



**TUBECO**

*Acciai Inossidabili*

**LAMIERE FORATE**

---

***PERFORATED SHEETS  
TOLES PERFOREES***



## **LA NOSTRA FILOSOFIA DI VENDITA È BASATA ESSENZIALMENTE SU PUNTUALITÀ E VELOCITÀ DI CONSEGNA.**

Questo ci ha fatto diventare un partner ideale, sicuro e privilegiato per molti e di soddisfare le esigenze di Artigiani come di Grandi Utilizzatori, sia per piccole che per grandi quantità, sia in Italia che all'estero.

Grazie alla qualità del servizio e all'impeccabile assistenza tecnico/commerciale del cliente, pre e post vendita, seppure di modeste dimensioni, la società si può collocare nella fascia della piccola e media distribuzione e, senza alcun dubbio, si distingue come azienda leader nel settore.

Tutti i prodotti trattati sono garantiti da grandi aziende leader nel settore dell'inossidabile, le quali rilasciano certificati a norma di legge.

Grande cura viene riservata all'immagine aziendale gestita con dinamicità seguendo con particolare attenzione i cambiamenti del mercato adeguandosi in tempo reale alle esigenze dello stesso.

Grazie all'esperienza trentennale nel settore dell'inox dei soci fondatori e all'inserimento di personale altamente professionale e motivato, TUBECO è oggi una società giovane e dinamica ben conosciuta e stimata dalla sua clientela.

# LAMIERE FORATE

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**PERFORATED SHEETS****TOLES PERFOREES****TECHNICAL CHARACTERISTICS****PERFORATED SHEETS WITH ROUND HOLE***IRON PERFORATED SHEETS**STAINLESS STEEL AISI 304 SHEETS**ALTERNATED ROUND HOLES AT 60°**ALTERNATED ROUND HOLES AT 45°**ROUND HOLES AT 90°**ROUND DRAWN HOLES***ELONGATED HOLES***ELONGATED ALTERNATE HOLES**ELONGATED HOLES ON ALTERNATE ROWS***PERFORATED SHEETS WITH RECTANGULAR HOLE***RECTANGULAR HOLES WITH EVEN LOCATION**RECTANGULAR HOLES OR ELONGATED HOLES***PERFORATED SHEETS WITH SQUARE HOLES***EVEN SQUARE HOLES**ALTERNATED SQUARE HOLES**SQUARE HOLES SET IN A DIAGONAL***PERFORATED SHEETS WITH FANCY HOLES****CURVED SHEETS FOR SCREENS****INTENDED SHEETS****STAINLESS STEEL TEAR PLATES****CARACTERISTIQUES TECHNIQUES****TOLES PERFOREES A TROU ROND***TOLES PERFOREES FER**TOLES ACIER INOX AISI 304**TROUS RONDS ALTERNES A 60°**TROUS RONDS ALTERNES A 45°**TROUS RONDS PAIRS A 90°**TROUS RONDS EMBOUTIS***TROUS OBLONGS***TROUS OBLONGS ALTERNES**TROUS OBLONGS A RANGS ALTERNES***TOLES PERFOREES A RECTANGULAIRES ROND***TROUS RECTANGULAIRES A DISPOSITION PAIRE**TROUS RECTANGULAIRES OU OBLONGS***TOLES PREFOREES A TROUS CARRES***TROUS CARRES PAIRS**TROUS CARRES ALTERNES**TROUS CARRES EN DIAGONALE***TOLES PERFOREES AVEC TROUS FANTAISIE****TOLES COURBEES POUR TAMIS****TOLES GAUFFREES****TOLES EN ACIER INOXIDABLE LARMEES**

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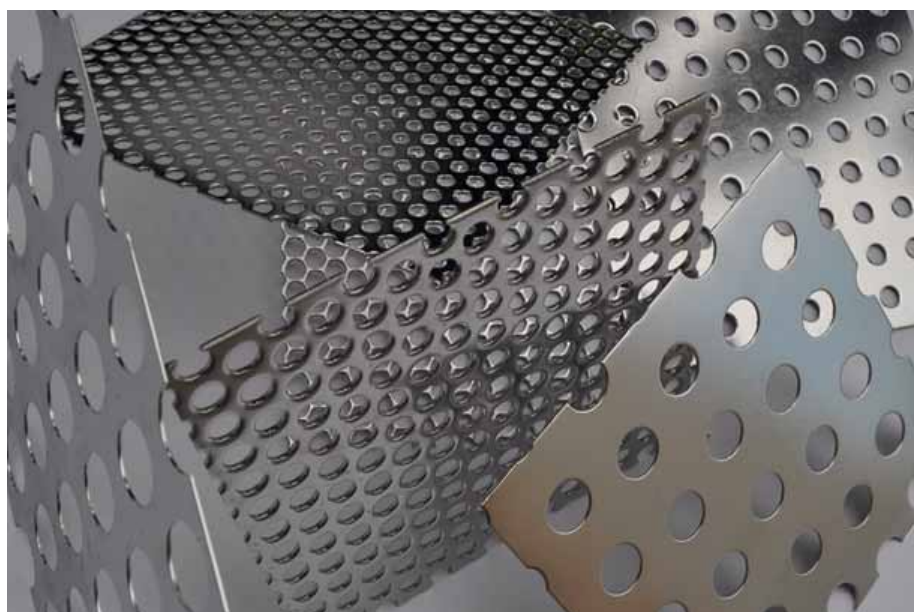
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# CARATTERISTICHE TECNICHE

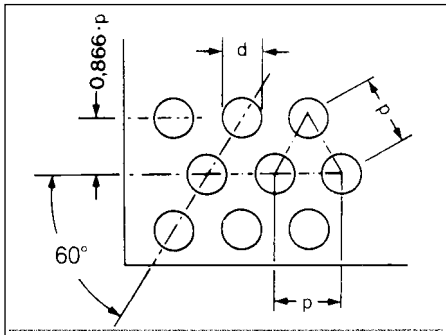
## TECHINICAL CHARACTERISTICS

## CARACTERISTIQUES TECHNIQUES

### Disposizione dei fori fra loro / Fori tondi

### Position of the holes / Round holes

### Dispositions des trous entre eux / Trous ronds



#### Disposizione a 60°

I fori sono disposti a 60°. Questa disposizione (anche detta a quinconce) è la più diffusa perché combina un'elevata rigidità della lamiera con un discreto rapporto di vuoto su pieno.

Essa è pertanto considerata normale e, se non specificato diversamente, la perforazione viene eseguita così.

*The holes are set at 60°.*

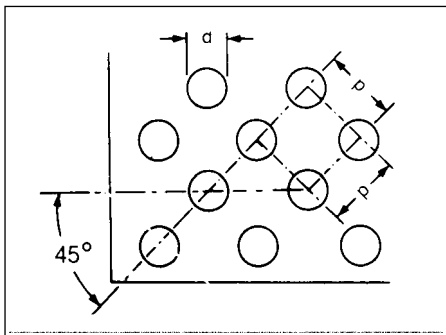
*This kind of disposition (also said quinconce-postion) is the most common, since it combines high rigidity of the sheet with a good ratio of empty on full.*

*This is therefore considered the standard disposition and without different agreements, this is the perforation normally performed.*

#### Disposition à 60°

Les trous sont disposés à 60°. Cette disposition (dite aussi à quinconce) est la plus repardue car associe une rigidité élevée de la tôle avec un discret rapport de vide sur plein.

Elle est donc considérée comme normale et, s'il n'y a aucune indication différente, la perforation est effectuée ainsi.



#### Disposizione a 45°

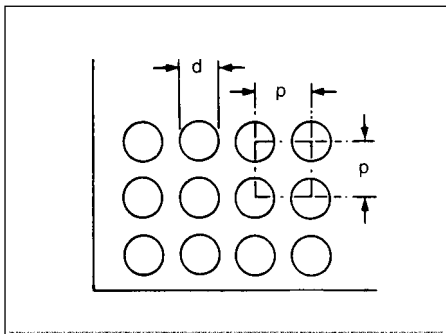
I fori sono disposti a 45°. Questa perforazione è di rara applicazione. Pertanto i perforatori dispongono di poche attrezzature standard di questo tipo.

#### Disposition at 45°

*The holes are set at 45°. This kind of perforation is seldom required. Therefore the manufactures are seldom equipped with tools for this kind of perforation.*

#### Disposition à 45°

Les trous sont disposés à 45°. Cette perforation est rarement appliquée. Par conséquent les perforateurs disposent d'un équipement limité.



#### Disposizione a 90°

I fori sono disposti in file parallele. Questa disposizione è richiesta per i pannelli espositori, arredamento di negozi e, talvolta, come perforazione ornamentale (facciate di radio e simili), è comunque assai diffusa.

#### Disposition at 90°

*The holes are set on parallel rows. This disposition is often required for exhibition panels, shop furnishing and sometimes as decoration (radio-devices front or similar), it is anyway a common disposition.*

#### Disposition paire à 90°

Les trous sont disposés en rangs parallèles. Cette disposition est nécessaire pour les panneaux-présentoirs, décoration de boutiques et, parfois, comme perforation ornementale (parties frontales de radio, etc.), elle est de toute façon assez repardue.

## Inizio e fine perforazioni

Per motivi tecnici di costruzione degli stampi, la distanza tra i punzoni è generalmente doppia o tripla rispetto al passo di perforazione.

Pertanto solo dopo il secondo, e talvolta dopo il terzo colpo si ottiene il completamento del disegno di perforazione. Lo stesso vale per la fine della zona forata. Possiamo eseguire l'inizio e la fine regolari in molte perforazioni purché preventivamente concordato.

## Beginning and end of the perforations

*For technical reasons related to the construction of the moulds, the distance from the punches is generally double or triple then the perforation pitch.*

*Therefore only after the second and sometimes after the third stroke the complete perforated drawing is achieved. The same is for the end of the perforated area.*

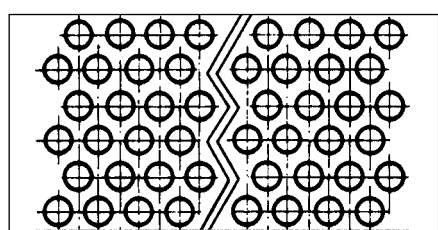
*It is possible to perform regular starts and ends in many perforations when previously agreed.*

## Début et fin des perforations

Pour des raisons techniques de construction des étampes, la distance entre les poinçons est généralement double ou triple par rapport au pas de perforation.

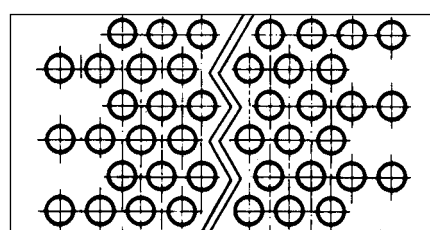
Par conséquent seulement après le second, et parfois après le troisième coup, on obtient l'achèvement du plan de perforation. Il en est de même pour la fin de la zone perforée.

Nous pouvons effectuer le début et la fin réguliers dans de nombreuses perforations pourvu que ce soit préalablement concordé.



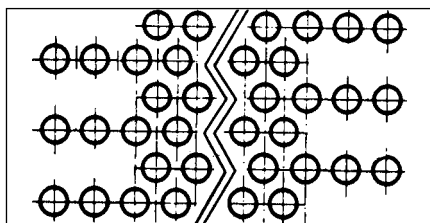
senso di perforazione  
perforation direction  
sens de perforation

inizio regolare  
regular start  
début régulier



senso di perforazione  
perforation direction  
sens de perforation

semplice salto iniziale  
simple starting leap  
simple saut initial



senso di perforazione  
perforation direction  
sens de perforation

doppio salto iniziale  
double starting leap  
double saut initial

## Disposizione della foratura

Nelle lamiere di misura standard, con fori rotondi di serie commerciale, il senso di foratura è di regola allineato con il lato maggiore del foglio. La disposizione inversa deve essere specificatamente richiesta.

## Perforation disposition

*In standard size sheets with commercial series round holes, the perforation direction is usually aligned with the longer edge of the sheet. The reverse disposition must be specifically required.*

## Disposition de la perforation

Dans les tôles de dimension standard, avec des trous ronds de série commerciale, le sens de perforation est aligné en règle générale avec le côté majeur de la feuille. La disposition inverse doit être demandée de manière spécifique.

## Materiali

I materiali normalmente perforati sono:

- acciaio comune
- acciaio inossidabile
- metalli non ferrosi
- altri, quali la plastica, etc.

## Dimensioni

Gli spessori vanno generalmente da 0,5 mm fino a 20 mm, mentre la larghezza max. è normalmente di 1.500 mm. La lunghezza, se non è richiesto il riavvolgimento in nastri, non dovrebbe superare i 6.000 mm.

Su richiesta specifica siamo in grado di superare questi valori limite.

## Fori

I fori più richiesti sono i tondi, i quadrati, gli oblungi e i rettangolari.



foro tondo  
round hole  
trou rond



foro quadrato  
square hole  
trou carré



foro oblungo  
elongated hole  
trou oblong



foro rettangolare  
rectangular hole  
rectangulaire

## Passo o interasse

Il passo o interasse corrisponde alla minor distanza tra i centri di due fori adiacenti. In caso di due passi diversi nella stessa perforazione (p. es. nei caso di fori oblungi) è necessaria la loro preventiva definizione.

Si eseguono lavorazioni su ordinazione in ferro, acciaio inox, ottone, rame, ecc., in dimensioni standard 1000 x 2000 e in misura su disegno del cliente.

## Bordi pieni

In generale, le lamiere standard fino a 3 mm di spessore, hanno bordi pieni minimi solo sui lati lunghi, mentre da 4 mm di spessore in su li hanno anche sui lati corti. Su specifica richiesta possiamo fornire anche lamiere con bordi diversi.

## Materials

*The materials which are normally perforated are:*

- common steel
- stainless steel
- non ferrous materials
- others, such as plastic, etc.

## Size

*The thickness ranges generally from 0,5 up to 20 mm, while the maximum length is normally 1500 mm. If the rewinding as bands is not required the length should not be more than 6000 mm. On request it is also possible to exceed these values.*

## Holes

*The most required are round, square, elongated and rectangular.*

## Pitch or interaxis

*The pitch or interaxis corresponds to the lower distance between the centres of two nearby holes. In case there are two different pitches in the same perforation (e.g. in case of elongated holes) it is necessary to define these values before starting the production.*

*On request works in iron, stainless steel, brass, copper etc. are supplied as standard sizes 1000x2000 and with sizes required by the customer himself.*

## Full edges

*Generally, standard SHEETS with a maximum thickness of 3 mm have minimal full edges just on the longer sides, while from 4 mm up, there are full edges also on the other sides. On request sheets with different edges are available.*

## Matériaux:

Les matériaux normalement perforés sont:

- acier commun
- acier inoxydable
- métaux non ferreux
- autres, tels que le plastique, etc.

## Dimensions

Les épaisseurs vont généralement de 0,5 mm jusqu'à 20 mm, alors que la largeur max. est normalement de 1.500 mm. La longueur, si l'on ne demande pas le réenroulement en rubans, ne devrait pas dépasser 6.000 mm.

Sur demande spécifique nous sommes en mesure de dépasser ces valeurs limite.

## Trous

Les trous les plus demandés sont les ronds, les carrés, les oblongs et les rectangulaires.

## Pas ou entraxe

Le pas ou entraxe correspond à la moindre distance entre les centres de deux trous adjacents. Dans le cas de deux pas différents dans la même perforation (par ex. dans le cas de trous oblongs) il faut connaître leur définition au préalable.

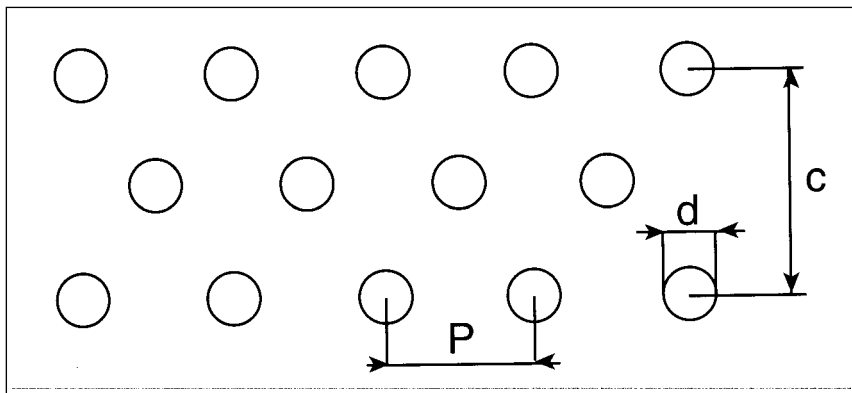
On effectue des usinages sur commande en fer, acier inox, laiton, cuivre, etc., dans les dimensions standard 1000 x 2000 et sur mesure sur le plan du client.

## Bords pleins

En général, les tôles standard jusqu'à 3 mm d'épaisseur ont des bords pleins minimaux seulement sur les côtés longs, alors qu'à partir de 4 mm d'épaisseur ils les ont aussi sur les côtés courts. Sur demande spécifique nous pouvons fournir aussi des tôles avec des bords différents.

# LAMIERE FORATE A FORO TONDO PERFORATED SHEETS WITH ROUND HOLE TOLES PERFOREES A TROU ROND

Tipi di fori e nomenclatura / TYPE AND NAME OF THE HOLES / TYPES DE TROUS ET NOMENCLATURE



## DISPOSIZIONE ALTERNATA A 60°

$d$  = diametro foro -  $p$  = passo

$c$  = distanza laterale =  $p \times 1,73$

% Vuoto su pieno =  $90,7 \times d^2 / p^2$

Numero fori per  $dm^2$  =  $1,15 \times 10.000 / p^2$

## ALTERNATE DISPOSITION AT 60°

$d$  = diameter of the hole -  $p$  = pitch

$c$  = side distance =  $p \times 1.73$

% Empty on full =  $90.7 \times d^2 / p^2$

Number of holes/ $dm^2$  =  $1.15 \times 10.000 / p^2$

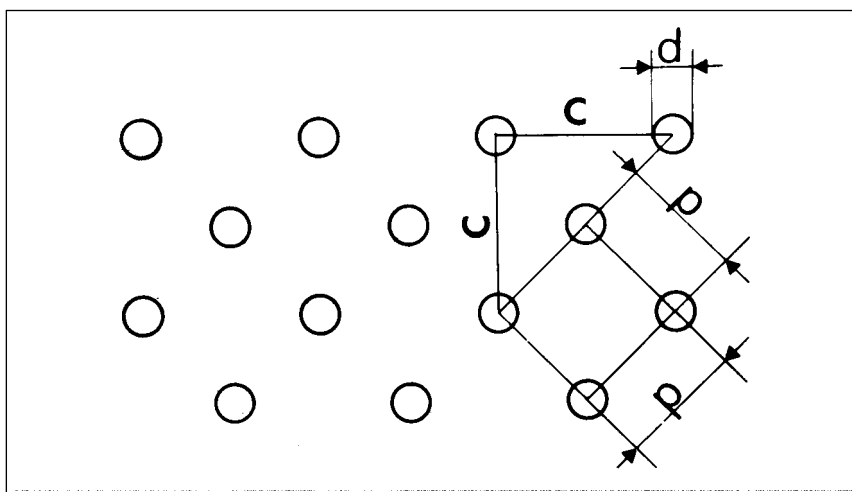
## DISPOSITION ALTERNEE A 60°

$d$  = diamètre trou -  $p$  = pas

$c$  = distance latérale =  $p \times 1,73$

% Vide sur plein =  $90,7 \times d^2 / p^2$

Nombre de trous par  $dm^2$  =  $1,15 \times 10.000 / p^2$



## DISPOSIZIONE ALTERNATA A 45°

$d$  = diametro foro -  $p$  = passo

$c$  =  $p \times 1,42$

% Vuoto su pieno =  $78,5 \times d^2 / p^2$

Numero fori per  $dm^2$  =  $10.000 / p^2$

## ALTERNATE DISPOSITION 45°

$d$  = diameter of the hole -  $p$  = pitch

$c$  =  $p \times 1,42$

% Empty on full =  $78,5 \times d^2 / p^2$

Number of hole/ $dm^2$  =  $10.000 / p^2$

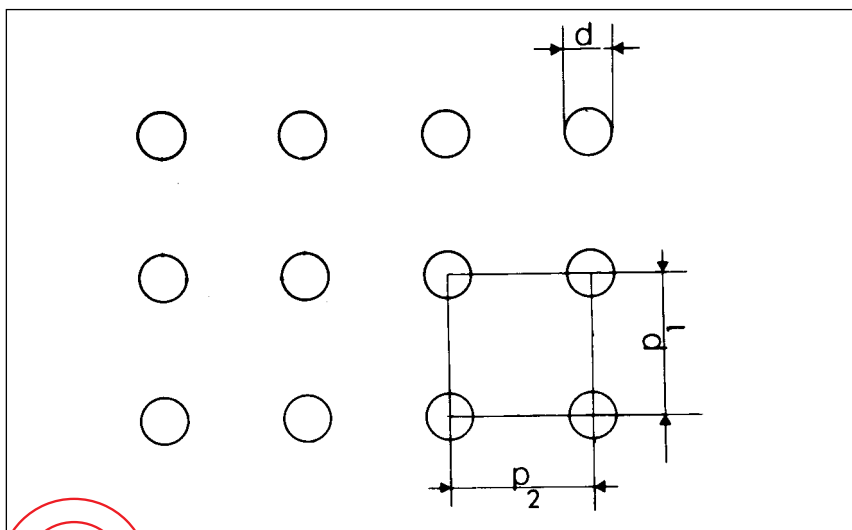
## DISPOSITION ALTERNEE A 45°

$d$  = diamètre trou -  $p$  = pas

$c$  =  $p \times 1,42$

% Vide sur plein =  $78,5 \times d^2 / p^2$

Nombre de trous par  $dm^2$  =  $10.000 / p^2$



## DISPOSIZIONE PARI A 90°

$d$  = diametro foro -  $p^1$  = passo verticale

$p^2$  = passo orizzontale

% Vuoto su pieno =  $78,5 \times d^2 / p^2$

Numero fori per  $dm^2$  =  $10.000 / p^2$

## DISPOSITION 90°

$d$  = diameter of the hole -  $p^1$  = vertical pitch

$p^2$  = horizontal pitch

% Empty on full =  $78,5 \times d^2 / p^2$

Number of holes/ $dm^2$  =  $10.000 / p^2$

## DISPOSITION A 90°

$d$  = diamètre trou -  $p^1$  = pas vertical

$p^2$  = pas horizontal

% Vide sur plein =  $78,5 \times d^2 / p^2$

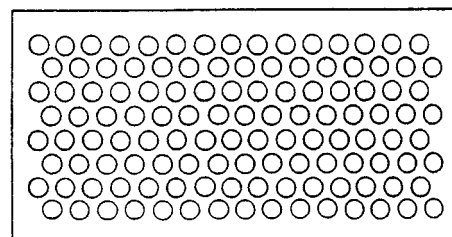
Nombre de trous par  $dm^2$  =  $10.000 / p^2$

## COME POSSONO ESSERE I BORDI DI UNA LAMIERA FORATA

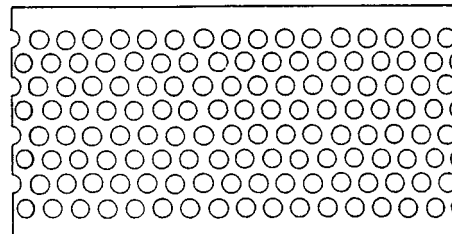
### HOW CAN THE PERFORATED PLATE'S BORDERS BE MADE

### COMMENT PEUVENT ETRE EXÉCUTES LES BORDS D'UNE TOLE PERFORÉE

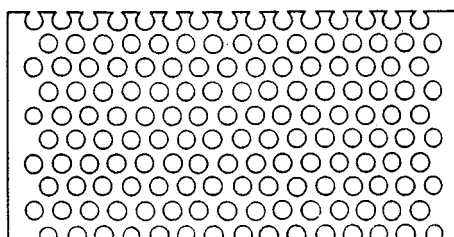
- 1) Bordi perimetrali  
*Perimetral borders*  
Bords périmétraux
- 2) Bordi soli sui lati lunghi  
*Borders on the long sides only*  
Bords seulement sur les longs côtés
- 3) Bordi solo sui lati corti  
*Borders on the short sides only*  
Bords seulement sur les courts côtés
- 4) Senza bordi  
*Without borders*  
Sans bords



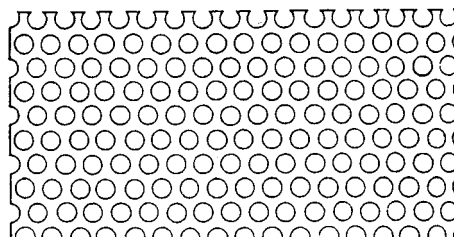
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2



3



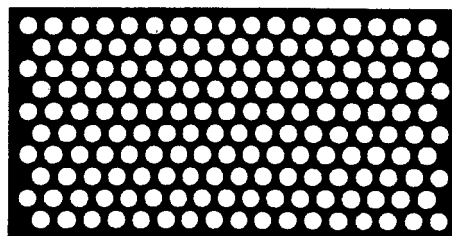
4

## COME SI PUÒ INIZIARE E FINIRE UNA DETERMINATA ZONA FORATA

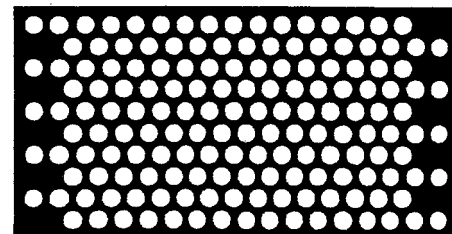
### HOW WE CAN TO BEGIN AND TO FINISH A DEFINITED PERFORATED AREA

### COMMENT PEUT-ON COMMENCER ET FINIR UNE ZONE PERFORÉE

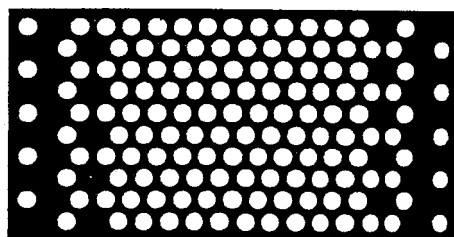
- 1) Campo di foratura completo  
*Complete end-rows*  
Champ de perforation complet
- 2) Colpo di perforazione incompleto in partenza e arrivo  
*Incomplete end-rows on two sides of the sheets*  
Coup de perforation non complet au debut et à la fin
- 3) Doppio colpo di perforazione incompleto in partenza e arrivo  
*Two incomplete end-rows on two sides of the sheet*  
Double coup de perforation non complet au debut et à la fin



1

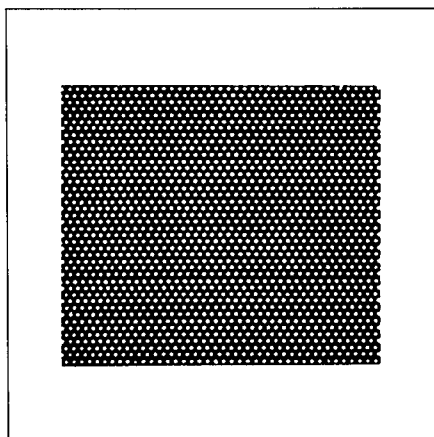


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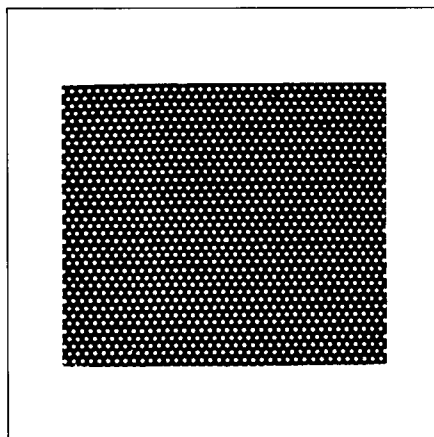


3

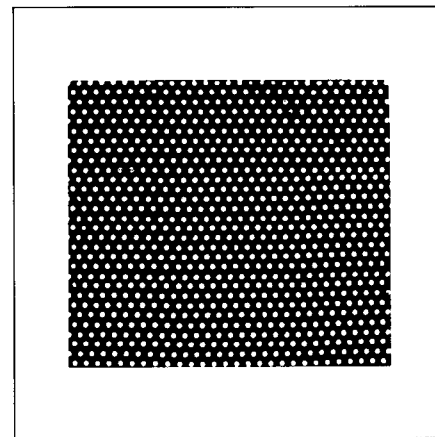
# FORI TONDI DI NORMALE PRODUZIONE STANDARD PRODUCTION ROUND HOLES TROUS ROUNDS DE PRODUCTION STANDARD



Ø mm 0,50



Ø mm 0,60



Ø mm 0,80

## Particolare specializzazione:

1. Fori piccoli e piccolissimi - 2. Fori fitti

Esecuzione con ns/ officina specializzata in stampi per qualsiasi tipo di foratura.

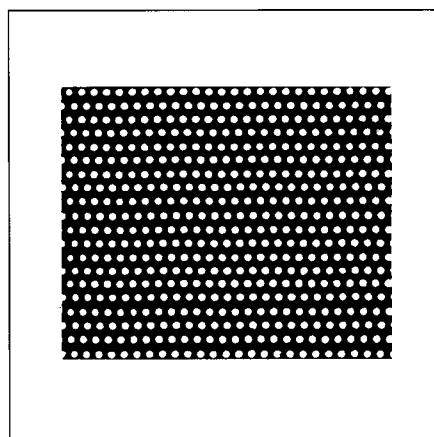
NB: Fori tondi con diametri in scala 1:1

## Specialised production:

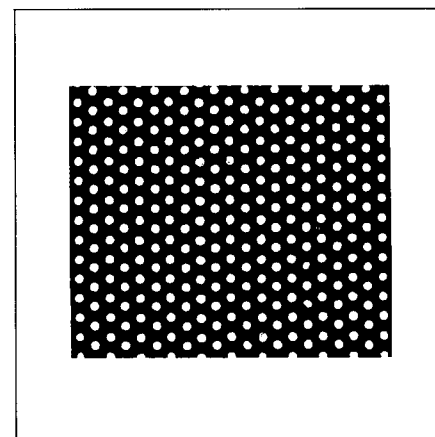
1. Small and tiny holes  
2. Thick holes

The perforation is performed at our premises in a workshop equipped for the execution of any kind of perforation.

Note: Round holes with diameters in scale 1:1



Ø mm 1,00



Ø mm 1,25

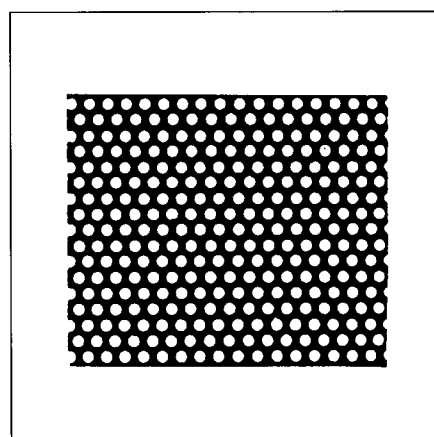
## Spécialisation particulière:

1. Trous petits et très petits  
2. Trous serrés

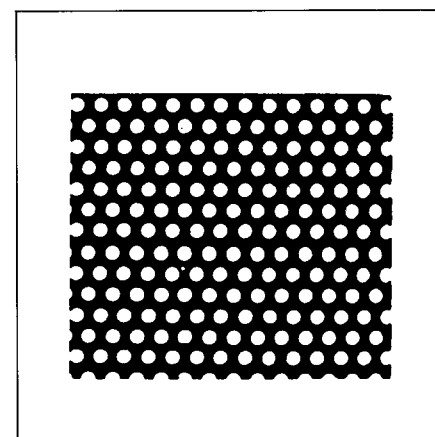
Exécution dans notre usine spécialisée d'étampes pour tous les types de perforation

N.B.: Trous ronds avec diamètres à l'échelle 1:1

NB: Esigenze diverse e continue di mercato possono originare stampi con fori e interassi diversi da quelli elencati. Vogliate pertanto chiederne conferma



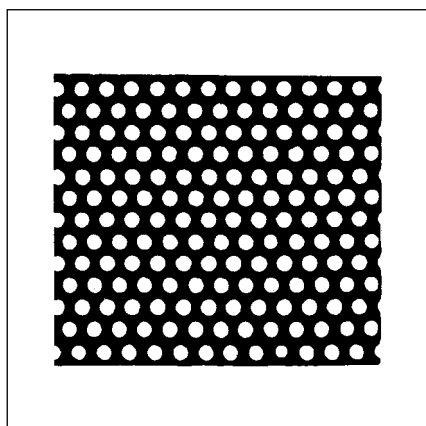
Ø mm 1,50



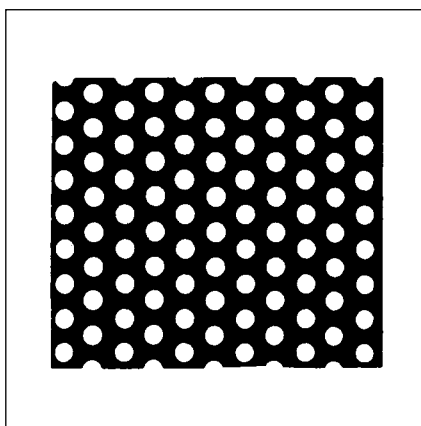
Ø mm 1,75

Note: Continuous and different needs of the market can lead to the production of moulds with holes and interaxis different from those specified.  
Please always require the order confirmation.

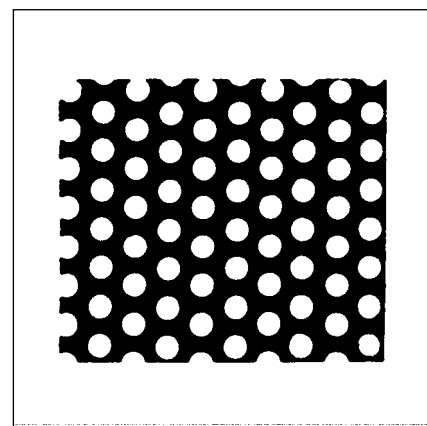
N.B.: Des exigences différentes et continues de marché peuvent donner lieu à des étampes avec des trous et des entraxes différents de ceux indiqués.  
Veuillez donc demander la confirmation.



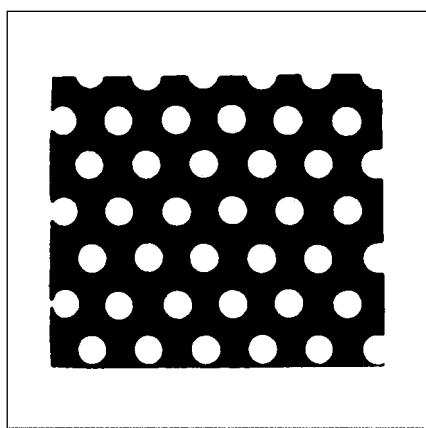
Ø mm 2,00



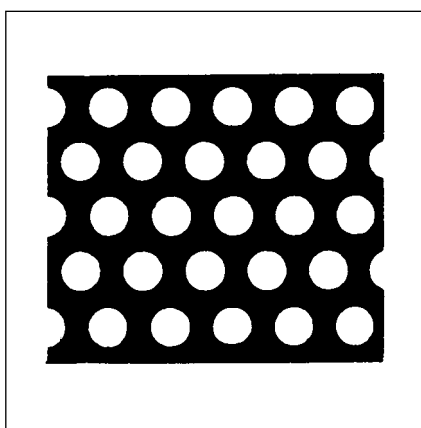
Ø mm 2,50



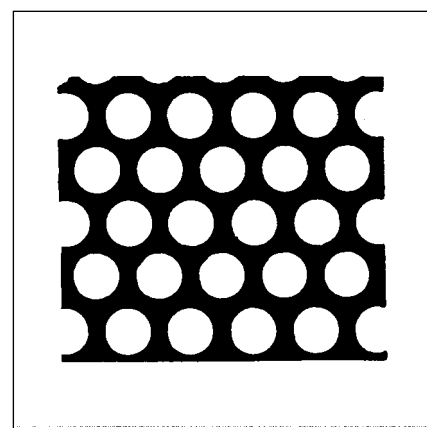
Ø mm 3,00



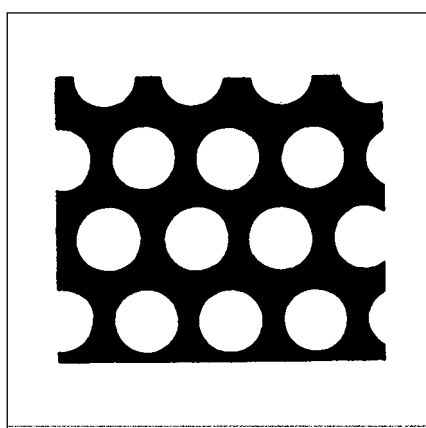
Ø mm 4,00



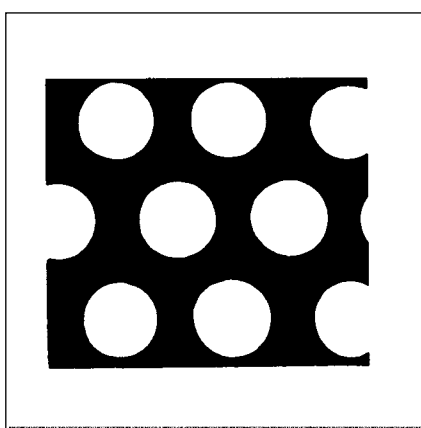
Ø mm 5,00



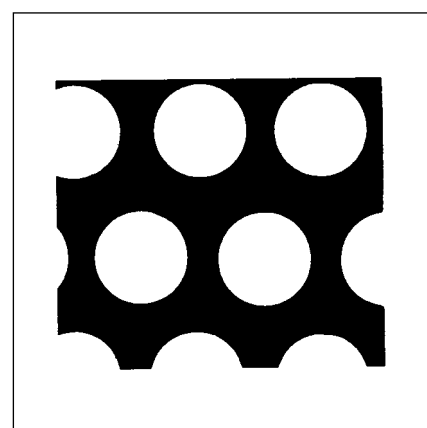
Ø mm 6,00



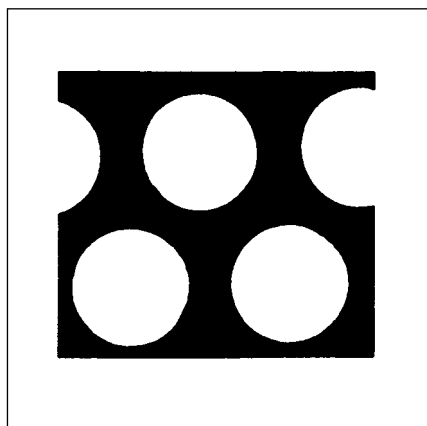
Ø mm 8,00



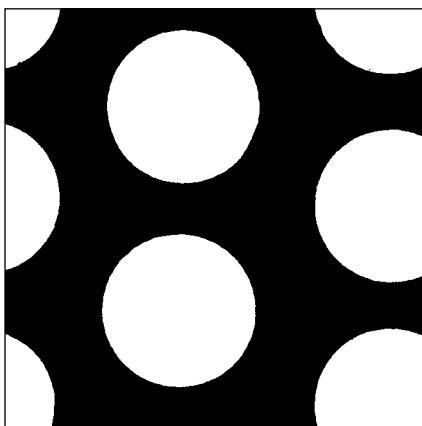
Ø mm 10,00



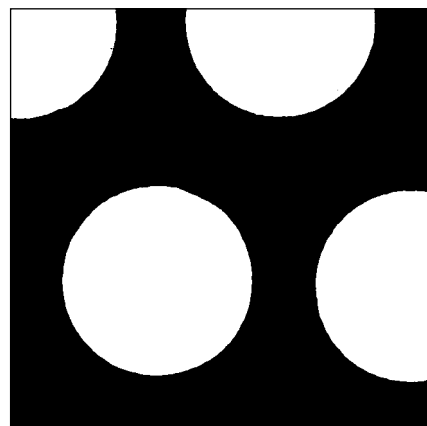
Ø mm 12,00



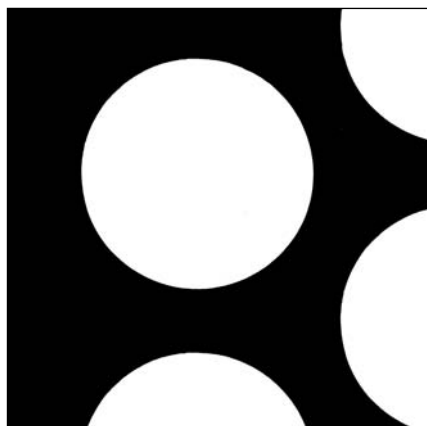
Ø mm 15,00



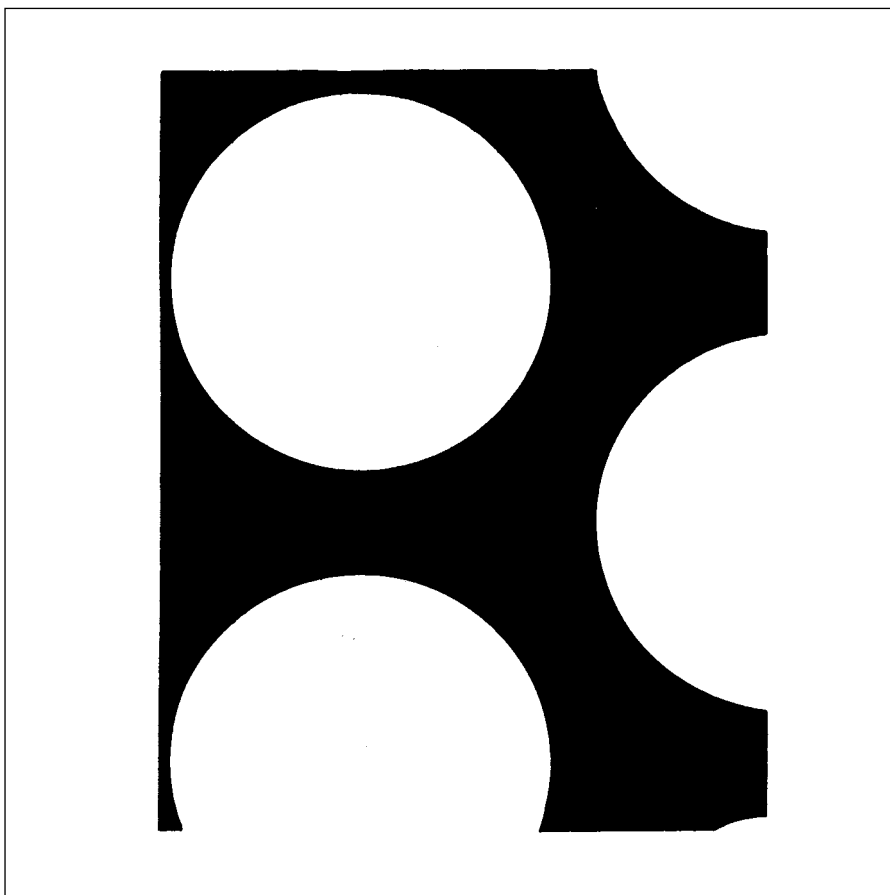
Ø mm 20,00



Ø mm 25,00 - inter. 50,00



Ø mm 30,00



Ø mm 50,00

# LAMIERE FORATE FERRO A00

## PERFORATED SHEETS IRON A00

### TOLES PERFOREES ACIER DOUX

Normalmente pronte a magazzino. Fori tondi - Dimensioni 1000 x 2000 - Foratura alternata 60°

*Normally on stock. Round holes - Size 1000x2000 - Alternated perforation at 60°*

Normalement en stock. Trous ronds - Dimensions 1000 x 2000 - Perforation alternée 60°

| SPESSORI E FORI / THICKNESS AND HOLES / EPAISSEURS ET TROUS |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|-------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 0,5                                                         | 0,8              | 1                | 1,5              | 2                | 3                | 4                | 5                | 6                | 8                | 10               |
| fori/holes/trous                                            | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous |
| Ø mm                                                        | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm             |
| 0,5                                                         | 0,8              | 1                | 1,5              | 2                | 3                | 4                | 5                | 6                | 8                | 10               |
| 0,6                                                         | 1                | 1,5              | 2                | 2,5              | 3,5              | 5                | 6                | 8                | 10               | 12               |
| 0,8                                                         | 1,5              | 2                | 2,5              | 3                | 4                | 6                | 8                | 10               | 12               | 15               |
| 1                                                           | 2                | 2,5              | 3                | 3,5              | 5                | 8                | 10               | 12               | 15               | 20               |
| 1,5                                                         | 2,5              | 3                | 3,5              | 4                | 6                | 10               | 12               | 15               | 20               | 25               |
| 2                                                           | 3                | 3,5              | 4                | 5                | 8                | 12               | 15               | 20               | 25               | 30               |
| 2,5                                                         | 4                | 4                | 5                | 6                | 10               | 15               | 20               | 25               | 30               | 35               |
| 3                                                           | 5                | 5                | 6                | 8                | 12               | 20               | 25               | 30               | 35               | 40               |
| 4                                                           | 6                | 6                | 8                | 10               | 15               | 25               | 30               | 35               | 40               | 50               |
| 5                                                           | 8                | 8                | 10               | 12               | 20               | 30               | 35               | 40               | 50               | 60               |
| 6                                                           | 10               | 10               | 12               | 15               | 25               | 35               | 40               | 50               | 60               | 80               |
| 8                                                           | 12               | 15               | 20               | 30               | 40               | 50               | 60               | 80               | 100              |                  |
| 10                                                          | 15               |                  |                  |                  | 50               | 60               | 80               | 100              | 120              |                  |

#### DISPOSIZIONE DELLA FORATURA RISPETTO AL FOGLIO DI LAMIERA

#### HOLE ARRANGEMENT AS REGARD METEL PLATES

#### DISPOSITION DE LA PERFORATION PAR RAPPORT A LA FEUILLE DE TOLE

##### DISPOSIZIONE DELLA FORATURA

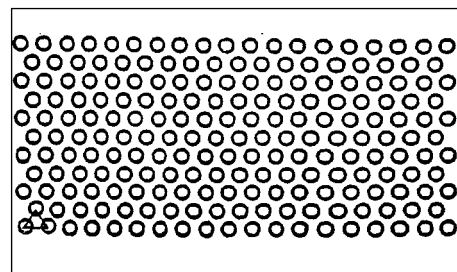
Nelle lamiere di misura standard, con fori rotondi di serie commerciale, il senso di foratura è di regola allineato con il lato maggiore del foglio. La disposizione inversa deve essere specificatamente richiesta.

##### HOLE ARRANGEMENT

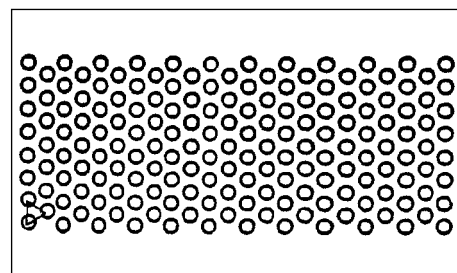
*In standard size plates with standard round holes, perforation is usually done starting from the longer side of the plate. If the opposite arrangement is desired, this should be specifically required.*

##### DISPOSITION DE LA PERFORATION

Dans les tôles de dimension standard, avec trous ronds de série commerciale, le sens de perforation est en général aligné avec le côté plus long de la feuille. La disposition inverse est faite sur commande.



DISPOSIZIONE STANDARD  
STANDARD DISPOSITION  
DISPOSITION STANDARD



DISPOSIZIONE A RICHIESTA  
DISPOSITION ON REQUEST  
DISPOSITION SUR DEMANDE

# LAMIERE ACCIAIO INOX AISI 304

## AISI 304 STAINLESS STEEL SHEETS

### TOLES EN ACIER INOX AISI 304

Normalmente pronte a magazzino e di produzione standard. Fori tondi - Dimensioni 1000 x 2000.  
Foratura alternata 60°

*Normally on stock. Round holes - Size 1000 x 2000 - Alternate perforation at 60°*

Normalement en stock et de production standard. Trous ronds - Dimensions 1000 x 2000.  
Perforation alternée 60°

| SPESSORI E FORI / THICKNESS AND HOLES / EPAISSEURS ET TROUS |                  |                  |                  |                  |                  |                  |                  |                  |             |
|-------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------|
| 0,4                                                         | 0,5              | 0,8              | 1                | 1,5              | 2                | 3                | 4                | 5                | e oltre     |
| fori/holes/trous                                            | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | fori/holes/trous | a richiesta |
| Ø mm                                                        | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm             | Ø mm        |
| 0,4                                                         |                  |                  |                  |                  |                  |                  |                  |                  |             |
| 0,5                                                         | 0,5              |                  |                  |                  |                  |                  |                  |                  |             |
| 0,6                                                         | 0,6              |                  |                  |                  |                  |                  |                  |                  |             |
| 0,8                                                         | 0,8              | 0,8              |                  |                  |                  |                  |                  |                  |             |
| 1                                                           | 1                | 1                | 1                |                  |                  |                  |                  |                  |             |
| 1,5                                                         | 1,5              | 1,5              | 1,5              | 1,5              |                  |                  |                  |                  |             |
| 2                                                           | 2                | 2                | 2                | 2                | 2                |                  |                  |                  |             |
| 2,5                                                         | 2,5              | 2,5              | 2,5              | 2,5              | 2,5              |                  |                  |                  |             |
| 3                                                           | 3                | 3                | 3                | 3                | 3                | 3                |                  |                  |             |
| 4                                                           | 4                | 4                | 4                | 4                | 4                | 4                | 4                |                  |             |
| 5                                                           | 5                | 5                | 5                | 5                | 5                | 5                | 5                | 5                |             |
| 6                                                           | 6                | 6                | 6                | 6                | 6                | 6                | 6                | 6                |             |
| 8                                                           | 8                | 8                | 8                | 8                | 8                | 8                | 8                | 8                |             |
| 10                                                          | 10               | 10               | 10               | 10               | 10               | 10               | 10               | 10               |             |
|                                                             |                  |                  | 12               | 12               | 12               | 12               | 12               | 12               |             |
|                                                             |                  |                  | 15               | 15               | 15               | 15               | 15               | 15               |             |
|                                                             |                  |                  | 20               | 20               | 20               | 20               | 20               | 20               |             |

**Fori tondi alternati a 60° - quinconce****Alternated holes at 60° - quinconce disposition****Trous ronds alternés à 60° - quinconce**

| Diametro foro<br>mm<br><i>Hole diameter<br/>mm</i><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><i>Side<br/>distance C</i><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><i>N. holes<br/>dm<sup>2</sup></i><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><i>%<br/>of empty</i><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>0,4</b>                                                                | 1                                                                                                                                             | 1,8                                                                            | 11500                                                                                              | 14,4                                                                 |
|                                                                           | 1,15                                                                                                                                          | 2                                                                              | 8700                                                                                               | 11,1                                                                 |
|                                                                           | 1,25                                                                                                                                          | 2,2                                                                            | 7360                                                                                               | 10,2                                                                 |
|                                                                           | 1,4                                                                                                                                           | 2,5                                                                            | 5860                                                                                               | 8,1                                                                  |
|                                                                           | 1,5                                                                                                                                           | 2,6                                                                            | 5100                                                                                               | 7,1                                                                  |
| <b>0,45</b>                                                               | 1,15                                                                                                                                          | 2                                                                              | 8700                                                                                               | 13,7                                                                 |
|                                                                           | 1,25                                                                                                                                          | 2,2                                                                            | 7360                                                                                               | 11,7                                                                 |
|                                                                           | 1,4                                                                                                                                           | 2,5                                                                            | 5860                                                                                               | 9,3                                                                  |
|                                                                           | 1,5                                                                                                                                           | 2,6                                                                            | 5100                                                                                               | 9                                                                    |
| <b>0,5</b>                                                                | 1,15                                                                                                                                          | 2                                                                              | 8700                                                                                               | 17                                                                   |
|                                                                           | 1,25                                                                                                                                          | 2,2                                                                            | 7360                                                                                               | 14,4                                                                 |
|                                                                           | 1,4                                                                                                                                           | 2,5                                                                            | 5860                                                                                               | 11,4                                                                 |
|                                                                           | 1,5                                                                                                                                           | 2,6                                                                            | 5100                                                                                               | 10                                                                   |
| <b>0,55</b>                                                               | 1,25                                                                                                                                          | 2,2                                                                            | 7360                                                                                               | 17,4                                                                 |
|                                                                           | 1,4                                                                                                                                           | 2,5                                                                            | 5860                                                                                               | 13,8                                                                 |
|                                                                           | 1,5                                                                                                                                           | 2,6                                                                            | 5100                                                                                               | 12,2                                                                 |
| <b>0,6</b>                                                                | 1,25                                                                                                                                          | 2,2                                                                            | 7360                                                                                               | 20,8                                                                 |
|                                                                           | 1,4                                                                                                                                           | 2,5                                                                            | 5860                                                                                               | 16,8                                                                 |
|                                                                           | 1,5                                                                                                                                           | 2,6                                                                            | 5100                                                                                               | 14,5                                                                 |
| <b>0,65</b>                                                               | 1,25                                                                                                                                          | 2,2                                                                            | 7360                                                                                               | 24,3                                                                 |
|                                                                           | 1,4                                                                                                                                           | 2,5                                                                            | 5860                                                                                               | 19,3                                                                 |
|                                                                           | 1,5                                                                                                                                           | 2,6                                                                            | 5100                                                                                               | 16,9                                                                 |
|                                                                           | 1,6                                                                                                                                           | 2,8                                                                            | 4500                                                                                               | 14,8                                                                 |
| <b>0,7</b>                                                                | 1,25                                                                                                                                          | 2,2                                                                            | 7360                                                                                               | 28,2                                                                 |
|                                                                           | 1,4                                                                                                                                           | 2,5                                                                            | 5860                                                                                               | 22,7                                                                 |
|                                                                           | 1,5                                                                                                                                           | 2,6                                                                            | 5100                                                                                               | 19,5                                                                 |
|                                                                           | 1,6                                                                                                                                           | 2,8                                                                            | 4500                                                                                               | 17,2                                                                 |
| <b>0,75</b>                                                               | 1,25                                                                                                                                          | 2,2                                                                            | 7360                                                                                               | 32,4                                                                 |
|                                                                           | 1,5                                                                                                                                           | 2,6                                                                            | 5100                                                                                               | 22,5                                                                 |
|                                                                           | 1,6                                                                                                                                           | 2,8                                                                            | 4500                                                                                               | 19,7                                                                 |
|                                                                           | 1,75                                                                                                                                          | 3                                                                              | 3770                                                                                               | 16,5                                                                 |
| <b>0,8</b>                                                                | 1,25                                                                                                                                          | 2,2                                                                            | 7360                                                                                               | 36,8                                                                 |
|                                                                           | 1,5                                                                                                                                           | 2,6                                                                            | 5100                                                                                               | 26                                                                   |
|                                                                           | 1,6                                                                                                                                           | 2,8                                                                            | 4500                                                                                               | 22,5                                                                 |
|                                                                           | 1,8                                                                                                                                           | 3,2                                                                            | 3550                                                                                               | 17,7                                                                 |
|                                                                           | 2                                                                                                                                             | 3,5                                                                            | 2880                                                                                               | 14,5                                                                 |

**Fori tondi  
alternati  
a 60°**

**Alternated  
holes  
a 60°**

**Trous ronds  
alternés  
à 60**

| Diametro foro<br>mm<br><i>Hole diameter<br/>mm</i><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><i>Side<br/>distance C</i><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><i>N. holes<br/>dm<sup>2</sup></i><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><i>%<br/>of empty</i><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>0,85</b>                                                               | 1,6                                                                                                                                           | 2,8                                                                            | 4500                                                                                               | 25,6                                                                 |
|                                                                           | 1,7                                                                                                                                           | 3                                                                              | 3985                                                                                               | 22,5                                                                 |
|                                                                           | 1,8                                                                                                                                           | 3,2                                                                            | 3560                                                                                               | 20                                                                   |
|                                                                           | 2                                                                                                                                             | 3,5                                                                            | 2880                                                                                               | 16,2                                                                 |
| <b>0,9</b>                                                                | 1,8                                                                                                                                           | 3,2                                                                            | 3560                                                                                               | 22,5                                                                 |
|                                                                           | 2                                                                                                                                             | 3,5                                                                            | 2880                                                                                               | 18,2                                                                 |
| <b>1</b>                                                                  | 2                                                                                                                                             | 3,5                                                                            | 2880                                                                                               | 22,7                                                                 |
|                                                                           | 2,25                                                                                                                                          | 3,9                                                                            | 2880                                                                                               | 17,8                                                                 |
|                                                                           | 2,3                                                                                                                                           | 4                                                                              | 1840                                                                                               | 14,5                                                                 |
|                                                                           | 2,5                                                                                                                                           | 4,3                                                                            | 1840                                                                                               | 14,5                                                                 |
|                                                                           | 3                                                                                                                                             | 5,2                                                                            | 1280                                                                                               | 10                                                                   |
|                                                                           | 4                                                                                                                                             | 7                                                                              | 720                                                                                                | 5,6                                                                  |
|                                                                           | 5                                                                                                                                             | 8,7                                                                            | 460                                                                                                | 3,6                                                                  |
| <b>1,25</b>                                                               | 2,25                                                                                                                                          | 3,9                                                                            | 2280                                                                                               | 28                                                                   |
|                                                                           | 2,5                                                                                                                                           | 4,3                                                                            | 1840                                                                                               | 22,7                                                                 |
|                                                                           | 3                                                                                                                                             | 5,2                                                                            | 1280                                                                                               | 15,6                                                                 |
| <b>1,4</b>                                                                | 3                                                                                                                                             | 5,2                                                                            | 1280                                                                                               | 19,5                                                                 |
|                                                                           | 3,5                                                                                                                                           | 6                                                                              | 940                                                                                                | 14,4                                                                 |
| <b>1,5</b>                                                                | 2,5                                                                                                                                           | 4,3                                                                            | 1840                                                                                               | 32,7                                                                 |
|                                                                           | 2,75                                                                                                                                          | 4,8                                                                            | 1530                                                                                               | 26,7                                                                 |
|                                                                           | 3                                                                                                                                             | 5,2                                                                            | 1280                                                                                               | 22,7                                                                 |
|                                                                           | 3,5                                                                                                                                           | 6                                                                              | 940                                                                                                | 16,5                                                                 |
|                                                                           | 4                                                                                                                                             | 7                                                                              | 720                                                                                                | 12,8                                                                 |
| <b>1,75</b>                                                               | 3                                                                                                                                             | 5,2                                                                            | 1280                                                                                               | 31                                                                   |
|                                                                           | 3,25                                                                                                                                          | 5,6                                                                            | 1089                                                                                               | 26                                                                   |
|                                                                           | 3,5                                                                                                                                           | 6                                                                              | 940                                                                                                | 22,5                                                                 |
|                                                                           | 4                                                                                                                                             | 7                                                                              | 720                                                                                                | 17,4                                                                 |
| <b>2</b>                                                                  | 3                                                                                                                                             | 5,2                                                                            | 1280                                                                                               | 39                                                                   |
|                                                                           | 3,25                                                                                                                                          | 5,6                                                                            | 1089                                                                                               | 34                                                                   |
|                                                                           | 3,6                                                                                                                                           | 6,3                                                                            | 890                                                                                                | 28                                                                   |
|                                                                           | 3,75                                                                                                                                          | 6,5                                                                            | 820                                                                                                | 25,75                                                                |
|                                                                           | 4                                                                                                                                             | 7                                                                              | 720                                                                                                | 22,7                                                                 |
|                                                                           | 4,5                                                                                                                                           | 7,8                                                                            | 570                                                                                                | 17,7                                                                 |
|                                                                           | 5                                                                                                                                             | 8,7                                                                            | 460                                                                                                | 14,4                                                                 |
|                                                                           | 6                                                                                                                                             | 10,4                                                                           | 320                                                                                                | 10                                                                   |
|                                                                           | 8                                                                                                                                             | 13,8                                                                           | 180                                                                                                | 5,7                                                                  |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 3,6                                                                  |
|                                                                           | 12                                                                                                                                            | 20,7                                                                           | 80                                                                                                 | 2,5                                                                  |
| <b>2,25</b>                                                               | 3,5                                                                                                                                           | 6                                                                              | 940                                                                                                | 38                                                                   |
|                                                                           | 4                                                                                                                                             | 7                                                                              | 720                                                                                                | 28,8                                                                 |

Fori tondi  
alternati  
a 60°

Alternated  
holes  
a 60°

Trous ronds  
alternés  
à 60

| Diametro foro<br>mm<br><br>Hole diameter<br>mm<br><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><br>Distance from<br>center of the hole<br>(interaxis) P<br><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><br>Side<br>distance C<br><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><br>N. holes<br>dm <sup>2</sup><br><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><br>%<br>of empty<br><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>2,5</b>                                                                | 3,5                                                                                                                                          | 6                                                                              | 940                                                                                                 | 46                                                                   |
|                                                                           | 3,8                                                                                                                                          | 6,6                                                                            | 796                                                                                                 | 38                                                                   |
|                                                                           | 4                                                                                                                                            | 7                                                                              | 720                                                                                                 | 35                                                                   |
|                                                                           | 4,5                                                                                                                                          | 7,8                                                                            | 570                                                                                                 | 28                                                                   |
|                                                                           | 5                                                                                                                                            | 8,7                                                                            | 460                                                                                                 | 22,5                                                                 |
|                                                                           | 5,6                                                                                                                                          | 9,7                                                                            | 368                                                                                                 | 17                                                                   |
|                                                                           | 6                                                                                                                                            | 10,4                                                                           | 320                                                                                                 | 16                                                                   |
|                                                                           | 6,3                                                                                                                                          | 10,8                                                                           | 289                                                                                                 | 13                                                                   |
|                                                                           | 7                                                                                                                                            | 12,1                                                                           | 235                                                                                                 | 10                                                                   |
|                                                                           | 8                                                                                                                                            | 13,8                                                                           | 180                                                                                                 | 8                                                                    |
| <b>2,75</b>                                                               | 4                                                                                                                                            | 7                                                                              | 720                                                                                                 | 43                                                                   |
|                                                                           | 4,5                                                                                                                                          | 7,8                                                                            | 570                                                                                                 | 33,6                                                                 |
|                                                                           | 4,75                                                                                                                                         | 8,2                                                                            | 510                                                                                                 | 30                                                                   |
| <b>2,8</b>                                                                | 3,5                                                                                                                                          | 6                                                                              | 940                                                                                                 | 57,6                                                                 |
|                                                                           | 4,5                                                                                                                                          | 7,8                                                                            | 570                                                                                                 | 34,8                                                                 |
| <b>3</b>                                                                  | 4                                                                                                                                            | 7                                                                              | 720                                                                                                 | 51                                                                   |
|                                                                           | 4,3                                                                                                                                          | 7,4                                                                            | 622                                                                                                 | 43,8                                                                 |
|                                                                           | 4,5                                                                                                                                          | 7,8                                                                            | 570                                                                                                 | 40                                                                   |
|                                                                           | 5                                                                                                                                            | 8,7                                                                            | 460                                                                                                 | 32,5                                                                 |
|                                                                           | 5,5                                                                                                                                          | 9,5                                                                            | 380                                                                                                 | 27                                                                   |
|                                                                           | 6                                                                                                                                            | 10,4                                                                           | 320                                                                                                 | 22,5                                                                 |
|                                                                           | 6,5                                                                                                                                          | 11,2                                                                           | 272                                                                                                 | 19                                                                   |
|                                                                           | 7                                                                                                                                            | 12,1                                                                           | 235                                                                                                 | 16,5                                                                 |
|                                                                           | 8                                                                                                                                            | 13,8                                                                           | 180                                                                                                 | 13                                                                   |
|                                                                           | 8,5                                                                                                                                          | 14,7                                                                           | 160                                                                                                 | 11,2                                                                 |
|                                                                           | 10                                                                                                                                           | 17,3                                                                           | 115                                                                                                 | 8                                                                    |
|                                                                           | 15                                                                                                                                           | 26                                                                             | 51                                                                                                  | 3,6                                                                  |
| <b>3,15</b>                                                               | 5                                                                                                                                            | 8,7                                                                            | 460                                                                                                 | 35,7                                                                 |
|                                                                           | 5,5                                                                                                                                          | 9,5                                                                            | 380                                                                                                 | 29,5                                                                 |
|                                                                           | 6                                                                                                                                            | 10,4                                                                           | 320                                                                                                 | 24,8                                                                 |
| <b>3,3</b>                                                                | 5                                                                                                                                            | 8,7                                                                            | 460                                                                                                 | 39,2                                                                 |
|                                                                           | 6                                                                                                                                            | 10,4                                                                           | 320                                                                                                 | 27,2                                                                 |
|                                                                           | 6,25                                                                                                                                         | 10,7                                                                           | 295                                                                                                 | 24,7                                                                 |
|                                                                           | 10                                                                                                                                           | 17,3                                                                           | 115                                                                                                 | 9,8                                                                  |
| <b>3,5</b>                                                                | 4,5                                                                                                                                          | 7,8                                                                            | 570                                                                                                 | 55                                                                   |
|                                                                           | 5                                                                                                                                            | 8,7                                                                            | 460                                                                                                 | 44                                                                   |
|                                                                           | 5,6                                                                                                                                          | 9,7                                                                            | 368                                                                                                 | 35                                                                   |
|                                                                           | 6                                                                                                                                            | 10,4                                                                           | 320                                                                                                 | 31                                                                   |
|                                                                           | 6,5                                                                                                                                          | 11,2                                                                           | 272                                                                                                 | 26                                                                   |
|                                                                           | 7                                                                                                                                            | 12,1                                                                           | 235                                                                                                 | 22,5                                                                 |
|                                                                           | 8                                                                                                                                            | 13,8                                                                           | 180                                                                                                 | 17,2                                                                 |
| <b>3,75</b>                                                               | 5,6                                                                                                                                          | 9,7                                                                            | 368                                                                                                 | 40                                                                   |
|                                                                           | 7,5                                                                                                                                          | 13                                                                             | 205                                                                                                 | 22,5                                                                 |

**Fori tondi  
alternati  
a 60°**

**Alternated  
holes  
a 60°**

**Trous ronds  
alternés  
à 60°**

| Diametro foro<br>mm<br><i>Hole diameter<br/>mm</i><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><i>Side<br/>distance C</i><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><i>N. holes<br/>dm<sup>2</sup></i><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><i>%<br/>of empty</i><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>4</b>                                                                  | 5                                                                                                                                             | 8,7                                                                            | 460                                                                                                | 58                                                                   |
|                                                                           | 5,5                                                                                                                                           | 9,5                                                                            | 380                                                                                                | 48                                                                   |
|                                                                           | 6                                                                                                                                             | 10,4                                                                           | 320                                                                                                | 40                                                                   |
|                                                                           | 6,5                                                                                                                                           | 11,2                                                                           | 272                                                                                                | 34                                                                   |
|                                                                           | 7                                                                                                                                             | 12,1                                                                           | 235                                                                                                | 29,5                                                                 |
|                                                                           | 7,5                                                                                                                                           | 13                                                                             | 205                                                                                                | 25,5                                                                 |
|                                                                           | 8                                                                                                                                             | 13,8                                                                           | 180                                                                                                | 22,5                                                                 |
|                                                                           | 9                                                                                                                                             | 16                                                                             | 142                                                                                                | 18                                                                   |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 14,4                                                                 |
|                                                                           | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 6,5                                                                  |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 3,6                                                                  |
| <b>4,5</b>                                                                | 6                                                                                                                                             | 10,4                                                                           | 320                                                                                                | 51                                                                   |
|                                                                           | 6,5                                                                                                                                           | 11,2                                                                           | 272                                                                                                | 43                                                                   |
|                                                                           | 7                                                                                                                                             | 12,1                                                                           | 235                                                                                                | 37,5                                                                 |
|                                                                           | 8                                                                                                                                             | 13,8                                                                           | 180                                                                                                | 28,5                                                                 |
|                                                                           | 9                                                                                                                                             | 16                                                                             | 142                                                                                                | 22,5                                                                 |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 18,2                                                                 |
| <b>4,8</b>                                                                | 12                                                                                                                                            | 20,8                                                                           | 80                                                                                                 | 12,6                                                                 |
|                                                                           | 6,3                                                                                                                                           | 10,9                                                                           | 289                                                                                                | 52,2                                                                 |
|                                                                           | 7                                                                                                                                             | 12,1                                                                           | 235                                                                                                | 42,3                                                                 |
| <b>5</b>                                                                  | 8                                                                                                                                             | 13,8                                                                           | 180                                                                                                | 32,4                                                                 |
|                                                                           | 6                                                                                                                                             | 10,4                                                                           | 320                                                                                                | 63                                                                   |
|                                                                           | 6,5                                                                                                                                           | 11,2                                                                           | 272                                                                                                | 53,2                                                                 |
|                                                                           | 7                                                                                                                                             | 12,1                                                                           | 235                                                                                                | 46                                                                   |
|                                                                           | 7,5                                                                                                                                           | 13                                                                             | 205                                                                                                | 40                                                                   |
|                                                                           | 8                                                                                                                                             | 13,8                                                                           | 180                                                                                                | 35                                                                   |
|                                                                           | 9                                                                                                                                             | 16                                                                             | 142                                                                                                | 28                                                                   |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 22,5                                                                 |
|                                                                           | 12                                                                                                                                            | 20,8                                                                           | 80                                                                                                 | 15,6                                                                 |
| <b>5,5</b>                                                                | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 10                                                                   |
|                                                                           | 6,5                                                                                                                                           | 11,2                                                                           | 272                                                                                                | 64,4                                                                 |
|                                                                           | 7                                                                                                                                             | 12,1                                                                           | 235                                                                                                | 56                                                                   |
|                                                                           | 8                                                                                                                                             | 13,8                                                                           | 180                                                                                                | 42,5                                                                 |
|                                                                           | 9                                                                                                                                             | 15,6                                                                           | 142                                                                                                | 33,6                                                                 |
| <b>6</b>                                                                  | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 27,5                                                                 |
|                                                                           | 7,5                                                                                                                                           | 13                                                                             | 205                                                                                                | 58                                                                   |
|                                                                           | 8                                                                                                                                             | 13,8                                                                           | 180                                                                                                | 51                                                                   |
|                                                                           | 8,5                                                                                                                                           | 14,7                                                                           | 160                                                                                                | 44,8                                                                 |
|                                                                           | 9                                                                                                                                             | 15,6                                                                           | 142                                                                                                | 40                                                                   |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 33                                                                   |
|                                                                           | 11                                                                                                                                            | 19                                                                             | 95                                                                                                 | 27                                                                   |
|                                                                           | 12                                                                                                                                            | 20,8                                                                           | 80                                                                                                 | 22,5                                                                 |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 8                                                                    |

**Fori tondi  
alternati  
a 60°**

**Alternated  
holes  
a 60°**

**Trous ronds  
alternés  
à 60°**

| Diametro foro<br>mm<br><i>Hole diameter<br/>mm</i><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><i>Side<br/>distance C</i><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><i>N. holes<br/>dm<sup>2</sup></i><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><i>%<br/>of empty</i><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>6,5</b>                                                                | 8                                                                                                                                             | 13,8                                                                           | 180                                                                                                | 60                                                                   |
|                                                                           | 9                                                                                                                                             | 16                                                                             | 142                                                                                                | 47                                                                   |
|                                                                           | 9,5                                                                                                                                           | 16,5                                                                           | 128                                                                                                | 42                                                                   |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 38                                                                   |
| <b>7</b>                                                                  | 8,5                                                                                                                                           | 14,7                                                                           | 160                                                                                                | 61                                                                   |
|                                                                           | 9                                                                                                                                             | 16                                                                             | 142                                                                                                | 55                                                                   |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 44                                                                   |
|                                                                           | 10,5                                                                                                                                          | 18,2                                                                           | 104                                                                                                | 40                                                                   |
|                                                                           | 11                                                                                                                                            | 19                                                                             | 95                                                                                                 | 36,4                                                                 |
|                                                                           | 12                                                                                                                                            | 20,8                                                                           | 80                                                                                                 | 31                                                                   |
| <b>7,5</b>                                                                | 13                                                                                                                                            | 22,5                                                                           | 68                                                                                                 | 26                                                                   |
|                                                                           | 8,5                                                                                                                                           | 14,7                                                                           | 160                                                                                                | 70                                                                   |
|                                                                           | 9                                                                                                                                             | 16                                                                             | 142                                                                                                | 63                                                                   |
|                                                                           | 9,5                                                                                                                                           | 16,5                                                                           | 128                                                                                                | 56                                                                   |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 50,6                                                                 |
| <b>8</b>                                                                  | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 22,5                                                                 |
|                                                                           | 9,5                                                                                                                                           | 16,5                                                                           | 128                                                                                                | 64                                                                   |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 58                                                                   |
|                                                                           | 10,5                                                                                                                                          | 18,2                                                                           | 104                                                                                                | 52,5                                                                 |
|                                                                           | 11                                                                                                                                            | 19                                                                             | 95                                                                                                 | 48                                                                   |
|                                                                           | 12                                                                                                                                            | 20,8                                                                           | 80                                                                                                 | 40                                                                   |
|                                                                           | 13                                                                                                                                            | 22,5                                                                           | 68                                                                                                 | 34                                                                   |
|                                                                           | 14                                                                                                                                            | 24,2                                                                           | 58                                                                                                 | 29,5                                                                 |
|                                                                           | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 26                                                                   |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 14,5                                                                 |
| <b>8,2</b>                                                                | 25                                                                                                                                            | 43,2                                                                           | 48                                                                                                 | 9,2                                                                  |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 60,5                                                                 |
| <b>8,3</b>                                                                | 10,2                                                                                                                                          | 17,6                                                                           | 110                                                                                                | 58                                                                   |
|                                                                           | 12                                                                                                                                            | 20,8                                                                           | 80                                                                                                 | 42                                                                   |
| <b>8,5</b>                                                                | 10,3                                                                                                                                          | 17,8                                                                           | 114                                                                                                | 58,5                                                                 |
|                                                                           | 10,5                                                                                                                                          | 18,2                                                                           | 104                                                                                                | 56                                                                   |
|                                                                           | 10                                                                                                                                            | 17,3                                                                           | 115                                                                                                | 65                                                                   |
|                                                                           | 10,5                                                                                                                                          | 18,2                                                                           | 104                                                                                                | 59                                                                   |
|                                                                           | 10,75                                                                                                                                         | 18,6                                                                           | 99                                                                                                 | 56,2                                                                 |
|                                                                           | 12                                                                                                                                            | 20,8                                                                           | 80                                                                                                 | 45                                                                   |
| <b>8,75</b>                                                               | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 28,8                                                                 |
|                                                                           | 10,75                                                                                                                                         | 18,6                                                                           | 99                                                                                                 | 52,8                                                                 |
|                                                                           | 14                                                                                                                                            | 24,2                                                                           | 58                                                                                                 | 31                                                                   |
| <b>9</b>                                                                  | 10,5                                                                                                                                          | 18,2                                                                           | 104                                                                                                | 66                                                                   |
|                                                                           | 11                                                                                                                                            | 19                                                                             | 95                                                                                                 | 60                                                                   |
|                                                                           | 12                                                                                                                                            | 20,8                                                                           | 80                                                                                                 | 51                                                                   |
|                                                                           | 13                                                                                                                                            | 22,5                                                                           | 68                                                                                                 | 43                                                                   |
|                                                                           | 14                                                                                                                                            | 24,2                                                                           | 58                                                                                                 | 37                                                                   |

Fori tondi  
alternati  
a 60°

Alternated  
holes  
a 60°

Trous ronds  
alternés  
à 60°

| Diametro foro<br>mm<br><i>Hole diameter<br/>mm</i><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><i>Side<br/>distance C</i><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><i>N. holes<br/>dm<sup>2</sup></i><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><i>%<br/>of empty</i><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>9,2</b>                                                                | 11,2                                                                                                                                          | 19,4                                                                           | 92                                                                                                 | 60,7                                                                 |
|                                                                           | 11,5                                                                                                                                          | 19,8                                                                           | 87                                                                                                 | 57,6                                                                 |
|                                                                           | 13                                                                                                                                            | 22,5                                                                           | 68                                                                                                 | 45                                                                   |
| <b>9,3</b>                                                                | 11,3                                                                                                                                          | 19,6                                                                           | 90                                                                                                 | 61                                                                   |
|                                                                           | 12                                                                                                                                            | 20,8                                                                           | 80                                                                                                 | 54                                                                   |
|                                                                           | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 34,5                                                                 |
| <b>9,5</b>                                                                | 11,5                                                                                                                                          | 19,8                                                                           | 87                                                                                                 | 61,4                                                                 |
|                                                                           | 13                                                                                                                                            | 22,5                                                                           | 68                                                                                                 | 48                                                                   |
|                                                                           | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 36                                                                   |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 20,3                                                                 |
| <b>9,75</b>                                                               | 11,75                                                                                                                                         | 20,4                                                                           | 84                                                                                                 | 62                                                                   |
|                                                                           | 14                                                                                                                                            | 24,2                                                                           | 58                                                                                                 | 43,6                                                                 |
| <b>10</b>                                                                 | 12                                                                                                                                            | 20,8                                                                           | 80                                                                                                 | 62,4                                                                 |
|                                                                           | 13                                                                                                                                            | 22,5                                                                           | 68                                                                                                 | 53                                                                   |
|                                                                           | 14                                                                                                                                            | 24,2                                                                           | 58                                                                                                 | 46                                                                   |
|                                                                           | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 40                                                                   |
|                                                                           | 16                                                                                                                                            | 27,7                                                                           | 45                                                                                                 | 35                                                                   |
|                                                                           | 17,5                                                                                                                                          | 30,2                                                                           | 37                                                                                                 | 29,4                                                                 |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 22,5                                                                 |
|                                                                           | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 14,4                                                                 |
|                                                                           | 30                                                                                                                                            | 52                                                                             | 13                                                                                                 | 10                                                                   |
| <b>10,2</b>                                                               | 12,2                                                                                                                                          | 21,2                                                                           | 78                                                                                                 | 63                                                                   |
|                                                                           | 16                                                                                                                                            | 27,7                                                                           | 45                                                                                                 | 38                                                                   |
| <b>10,5</b>                                                               | 12,5                                                                                                                                          | 21,6                                                                           | 73                                                                                                 | 63,5                                                                 |
|                                                                           | 16                                                                                                                                            | 27,7                                                                           | 45                                                                                                 | 38                                                                   |
| <b>10,75</b>                                                              | 12,75                                                                                                                                         | 22                                                                             | 23                                                                                                 | 64                                                                   |
| <b>11</b>                                                                 | 13                                                                                                                                            | 22,5                                                                           | 68                                                                                                 | 64,4                                                                 |
|                                                                           | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 58                                                                   |
|                                                                           | 17                                                                                                                                            | 29,4                                                                           | 40                                                                                                 | 38                                                                   |
|                                                                           | 18                                                                                                                                            | 31,2                                                                           | 35                                                                                                 | 34                                                                   |
| <b>11,5</b>                                                               | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 52,8                                                                 |
|                                                                           | 18                                                                                                                                            | 31,2                                                                           | 35                                                                                                 | 36,7                                                                 |
| <b>12</b>                                                                 | 14                                                                                                                                            | 24,2                                                                           | 58                                                                                                 | 66                                                                   |
|                                                                           | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 58                                                                   |
|                                                                           | 16                                                                                                                                            | 27,7                                                                           | 45                                                                                                 | 51                                                                   |
|                                                                           | 18                                                                                                                                            | 31,2                                                                           | 35                                                                                                 | 40                                                                   |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 32,5                                                                 |
|                                                                           | 22                                                                                                                                            | 38                                                                             | 23                                                                                                 | 26,7                                                                 |
| <b>12,5</b>                                                               | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 21                                                                   |
|                                                                           | 17,5                                                                                                                                          | 30,2                                                                           | 37                                                                                                 | 46                                                                   |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 34,3                                                                 |
|                                                                           | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 22                                                                   |
|                                                                           | 30                                                                                                                                            | 52                                                                             | 12                                                                                                 | 15,2                                                                 |

**Fori tondi  
alternati  
a 60°**

**Alternated  
holes  
a 60°**

**Trous ronds  
alternés  
à 60°**

| Diametro foro<br>mm<br><i>Hole diameter<br/>mm</i><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><i>Side<br/>distance C</i><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><i>N. holes<br/>dm<sup>2</sup></i><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><i>%<br/>of empty</i><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>13</b>                                                                 | 15                                                                                                                                            | 26                                                                             | 51                                                                                                 | 68                                                                   |
|                                                                           | 17                                                                                                                                            | 29,4                                                                           | 40                                                                                                 | 53                                                                   |
|                                                                           | 18                                                                                                                                            | 31,2                                                                           | 35                                                                                                 | 47                                                                   |
|                                                                           | 19                                                                                                                                            | 32,8                                                                           | 32                                                                                                 | 42                                                                   |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 38                                                                   |
|                                                                           | 21                                                                                                                                            | 36,4                                                                           | 26                                                                                                 | 34,4                                                                 |
| <b>14</b>                                                                 | 16,8                                                                                                                                          | 29                                                                             | 42                                                                                                 | 62,4                                                                 |
|                                                                           | 17                                                                                                                                            | 29,4                                                                           | 40                                                                                                 | 61                                                                   |
|                                                                           | 18                                                                                                                                            | 31,2                                                                           | 35                                                                                                 | 55                                                                   |
|                                                                           | 19                                                                                                                                            | 32,8                                                                           | 32                                                                                                 | 48,8                                                                 |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 44                                                                   |
|                                                                           | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 28                                                                   |
|                                                                           | 28                                                                                                                                            | 48,5                                                                           | 14,5                                                                                               | 22,5                                                                 |
| <b>15</b>                                                                 | 18                                                                                                                                            | 31,2                                                                           | 35                                                                                                 | 63                                                                   |
|                                                                           | 19                                                                                                                                            | 32,8                                                                           | 32                                                                                                 | 56                                                                   |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 51                                                                   |
|                                                                           | 22                                                                                                                                            | 38                                                                             | 23                                                                                                 | 42                                                                   |
|                                                                           | 23                                                                                                                                            | 39,8                                                                           | 22                                                                                                 | 38,5                                                                 |
|                                                                           | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 32,5                                                                 |
|                                                                           | 30                                                                                                                                            | 52                                                                             | 12,7                                                                                               | 22,5                                                                 |
|                                                                           | 40                                                                                                                                            | 69,2                                                                           | 7                                                                                                  | 12,6                                                                 |
| <b>16</b>                                                                 | 18                                                                                                                                            | 31,2                                                                           | 35                                                                                                 | 71                                                                   |
|                                                                           | 19                                                                                                                                            | 32,8                                                                           | 32                                                                                                 | 64                                                                   |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 58                                                                   |
|                                                                           | 22                                                                                                                                            | 38                                                                             | 23                                                                                                 | 47,6                                                                 |
|                                                                           | 23                                                                                                                                            | 39,8                                                                           | 22                                                                                                 | 40                                                                   |
|                                                                           | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 36,8                                                                 |
| <b>17</b>                                                                 | 19                                                                                                                                            | 32,8                                                                           | 32                                                                                                 | 72                                                                   |
|                                                                           | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 65                                                                   |
|                                                                           | 23                                                                                                                                            | 39,8                                                                           | 22                                                                                                 | 49                                                                   |
|                                                                           | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 41,6                                                                 |
|                                                                           | 30                                                                                                                                            | 52                                                                             | 12,7                                                                                               | 28,8                                                                 |
| <b>18</b>                                                                 | 20                                                                                                                                            | 34,6                                                                           | 29                                                                                                 | 73                                                                   |
|                                                                           | 23                                                                                                                                            | 39,8                                                                           | 22                                                                                                 | 55                                                                   |
|                                                                           | 24                                                                                                                                            | 41,5                                                                           | 20                                                                                                 | 51                                                                   |
|                                                                           | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 47                                                                   |
|                                                                           | 26                                                                                                                                            | 45                                                                             | 17                                                                                                 | 43                                                                   |
|                                                                           | 28                                                                                                                                            | 48,5                                                                           | 14,5                                                                                               | 37                                                                   |
|                                                                           | 30                                                                                                                                            | 52                                                                             | 12,7                                                                                               | 32,4                                                                 |
|                                                                           | 35                                                                                                                                            | 60,                                                                            | 9                                                                                                  | 24                                                                   |
|                                                                           |                                                                                                                                               |                                                                                |                                                                                                    |                                                                      |
| <b>19</b>                                                                 | 22,5                                                                                                                                          | 39                                                                             | 23                                                                                                 | 64                                                                   |
|                                                                           | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 52                                                                   |
|                                                                           | 26                                                                                                                                            | 46                                                                             | 17                                                                                                 | 48                                                                   |

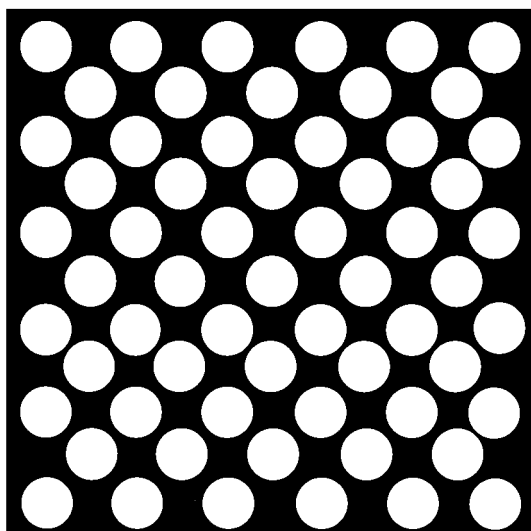
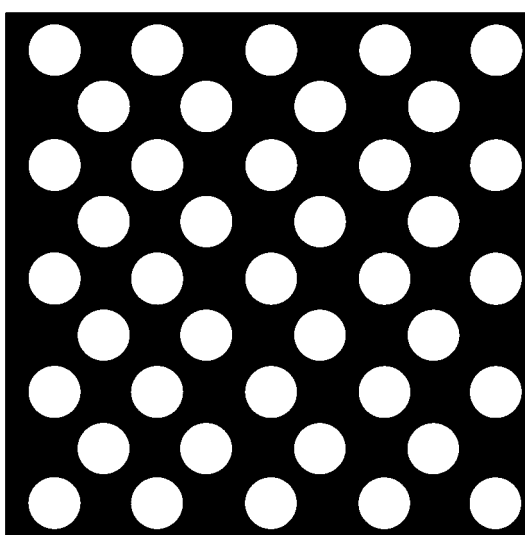
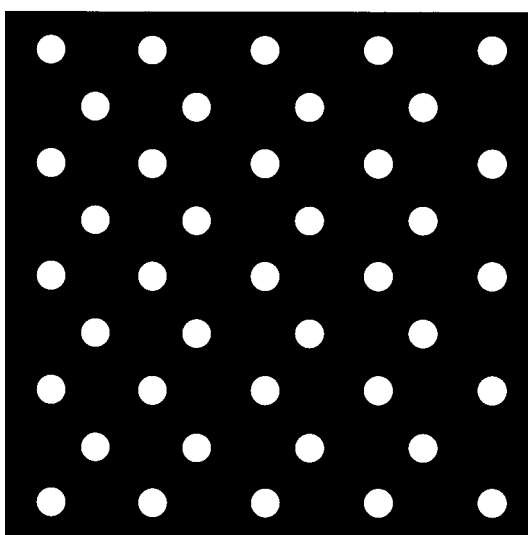
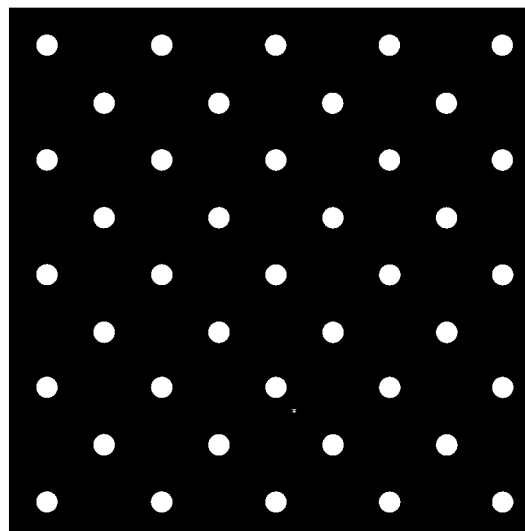
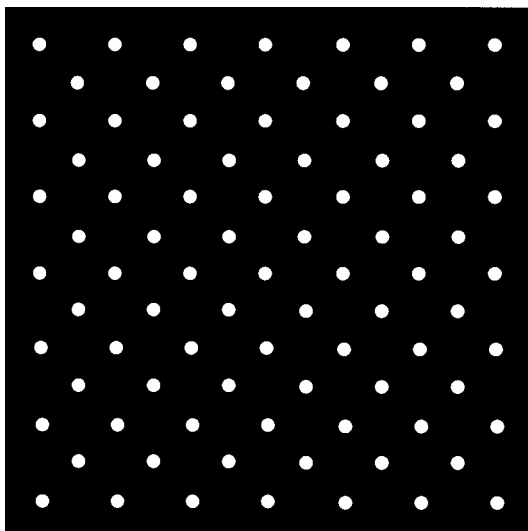
**Fori tondi  
alternati  
a 60°**

**Alternated  
holes  
a 60°**

**Trous ronds  
alternés  
à 60°**

| Diametro foro<br>mm<br><i>Hole diameter<br/>mm</i><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><i>Side<br/>distance C</i><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><i>N. holes<br/>dm<sup>2</sup></i><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><i>%<br/>of empty</i><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>20</b>                                                                 | 22,5                                                                                                                                          | 39                                                                             | 23                                                                                                 | 71                                                                   |
|                                                                           | 24                                                                                                                                            | 41,5                                                                           | 20                                                                                                 | 62,4                                                                 |
|                                                                           | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 57,6                                                                 |
|                                                                           | 26                                                                                                                                            | 45                                                                             | 17                                                                                                 | 53,2                                                                 |
|                                                                           | 28                                                                                                                                            | 48,5                                                                           | 14 1/2                                                                                             | 46                                                                   |
|                                                                           | 30                                                                                                                                            | 52                                                                             | 12,7                                                                                               | 40                                                                   |
|                                                                           | 40                                                                                                                                            | 69,2                                                                           | 7                                                                                                  | 22,5                                                                 |
|                                                                           | 50                                                                                                                                            | 86,5                                                                           | 2 1/4                                                                                              | 14,4                                                                 |
| <b>21</b>                                                                 | 26                                                                                                                                            | 45                                                                             | 17                                                                                                 | 58,7                                                                 |
|                                                                           | 30                                                                                                                                            | 52                                                                             | 12                                                                                                 | 44                                                                   |
| <b>22</b>                                                                 | 25                                                                                                                                            | 43,2                                                                           | 18                                                                                                 | 69,6                                                                 |
|                                                                           | 28                                                                                                                                            | 48,5                                                                           | 14 1/2                                                                                             | 55,5                                                                 |
|                                                                           | 30                                                                                                                                            | 52                                                                             | 12,7                                                                                               | 48,3                                                                 |
| <b>23</b>                                                                 | 27                                                                                                                                            | 46,8                                                                           | 16                                                                                                 | 65,3                                                                 |
|                                                                           | 30                                                                                                                                            | 52                                                                             | 12,7                                                                                               | 52,8                                                                 |
| <b>24</b>                                                                 | 30                                                                                                                                            | 52                                                                             | 12,7                                                                                               | 57,6                                                                 |
|                                                                           | 32                                                                                                                                            | 55,4                                                                           | 11,3                                                                                               | 50,6                                                                 |
|                                                                           | 35                                                                                                                                            | 60,6                                                                           | 9                                                                                                  | 42,3                                                                 |
| <b>25</b>                                                                 | 30                                                                                                                                            | 52                                                                             | 12,7                                                                                               | 62,4                                                                 |
|                                                                           | 35                                                                                                                                            | 60,6                                                                           | 9                                                                                                  | 46                                                                   |
|                                                                           | 40                                                                                                                                            | 69,2                                                                           | 7                                                                                                  | 35                                                                   |
|                                                                           | 50                                                                                                                                            | 86,5                                                                           | 2 1/4                                                                                              | 22,5                                                                 |
| <b>26</b>                                                                 | 34                                                                                                                                            | 58,8                                                                           | 10                                                                                                 | 52,6                                                                 |
|                                                                           | 40                                                                                                                                            | 69,2                                                                           | 7                                                                                                  | 38                                                                   |
| <b>27</b>                                                                 | 35                                                                                                                                            | 60,6                                                                           | 9                                                                                                  | 53,5                                                                 |
|                                                                           | 40                                                                                                                                            | 69,2                                                                           | 7                                                                                                  | 41                                                                   |
| <b>28</b>                                                                 | 36                                                                                                                                            | 62,3                                                                           | 8 3/4                                                                                              | 54,5                                                                 |
|                                                                           | 40                                                                                                                                            | 69,2                                                                           | 7                                                                                                  | 44                                                                   |
| <b>29</b>                                                                 | 37                                                                                                                                            | 64                                                                             | 8 1/2                                                                                              | 52                                                                   |
|                                                                           | 40                                                                                                                                            | 69,2                                                                           | 7                                                                                                  | 47                                                                   |
| <b>30</b>                                                                 | 40                                                                                                                                            | 69,2                                                                           | 7                                                                                                  | 50,6                                                                 |
|                                                                           | 45                                                                                                                                            | 77,8                                                                           | 5                                                                                                  | 40                                                                   |
|                                                                           | 50                                                                                                                                            | 86,5                                                                           | 2 1/4                                                                                              | 27                                                                   |
|                                                                           | 60                                                                                                                                            | 103,8                                                                          | 3                                                                                                  | 16                                                                   |
| <b>35</b>                                                                 | 50                                                                                                                                            | 86,5                                                                           | 4 1/2                                                                                              | 44                                                                   |
|                                                                           | 55                                                                                                                                            | 95,2                                                                           | 3 1/4                                                                                              | 36,4                                                                 |
|                                                                           | 60                                                                                                                                            | 103,8                                                                          | 3                                                                                                  | 30,6                                                                 |
| <b>40</b>                                                                 | 60                                                                                                                                            | 103,8                                                                          | 3                                                                                                  | 40                                                                   |
|                                                                           | 70                                                                                                                                            | 121                                                                            | 2 1/4                                                                                              | 29,3                                                                 |
| <b>45</b>                                                                 | 65                                                                                                                                            | 112,4                                                                          | 23/4                                                                                               | 43                                                                   |
|                                                                           | 75                                                                                                                                            | 132                                                                            | 2                                                                                                  | 32,4                                                                 |
| <b>50</b>                                                                 | 70                                                                                                                                            | 121                                                                            | 2 1/4                                                                                              | 46                                                                   |
|                                                                           | 80                                                                                                                                            | 138,4                                                                          | 1 3/4                                                                                              | 35                                                                   |

**FORI TONDI ALTERNATI A 45°**  
**ALTERNATE ROUND HOLES A 45°**  
**TROUS ROND ALTERNÉS A 45°**



**Fori tondi alternati a 45°**  
**Alternate round holes at 45°**  
**Trous ronds alternés à 45°**

| Diametro foro<br>mm<br><i>Hole diameter<br/>mm</i><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><i>Side<br/>distance C</i><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><i>N. holes<br/>dm<sup>2</sup></i><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><i>%<br/>of empty</i><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>0,4</b>                                                                | 2,5                                                                                                                                           | 3,5                                                                            | 1632                                                                                               | 2                                                                    |
|                                                                           | 3,5                                                                                                                                           | 5                                                                              | 800                                                                                                | 1                                                                    |
| <b>0,5</b>                                                                | 2,5                                                                                                                                           | 3,5                                                                            | 1632                                                                                               | 3,2                                                                  |
|                                                                           | 3,5                                                                                                                                           | 5                                                                              | 800                                                                                                | 1,5                                                                  |
| <b>1</b>                                                                  | 3                                                                                                                                             | 4,2                                                                            | 1134                                                                                               | 8,9                                                                  |
|                                                                           | 4,2                                                                                                                                           | 6                                                                              | 556                                                                                                | 4,3                                                                  |
| <b>1,5</b>                                                                | 3,5                                                                                                                                           | 5                                                                              | 800                                                                                                | 14,1                                                                 |
|                                                                           | 4,5                                                                                                                                           | 6,4                                                                            | 489                                                                                                | 3,2                                                                  |
| <b>2</b>                                                                  | 4                                                                                                                                             | 5,6                                                                            | 638                                                                                                | 20                                                                   |
|                                                                           | 5                                                                                                                                             | 7                                                                              | 408                                                                                                | 12,8                                                                 |
|                                                                           | 6                                                                                                                                             | 8,5                                                                            | 277                                                                                                | 8,6                                                                  |
| <b>2,5</b>                                                                | 4,5                                                                                                                                           | 6,4                                                                            | 489                                                                                                | 24                                                                   |
|                                                                           | 5                                                                                                                                             | 7                                                                              | 408                                                                                                | 20                                                                   |
|                                                                           | 6                                                                                                                                             | 8,5                                                                            | 277                                                                                                | 13,6                                                                 |
| <b>3</b>                                                                  | 5                                                                                                                                             | 7                                                                              | 408                                                                                                | 28,2                                                                 |
|                                                                           | 6                                                                                                                                             | 8,5                                                                            | 277                                                                                                | 19,6                                                                 |
|                                                                           | 8                                                                                                                                             | 11,2                                                                           | 160                                                                                                | 11,3                                                                 |
|                                                                           | 10                                                                                                                                            | 14                                                                             | 102                                                                                                | 9                                                                    |
| <b>3,5</b>                                                                | 6                                                                                                                                             | 8,5                                                                            | 277                                                                                                | 26,6                                                                 |
|                                                                           | 10                                                                                                                                            | 14                                                                             | 102                                                                                                | 9,8                                                                  |
| <b>4</b>                                                                  | 7                                                                                                                                             | 10                                                                             | 200                                                                                                | 25,1                                                                 |
|                                                                           | 8                                                                                                                                             | 11,2                                                                           | 160                                                                                                | 20                                                                   |
|                                                                           | 10                                                                                                                                            | 14                                                                             | 102                                                                                                | 12,8                                                                 |
|                                                                           | 12,5                                                                                                                                          | 17,6                                                                           | 65                                                                                                 | 8,1                                                                  |
|                                                                           | 15                                                                                                                                            | 21,2                                                                           | 44                                                                                                 | 5,6                                                                  |
| <b>4,5</b>                                                                | 8                                                                                                                                             | 11,2                                                                           | 160                                                                                                | 25,3                                                                 |
|                                                                           | 9                                                                                                                                             | 12,7                                                                           | 124                                                                                                | 19,7                                                                 |
|                                                                           | 10                                                                                                                                            | 14                                                                             | 102                                                                                                | 16,2                                                                 |
| <b>5</b>                                                                  | 10                                                                                                                                            | 14                                                                             | 102                                                                                                | 20                                                                   |
|                                                                           | 11,5                                                                                                                                          | 16,2                                                                           | 76                                                                                                 | 15                                                                   |
|                                                                           | 15                                                                                                                                            | 21,2                                                                           | 44                                                                                                 | 8,7                                                                  |
|                                                                           | 20                                                                                                                                            | 28                                                                             | 26                                                                                                 | 5                                                                    |
|                                                                           | 25                                                                                                                                            | 35                                                                             | 16                                                                                                 | 3,2                                                                  |

**Fori tondi  
alternati a 45°**

**Alternated  
holes a 45°**

**Trous ronds  
alternés à 45°**

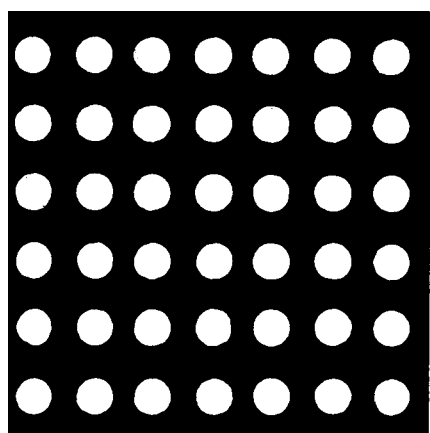
| Diametro foro<br>mm<br><br><i>Hole diameter<br/>mm</i><br><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><br><i>Side<br/>distance C</i><br><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><br><i>N. holes<br/>dm<sup>2</sup></i><br><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><br><i>%<br/>of empty</i><br><br>Pourcentage<br>vide |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>6</b>                                                                          | 10                                                                                                                                                    | 14                                                                                     | 102                                                                                                        | 28,2                                                                         |
|                                                                                   | 15                                                                                                                                                    | 21,2                                                                                   | 44                                                                                                         | 12,6                                                                         |
|                                                                                   | 20                                                                                                                                                    | 28                                                                                     | 26                                                                                                         | 7,2                                                                          |
| <b>8</b>                                                                          | 13                                                                                                                                                    | 18,4                                                                                   | 59                                                                                                         | 29,7                                                                         |
|                                                                                   | 14                                                                                                                                                    | 19,8                                                                                   | 53                                                                                                         | 25,6                                                                         |
|                                                                                   | 20                                                                                                                                                    | 28                                                                                     | 25                                                                                                         | 12,8                                                                         |
|                                                                                   | 25                                                                                                                                                    | 35                                                                                     | 16                                                                                                         | 8,2                                                                          |
| <b>10</b>                                                                         | 14                                                                                                                                                    | 19,8                                                                                   | 53                                                                                                         | 40                                                                           |
|                                                                                   | 15                                                                                                                                                    | 21,2                                                                                   | 45                                                                                                         | 35                                                                           |
|                                                                                   | 20                                                                                                                                                    | 28                                                                                     | 25                                                                                                         | 20                                                                           |
|                                                                                   | 22,5                                                                                                                                                  | 31,7                                                                                   | 20                                                                                                         | 15,6                                                                         |
|                                                                                   | 25                                                                                                                                                    | 35                                                                                     | 16                                                                                                         | 12,8                                                                         |
|                                                                                   | 30                                                                                                                                                    | 42                                                                                     | 11                                                                                                         | 9                                                                            |
| <b>12</b>                                                                         | 18                                                                                                                                                    | 25,4                                                                                   | 31                                                                                                         | 35                                                                           |
|                                                                                   | 25                                                                                                                                                    | 35                                                                                     | 16                                                                                                         | 18,5                                                                         |
| <b>14</b>                                                                         | 20                                                                                                                                                    | 28                                                                                     | 25                                                                                                         | 39,2                                                                         |
|                                                                                   | 25                                                                                                                                                    | 35                                                                                     | 16                                                                                                         | 25,2                                                                         |
| <b>15</b>                                                                         | 25                                                                                                                                                    | 35                                                                                     | 16                                                                                                         | 28,2                                                                         |
|                                                                                   | 30                                                                                                                                                    | 42                                                                                     | 1                                                                                                          | 20                                                                           |
|                                                                                   | 35                                                                                                                                                    | 50                                                                                     | 8                                                                                                          | 14,2                                                                         |
| <b>18</b>                                                                         | 28                                                                                                                                                    | 39,5                                                                                   | 13                                                                                                         | 32,6                                                                         |
|                                                                                   | 36                                                                                                                                                    | 50,8                                                                                   | 7,7                                                                                                        | 19,7                                                                         |
| <b>20</b>                                                                         | 30                                                                                                                                                    | 42                                                                                     | 11                                                                                                         | 35,6                                                                         |
|                                                                                   | 40                                                                                                                                                    | 56                                                                                     | 6,3                                                                                                        | 20                                                                           |
|                                                                                   | 50                                                                                                                                                    | 70                                                                                     | 4                                                                                                          | 25                                                                           |
|                                                                                   | 60                                                                                                                                                    | 85                                                                                     | 2,8                                                                                                        | 17,5                                                                         |
| <b>25</b>                                                                         | 45                                                                                                                                                    | 64                                                                                     | 6,3                                                                                                        | 31,3                                                                         |
|                                                                                   | 50                                                                                                                                                    | 70                                                                                     | 4                                                                                                          | 20                                                                           |
|                                                                                   | 60                                                                                                                                                    | 85                                                                                     | 2,8                                                                                                        | 13,6                                                                         |
| <b>30</b>                                                                         | 50                                                                                                                                                    | 70                                                                                     | 4                                                                                                          | 28,8                                                                         |
|                                                                                   | 60                                                                                                                                                    | 85                                                                                     | 2,8                                                                                                        | 19,5                                                                         |
|                                                                                   | 70                                                                                                                                                    | 100                                                                                    | 2                                                                                                          | 14                                                                           |
| <b>35</b>                                                                         | vari                                                                                                                                                  | vari                                                                                   | vari                                                                                                       | vari                                                                         |
|                                                                                   | vari                                                                                                                                                  | vari                                                                                   | vari                                                                                                       | vari                                                                         |
| <b>40</b>                                                                         | vari                                                                                                                                                  | vari                                                                                   | vari                                                                                                       | vari                                                                         |
|                                                                                   | vari                                                                                                                                                  | vari                                                                                   | vari                                                                                                       | vari                                                                         |
|                                                                                   | vari                                                                                                                                                  | vari                                                                                   | vari                                                                                                       | vari                                                                         |
| <b>50</b>                                                                         | vari                                                                                                                                                  | vari                                                                                   | vari                                                                                                       | vari                                                                         |

# FORI TONDI A DISPOSIZIONE PARI A 90° ROUND HOLES EVEN DISPOSITION AT 90° TROUS ROUNDS A DISPOSITION PAIRE A 90°

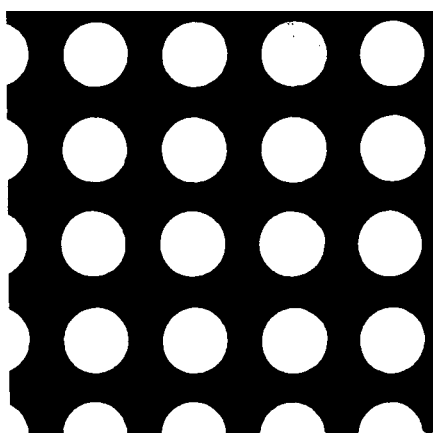
Si forniscono su ordinazione in ferro A00 - Acciaio inox - ottone - rame - alluminio - ecc.  
in dimensioni standard 1000 x 2000 e in misura e foratura a disegno del cliente

*On request are available in iron A00 - Stainless steel - copper - brass - aluminium - etc.  
in standard size 1000 x 2000 and on measures and perforation according to specific drawings.*

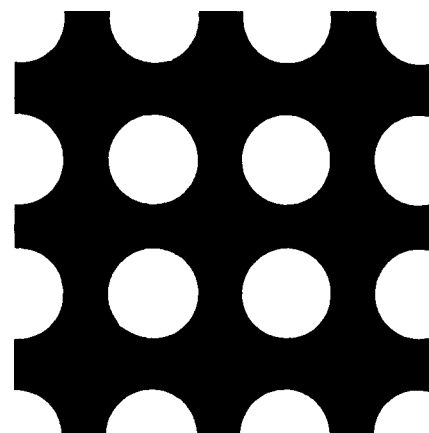
Ils sont fournis sur commande en fer A00 - Acier inox - laiton - cuivre - aluminium - etc.  
en dimensions standard 1000 x 2000 et sur mesure et perforation sur le plan du client.



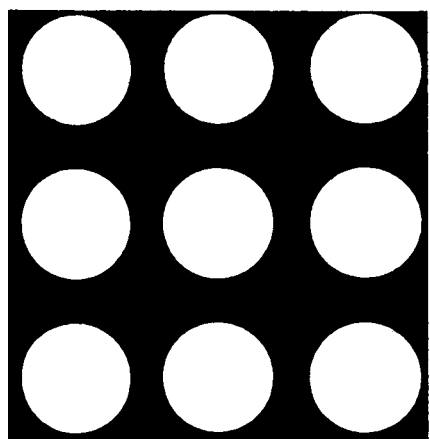
Ø mm 3



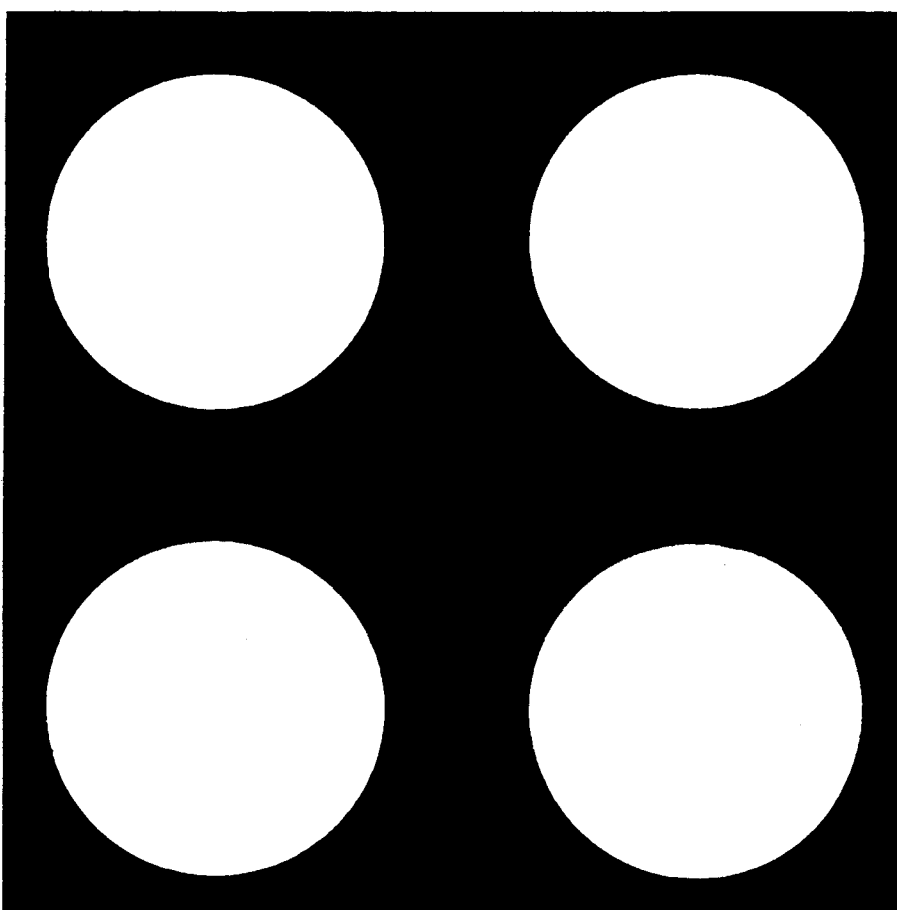
Ø mm 6



Ø mm 8



Ø mm 10



Ø mm 30

**Fori tondi pari a 90°**  
**Even round holes at 90°**  
**Trous ronds pairs à 90°**

| Diametro foro<br>mm<br><i>Hole diameter<br/>mm</i><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><i>Side<br/>distance C</i><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><i>N. holes<br/>dm<sup>2</sup></i><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><i>%<br/>of empty</i><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>0,5</b>                                                                | 2                                                                                                                                             | 2                                                                              | 2500                                                                                               | 4,8                                                                  |
|                                                                           | 3                                                                                                                                             | 3                                                                              | 1111                                                                                               | 2,1                                                                  |
| <b>0,8</b>                                                                | 3                                                                                                                                             | 3                                                                              | 1111                                                                                               | 5,5                                                                  |
|                                                                           | 4                                                                                                                                             | 4                                                                              | 625                                                                                                | 3,1                                                                  |
| <b>1</b>                                                                  | 3                                                                                                                                             | 3                                                                              | 1111                                                                                               | 8,6                                                                  |
|                                                                           | 4                                                                                                                                             | 4                                                                              | 625                                                                                                | 4,8                                                                  |
|                                                                           | 5                                                                                                                                             | 5                                                                              | 400                                                                                                | 3,1                                                                  |
|                                                                           | 10                                                                                                                                            | 10                                                                             | 100                                                                                                | 7,8                                                                  |
| <b>1,5</b>                                                                | 3                                                                                                                                             | 3                                                                              | 1111                                                                                               | 19                                                                   |
|                                                                           | 5                                                                                                                                             | 5                                                                              | 400                                                                                                | 7                                                                    |
| <b>2</b>                                                                  | 4                                                                                                                                             | 4                                                                              | 625                                                                                                | 19,5                                                                 |
|                                                                           | 5                                                                                                                                             | 5                                                                              | 400                                                                                                | 12,5                                                                 |
|                                                                           | 10                                                                                                                                            | 10                                                                             | 1000                                                                                               | 3,1                                                                  |
|                                                                           | 15                                                                                                                                            | 15                                                                             | 445                                                                                                | 1,4                                                                  |
| <b>2,5</b>                                                                | 5                                                                                                                                             | 5                                                                              | 400                                                                                                | 19,5                                                                 |
|                                                                           | 10                                                                                                                                            | 10                                                                             | 100                                                                                                | 4,8                                                                  |
|                                                                           | 15                                                                                                                                            | 15                                                                             | 44,5                                                                                               | 2,1                                                                  |
| <b>3</b>                                                                  | 6                                                                                                                                             | 6                                                                              | 167                                                                                                | 19,5                                                                 |
|                                                                           | 8                                                                                                                                             | 8                                                                              | 156                                                                                                | 11                                                                   |
|                                                                           | 10                                                                                                                                            | 10                                                                             | 100                                                                                                | 7                                                                    |
|                                                                           | 12                                                                                                                                            | 12                                                                             | 70                                                                                                 | 4,8                                                                  |
|                                                                           | 15                                                                                                                                            | 15                                                                             | 44,5                                                                                               | 3,1                                                                  |
|                                                                           | 20                                                                                                                                            | 20                                                                             | 25                                                                                                 | 1,8                                                                  |
| <b>4</b>                                                                  | 8                                                                                                                                             | 8                                                                              | 156                                                                                                | 19,5                                                                 |
|                                                                           | 10                                                                                                                                            | 10                                                                             | 100                                                                                                | 12,5                                                                 |
|                                                                           | 12                                                                                                                                            | 12                                                                             | 70                                                                                                 | 8,6                                                                  |
|                                                                           | 15                                                                                                                                            | 15                                                                             | 44,5                                                                                               | 5,5                                                                  |
|                                                                           | 20                                                                                                                                            | 20                                                                             | 25                                                                                                 | 3,1                                                                  |
|                                                                           | 25                                                                                                                                            | 25                                                                             | 16                                                                                                 | 2                                                                    |

Fori tondi  
pari a 90°

Even round  
holes a 90°

Trous ronds  
pailr à 90°

| Diametro foro<br>mm<br><br>Hole diameter<br>mm<br><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><br>Distance from<br>center of the hole<br>(interaxis) P<br><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><br>Side<br>distance C<br><br>Distance<br>laterale C | N. fori<br>dm²<br><br>N. holes<br>dm²<br><br>N. de trous<br>dm² | Percentuale<br>vuoto<br><br>%<br>of empty<br><br>Pourcentage<br>vide |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|
| <b>5</b>                                                                  | 8                                                                                                                                            | 8                                                                              | 156                                                             | 30,4                                                                 |
|                                                                           | 10                                                                                                                                           | 10                                                                             | 100                                                             | 19,5                                                                 |
|                                                                           | 12,5                                                                                                                                         | 12,5                                                                           | 64                                                              | 12,5                                                                 |
|                                                                           | 15                                                                                                                                           | 15                                                                             | 44,5                                                            | 8,7                                                                  |
|                                                                           | 18                                                                                                                                           | 18                                                                             | 31                                                              | 6                                                                    |
|                                                                           | 20                                                                                                                                           | 20                                                                             | 25                                                              | 4,8                                                                  |
|                                                                           | 25                                                                                                                                           | 25                                                                             | 16                                                              | 3,1                                                                  |
| <b>6</b>                                                                  | 10                                                                                                                                           | 10                                                                             | 100                                                             | 28                                                                   |
|                                                                           | 12                                                                                                                                           | 12                                                                             | 70                                                              | 19,5                                                                 |
|                                                                           | 15                                                                                                                                           | 15                                                                             | 44,5                                                            | 12,5                                                                 |
|                                                                           | 17,5                                                                                                                                         | 17,5                                                                           | 32,6                                                            | 9,2                                                                  |
|                                                                           | 20                                                                                                                                           | 20                                                                             | 25                                                              | 7                                                                    |
| <b>8</b>                                                                  | 15                                                                                                                                           | 15                                                                             | 44,5                                                            | 22,2                                                                 |
|                                                                           | 18                                                                                                                                           | 18                                                                             | 31                                                              | 15,4                                                                 |
|                                                                           | 20                                                                                                                                           | 20                                                                             | 25                                                              | 12,5                                                                 |
|                                                                           | 22,5                                                                                                                                         | 22,5                                                                           | 19,7                                                            | 9,8                                                                  |
|                                                                           | 25                                                                                                                                           | 25                                                                             | 16                                                              | 8                                                                    |
|                                                                           | 30                                                                                                                                           | 30                                                                             | 11                                                              | 5,5                                                                  |
| <b>10</b>                                                                 | 15                                                                                                                                           | 15                                                                             | 44,5                                                            | 34,6                                                                 |
|                                                                           | 20                                                                                                                                           | 20                                                                             | 25                                                              | 19,5                                                                 |
|                                                                           | 25                                                                                                                                           | 25                                                                             | 16                                                              | 12,5                                                                 |
|                                                                           | 30                                                                                                                                           | 30                                                                             | 11                                                              | 8,6                                                                  |
| <b>12</b>                                                                 | 20                                                                                                                                           | 20                                                                             | 25                                                              | 28                                                                   |
|                                                                           | 24                                                                                                                                           | 24                                                                             | 17,3                                                            | 19,5                                                                 |
|                                                                           | 28                                                                                                                                           | 28                                                                             | 12,7                                                            | 14,3                                                                 |
| <b>15</b>                                                                 | 25                                                                                                                                           | 25                                                                             | 16                                                              | 28                                                                   |
|                                                                           | 30                                                                                                                                           | 30                                                                             | 11                                                              | 19,5                                                                 |
|                                                                           | 35                                                                                                                                           | 35                                                                             | 8                                                               | 14,3                                                                 |
|                                                                           | 40                                                                                                                                           | 40                                                                             | 6,2                                                             | 11                                                                   |
| <b>18</b>                                                                 | 28                                                                                                                                           | 28                                                                             | 12,7                                                            | 32,3                                                                 |
|                                                                           | 36                                                                                                                                           | 36                                                                             | 7,7                                                             | 19,5                                                                 |
|                                                                           | 40                                                                                                                                           | 40                                                                             | 6,2                                                             | 15,8                                                                 |
| <b>20</b>                                                                 | 30                                                                                                                                           | 30                                                                             | 1                                                               | 34,7                                                                 |
|                                                                           | 35                                                                                                                                           | 35                                                                             | 8                                                               | 25,5                                                                 |
|                                                                           | 40                                                                                                                                           | 40                                                                             | 6,2                                                             | 19,5                                                                 |
|                                                                           | 50                                                                                                                                           | 50                                                                             | 4                                                               | 12,5                                                                 |

**Fori tondi  
pari a 90°**

**Even round  
holes a 90°**

**Trous ronds  
pailr à 90°**

| Diametro foro<br>mm<br><br><i>Hole diameter<br/>mm</i><br><br>Diamètre<br>trou mm | Distanza centro<br>foro (interasse) P<br><br><i>Distance from<br/>center of the hole<br/>(interaxis) P</i><br><br>Distance centre<br>trou (extraxe) P | Distanza<br>laterale C<br><br><i>Side<br/>distance C</i><br><br>Distance<br>laterale C | N. fori<br>dm <sup>2</sup><br><br><i>N. holes<br/>dm<sup>2</sup></i><br><br>N. de trous<br>dm <sup>2</sup> | Percentuale<br>vuoto<br><br><i>%<br/>of empty</i><br><br>Pourcentage<br>vide |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>25</b>                                                                         | 35                                                                                                                                                    | 35                                                                                     | 8                                                                                                          | 39,7                                                                         |
|                                                                                   | 40                                                                                                                                                    | 40                                                                                     | 6,2                                                                                                        | 30,4                                                                         |
|                                                                                   | 50                                                                                                                                                    | 50                                                                                     | 4                                                                                                          | 19,5                                                                         |
| <b>30</b>                                                                         | 45                                                                                                                                                    | 45                                                                                     | 5                                                                                                          | 34,7                                                                         |
|                                                                                   | 50                                                                                                                                                    | 50                                                                                     | 4                                                                                                          | 28                                                                           |
|                                                                                   | 60                                                                                                                                                    | 60                                                                                     | 2,7                                                                                                        | 19,5                                                                         |

# FORI TONDI SVASATI

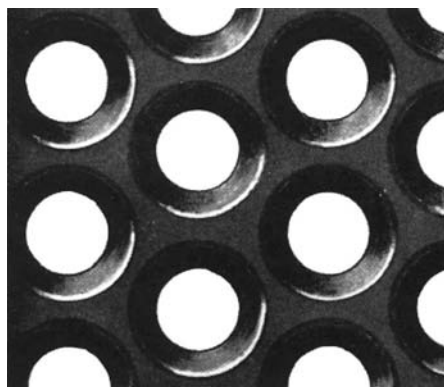
## ROUND DRAWN HOLES

## TROUS RONDS EMBOUTIS

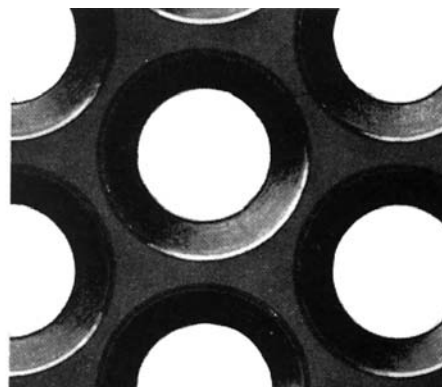
Si eseguono esclusivamente su ordinazione in ferro A00 - Acciaio inox - Alluminio - Ottone - ecc., in misura e foratura a disegno del cliente.

*Exclusively available on request in iron A00 - Stainless steel - brass - aluminium- etc. in standard size 1000 x 2000 and on measures and perforation according to specific drawings.*

Ils sont réalisés exclusivement sur commande en fer A00 - Acier inox - Aluminium - Laiton - etc., sur mesure et perforation sur plan du client.



Ø mm 10,00



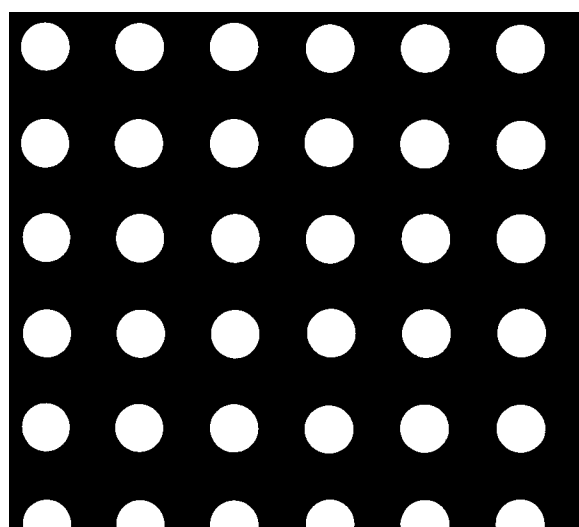
Ø mm 16,00



## PERFORAZIONI PER PANNELLI ESPOSITORI

## PERFORATIONS FOR EXHIBITION PANELS

## PERFORATIONS POUR PANNEAUX PRESENTOIRS



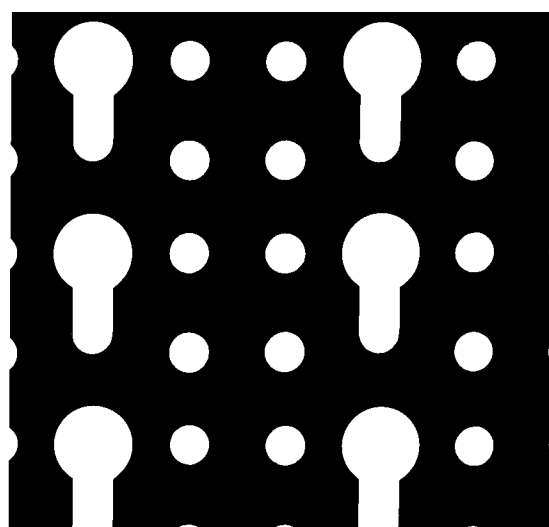
6 p. 12,5

FORI TONDI  
PARI

EVEN ROUND  
HOLES

TROUS RONDS  
PAIRS

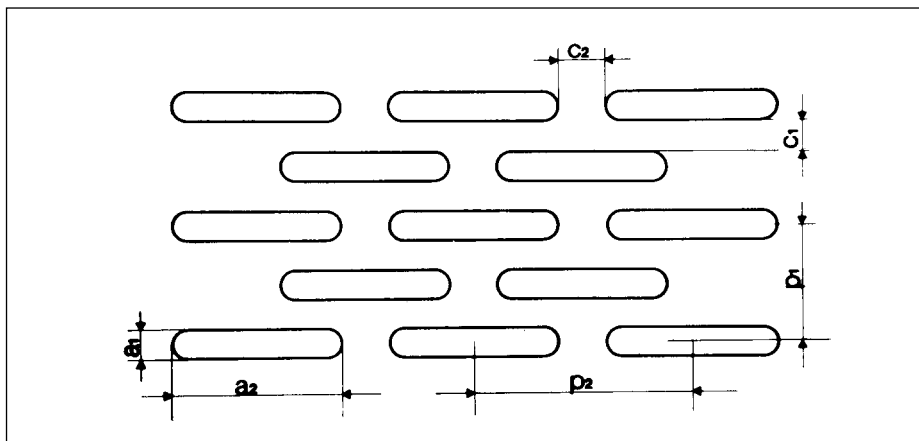
| d | p    |
|---|------|
| 5 | 12,5 |
| 5 | 25   |
| 6 | 12,5 |
| 6 | 25   |



Foro a chiave N. 1 (scala 1:1)  
Key hole no. 1 (scale 1:1)  
Trou à claf n. 1 (échelle 1:1)

# FORI OBLUNGH ELONGATED HOLES TROUS OBLONGS

Normali tipi di foratura e nomenclatura - *Normal types of perforation and their denomination*  
Types normaux de perforation et nomenclature.



## DISPOSIZIONE A FORI ALTERNATI

$a_1$  = larghezza foro  
 $a_2$  = lunghezza foro  
 $c_1$  = pieno tra i lati  
 $c_2$  = pieno tra le teste  
 $p_1$  = passo verticale  
 $p_2$  = passo orizzontale

$$\% \text{ vuoto su pieno} = \frac{a_1 \times a_2 - 0,2 a_1}{p_1 \times p_2} 200$$

## DISPOSITION IN ALTERNATED HOLES

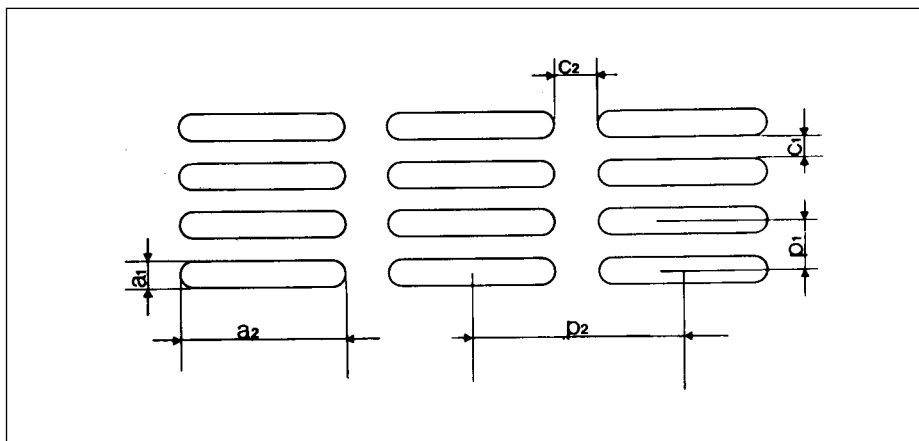
$a_1$  = hole width  
 $a_2$  = hole length  
 $c_1$  = full between the edges  
 $c_2$  = full between the heads  
 $p_1$  = vertical pitch  
 $p_2$  = horizontal pitch

$$\% \text{ of empty on full} = \frac{a_1 \times a_2 - 0,2 a_1}{p_1 \times p_2} 200$$

## DISPOSITION A TROUS ALTERNES

$a_1$  = largeur du trou  
 $a_2$  = longueur du trou  
 $c_1$  = plein entre les côtés  
 $c_2$  = plein entre les têtes  
 $p_1$  = pas vertical  
 $p_2$  = pas horizontal

$$\% \text{ vide sur plein} = \frac{a_1 \times a_2 - 0,2 a_1}{p_1 \times p_2} 200$$



## DISPOSIZIONE A FORI PARI

$a_1$  = larghezza foro  
 $a_2$  = lunghezza foro  
 $c_1$  = pieno tra i lati  
 $c_2$  = pieno tra le teste  
 $p_1$  = passo verticale  
 $p_2$  = passo orizzontale

$$\% \text{ vuoto su pieno} = \frac{a_1 \times a_2 - 0,2 a_1}{p_1 \times p_2} 200$$

## DISPOSITION IN EVEN HOLES

$a_1$  = hole width  
 $a_2$  = hole length  
 $c_1$  = full between the edges  
 $c_2$  = full between the heads  
 $p_1$  = vertical pitch  
 $p_2$  = horizontal pitch

$$\% \text{ of empty on full} = \frac{a_1 \times a_2 - 0,2 a_1}{p_1 \times p_2} 200$$

## DISPOSITION A TROUS PAIRS

$a_1$  = largeur du trou  
 $a_2$  = longueur du trou  
 $c_1$  = plein entre les côtés  
 $c_2$  = plein entre les têtes  
 $p_1$  = pas vertical  
 $p_2$  = pas horizontal

$$\% \text{ vide sur plein} = \frac{a_1 \times a_2 - 0,2 a_1}{p_1 \times p_2} 200$$

# FORI OBLUNGHII ALTERNATI

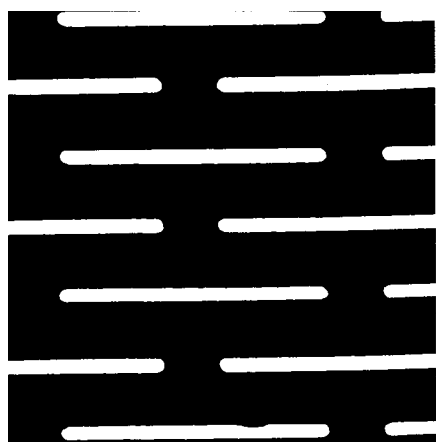
## ELONGATED ALTERNATED HOLES

## TROUS OBLONGS ALTERNES

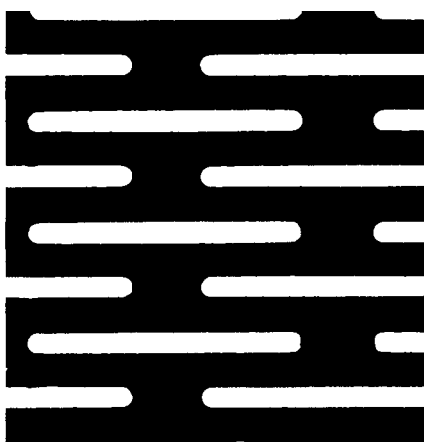
Si eseguono in ferro A00 - Acciaio inox - ottone - alluminio - ecc., in dimensioni standard 1000 x 2000, a misura e foratura a disegno del cliente.

*Produced in iron A00 – Stainless steel – brass – aluminium- etc. in standard size 1000 x 2000 and on measures and perforation according to specific drawings.*

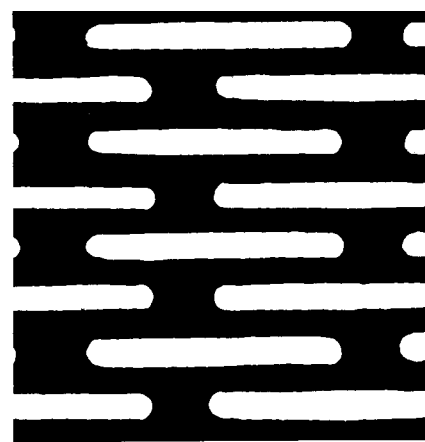
Ils sont réalisés en fer A00 - Acier inox - Laiton - Aluminium - etc. dans les dimensions standard 1000 x 2000 et sur mesure et perforation sur plan du client.



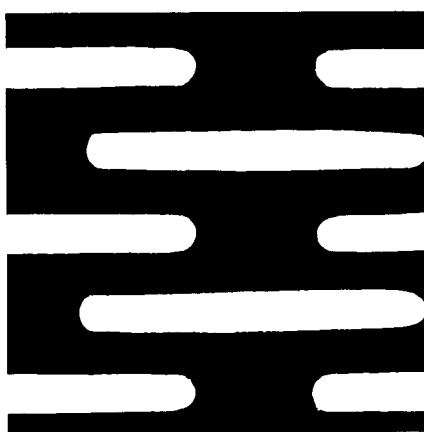
mm 1 x 20



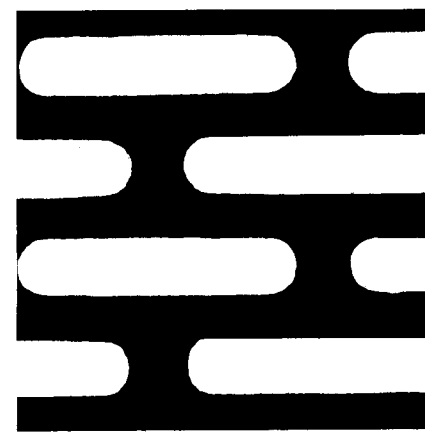
mm 1,50 x 20



mm 2 x 20



mm 3 x 25



mm 4 x 20

Lamiere in ferro A00 a fori oblunghi - alternati - paralleli ai lati lunghi. - Formato 1000 x 2000 - Normalmente pronti a magazzino.  
*Iron A00 sheets with elongated holes - alternated - parallel to longer sides - Size 1000 x 2000 - Normally ready in stock.*  
 Tôles en fer A00 à trous oblongs - alternés - parallèles aux côtés longs - Format 1000 x 2000 - Normalement prêts à l'entrepôt.

| Fori alt.<br>Alter. holes<br>Trous alt. | Spessori mm<br>Thickness mm<br>Epaisseur mm | Fori alt.<br>Alter. holes<br>Trous alt. | Spessore mm<br>Thickness mm<br>Epaisseur mm |
|-----------------------------------------|---------------------------------------------|-----------------------------------------|---------------------------------------------|
| 2x20                                    | 1 - 1,5-2-3                                 | 8x30                                    | 3-4-5-6                                     |
| 3x20                                    | 1 - 1,5-2-3-4                               | 10x30                                   | 3-4-5-6                                     |
| 4x20                                    | 1 - 1,5 - 2 - 3 - 4 - 5                     |                                         |                                             |
| 5x20                                    | 1 - 1,5 - 2 - 3 - 4 - 5                     |                                         |                                             |
| 5x30                                    | 2-3-4-5                                     |                                         |                                             |

# **FORI OBLUNGHICI A FILE ALTERNATE**

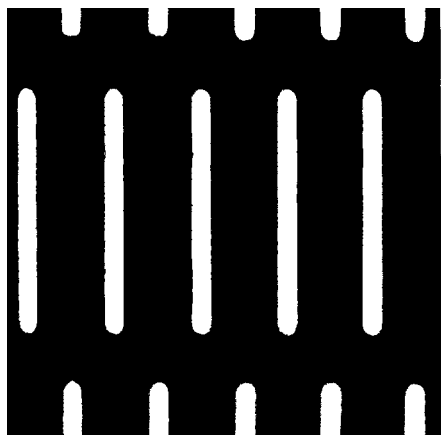
## ***ELONGATED HOLES ON ALTERNATED ROWS***

### **TROUS OBLONGS A RANGS ALTERNES**

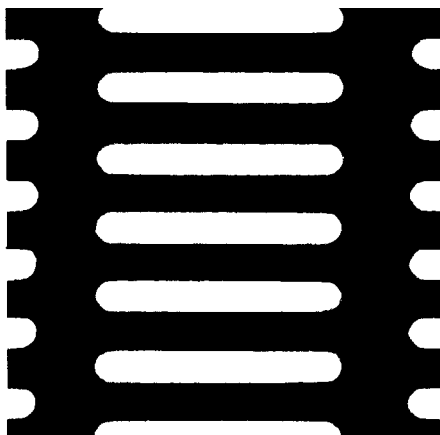
Si eseguono su ordinazione.

*Produced on request.*

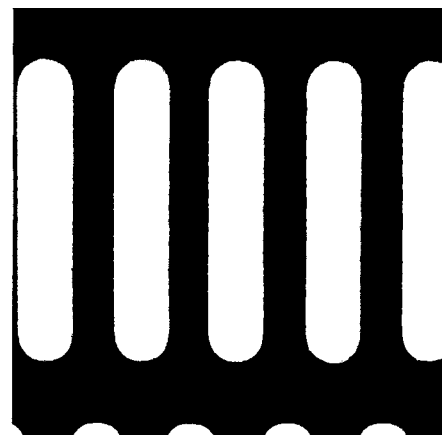
Ils sont réalisés sur commande.



mm 2 x 20



mm 5 x 20



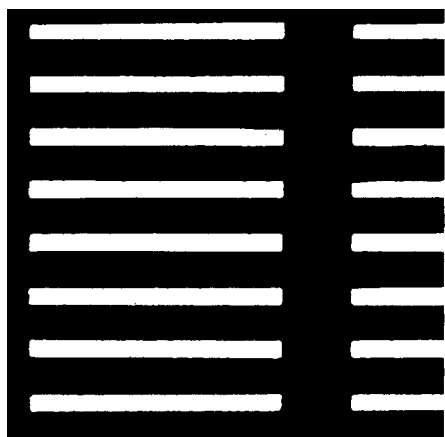
mm 5 x 20

# FORI RETTANGOLARI A DISPOSIZIONE PARI *RECTANGULAR HOLES ON EVEN DISPOSITION* TROUS RECTANGULAIRES A DISPOSITION EN LIGNE

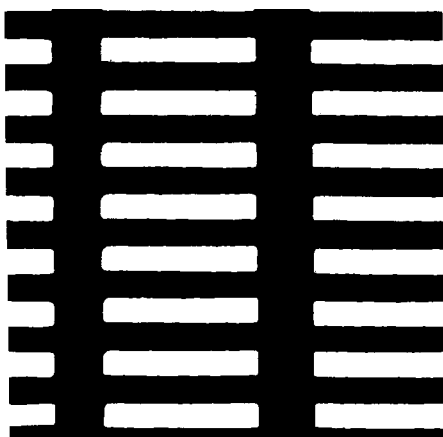
Si eseguono su ordinazione.

*Produced on request.*

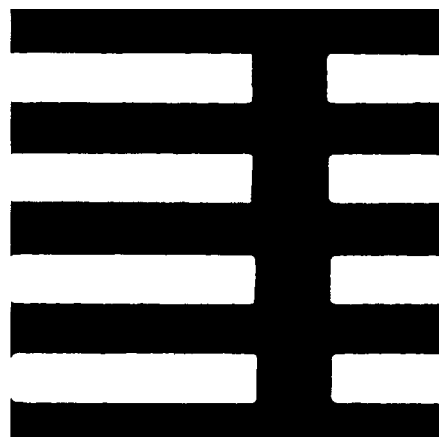
Ils sont réalisés sur commande.



mm 1,50 x 20



mm 2 x 12



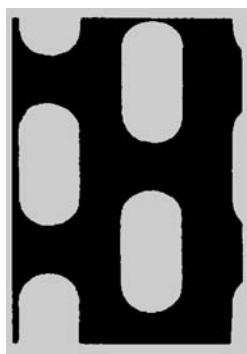
mm 4,50 x 20

## FORI OBLUNGH ELONGATED HOLES TROUS OBLONGS

Alternati, paralleli al lato lungo o al lato corto.

*Alternated, parallel to the longer or to the shorter side.*

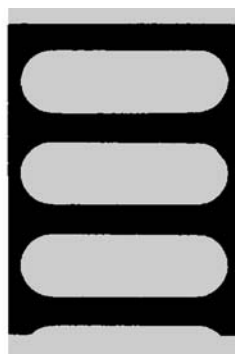
Alternés, parallèles au côté long ou au côté court



8 x 15



8 x 20



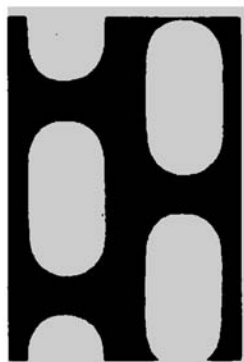
8 x 30



8 x 40



9 x 45



10 x 20



10 x 25



10 x 40

**Fori rettangolari od oblunghi**

alternati o paralleli al lato lungo o al lato corto

***Rectangular or elongated holes****alternated or parallel to the longer or to the shorter side***Trous rectangulaires ou oblongs**

Alternés, parallèles au côté long ou côté court

| Misura fori<br>mm<br><br><i>Hole size<br/>mm</i><br><br>Dimension des trous<br>mm | Parallelismo<br><i>Parallelism</i><br><i>Parallélisme</i> |                       | Tipo di foro<br><i>Kind of hole</i><br><i>Type de trou</i> |                                              |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------|------------------------------------------------------------|----------------------------------------------|
|                                                                                   | Corto<br>Short<br>Court                                   | Lungo<br>Long<br>Long | Oblungo<br>Elongated<br>Oblong                             | Rettangolare<br>Rectangular<br>Rectangulaire |
| 1,5 x 15                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 1,5 x 19                                                                          | •                                                         | •                     |                                                            | •                                            |
| 1,5 x 20                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 1,5 x 24                                                                          | •                                                         | •                     | •                                                          |                                              |
| 1,5 x 25                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 1,65 x 12                                                                         | •                                                         |                       | •                                                          | •                                            |
| 1,7x 10                                                                           |                                                           | •                     | •                                                          |                                              |
| 1,75 x 8                                                                          | •                                                         | •                     |                                                            | •                                            |
| 1,75 x 10                                                                         | •                                                         | •                     | •                                                          |                                              |
| 1,75 x 12                                                                         | •                                                         | •                     | •                                                          |                                              |
| 1,75 x 15                                                                         | •                                                         |                       | •                                                          | •                                            |
| 1,75 x 20                                                                         | •                                                         | •                     | •                                                          | •                                            |
| 1,75 x 30                                                                         | •                                                         |                       | •                                                          | •                                            |
| 1,8x 10                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 1,8 x 20                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 1,8 x 25                                                                          | •                                                         |                       |                                                            | •                                            |
| 1,9 x 20                                                                          | •                                                         |                       | •                                                          |                                              |
| 2 x 4                                                                             | •                                                         | •                     | •                                                          | •                                            |
| 2 x 5                                                                             | •                                                         | •                     | •                                                          | •                                            |
| 2 x 6                                                                             | •                                                         | •                     | •                                                          |                                              |
| 2 x 8                                                                             | •                                                         | •                     | •                                                          |                                              |
| 2 x 10                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 2 x 21                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 2 x 13                                                                            | •                                                         |                       | •                                                          |                                              |
| 2 x 14                                                                            | •                                                         | •                     | •                                                          |                                              |
| 2 x 15                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 2 x 16                                                                            | •                                                         |                       | •                                                          |                                              |
| 2 x 18                                                                            | •                                                         |                       | •                                                          |                                              |
| 2 x 20                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 2 x 23                                                                            | •                                                         |                       | •                                                          |                                              |
| 2 x 25                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 2 x 28                                                                            | •                                                         |                       |                                                            | •                                            |
| 2 x 30                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 2 x 40                                                                            |                                                           |                       |                                                            |                                              |

Fori  
rettangolari  
od oblunghi

*Rectangular  
or elongated  
holes*

*Trous  
rectangulaires  
oblongs*

| Misura fori<br>mm<br><br>Hole size<br>mm<br><br>Dimension des trous<br>mm | Parallelismo<br><i>Parallelism</i><br><i>Parallélisme</i> |                       | Tipo di foro<br><i>Kind of hole</i><br><i>Type de trou</i> |                                              |
|---------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------|------------------------------------------------------------|----------------------------------------------|
|                                                                           | Corto<br>Short<br>Court                                   | Lungo<br>Long<br>Long | Oblungo<br>Elongated<br>Oblong                             | Rettangolare<br>Rectangular<br>Rectangulaire |
| 2 x 60                                                                    | •                                                         |                       |                                                            | •                                            |
| 2,05 x 35                                                                 | •                                                         |                       | •                                                          |                                              |
| 2,1 x 20                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,15 x 15                                                                 | •                                                         | •                     | •                                                          |                                              |
| 2,2 x 10                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,2 x 20                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,25 x 20                                                                 | •                                                         | •                     | •                                                          | •                                            |
| 2,25 x 25                                                                 | •                                                         |                       |                                                            | •                                            |
| 2,25 x 50                                                                 | •                                                         |                       |                                                            | •                                            |
| 2,3 x 20                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,35 x 70                                                                 | •                                                         |                       |                                                            | •                                            |
| 2,4 x 20                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,5 x 4                                                                   | •                                                         | •                     | •                                                          |                                              |
| 2,5 x 5                                                                   | •                                                         | •                     | •                                                          | •                                            |
| 2,5 x 6                                                                   | •                                                         | •                     | •                                                          |                                              |
| 2,5 x 9                                                                   | •                                                         |                       | •                                                          |                                              |
| 2,5 x 10                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,5 x 11                                                                  | •                                                         | •                     |                                                            | •                                            |
| 2,5 x 12                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,5 x 14                                                                  | •                                                         |                       |                                                            | •                                            |
| 2,5 x 15                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,5 x 18                                                                  | •                                                         | •                     | •                                                          |                                              |
| 2,5 x 20                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,5 x 24                                                                  | •                                                         | •                     | •                                                          |                                              |
| 2,5 x 25                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,5 x 30                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,5 x 40                                                                  | •                                                         |                       | •                                                          | •                                            |
| 2,6 x 20                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,7 x 10                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,7 x 20                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,75 x 20                                                                 | •                                                         | •                     | •                                                          | •                                            |
| 2,75 x 25                                                                 | •                                                         |                       |                                                            | •                                            |
| 2,8 x 5                                                                   | •                                                         | •                     | •                                                          |                                              |
| 2,8 x 20                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 2,9 x 20                                                                  | •                                                         |                       | •                                                          | •                                            |
| 3 x 5                                                                     | •                                                         | •                     | •                                                          | •                                            |
| 3 x 6                                                                     | •                                                         | •                     | •                                                          | •                                            |
| 3 x 7                                                                     |                                                           | •                     | •                                                          |                                              |
| 3 x 8                                                                     |                                                           | •                     | •                                                          |                                              |
| 3 x 10                                                                    | •                                                         | •                     | •                                                          | •                                            |
| 3 x 11                                                                    |                                                           | •                     | •                                                          |                                              |

Fori  
rettangolari  
od oblunghi

*Rectangular  
or elongated  
holes*

*Trous  
rectangulaires  
oblongs*

| Misura fori<br>mm<br><br><i>Hole size<br/>mm</i><br><br>Dimension des trous<br>mm | Parallelismo<br><i>Parallelism</i><br><i>Parallélisme</i> |                       | Tipo di foro<br><i>Kind of hole</i><br><i>Type de trou</i> |                                              |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------|------------------------------------------------------------|----------------------------------------------|
|                                                                                   | Corto<br>Short<br>Court                                   | Lungo<br>Long<br>Long | Oblungo<br>Elongated<br>Oblong                             | Rettangolare<br>Rectangular<br>Rectangulaire |
| 3 x 12                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 3 x 13                                                                            | •                                                         |                       | •                                                          |                                              |
| 3 x 14                                                                            | •                                                         | •                     | •                                                          |                                              |
| 3 x 15                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 3 x 17                                                                            | •                                                         |                       | •                                                          |                                              |
| 3 x 18                                                                            | •                                                         | •                     | •                                                          |                                              |
| 3 x 19                                                                            | •                                                         |                       |                                                            | •                                            |
| 3 x 20                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 3 x 24                                                                            | •                                                         | •                     | •                                                          |                                              |
| 3 x 25                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 3 x 28                                                                            | •                                                         | •                     | •                                                          |                                              |
| 3 x 30                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 3 x 35                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 3 x 40                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 3 x 50                                                                            | •                                                         |                       | •                                                          | •                                            |
| 3 x 60                                                                            | •                                                         |                       | •                                                          | •                                            |
| 3,25 x 12                                                                         | •                                                         | •                     | •                                                          |                                              |
| 3,25 x 20                                                                         | •                                                         | •                     | •                                                          | •                                            |
| 3,25 x 25                                                                         | •                                                         | •                     | •                                                          | •                                            |
| 3,5 x 5                                                                           | •                                                         | •                     | •                                                          |                                              |
| 3,5 x 10                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 3,5 x 12                                                                          | •                                                         | •                     | •                                                          |                                              |
| 3,5 x 15                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 3,5 x 16                                                                          | •                                                         |                       | •                                                          |                                              |
| 3,5 x 20                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 3,5 x 24                                                                          | •                                                         | •                     | •                                                          |                                              |
| 3,5 x 25                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 3,5 x 30                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 3,5 x 40                                                                          | •                                                         |                       | •                                                          | •                                            |
| 3,5 x 70                                                                          | •                                                         |                       | •                                                          | •                                            |
| 3,5 x 118                                                                         | •                                                         |                       | •                                                          |                                              |
| 3,7 x 20                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 3,75 x 25                                                                         | •                                                         | •                     | •                                                          | •                                            |
| 3,75 x 35                                                                         | •                                                         | •                     | •                                                          |                                              |
| 3,8 x 20                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 3,9 x 20                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 4 x 5                                                                             | •                                                         | •                     | •                                                          | •                                            |
| 4 x 6                                                                             | •                                                         | •                     | •                                                          |                                              |
| 4 x 7                                                                             | •                                                         | •                     | •                                                          |                                              |
| 4 x 8                                                                             | •                                                         | •                     | •                                                          |                                              |
| 4 x 8,4                                                                           | •                                                         | •                     | •                                                          |                                              |

Fori  
rettangolari  
od oblunghi

*Rectangular  
or elongated  
holes*

*Trous  
rectangulaires  
oblongs*

| Misura fori<br>mm<br><br>Hole size<br>mm<br><br>Dimension des trous<br>mm | Parallelismo<br><i>Parallelism</i><br><i>Parallélisme</i> |                       | Tipo di foro<br><i>Kind of hole</i><br><i>Type de trou</i> |                                              |
|---------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------|------------------------------------------------------------|----------------------------------------------|
|                                                                           | Corto<br>Short<br>Court                                   | Lungo<br>Long<br>Long | Oblungo<br>Elongated<br>Oblong                             | Rettangolare<br>Rectangular<br>Rectangulaire |
| 4 x 10                                                                    | •                                                         | •                     | •                                                          | •                                            |
| 4 x 11                                                                    | •                                                         |                       | •                                                          |                                              |
| 4 x 12                                                                    | •                                                         | •                     | •                                                          | •                                            |
| 4 x 13                                                                    | •                                                         | •                     | •                                                          |                                              |
| 4 x 14                                                                    | •                                                         | •                     | •                                                          |                                              |
| 4 x 15                                                                    |                                                           | •                     | •                                                          |                                              |
| 4 x 18                                                                    |                                                           | •                     | •                                                          |                                              |
| 4 x 19                                                                    |                                                           | •                     | •                                                          |                                              |
| 4 x 20                                                                    | •                                                         | •                     | •                                                          | •                                            |
| 4 x 25                                                                    | •                                                         | •                     | •                                                          | •                                            |
| 4 x 30                                                                    | •                                                         | •                     | •                                                          | •                                            |
| 4 x 35                                                                    | •                                                         | •                     | •                                                          |                                              |
| 4 x 40                                                                    | •                                                         | •                     | •                                                          | •                                            |
| 4 x 50                                                                    | •                                                         | •                     | •                                                          |                                              |
| 4 x 60                                                                    | •                                                         |                       | •                                                          | •                                            |
| 4 x 80                                                                    | •                                                         |                       | •                                                          | •                                            |
| 4 x 136                                                                   | •                                                         |                       | •                                                          | •                                            |
| 4 x 140                                                                   | •                                                         |                       | •                                                          | •                                            |
| 4 x 200                                                                   | •                                                         |                       | •                                                          | •                                            |
| 4,25 x 20                                                                 | •                                                         | •                     | •                                                          | •                                            |
| 4,25 x 25                                                                 | •                                                         | •                     | •                                                          | •                                            |
| 4,25 x 30                                                                 | •                                                         | •                     | •                                                          | •                                            |
| 4,5 x 6                                                                   | •                                                         | •                     | •                                                          |                                              |
| 4,5 x 7,5                                                                 | •                                                         |                       | •                                                          | •                                            |
| 4,5 x 9                                                                   | •                                                         |                       |                                                            | •                                            |
| 4,5 x 10                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 4,5 x 12                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 4,5 x 13                                                                  | •                                                         | •                     | •                                                          |                                              |
| 4,5 x 19                                                                  | •                                                         |                       | •                                                          |                                              |
| 4,5 x 20                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 4,5 x 23,5                                                                | •                                                         |                       | •                                                          |                                              |
| 4,5 x 25                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 4,5 x 29                                                                  | •                                                         |                       | •                                                          |                                              |
| 4,5 x 30                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 4,5 x 40                                                                  | •                                                         | •                     | •                                                          | •                                            |
| 4,75 x 20                                                                 | •                                                         | •                     | •                                                          | •                                            |
| 4,8 x 20                                                                  | •                                                         |                       | •                                                          | •                                            |
| 5 x 7                                                                     | •                                                         | •                     | •                                                          |                                              |
| 5 x 8                                                                     | •                                                         | •                     | •                                                          |                                              |
| 5 x 10                                                                    | •                                                         | •                     | •                                                          | •                                            |
| 5 x 10,5                                                                  | •                                                         |                       |                                                            | •                                            |

Fori  
rettangolari  
od oblunghi

*Rectangular  
or elongated  
holes*

*Trous  
rectangulaires  
oblongs*

| Misura fori<br>mm<br><br><i>Hole size<br/>mm</i><br><br>Dimension des trous<br>mm | Parallelismo<br><i>Parallelism</i><br><i>Parallélisme</i> |                       | Tipo di foro<br><i>Kind of hole</i><br><i>Type de trou</i> |                                              |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------|------------------------------------------------------------|----------------------------------------------|
|                                                                                   | Corto<br>Short<br>Court                                   | Lungo<br>Long<br>Long | Oblungo<br>Elongated<br>Oblong                             | Rettangolare<br>Rectangular<br>Rectangulaire |
| 5 x 12                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 5 x 15                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 5 x 17                                                                            | •                                                         |                       | •                                                          |                                              |
| 5 x 20                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 5 x 21,5                                                                          | •                                                         |                       | •                                                          |                                              |
| 5 x 25                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 5 x 25,5                                                                          | •                                                         |                       | •                                                          |                                              |
| 5 x 30                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 5 x 35                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 5 x 40                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 5 x 45                                                                            | •                                                         | •                     | •                                                          |                                              |
| 5 x 50                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 5 x 60                                                                            | •                                                         |                       | •                                                          |                                              |
| 5 x 80                                                                            | •                                                         |                       | •                                                          | •                                            |
| 5 x 135                                                                           | •                                                         |                       |                                                            | •                                            |
| 5,25 x 20                                                                         | •                                                         | •                     | •                                                          | •                                            |
| 5,25 x 30                                                                         | •                                                         | •                     | •                                                          | •                                            |
| 5,4 x 20                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 5,5 x 20                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 5,5 x 21,5                                                                        | •                                                         |                       | •                                                          |                                              |
| 5,5 x 25                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 5,5 x 30                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 5,5 x 140                                                                         | •                                                         |                       | •                                                          |                                              |
| 5,8 x 20                                                                          | •                                                         | •                     | •                                                          | •                                            |
| 6 x 9                                                                             | •                                                         | •                     | •                                                          |                                              |
| 6 x 10                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 6 x 12                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 6 x 14                                                                            | •                                                         | •                     | •                                                          |                                              |
| 6 x 15                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 6 x 18                                                                            | •                                                         | •                     | •                                                          |                                              |
| 6 x 20                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 6 x 24                                                                            | •                                                         | •                     | •                                                          |                                              |
| 6 x 25                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 6 x 26                                                                            | •                                                         |                       | •                                                          |                                              |
| 6 x 30                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 6 x 35                                                                            | •                                                         | •                     | •                                                          |                                              |
| 6 x 37                                                                            | •                                                         |                       |                                                            | •                                            |
| 6 x 40                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 6 x 45                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 6 x 50                                                                            | •                                                         | •                     | •                                                          |                                              |
| 6 x 60                                                                            | •                                                         | •                     | •                                                          |                                              |

Fori  
rettangolari  
od oblunghi

*Rectangular  
or elongated  
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*Trous  
rectangulaires  
oblongs*

| Misura fori<br>mm<br><br><i>Hole size<br/>mm</i><br><br>Dimension des trous<br>mm | Parallelismo<br><i>Parallelism</i><br><i>Parallélisme</i> |                       | Tipo di foro<br><i>Kind of hole</i><br><i>Type de trou</i> |                                              |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------|------------------------------------------------------------|----------------------------------------------|
|                                                                                   | Corto<br>Short<br>Court                                   | Lungo<br>Long<br>Long | Oblungo<br>Elongated<br>Oblong                             | Rettangolare<br>Rectangular<br>Rectangulaire |
| 6 x 136                                                                           | •                                                         | •                     | •                                                          |                                              |
| 6 x 140                                                                           | •                                                         | •                     | •                                                          |                                              |
| 6,5 x 20                                                                          | •                                                         | •                     | •                                                          |                                              |
| 6,5 x 25                                                                          | •                                                         | •                     | •                                                          |                                              |
| 6,5 x 30                                                                          | •                                                         | •                     | •                                                          |                                              |
| 7 x 15                                                                            | •                                                         | •                     | •                                                          |                                              |
| 7 x 20                                                                            | •                                                         | •                     | •                                                          |                                              |
| 7 x 25                                                                            | •                                                         | •                     | •                                                          |                                              |
| 7 x 30                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 7 x 35                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 7 x 40                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 7 x 45                                                                            | •                                                         | •                     | •                                                          |                                              |
| 7 x 50                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 7 x 60                                                                            | •                                                         |                       | •                                                          |                                              |
| 7 x 140                                                                           | •                                                         |                       | •                                                          | •                                            |
| 7,5 x 30                                                                          | •                                                         | •                     | •                                                          |                                              |
| 7,5 x 35                                                                          | •                                                         | •                     | •                                                          |                                              |
| 8 x 10                                                                            | •                                                         |                       |                                                            | •                                            |
| 8 x 12                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 8 x 16                                                                            | •                                                         | •                     | •                                                          |                                              |
| 8 x 19                                                                            | •                                                         |                       |                                                            | •                                            |
| 8 x 20                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 8 x 24                                                                            | •                                                         | •                     | •                                                          |                                              |
| 8 x 25                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 8 x 30                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 8 x 33                                                                            | •                                                         |                       | •                                                          |                                              |
| 8 x 34                                                                            | •                                                         |                       | •                                                          |                                              |
| 8 x 35                                                                            | •                                                         | •                     | •                                                          |                                              |
| 8 x 40                                                                            | •                                                         | •                     | •                                                          | •                                            |
| 8 x 45                                                                            | •                                                         | •                     | •                                                          |                                              |
| 8 x 50                                                                            | •                                                         | •                     |                                                            | •                                            |
| 8 x 60                                                                            | •                                                         | •                     | •                                                          |                                              |
| 8 x 76                                                                            | •                                                         |                       | •                                                          |                                              |
| 8 x 80                                                                            | •                                                         | •                     | •                                                          |                                              |
| 8 x 120                                                                           | •                                                         |                       | •                                                          |                                              |
| 8 x 140                                                                           | •                                                         |                       | •                                                          |                                              |
| 8 x 250                                                                           | •                                                         |                       | •                                                          |                                              |
| 9 x 12                                                                            | •                                                         | •                     | •                                                          |                                              |
| 9 x 17                                                                            | •                                                         |                       | •                                                          |                                              |
| 9 x 20                                                                            | •                                                         | •                     | •                                                          |                                              |
| 9 x 25                                                                            | •                                                         | •                     | •                                                          |                                              |

Fori  
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od oblunghi

*Rectangular  
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rectangulaires  
oblongs*

| Misura fori<br>mm<br><br>Hole size<br>mm<br><br>Dimension des trous<br>mm | Parallelismo<br>Parallelism<br>Parallélisme |                       | Tipo di foro<br>Kind of hole<br>Type de trou |                                              |
|---------------------------------------------------------------------------|---------------------------------------------|-----------------------|----------------------------------------------|----------------------------------------------|
|                                                                           | Corto<br>Short<br>Court                     | Lungo<br>Long<br>Long | Oblungo<br>Elongated<br>Oblong               | Rettangolare<br>Rectangular<br>Rectangulaire |
| 9 x 30                                                                    | •                                           | •                     | •                                            | •                                            |
| 9 x 32                                                                    | •                                           | •                     | •                                            |                                              |
| 9 x 35                                                                    | •                                           | •                     | •                                            |                                              |
| 9 x 50                                                                    | •                                           |                       | •                                            |                                              |
| 9 x 60                                                                    | •                                           |                       | •                                            |                                              |
| 9 x 80                                                                    | •                                           |                       | •                                            |                                              |
| 9,5 x 32                                                                  | •                                           | •                     | •                                            |                                              |
| 10 x 20                                                                   | •                                           | •                     | •                                            |                                              |
| 10 x 25                                                                   | •                                           |                       | •                                            |                                              |
| 10 x 29                                                                   | •                                           |                       | •                                            |                                              |
| 10 x 30                                                                   | •                                           | •                     | •                                            |                                              |
| 10 x 33                                                                   | •                                           |                       | •                                            |                                              |
| 10 x 38                                                                   | •                                           |                       | •                                            |                                              |
| 10 x 45                                                                   | •                                           | •                     | •                                            |                                              |
| 10 x 50                                                                   | •                                           | •                     | •                                            | •                                            |
| 10 x 55                                                                   | •                                           |                       | •                                            |                                              |
| 10 x 60                                                                   | •                                           |                       | •                                            |                                              |
| 10 x 70                                                                   | •                                           |                       | •                                            |                                              |
| 10 x 80                                                                   | •                                           | •                     | •                                            |                                              |
| 10 x 100                                                                  | •                                           |                       | •                                            |                                              |
| 10 x 120                                                                  | •                                           |                       | •                                            |                                              |
| 10 x 140                                                                  | •                                           |                       |                                              | •                                            |
| 11 x 25                                                                   | •                                           | •                     | •                                            |                                              |
| 11 x 30                                                                   | •                                           | •                     | •                                            |                                              |
| 11 x 38                                                                   | •                                           |                       | •                                            |                                              |
| 11 x 40                                                                   | •                                           | •                     | •                                            |                                              |
| 11 x 43                                                                   | •                                           | •                     | •                                            |                                              |
| 12 x 24                                                                   | •                                           | •                     | •                                            |                                              |
| 12 x 25                                                                   | •                                           | •                     | •                                            | •                                            |
| 12 x 30                                                                   | •                                           | •                     | •                                            |                                              |
| 12 x 35                                                                   | •                                           | •                     | •                                            |                                              |
| 12 x 40                                                                   | •                                           | •                     | •                                            |                                              |
| 12 x 45                                                                   | •                                           | •                     | •                                            |                                              |
| 12 x 50                                                                   | •                                           | •                     | •                                            | •                                            |
| 12 x 60                                                                   | •                                           |                       | •                                            |                                              |
| 12 x 80                                                                   | •                                           |                       | •                                            |                                              |
| 12,5 x 32                                                                 | •                                           | •                     | •                                            |                                              |
| 12,5 x 43                                                                 | •                                           | •                     | •                                            |                                              |
| 13 x 18                                                                   | •                                           | •                     | •                                            |                                              |
| 13 x 25                                                                   | •                                           | •                     | •                                            |                                              |
| 13 x 40                                                                   | •                                           | •                     | •                                            | •                                            |

Fori  
rettangolari  
od oblunghi

*Rectangular  
or elongated  
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*Trous  
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oblongs*

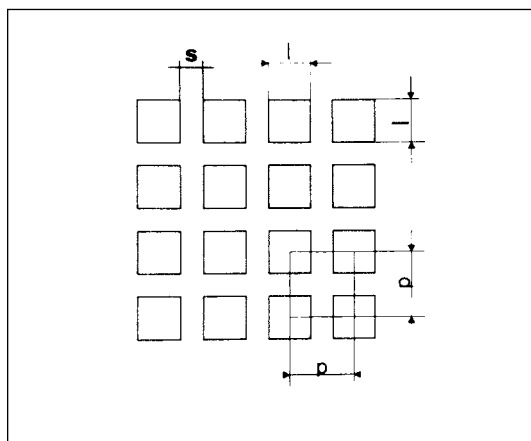
| Misura fori<br>mm<br><br><i>Hole size<br/>mm</i><br><br>Dimension des trous<br>mm | Parallelismo<br><i>Parallelism</i><br><i>Parallélisme</i> |                       | Tipo di foro<br><i>Kind of hole</i><br><i>Type de trou</i> |                                              |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------|------------------------------------------------------------|----------------------------------------------|
|                                                                                   | Corto<br>Short<br>Court                                   | Lungo<br>Long<br>Long | Oblungo<br>Elongated<br>Oblong                             | Rettangolare<br>Rectangular<br>Rectangulaire |
| 13 x 45                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 14 x 30                                                                           | •                                                         | •                     | •                                                          |                                              |
| 14 x 35                                                                           | •                                                         | •                     | •                                                          |                                              |
| 14 x 40                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 14 x 50                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 14 x 60                                                                           | •                                                         | •                     | •                                                          |                                              |
| 14 x 80                                                                           | •                                                         | •                     | •                                                          |                                              |
| 15 x 20                                                                           | •                                                         | •                     | •                                                          |                                              |
| 15 x 25                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 15 x 30                                                                           | •                                                         | •                     | •                                                          |                                              |
| 15 x 35                                                                           | •                                                         | •                     | •                                                          |                                              |
| 15 x 40                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 15 x 45                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 15 x 50                                                                           | •                                                         | •                     | •                                                          |                                              |
| 15 x 75                                                                           | •                                                         |                       | •                                                          |                                              |
| 15 x 80                                                                           | •                                                         |                       | •                                                          |                                              |
| 15 x 95                                                                           | •                                                         |                       | •                                                          |                                              |
| 16 x 30                                                                           | •                                                         | •                     | •                                                          |                                              |
| 16 x 32                                                                           | •                                                         | •                     | •                                                          |                                              |
| 16 x 40                                                                           | •                                                         | •                     | •                                                          |                                              |
| 17 x 40                                                                           | •                                                         | •                     | •                                                          |                                              |
| 17 x 50                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 17,5 x 30                                                                         | •                                                         | •                     | •                                                          |                                              |
| 17,5 x 32                                                                         | •                                                         | •                     | •                                                          |                                              |
| 18 x 40                                                                           | •                                                         | •                     | •                                                          |                                              |
| 18 x 50                                                                           | •                                                         | •                     | •                                                          |                                              |
| 19 x 34                                                                           | •                                                         | •                     | •                                                          |                                              |
| 19 x 140                                                                          | •                                                         |                       | •                                                          |                                              |
| 20 x 25                                                                           | •                                                         | •                     | •                                                          |                                              |
| 20 x 30                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 20 x 40                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 20 x 50                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 22 x 37                                                                           | •                                                         | •                     | •                                                          |                                              |
| 22 x 40                                                                           | •                                                         | •                     | •                                                          |                                              |
| 22 x 45                                                                           | •                                                         | •                     | •                                                          |                                              |
| 24 x 50                                                                           | •                                                         | •                     |                                                            | •                                            |
| 25 x 40                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 25 x 50                                                                           | •                                                         | •                     | •                                                          | •                                            |
| 25 x 75                                                                           | •                                                         | •                     | •                                                          |                                              |
| 25 x 100                                                                          | •                                                         |                       | •                                                          |                                              |
| 30 x 70                                                                           | •                                                         | •                     | •                                                          |                                              |

# LAMIERE FORATE A FORI QUADRI

## PERFORATED SHEET WITH SQUARE HOLES

## TOLES PERFOREES A TROUS CARRES

**Tipi di fori e nomenclatura - Normal types of perforation and their denomination**  
**Types de trous et nomenclature.**



### DISPOSIZIONE PARI

$l$  = lato del foro quadro

$s$  = costa piena tra foro e foro

$p$  = passo

$$\% \text{ vuoto su pieno} = \left(\frac{l}{p}\right)^2 \times 100$$

$$\text{Numero fori per dm}^2 = \frac{10.000}{p^2}$$

### EVEN DISPOSITION

$l$  = side of the square hole

$s$  = full edge between one hole and the other

$p$  = pitch

$$\% \text{ on full on empty} = \left(\frac{l}{p}\right)^2 \times 100$$

$$\text{No. of holes per dm}^2 = \frac{10.000}{p^2}$$

### DISPOSITION EN LIGNE

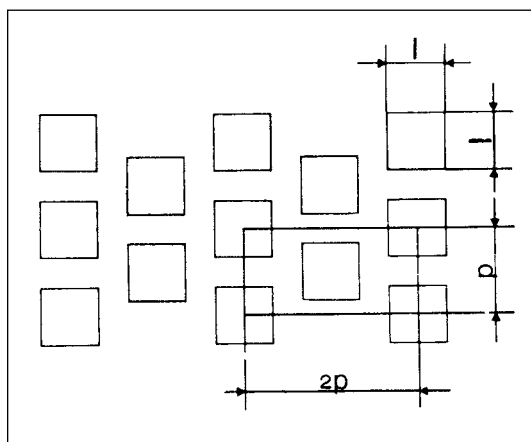
$l$  = côté du trou carré

$s$  = côté pleine entre trou et trou

$p$  = pas

$$\% \text{ vide sur plein} = \left(\frac{l}{p}\right)^2 \times 100$$

$$\text{Nombre de trous par dm}^2 = \frac{10.000}{p^2}$$



### DISPOSIZIONE ALTERNATA

$l$  = lato del foro quadro

$p$  = passo verticale

$2p$  = passo orizzontale

$$\% \text{ vuoto su pieno} = \left(\frac{l}{p}\right)^2 \times 100$$

$$\text{Numero fori per dm}^2 = \frac{10.000}{p^2}$$

### ALTERNATE DISPOSITION

$l$  = side of the square hole

$p$  = vertical pitch

$2p$  = horizontal pitch

$$\% \text{ on full on empty} = \left(\frac{l}{p}\right)^2 \times 100$$

$$\text{No. of holes per dm}^2 = \frac{10.000}{p^2}$$

### DISPOSITION ALTERNEE

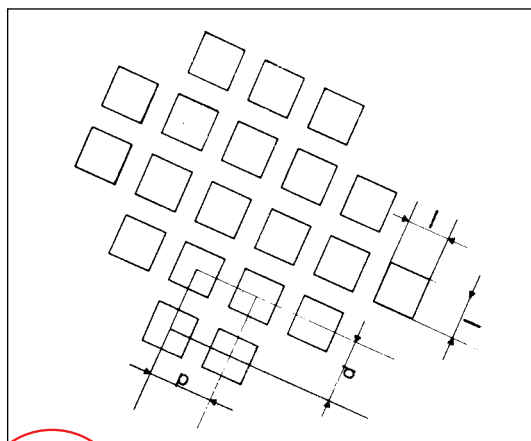
$l$  = côté du trou carré

$p$  = pas vertical

$2p$  = pas horizontal

$$\% \text{ vide sur plein} = \left(\frac{l}{p}\right)^2 \times 100$$

$$\text{Nombre de trous par dm}^2 = \frac{10.000}{p^2}$$



### DISPOSIZIONE IN DIAGONALE

$l$  = lato del foro quadro

$p$  = passo

$$\% \text{ vuoto su pieno} = \left(\frac{l}{p}\right)^2 \times 100$$

$$\text{Numero fori per dm}^2 = \frac{10.000}{p^2}$$

### DIAGONAL DISPOSITION

$l$  = side of the square hole

$p$  = pitch

$$\% \text{ on full on empty} = \left(\frac{l}{p}\right)^2 \times 100$$

$$\text{No. of holes per dm}^2 = \frac{10.000}{p^2}$$

### DISPOSITION EN DIAGONALE

$l$  = côté du trou carré

$p$  = pas

$$\% \text{ vide sur plein} = \left(\frac{l}{p}\right)^2 \times 100$$

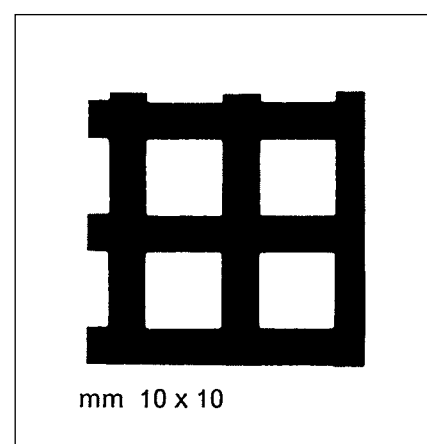
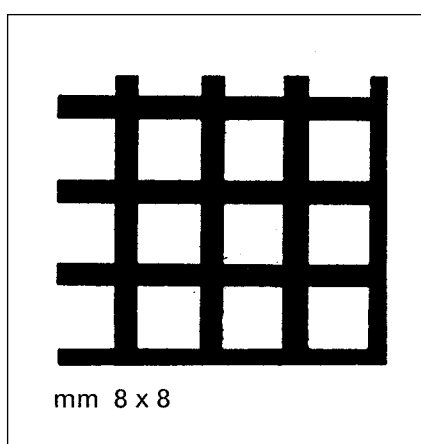
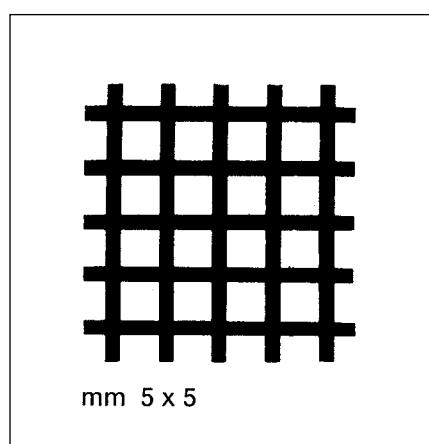
$$\text{Nombre de trous par dm}^2 = \frac{10.000}{p^2}$$

# FORI QUADRATI A DISPOSIZIONE PARI SQUARE HOLES ON EVEN DISPOSITION TROUS CARRES A DISPOSITION EN LIGNE

Si eseguono in ferro A00 - Acciaio inox - alluminio - rame - ottone - ecc., nelle dimensioni standard 1000 x 2000 e a misura.

*Produced in iron A00 - Stainless - brass - copper - aluminium - etc., in standard size 1000 x 2000 and on measures according to specific requests.*

Ils sont réalisés en fer A00 - Acier inox - Aluminium - Laiton - Cuivre - etc., dans les dimensions standard 1000 x 2000 et sur mesure.



Tipi normalmente pronti a magazzino in ferro A00 - Acciaio inox alluminio in dimensioni 1000 x 2000.

*Normally ready in stock in iron A00 - Stainless steel - aluminium size 1000 x 2000.*

Types normalement prêts à l'entrepôt en fer A00 - Acier inox - Aluminium dan les dimensions 1000 x 2000.

| FORO<br>HOLE<br>TROU | Pieno tra foro e foro<br><i>Filled part between holes</i><br>Part plein entre les trous | Spessore mm<br><i>Thickness mm</i><br>Epaisseur mm |
|----------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------|
| 3x3                  | 2                                                                                       | 0,5 - 1 - 1,5                                      |
| 5x5                  | 2                                                                                       | 0,5 - 1 - 1,5 - 2                                  |
| 8x8                  | 2 - 4                                                                                   | 1 - 1,5 - 2                                        |
| 10x10                | 2 - 2,5 - 3 - 5                                                                         | 1 - 1,5 - 2                                        |

**Fori quadri pari**  
**Even square holes**  
**Trous carrés pairs**

| Foro quadro<br>mm<br>Square hole<br>mm<br>Trou carré<br>mm | Distanza centro<br>foro laterali<br>Side distance<br>from hole centre<br>Distance entre<br>le centre du trou<br>et le côtés | N. fori<br>dm <sup>2</sup><br>N. of holes<br>dm <sup>2</sup><br>N. de trous<br>par dm <sup>2</sup> | Percentuale<br>vuoto<br>%<br>of empty<br>Pourcentage<br>vide |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>3</b>                                                   | 5 x 5                                                                                                                       | 400                                                                                                | 36                                                           |
|                                                            | 6 x 6                                                                                                                       | 278                                                                                                | 25                                                           |
| <b>3,5</b>                                                 | 5,5 x 5,5                                                                                                                   | 330                                                                                                | 40,4                                                         |
|                                                            | 6 x 6                                                                                                                       | 278                                                                                                | 34                                                           |
| <b>4</b>                                                   | 6 x 6                                                                                                                       | 278                                                                                                | 44,4                                                         |
|                                                            | 7 x 7                                                                                                                       | 204                                                                                                | 32,6                                                         |
| <b>4,5</b>                                                 | 7,5 x 7,5                                                                                                                   | 178                                                                                                | 36                                                           |
| <b>5</b>                                                   | 7 x 7                                                                                                                       | 204                                                                                                | 51                                                           |
|                                                            | 8 x 8                                                                                                                       | 156                                                                                                | 39                                                           |
|                                                            | 9 x 9                                                                                                                       | 124                                                                                                | 30,8                                                         |
| <b>6</b>                                                   | 8 x 8                                                                                                                       | 156                                                                                                | 56,25                                                        |
|                                                            | 9 x 9                                                                                                                       | 124                                                                                                | 44                                                           |
|                                                            | 10 x 10                                                                                                                     | 100                                                                                                | 36                                                           |
| <b>7</b>                                                   | 10 x 10                                                                                                                     | 100                                                                                                | 49                                                           |
|                                                            | 11 x 11                                                                                                                     | 83                                                                                                 | 40,5                                                         |
| <b>8</b>                                                   | 10 x 10                                                                                                                     | 100                                                                                                | 64                                                           |
|                                                            | 11 x 11                                                                                                                     | 83                                                                                                 | 52,8                                                         |
|                                                            | 12 x 12                                                                                                                     | 70                                                                                                 | 44,5                                                         |
| <b>9</b>                                                   | 13 x 13                                                                                                                     | 59                                                                                                 | 48                                                           |
| <b>10</b>                                                  | 12 x 12                                                                                                                     | 70                                                                                                 | 69,5                                                         |
|                                                            | 13 x 13                                                                                                                     | 59                                                                                                 | 59                                                           |
|                                                            | 14 x 14                                                                                                                     | 51                                                                                                 | 51                                                           |
|                                                            | 15 x 15                                                                                                                     | 45                                                                                                 | 44,5                                                         |
|                                                            | 16 x 16                                                                                                                     | 39                                                                                                 | 39                                                           |
|                                                            | 20 x 20                                                                                                                     | 25                                                                                                 | 25                                                           |
| <b>11</b>                                                  | 15 x 15                                                                                                                     | 45                                                                                                 | 53,8                                                         |
| <b>12</b>                                                  | 16 x 16                                                                                                                     | 39                                                                                                 | 56,25                                                        |
|                                                            | 18 x 18                                                                                                                     | 31                                                                                                 | 44,5                                                         |
| <b>13</b>                                                  | 18 x 18                                                                                                                     | 31                                                                                                 | 52                                                           |
|                                                            | 20 x 20                                                                                                                     | 25                                                                                                 | 42,3                                                         |
| <b>14</b>                                                  | 18 x 18                                                                                                                     | 25                                                                                                 | 60,5                                                         |
|                                                            | 20 x 20                                                                                                                     | 31                                                                                                 | 49                                                           |

Fori quadri  
pari

Even square  
holes

Trous carrés  
pairs

| Foro quadro<br>mm<br>Square hole<br>mm<br>Trou carré<br>mm | Distanza centro<br>foro laterali<br>Side distance<br>from hole centre<br>Distance entre<br>le centre du trou<br>et le côtés | N. fori<br>dm <sup>2</sup><br>N. of holes<br>dm <sup>2</sup><br>N. de trous<br>par dm <sup>2</sup> | Percentuale<br>vuoto<br>%<br>of empty<br>Pourcentage<br>vide |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 15                                                         | 20 x 20                                                                                                                     | 25                                                                                                 | 56,25                                                        |
|                                                            | 22 x 22                                                                                                                     | 21                                                                                                 | 46,5                                                         |
|                                                            | 25 x 25                                                                                                                     | 16                                                                                                 | 36                                                           |
|                                                            | 30 x 30                                                                                                                     |                                                                                                    | 25                                                           |
| 16                                                         | 22 x 22                                                                                                                     | 206                                                                                                | 52,8                                                         |
|                                                            | 24 x 24                                                                                                                     | 173                                                                                                | 44,5                                                         |
|                                                            | 25 x 25                                                                                                                     | 160                                                                                                | 40,9                                                         |
| 18                                                         | 24 x 24                                                                                                                     | 173                                                                                                | 56,2                                                         |
|                                                            | 26 x 26                                                                                                                     | 148                                                                                                | 48                                                           |
| 20                                                         | 25 x 25                                                                                                                     | 160                                                                                                | 64                                                           |
|                                                            | 28 x 28                                                                                                                     | 127                                                                                                | 51                                                           |
|                                                            | 30 x 30                                                                                                                     | 111                                                                                                | 54                                                           |
| 22                                                         | 30 x 30                                                                                                                     | 111                                                                                                | 47,2                                                         |
| 24                                                         | 34 x 34                                                                                                                     | 98                                                                                                 | 56,2                                                         |
| 25                                                         | 30 x 30                                                                                                                     | 111                                                                                                | 69,4                                                         |
|                                                            | 32 x 32                                                                                                                     | 98                                                                                                 | 61                                                           |
|                                                            | 35 x 35                                                                                                                     | 87                                                                                                 | 51                                                           |
|                                                            | 40 x 40                                                                                                                     | 62                                                                                                 | 39                                                           |
| 28                                                         | 38 x 38                                                                                                                     | 69                                                                                                 | 54,2                                                         |
|                                                            | 42 x 42                                                                                                                     | 56                                                                                                 | 45                                                           |
| 30                                                         | 40 x 40                                                                                                                     | 62                                                                                                 | 56,2                                                         |
|                                                            | 42 x 42                                                                                                                     | 56                                                                                                 | 51                                                           |
|                                                            | 45 x 45                                                                                                                     | 49                                                                                                 | 44,5                                                         |
| 32                                                         | 45 x 45                                                                                                                     | 49                                                                                                 | 50,5                                                         |
| 35                                                         | 50 x 50                                                                                                                     | 40                                                                                                 | 49                                                           |
| 40                                                         | vari o 54 x 54                                                                                                              | 52                                                                                                 | 54,8                                                         |
|                                                            | vari o 60 x 60                                                                                                              | 28                                                                                                 | 56,2                                                         |
| 45                                                         | vari o 60 x 60                                                                                                              | 28                                                                                                 | 56,2                                                         |
| 50                                                         | vari o 70 x 70                                                                                                              | 20                                                                                                 | 51                                                           |
| 55                                                         | vari o 75 x 75                                                                                                              | 18                                                                                                 | 53,7                                                         |
| 60                                                         | vari o 80 x 80                                                                                                              | 15                                                                                                 | 56,2                                                         |
| 65                                                         | vari o 85 x 85                                                                                                              | 14                                                                                                 | 57                                                           |
| 70                                                         | vari o 90 x 90                                                                                                              | 12                                                                                                 | 60,4                                                         |
| 75                                                         | vari o 95 x 95                                                                                                              |                                                                                                    | 62,3                                                         |
| 80                                                         | vari o 100 x 100                                                                                                            | 10                                                                                                 | 64                                                           |
| 85                                                         | vari o 105 x 105                                                                                                            | 9                                                                                                  | 65,5                                                         |
| 90                                                         | vari o 120 x 120                                                                                                            | 7                                                                                                  | 56,2                                                         |

**Fori quadri  
pari**

**Even square  
holes**

**Trous carrés  
pairs**

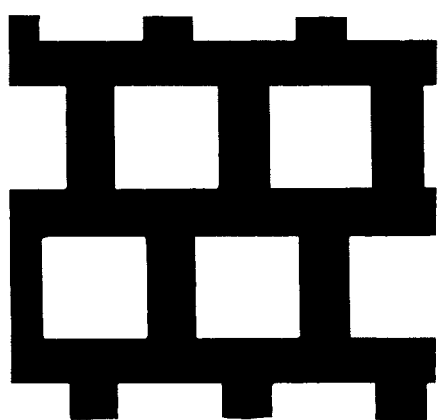
| <b>Foro quadro<br/>mm</b><br><b>Square hole<br/>mm</b><br><b>Trou carré<br/>mm</b> | <b>Distanza centro<br/>foro laterali</b><br><b>Side distance<br/>from hole centre</b><br><b>Distance entre<br/>le centre du trou<br/>et le côtés</b> | <b>N. fori<br/>dm<sup>2</sup></b><br><b>N. of holes<br/>dm<sup>2</sup></b><br><b>N. de trous<br/>par dm<sup>2</sup></b> | <b>Percentuale<br/>vuoto</b><br><b>%<br/>of empty</b><br><b>Pourcentage<br/>vide</b> |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>100</b>                                                                         | vari o 130 x 130                                                                                                                                     | 6                                                                                                                       | 59                                                                                   |
| <b>110</b>                                                                         | vari o 150 x 150                                                                                                                                     | 4                                                                                                                       | 53,7                                                                                 |
| <b>120</b>                                                                         | vari o 160 x 160                                                                                                                                     | 4                                                                                                                       | 56,2                                                                                 |
| <b>125</b>                                                                         | vari o 165 x 165                                                                                                                                     | 3                                                                                                                       | 57,4                                                                                 |
| <b>130</b>                                                                         | vari o 170 x 170                                                                                                                                     | 3                                                                                                                       | 58,4                                                                                 |
| <b>150</b>                                                                         | vari o 200 x 200                                                                                                                                     | 2,5                                                                                                                     | 56,2                                                                                 |

# FORI QUADRI ALTERNATI *ALTERNATED SQUARE HOLES* TROUS CARRES A DISPOSITION PAIRE

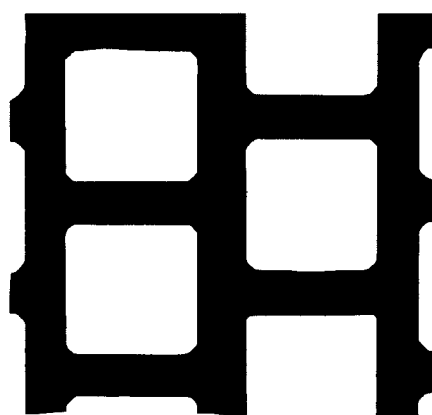
Si eseguono su ordinazione.

*Manufactured on request.*

Ils sont réalisés sur commande.



mm 12 × 12



mm 15 × 15

# Fori quadri alternati

## Alternate square holes

## Trous carrés alternés

| Foro quadro<br>mm<br>Square hole<br>mm<br>Trou carré<br>mm | Distanza centro<br>foro laterali<br>Side distance<br>from hole centre<br>Distance entre<br>le centre du trou<br>et le côtés | N. fori<br>dm <sup>2</sup><br>N. of holes<br>dm <sup>2</sup><br>N. de trous<br>par dm <sup>2</sup> | Percentuale<br>vuoto<br>%<br>of empty<br>Pourcentage<br>vide |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 3                                                          | 5 x 10                                                                                                                      | 400                                                                                                | 36                                                           |
|                                                            | 6 x 12                                                                                                                      | 278                                                                                                | 25                                                           |
|                                                            | 8 x 16                                                                                                                      | 157                                                                                                | 14                                                           |
| 3,5                                                        | 5 x 10                                                                                                                      | 400                                                                                                | 49                                                           |
|                                                            | 6 x 12                                                                                                                      | 278                                                                                                | 34                                                           |
| 4                                                          | 6 x 12                                                                                                                      | 278                                                                                                | 44,5                                                         |
|                                                            | 7 x 14                                                                                                                      | 204                                                                                                | 33                                                           |
|                                                            | 8 x 16                                                                                                                      | 157                                                                                                | 25                                                           |
|                                                            | 10 x 20                                                                                                                     | 100                                                                                                | 16                                                           |
| 4,5                                                        | 7,5 x 15                                                                                                                    | 178                                                                                                | 36                                                           |
| 5                                                          | 7 x 14                                                                                                                      | 204                                                                                                | 51                                                           |
|                                                            | 7,5 x 15                                                                                                                    | 178                                                                                                | 44                                                           |
|                                                            | 8 x 16                                                                                                                      | 156                                                                                                | 39                                                           |
|                                                            | 9 x 18                                                                                                                      | 123                                                                                                | 31                                                           |
| 5,5                                                        | 8,5 x 17                                                                                                                    | 138                                                                                                | 41,8                                                         |
| 6                                                          | 8 x 16                                                                                                                      | 157                                                                                                | 56,2                                                         |
|                                                            | 9 x 18                                                                                                                      | 123                                                                                                | 44                                                           |
|                                                            | 10 x 20                                                                                                                     | 100                                                                                                | 36                                                           |
| 7                                                          | 10 x 20                                                                                                                     | 100                                                                                                | 49                                                           |
|                                                            | 12 x 24                                                                                                                     | 69                                                                                                 | 34                                                           |
| 8                                                          | 12 x 24                                                                                                                     | 69                                                                                                 | 34                                                           |
|                                                            | 13 x 26                                                                                                                     | 59                                                                                                 | 38                                                           |
|                                                            | 15 x 30                                                                                                                     | 45                                                                                                 | 28,5                                                         |
| 9                                                          | 14 x 28                                                                                                                     | 51                                                                                                 | 41,3                                                         |
| 10                                                         | 13 x 26                                                                                                                     | 59                                                                                                 | 59                                                           |
|                                                            | 14 x 28                                                                                                                     | 51                                                                                                 | 54                                                           |
|                                                            | 15 x 30                                                                                                                     | 45                                                                                                 | 44                                                           |
|                                                            | 18 x 36                                                                                                                     | 31                                                                                                 | 31                                                           |
| 11                                                         | 15 x 30                                                                                                                     | 45                                                                                                 | 53,7                                                         |
| 12                                                         | 16 x 32                                                                                                                     | 64                                                                                                 | 56,2                                                         |
|                                                            | 18 x 36                                                                                                                     | 31                                                                                                 | 44                                                           |
|                                                            | 20 x 40                                                                                                                     | 25                                                                                                 | 36                                                           |
|                                                            | 22 x 44                                                                                                                     | 21                                                                                                 | 29,7                                                         |
| 13                                                         | 20 x 40                                                                                                                     | 25                                                                                                 | 42                                                           |

**Fori quadri  
alternati**

**Alternate  
square holes**

**Trous carrés  
alternés**

| Foro quadro<br>mm<br>Square hole<br>mm<br>Trou carré<br>mm | Distanza centro<br>foro laterali<br>Side distance<br>from hole centre<br>Distance entre<br>le centre du trou<br>et le côtés | N. fori<br>dm <sup>2</sup><br>N. of holes<br>dm <sup>2</sup><br>N. de trous<br>par dm <sup>2</sup> | Percentuale<br>vuoto<br>%<br>of empty<br>Pourcentage<br>vide |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 14                                                         | 18 x 36                                                                                                                     | 31                                                                                                 | 60,5                                                         |
|                                                            | 20x40                                                                                                                       | 25                                                                                                 | 40                                                           |
| 15                                                         | 22 x 44                                                                                                                     | 21                                                                                                 | 46                                                           |
|                                                            | 24 x 48                                                                                                                     | 18                                                                                                 | 39                                                           |
|                                                            | 25 x 50                                                                                                                     | 16                                                                                                 | 36                                                           |
| 16                                                         | 20 x 40                                                                                                                     | 25                                                                                                 | 64                                                           |
|                                                            | 24 x 48                                                                                                                     | 18                                                                                                 | 44                                                           |
| 17                                                         | 25 x 50                                                                                                                     | 16                                                                                                 | 46,2                                                         |
| 18                                                         | 25 x 50                                                                                                                     | 16                                                                                                 | 52                                                           |
|                                                            | 28 x 56                                                                                                                     | 13                                                                                                 | 41,3                                                         |
| 19                                                         | 26 x 52                                                                                                                     | 15                                                                                                 | 53,4                                                         |
| 20                                                         | 28 x 56                                                                                                                     | 13                                                                                                 | 51                                                           |
| 20                                                         | 30 x 60                                                                                                                     | 11                                                                                                 | 44                                                           |
| 22                                                         | 30 x 60                                                                                                                     |                                                                                                    | 53,8                                                         |
| 24                                                         | 34 x 68                                                                                                                     | 9                                                                                                  | 50                                                           |
| 25                                                         | 35 x 70                                                                                                                     | 8                                                                                                  | 51                                                           |
|                                                            | 40 x 80                                                                                                                     | 6,5                                                                                                | 39                                                           |
| 28                                                         | 45 x 90                                                                                                                     | 5                                                                                                  | 38,7                                                         |
|                                                            | 48 x 94                                                                                                                     | 4,5                                                                                                | 34                                                           |
| 30                                                         | 45 x 90                                                                                                                     | 5                                                                                                  | 44,5                                                         |
|                                                            | 50 x 100                                                                                                                    | 4                                                                                                  | 36                                                           |
|                                                            | 60 x 120                                                                                                                    | 3                                                                                                  | 25                                                           |
| 35                                                         | 50 x 100                                                                                                                    | 4                                                                                                  | 49                                                           |
| 40                                                         | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 45                                                         | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 50                                                         | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 55                                                         | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 60                                                         | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 70                                                         | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 80                                                         | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 90                                                         | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 100                                                        | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 105                                                        | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 110                                                        | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 120                                                        | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 130                                                        | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 140                                                        | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |
| 150                                                        | diversi                                                                                                                     | diversi                                                                                            | diversi                                                      |

# FORI QUADRI IN DIAGONALE

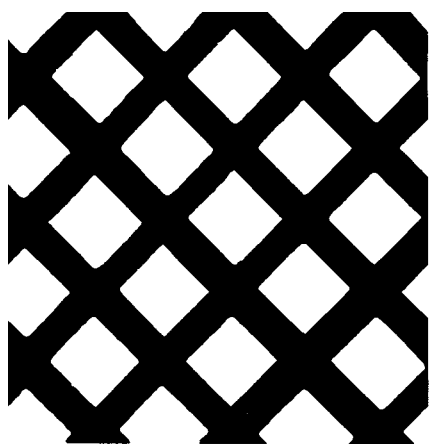
## SQUARE HOLES SET IN DIAGONAL

## TROUS CARRES EN DIAGONALE

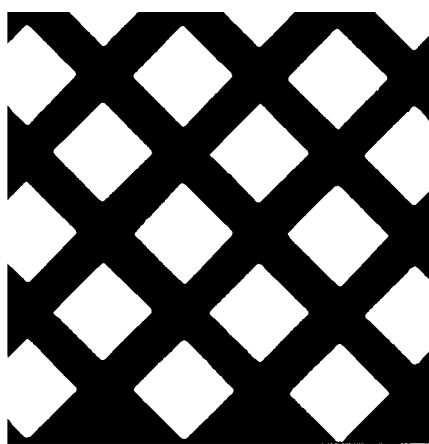
Si eseguono su ordinazione.

*Manufactured on request.*

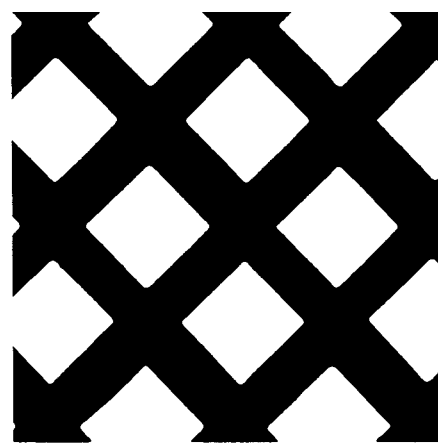
Ils sont réalisés sur commande.



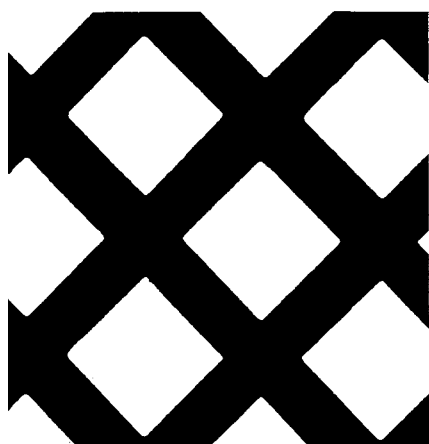
mm 5 x 5



mm 6,50 x 6,50



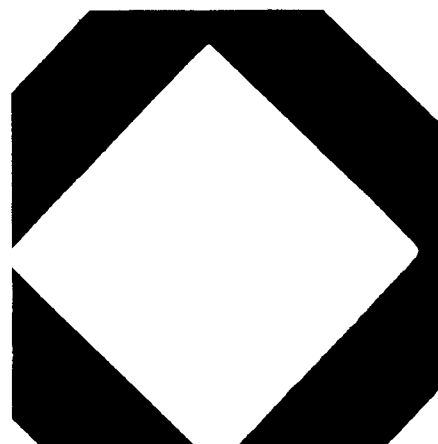
mm 8 x 8



mm 10 x 10



mm 12 x 12



mm 25 x 25

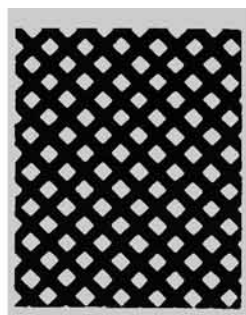
□ 1



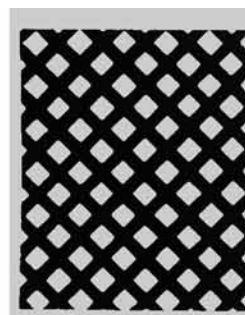
□ 1,5



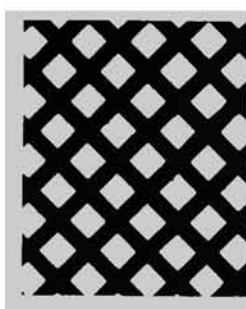
□ 2



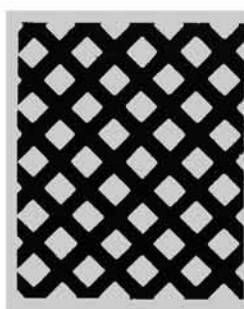
□ 2,5



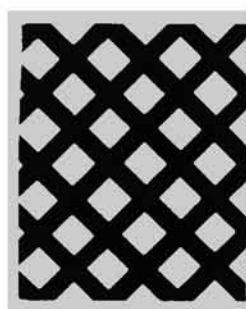
□ 3



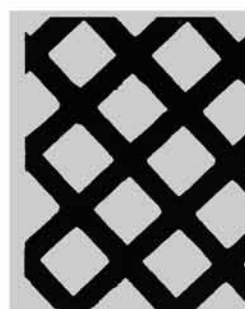
□ 3,5



□ 4



□ 6



□ 7



□ 8



□ 9



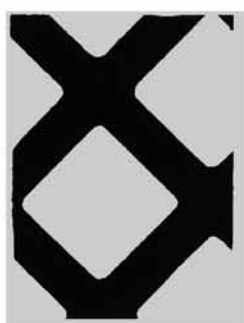
□ 10



□ 13



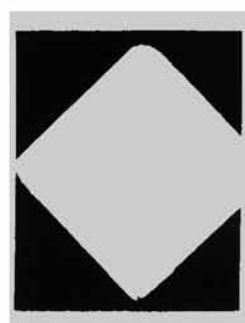
□ 15



□ 20



□ 25



# Fori quadri in diagonale

## Square holes set in diagonal

## Trous carrés en diagonale

| Foro quadro<br>mm<br>Square hole<br>mm<br>Trou carré<br>mm | Distanza centro<br>foro laterali<br>Side distance<br>from hole centre<br>Distance entre<br>le centre du trou<br>et le côtés | N. fori<br>dm <sup>2</sup><br>N. of holes<br>dm <sup>2</sup><br>N. de trous<br>par dm <sup>2</sup> | Percentuale<br>vuoto<br>%<br>of empty<br>Pourcentage<br>vide |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 2,5                                                        | 4,5 x 6,4                                                                                                                   | 488                                                                                                | 30,5                                                         |
|                                                            | 5 x 7                                                                                                                       | 408                                                                                                | 25,5                                                         |
| 3                                                          | 5 x 7                                                                                                                       | 408                                                                                                | 36,7                                                         |
|                                                            | 6 x 8,5                                                                                                                     | 276                                                                                                | 25                                                           |
|                                                            | 8 x 11,2                                                                                                                    | 159                                                                                                | 14,3                                                         |
| 3,5                                                        | 5,5 x 7,8                                                                                                                   | 328                                                                                                | 40                                                           |
|                                                            | 6 x 8,5                                                                                                                     | 276                                                                                                | 34                                                           |
| 4                                                          | 7 x 10                                                                                                                      | 200                                                                                                | 32                                                           |
|                                                            | 8 x 11,2                                                                                                                    | 159                                                                                                | 25,5                                                         |
|                                                            | 9 x 12,7                                                                                                                    | 124                                                                                                | 20                                                           |
|                                                            | 10 x 14                                                                                                                     | 102                                                                                                | 16,3                                                         |
| 4,5                                                        | 8 x 11,2                                                                                                                    | 159                                                                                                | 32,2                                                         |
|                                                            | 9 x 12,7                                                                                                                    | 124                                                                                                | 25                                                           |
| 5                                                          | 8 x 11,2                                                                                                                    | 159                                                                                                | 39,8                                                         |
|                                                            | 9 x 12,7                                                                                                                    | 124                                                                                                | 31                                                           |
|                                                            | 10 x 14                                                                                                                     | 102                                                                                                | 25,5                                                         |
|                                                            | 11 x 15,5                                                                                                                   | 83                                                                                                 | 20,8                                                         |
| 5,25                                                       | 9 x 12,7                                                                                                                    | 124                                                                                                | 34                                                           |
| 5,5                                                        | 10 x 14                                                                                                                     | 102                                                                                                | 30,8                                                         |
| 6                                                          | 10 x 14                                                                                                                     | 102                                                                                                | 36,7                                                         |
|                                                            | 11 x 15,5                                                                                                                   | 83                                                                                                 | 30                                                           |
|                                                            | 12 x 17                                                                                                                     | 69                                                                                                 | 25                                                           |
|                                                            | 15 x 21,2                                                                                                                   | 44,5                                                                                               | 16                                                           |
|                                                            | 20 x 28                                                                                                                     | 25                                                                                                 | 9                                                            |
| 7                                                          | 11 x 15,5                                                                                                                   | 83                                                                                                 | 40,8                                                         |
|                                                            | 12 x 17                                                                                                                     | 69                                                                                                 | 34                                                           |
| 8                                                          | 12 x 17                                                                                                                     | 69                                                                                                 | 44,2                                                         |
|                                                            | 13 x 18,5                                                                                                                   | 58                                                                                                 | 38                                                           |
|                                                            | 14 x 19,8                                                                                                                   | 51                                                                                                 | 32,6                                                         |
|                                                            | 15 x 21,2                                                                                                                   | 44,5                                                                                               | 28,5                                                         |
| 9                                                          | 14 x 20                                                                                                                     | 50                                                                                                 | 40                                                           |
|                                                            | 15 x 21,2                                                                                                                   | 44,5                                                                                               | 45                                                           |
|                                                            | 16 x 22,6                                                                                                                   | 39                                                                                                 | 39                                                           |
|                                                            | 18 x 25,4                                                                                                                   | 31                                                                                                 | 31                                                           |
|                                                            | 20 x 28                                                                                                                     | 25                                                                                                 | 25,5                                                         |
| 10                                                         |                                                                                                                             |                                                                                                    |                                                              |

**Fori quadri  
in diagonale**

**Square holes  
sei in diagonal**

**Trous carrés  
en diagonale**

| Foro quadro<br>mm<br><i>Square hole<br/>mm</i><br>Trou carré<br>mm | Distanza centro<br>foro laterali<br><i>Side distance<br/>from hole centre</i><br>Distance entre<br>le centre du trou<br>et le côtés | N. fori<br>dm <sup>2</sup><br><i>N. of holes<br/>dm<sup>2</sup></i><br>N. de trous<br>par dm <sup>2</sup> | Percentuale<br>vuoto<br>%<br><i>of empty</i><br>Pourcentage<br>vide |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 12                                                                 | 19 x 27                                                                                                                             | 28                                                                                                        | 40                                                                  |
| 14                                                                 | 20 x 28                                                                                                                             | 25                                                                                                        | 62,7                                                                |
| 15                                                                 | 22 x 31                                                                                                                             | 21                                                                                                        | 46,8                                                                |
|                                                                    | 22 x 32,5                                                                                                                           | 19                                                                                                        | 42                                                                  |
| 16                                                                 | 28 x 40                                                                                                                             | 12,5                                                                                                      | 32                                                                  |
|                                                                    | 30 x 42                                                                                                                             | 11,3                                                                                                      | 29                                                                  |
| 18                                                                 | 26 x 36,6                                                                                                                           | 15                                                                                                        | 52,8                                                                |
|                                                                    | 28 x 40                                                                                                                             | 12,5                                                                                                      | 40,5                                                                |
|                                                                    | 30 x 42                                                                                                                             | 11,3                                                                                                      | 36,7                                                                |
| 19                                                                 | 28 x 40                                                                                                                             | 12,5                                                                                                      | 45,1                                                                |
| 20                                                                 | 28 x 40                                                                                                                             | 12,5                                                                                                      | 50                                                                  |
|                                                                    | 30 x 42                                                                                                                             | 11,3                                                                                                      | 45,3                                                                |
|                                                                    | 35 x 50                                                                                                                             | 8                                                                                                         | 32                                                                  |
| 22                                                                 | 30 x 42                                                                                                                             | 11,3                                                                                                      | 54,8                                                                |
| 24                                                                 | 32 x 45                                                                                                                             | 10                                                                                                        | 56,8                                                                |
|                                                                    | 34 x 48                                                                                                                             | 8,5                                                                                                       | 50                                                                  |
| 25                                                                 | 35 x 50                                                                                                                             | 8                                                                                                         | 50                                                                  |
|                                                                    | 38 x 54                                                                                                                             | 7                                                                                                         | 42,8                                                                |
|                                                                    | 40 x 56                                                                                                                             | 6,3                                                                                                       | 39,8                                                                |
| 28                                                                 | 38 x 54                                                                                                                             | 7                                                                                                         | 53,7                                                                |
|                                                                    | 40 x 56                                                                                                                             | 6,3                                                                                                       | 50                                                                  |
| 30                                                                 | 45 x 63,5                                                                                                                           | 4,9                                                                                                       | 44,6                                                                |
|                                                                    | 48 x 67,6                                                                                                                           | 4,3                                                                                                       | 39,3                                                                |
|                                                                    | 50 x 70                                                                                                                             | 4                                                                                                         | 36,7                                                                |
| 35                                                                 | 48 x 67,6                                                                                                                           | 4,3                                                                                                       | 53,6                                                                |
|                                                                    | 50 x 70                                                                                                                             | 4                                                                                                         | 50                                                                  |
| 40                                                                 | 50 x 70                                                                                                                             | 4                                                                                                         | 65,3                                                                |
|                                                                    | 60 x 85                                                                                                                             | 2,7                                                                                                       | 44,2                                                                |
| 45                                                                 | 65 x 92                                                                                                                             | 2,3                                                                                                       | 47,8                                                                |
| 50                                                                 | 70 x 100                                                                                                                            | 2                                                                                                         | 50                                                                  |
| 55                                                                 | diversi                                                                                                                             | diversi                                                                                                   | diversi                                                             |
| 60                                                                 | diversi                                                                                                                             | diversi                                                                                                   | diversi                                                             |
| 65                                                                 | diversi                                                                                                                             | diversi                                                                                                   | diversi                                                             |
| 70                                                                 | diversi                                                                                                                             | diversi                                                                                                   | diversi                                                             |
| 75                                                                 | diversi                                                                                                                             | diversi                                                                                                   | diversi                                                             |
| 80                                                                 | diversi                                                                                                                             | diversi                                                                                                   | diversi                                                             |
| 90                                                                 | diversi                                                                                                                             | diversi                                                                                                   | diversi                                                             |
| 100                                                                | diversi                                                                                                                             | diversi                                                                                                   | diversi                                                             |
| 110                                                                | diversi                                                                                                                             | diversi                                                                                                   | diversi                                                             |

**Fori quadri  
in diagonale**

**Square holes  
sei in diagonal**

**Trous carrés  
en diagonale**

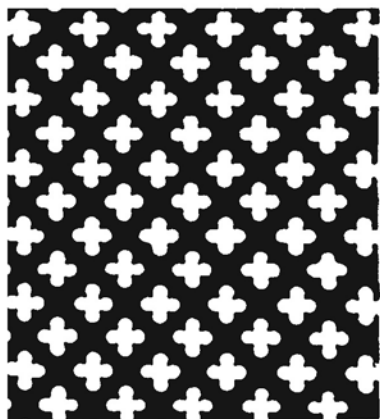
| <b>Foro quadro<br/>mm</b><br><b>Square hole<br/>mm</b><br><b>Trou carré<br/>mm</b> | <b>Distanza centro<br/>foro laterali</b><br><b>Side distance<br/>from hole centre</b><br><b>Distance entre<br/>le centre du trou<br/>et le côtés</b> | <b>N. fori<br/>dm<sup>2</sup></b><br><b>N. of holes<br/>dm<sup>2</sup></b><br><b>N. de trous<br/>par dm<sup>2</sup></b> | <b>Percentuale<br/>vuoto</b><br><b>%<br/>of empty</b><br><b>Pourcentage<br/>vide</b> |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>120</b>                                                                         | diversi                                                                                                                                              | diversi                                                                                                                 | diversi                                                                              |
| <b>130</b>                                                                         | diversi                                                                                                                                              | diversi                                                                                                                 | diversi                                                                              |
| <b>140</b>                                                                         | diversi                                                                                                                                              | diversi                                                                                                                 | diversi                                                                              |
| <b>150</b>                                                                         | diversi                                                                                                                                              | diversi                                                                                                                 | diversi                                                                              |

# LAMIÈRE FORATE CON FORI FANTASIA

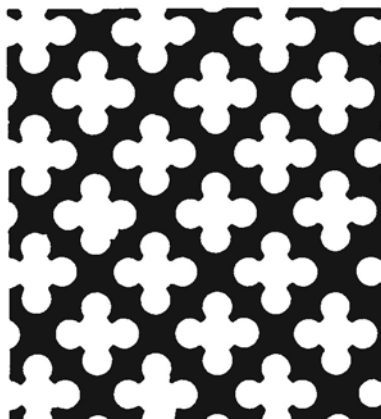
## PERFORATED SHEETS WITH FANCY HOLES

### TOLES PERFOREES AVEC TROUS FANTASIE

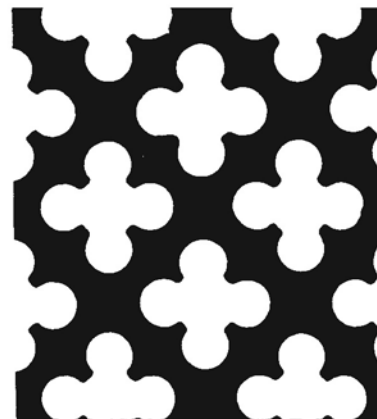
A1



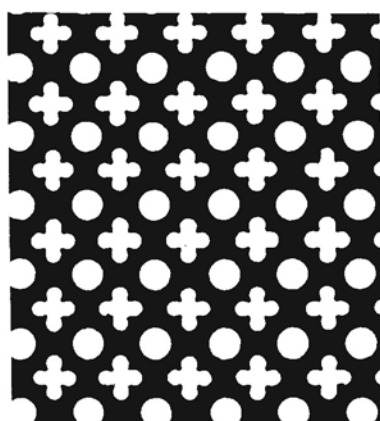
A2



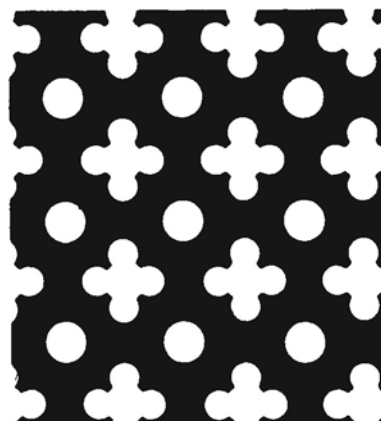
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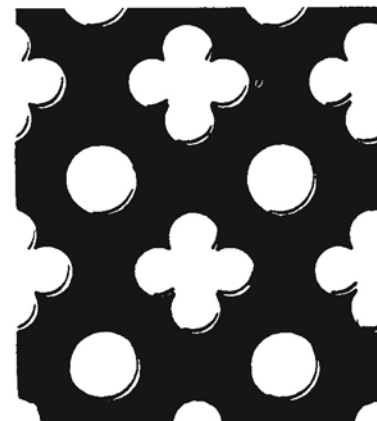
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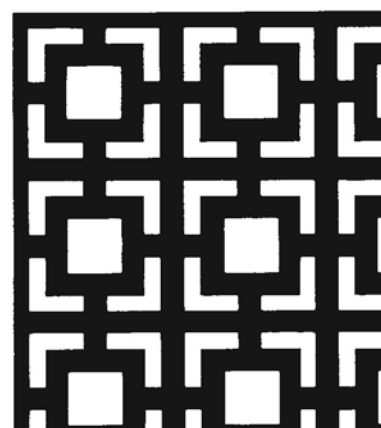
A5



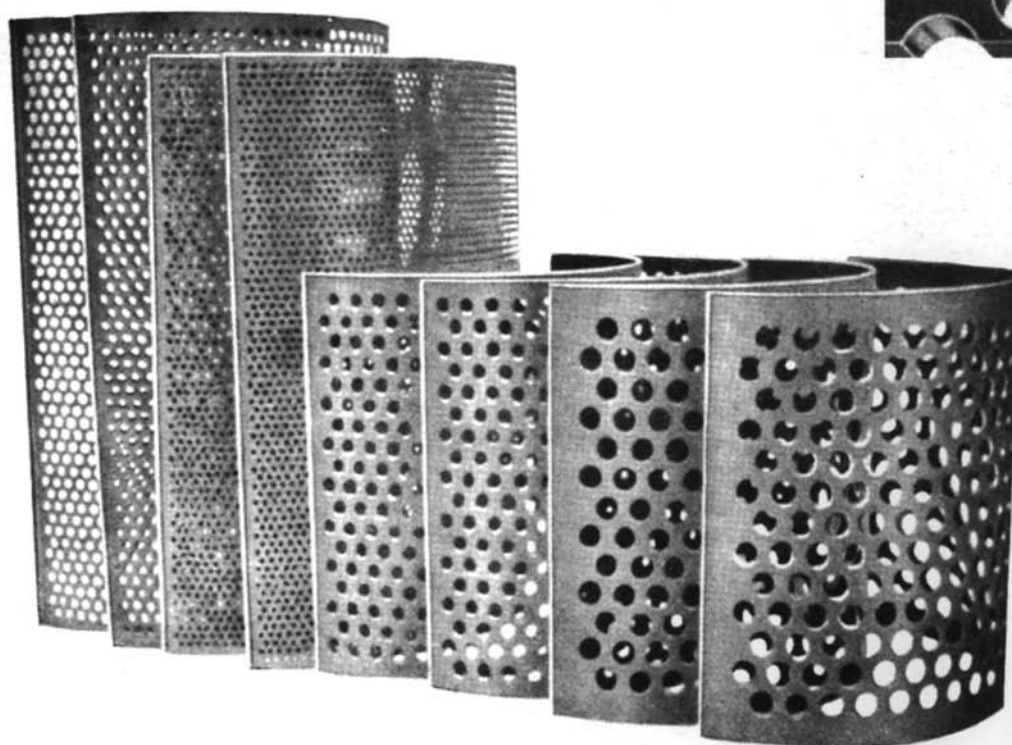
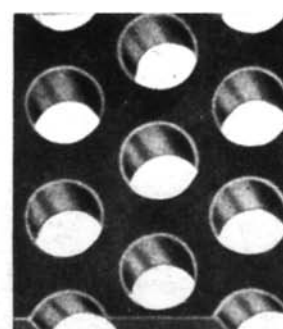
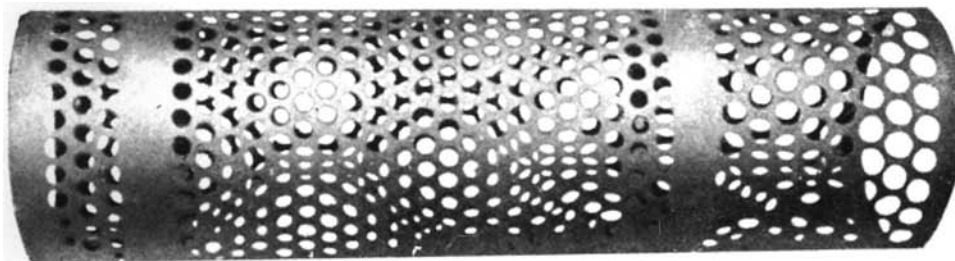
A6



A7



# **LAMIERE CURVATE PER VAGLI** ***CURVED SHEETS FOR SCREENS*** **TOLES COURBEES POUR TAMIS**



# LAMIERE BUGNATE INDENTED SHEETS TOLES GAUFFREES

Si eseguono in Ferro A00 - Acciaio Inox - ecc.

*Manufactured in Iron A00 - Stainless steel - etc.*

Elles sont réalisés en fer A00 - Acier inox - etc.

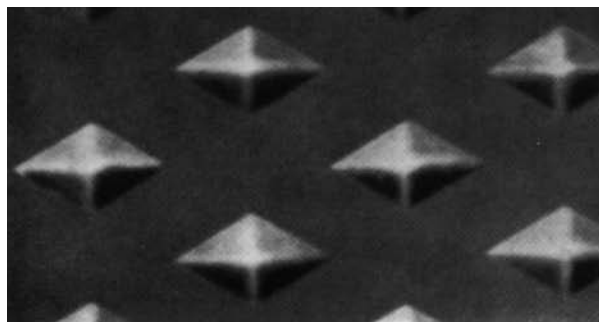


Fig. A - A rombo (mm 10 x 20)  
Diamond (mm 10 x 20)  
Losange (mm 10 x 20)

N.B.: è possibile ottenere  
le stesse lamiere  
con fori di scarico

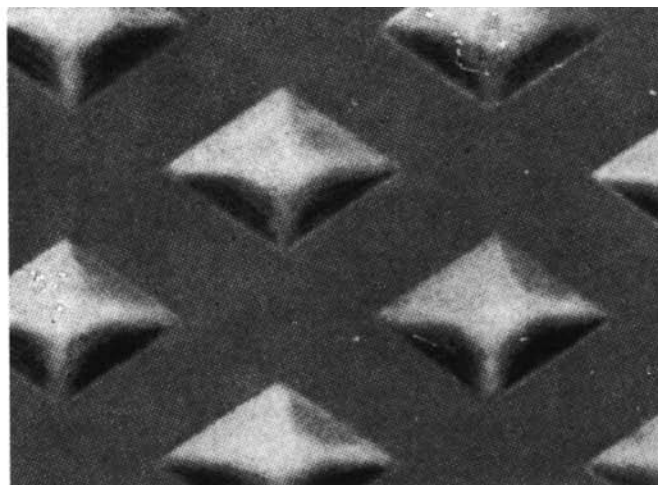


Fig. B - A rombo (mm 18 x 30)  
Diamond (mm 18 x 30)  
Losange (mm 18 x 30)

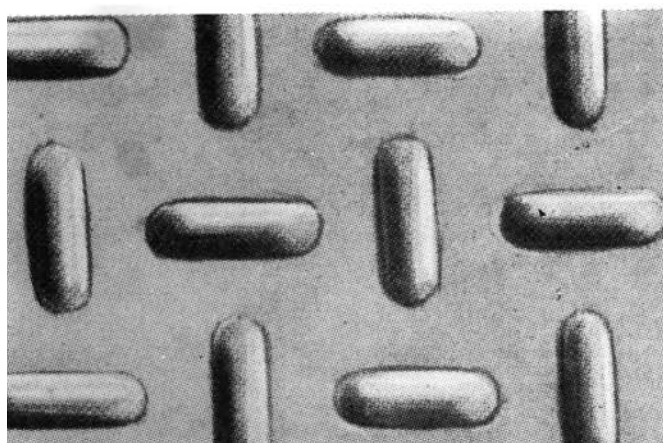


Fig. C - Su richiesta "a bastoncino"  
On request "little stick"  
Sur demande "batonnet"

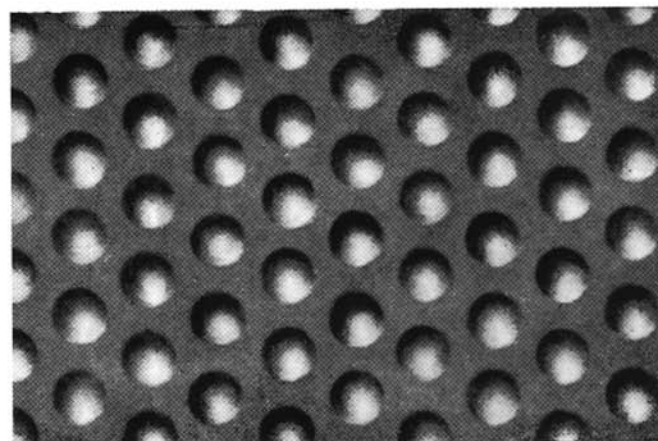


Fig. D - Tondo Ø 5 max sp. 20/10  
Round Ø 5 max thickness 20/10  
Rond Ø 5 max sp. 20/10

Tipi normalmente pronti a magazzino  
formato 1000 x 2000 in ferro A00 - Acciaio Inox  
*Types normally available in stock size 1000 x 2000  
in A00 iron - Stainless steel*

Types normalement prêts à l'entrepôt en fer A00  
Acier inox dans les dimensions 1000 x 2000

| BUGNA<br>INDENT<br>BOSSE | SPESSORE IN MILLIMETRI<br>THICKNESS IN MM<br>EPAISSEUR EN MM                                      |
|--------------------------|---------------------------------------------------------------------------------------------------|
| A                        | 1 - 1,5 - 2 - 3                                                                                   |
| B                        | 1 - 1,5 - 2 - 3 - 4                                                                               |
| C                        | a richiesta - on request - sur demande                                                            |
| D                        | Tondo Ø 5 max sp. 20/10<br>Round diam. 5 max thickness 20/10<br>Ronde diam. 5 epaisseur max 20/10 |
| E                        | 1 - 1,5 - 2 - 3 - 4                                                                               |

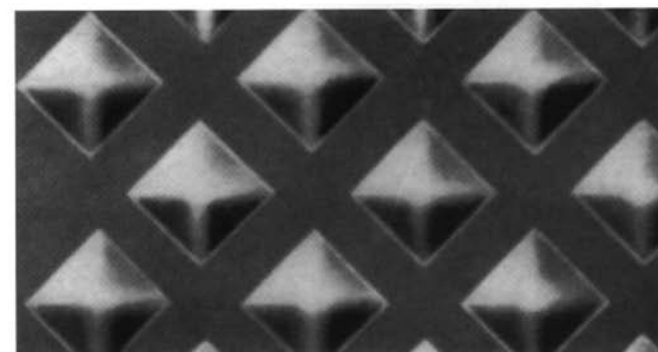


Fig. E - Quadro / Square / Carre

## LAMIERE ACCIAIO INOSSIDABILE MANDORLATE

### STAINLESS STEEL TEAR PLATES

### TOLES EN ACIER INOXYDABLE LARMEES

Le lamiere a mandorla prodotte in acciaio inossidabile austenitico (304 - 304L - 316 - 316L) presentano un'eccezionale attitudine a subire deformazioni a freddo grazie agli elevati valori di allungamento.

Si autoprotettono anche dopo ripetuti maltrattamenti superficiali, non necessitano di manutenzione e pertanto ne permettono l'impiego per piani di calpestio anche in ambienti industriali con presenza di agenti corrosivi; data la struttura austenitica, sono facilmente saldabili.

Aisi: 304 - 304L - 316\* - 316L\*

Spessori: mm 3-3,5-4-4,5-5-5,5-6-7

Larghezze: mm 1000 - 1250

Spess. mandorla:

minimo mm 1,39 per spessori da 3 a 4,5 mm

minimo mm 1,52 per spessori da 5 a 7 mm

\* spessore minimo 4 mm.

Tear Plates are produced in austenitic stainless steel (304 - 304L - 316 - 316L) and they have a high degree of deformation thanks to the value of lengthening.

This item don't need any maintenance, thanks to its high resistance against superficial ill-treatment.

For said its use concern covering floor in an industrial context and in the presence of corrosive agents.

As they have an austenitic structure these plates are very easy to weld.

Aisi: 304 - 304L - 316\* - 316L\*

Thickness:

mm 3-3,5-4-4,5-5-5,5-6-7

Width: mm 1000 - 1250

Thickness of the tear:

minimum mm 1,39 thickness from 3 to 4,5 mm

minimum mm 1,52 thickness from 5 to 7 mm

\* thickness mini 4 mm.

Les tôles larmées produites en acier inoxydable austénitique (304 - 304L - 316 - 316L)

présentent un haut degré de déformation à froid grâce à sa haute résistance contre la maltraitance superficielle.

Pour cette raison l'application plus répandue concerne revêtements pour étages dans un environnement industriel et en présence d'agents corrosifs. Etant donné sa structure austénique les tôles sont faciles à souder.

Aisi: 304 - 304L - 316\* - 316L\*

Epaisseurs:

mm 3-3,5-4-4,5-5-5,5-6-7

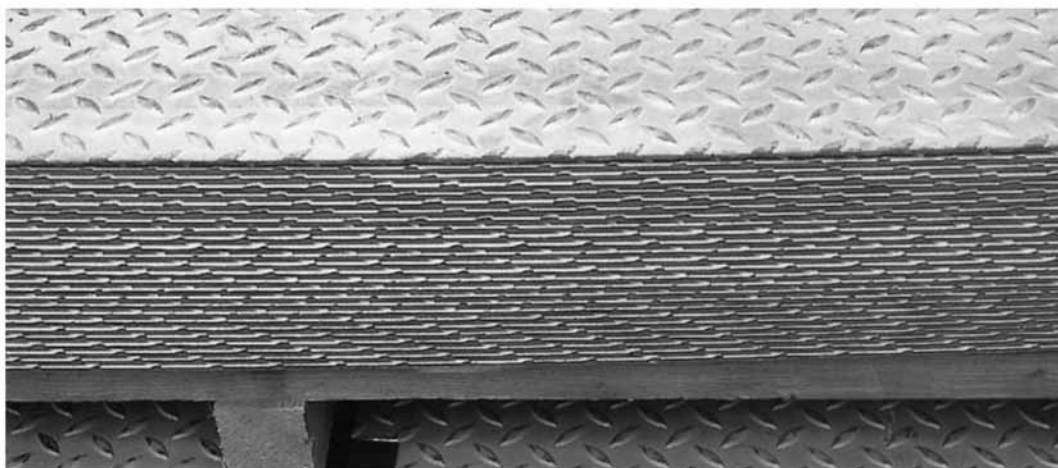
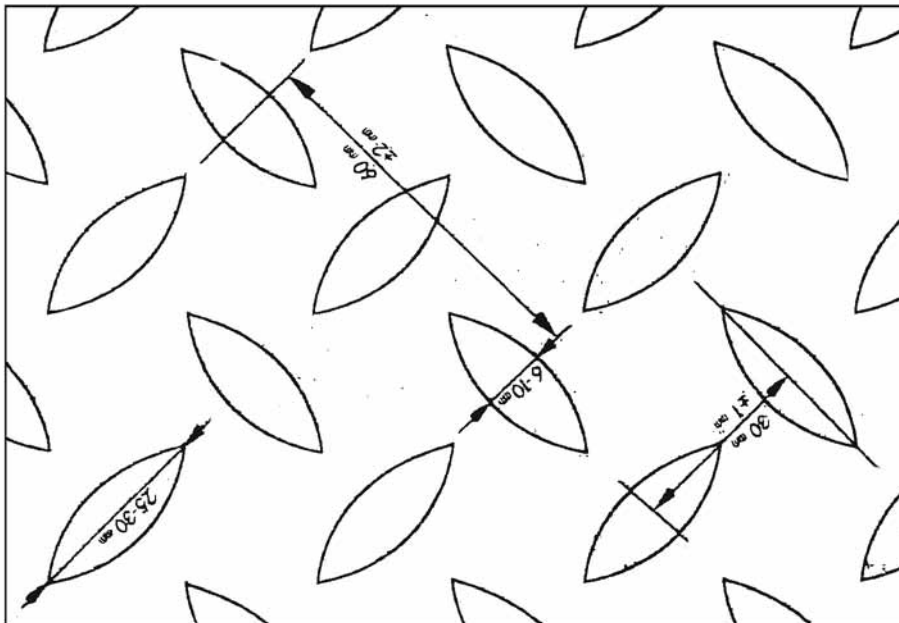
Largeurs: mm 1000 - 1250

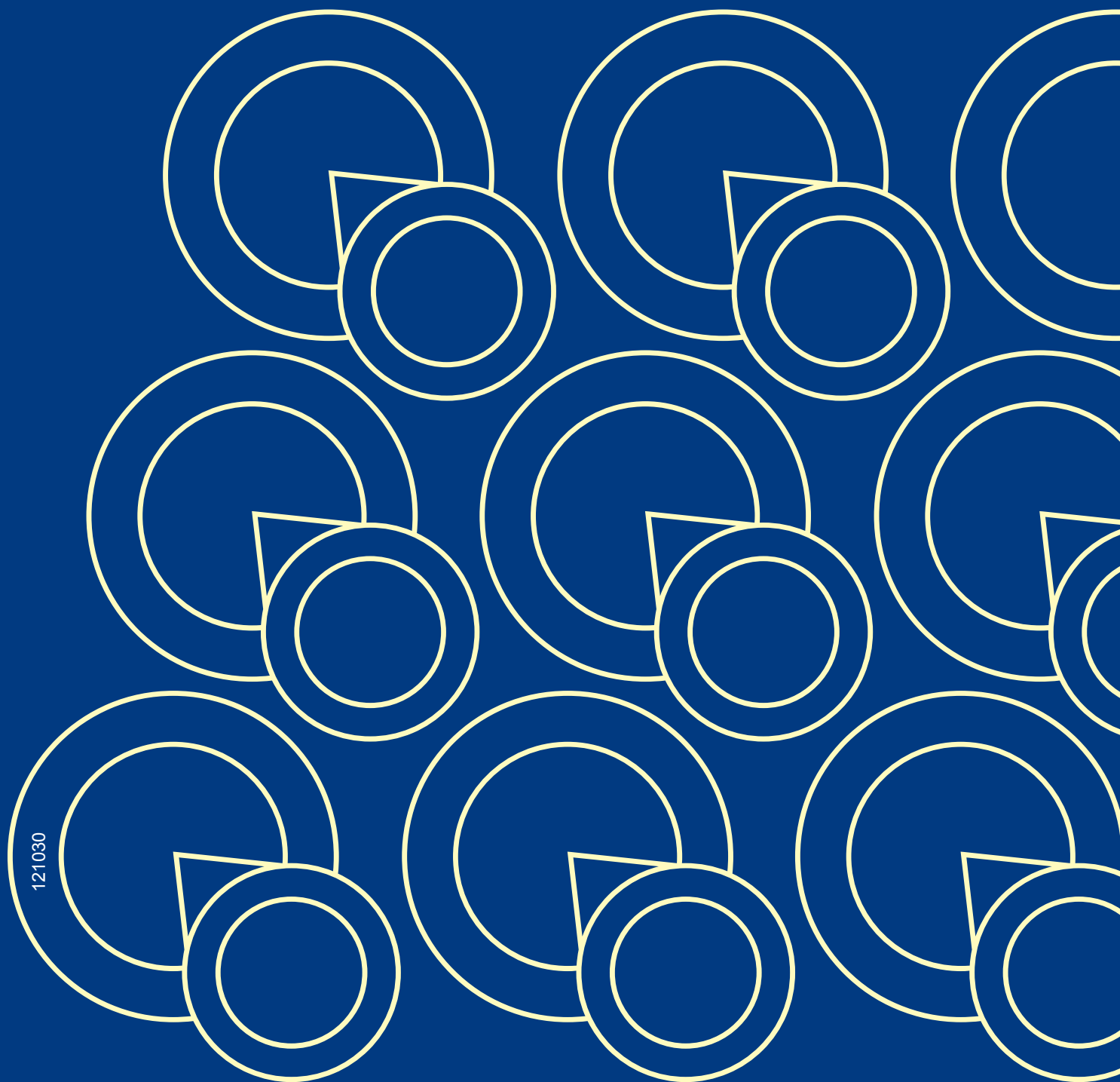
Épaisseur de la larme:

minimum mm 1,39 pour épaisseur de 3 à 4,5 mm

minimum mm 1,52 pour épaisseur de 5 à 7 mm

\* épaisseur mini 4 mm.





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[www.tubeco.it](http://www.tubeco.it)