



LAMIERE PERFORATE

PERFORATED SHEETS
TOLES PERFOREES

CARATTERISTICHE

Le lamiere perforate grazie alle loro particolari proprietà di trasparenza ed elevata resistenza meccanica sono impiegate ogniqualvolta sia necessario filtrare, separare, ridurre il rumore, regolare il passaggio di gas o liquidi. Esse sono realizzabili con forature standard o siamo in grado di costruire nuovi stampi necessari al cliente. Le forature possono essere eseguite su pannelli o su coils.

CHARACTERISTICS

Perforated plates thanks to their special transparent property as well as an high mechanical strength are used every time you need to filter, to separate, to reduce noise, to adjust fluid or gas transfer. Perforations can be standard or tailor made according to our customer needs. We can also produce a new tool if need be. We can punch sheets or coils.

CARACTERISTIQUES

Les tôles perforées grâce à leurs propriétés de transparence ainsi que d'haute résistance mécanique sont employées chaque fois que nous devons filtrer, séparer, réduire le bruit, ajuster le passage des liquides ou de gaz. Les poinçonnages peuvent être standard ou nous pouvons fabriquer d'outillage spécialement pour nos clients, si nécessaire. Les tôles perforées sont réalisées en feuilles ou en bobines.

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DESCRIZIONE

Le lamiere perforate vengono utilizzate in diversi settori, edilizia, industria chimica, agroalimentare automobilistica, mineraria, cave e architettura.

MATERIALI UTILIZZATI

- Acciaio al carbonio
- Acciaio zincato
- Acciaio inox
(AISI 304 – AISI 316 – AISI 309-AISI 310- AISI 321-AISI 409-AISI 430- AISI 904)
- Alluminio (Lega 1050 e 5754)
- Inconel, Hastelloy, Monel
- Cupronichel, Nichel,
- Titanio
- Duplex, Superduplex
- Acciai alta resistenza
(FE510 – S700 – VELDOX 700)
- Rame
- Ottone
- Polipropilene, Polietilene, Pvc

DIMENSIONI

Le lamiere hanno uno spessore minimo di 0,4 mm fino a 20 mm e vengono prodotte nei formati commerciali o con particolari misure a disegno.

DESCRIPTION

Perforated sheets are used in different sectors, construction, chemicals, food processing, automotive, mining, quarries and architecture.

MATERIALS USED

- Carbon steel
- Galvanised steel
- Stainless steel
(AISI 304 – AISI 316 – AISI 309-AISI 310- AISI 321-AISI 409-AISI 430- AISI 904)
- Aluminium (Alloy 1050 e 5754)
- Inconel, Hastelloy, Monel
- Cupro, Nickel
- Titanium
- Duplex, Superduplex
- High-strength steels
(FE510 - S700 – VELDOX 700)
- Copper
- Brass
- Polypropylene, Polyethylene, PVC

DIMENSIONS

The metal sheets have a minimum thickness of 0.4 mm up to 20 mm and are produced in commercial formats or with special custom measurements.

DESCRIPTION

Les tôles perforées trouvent des emplois divers dans des secteurs tels que, le bâtiment, l'industrie chimique, l'agro-alimentaire, l'automobile, l'industrie minière et d'extraction et l'architecture.

TYPE DE MATIERES

- Acier au carbone
- Acier zingué
- Acier inox
(AISI 304 – AISI 316 – AISI 309-AISI 310- AISI 321-AISI 409-AISI 430- AISI 904)
- Aluminium (Alliage 1050 e 5754)
- Inconel, Hastelloy, Monel
- Cupronickel,
- Titane
- Duplex, Superduplex
- Aciers à haute résistance
(FE510 – S700 – VELDOX 700)
- Cuivre
- Laiton
- Polypropylène, Polyéthylène, PVC

DIMENSIONS

Les tôles, d'épaisseurs allant de 0,4 à 20 mm, sont fabriquées dans les formats commerciaux ou dans des dimensions spéciales sur plan.

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FORI

HOLES - TROUS

I fori possono essere tondi (R), quadri (C), oblungi (LR), fantasia

Holes can be round (R), square (C), elongated (LR) or fancy

Les trous peuvent être ronds (R), carrés (C), oblongs (LR), fantaisie

INTERASSI

INTERAXIS - ENTRAXES

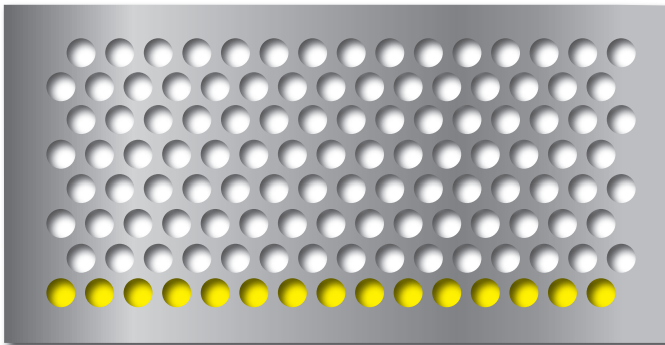
L'interasse corrisponde alla distanza tra i centri di due fori adiacenti

The interaxis is the distance between the centres of two adjacent holes

L'entraxe correspond à la distance entre les centres de deux trous adjacents

DISPOSIZIONE DELLA PERFORAZIONE RISPETTO ALLA LAMIERA

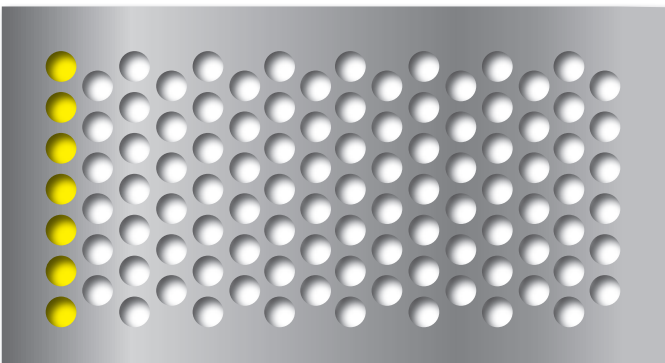
ARRANGEMENT OF THE PERFORATION COMPARED TO THE SHEET
DISPOSITION DE LA PERFORATION PAR RAPPORT A LA TOLE



Il senso di perforazione è di regola parallelo al lato maggiore del foglio

The direction of perforation is normally parallel to the longer side of the sheet

Le sens de perforation est normalement parallèle au côté long de la plaque.



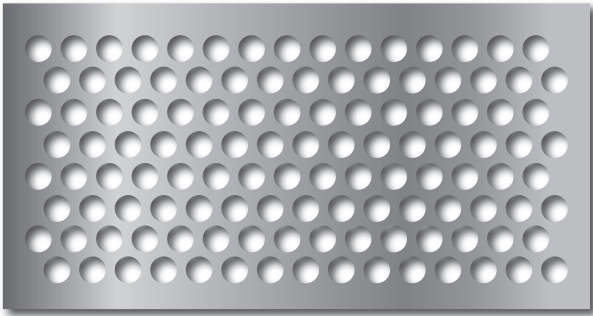
Il senso di perforazione può essere parallelo al lato corto del foglio

The direction of perforation can be parallel to the shorter side of the sheet

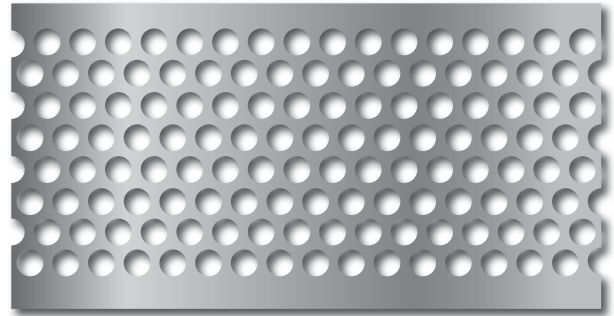
Le sens de perforation peut être parallèle au côté court de la plaque

BORDI

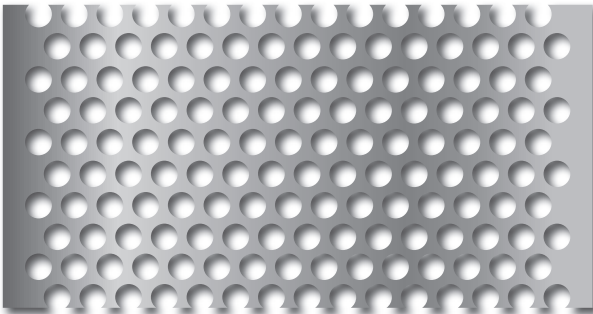
BORDERS - BORDS



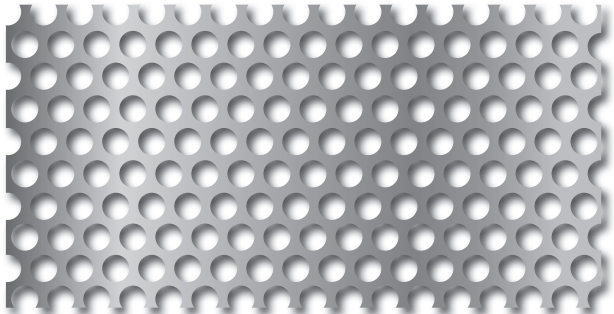
1) PERIMETRALI
Perimeter borders
Bords périmétriques



2) SOLO SUI LATI LUNGHI
Borders only on the long sides
Bords sur les côtés longs seulement



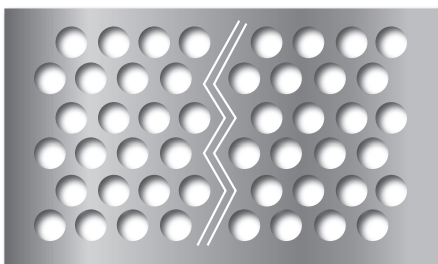
3) SOLO SUI LATI CORTI
Borders only on the short sides
Bords sur les côtés courts seulement



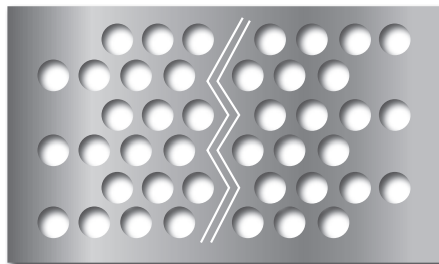
4) SENZA BORDI
Borderless
Sans bords

INIZIO E FINE DELLA PERFORAZIONE

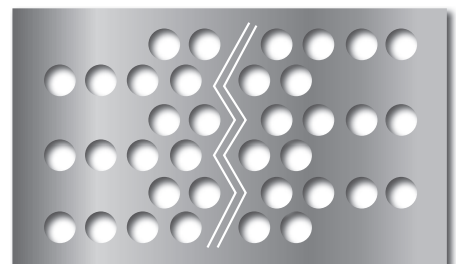
START AND END OF THE PERFORATION
DEBUT ET FIN DE LA PERFORATION



Campo di perforazione completo
Complete field of perforation
Champ de perforation complet



Campo di perforazione incompleto:
un salto iniziale e finale
*Incomplete end rows on two sides
of the sheet*
*Champ de perforation incomplet au
départ et à l'arrivée*

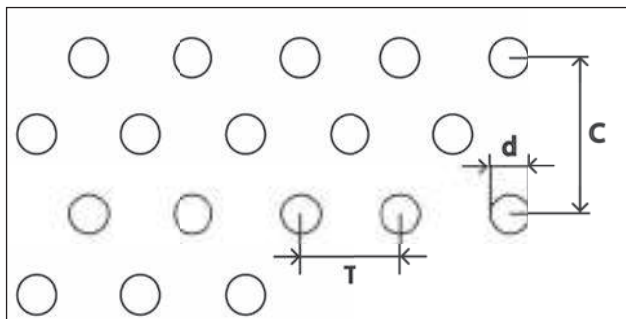


Campo di perforazione incompleto
doppio salto iniziale e finale
*Two Incomplete end rows on two
sides of the sheet*
*Double coup de perforation (champ
incomplet) au départ et à l'arrivée*

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TOLES PERFOREES

FORI TONDI [R] ALTERNATI A 60° [T]



DETTAGLI TECNICI

DISPOSIZIONE ALTERNATA A 60°

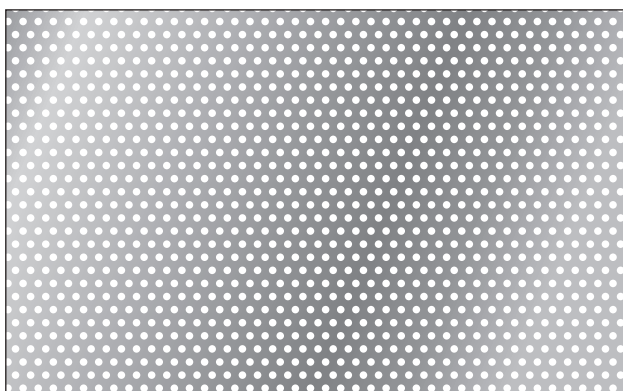
d = diametro foro

T = passo

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

% vuoto su pieno = $90,7 \times d^2 / T^2$

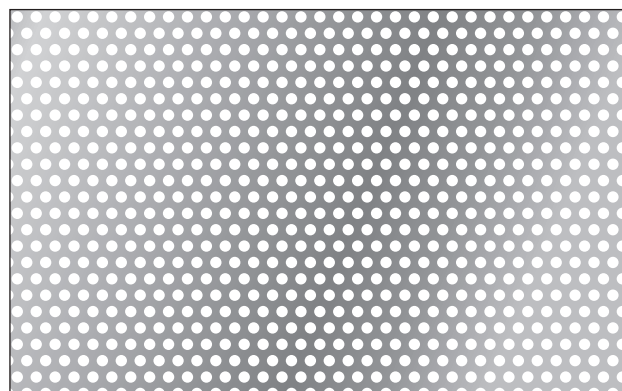
Numero fori per $dm^2 = 1,15 \times 10.000 / T^2$



R 1

T 2

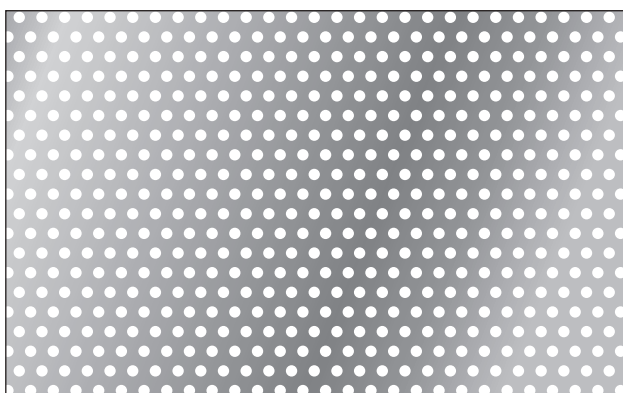
VP 22,7%



R 1,5

T 2,5

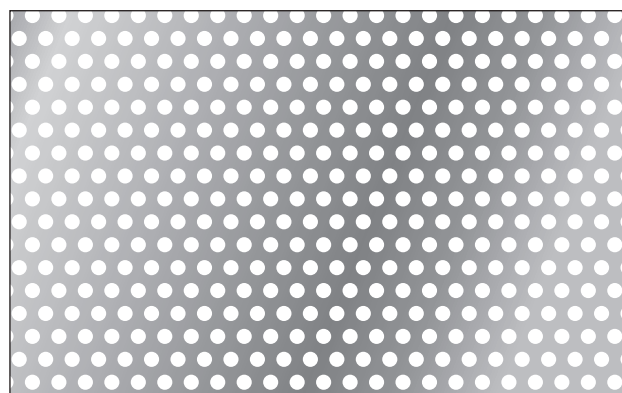
VP 32,7%



R 1,5

T 3

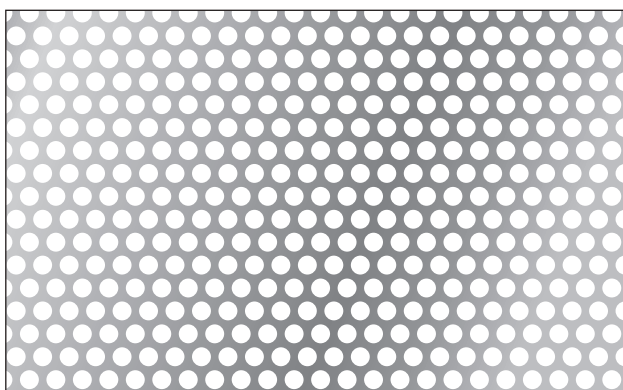
VP 22,7%



R 2

T 3,5

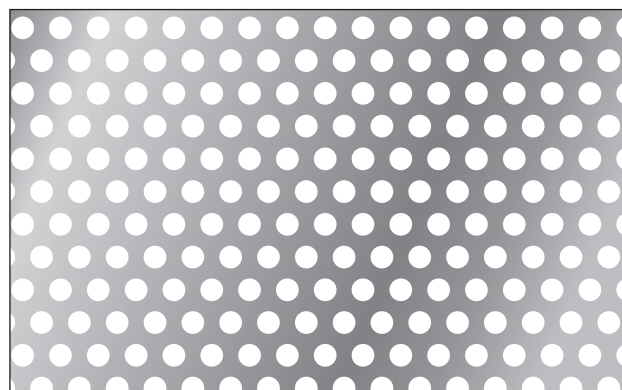
VP 29,6%



R 2,5

T 3,5

VP 46,3%



R 3

T 5

VP 32,5%

STAGGERED HOLES [R] AT 60° [T]
 TROUS RONDS [R] EN QUINCONCE A 60° [T]

TECHNICAL DETAILS

STAGGERED HOLES AT 60°

d = diameter of the hole

T = pitch

c = side distance = $T \times 1,73$

% empty on full = $90,7 \times d^2 / T^2$

Number of holes per dm^2 = $1,15 \times 10.000 / T^2$

DETAILS TECHNIQUES

DISPOSITION ALTERNÉE A 60°

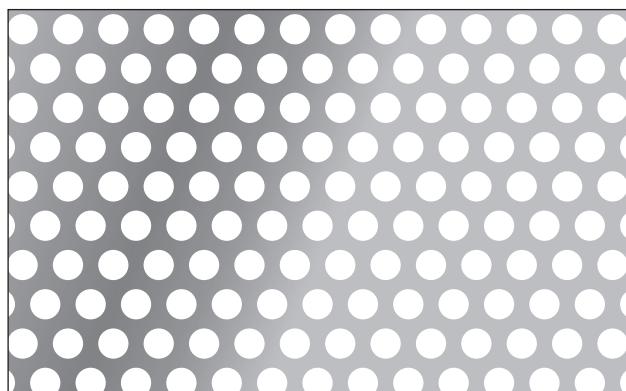
d = diamètre trou

T = pas

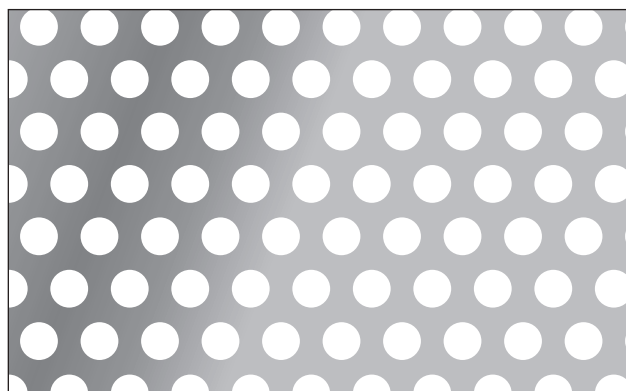
c = distance latérale = $T \times 1,73$

% vide sur plein = $90,7 \times d^2 / T^2$

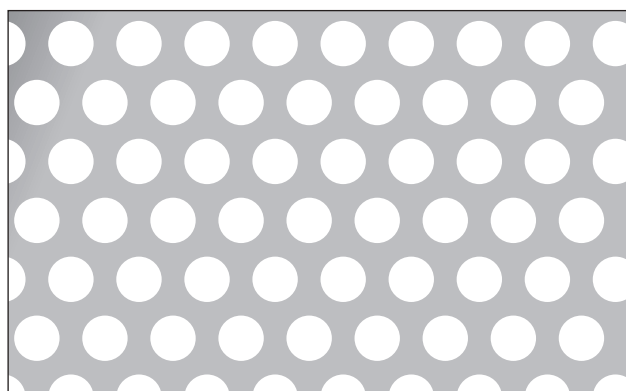
nombre de trous par dm^2 = $1,15 \times 10.000 / T^2$



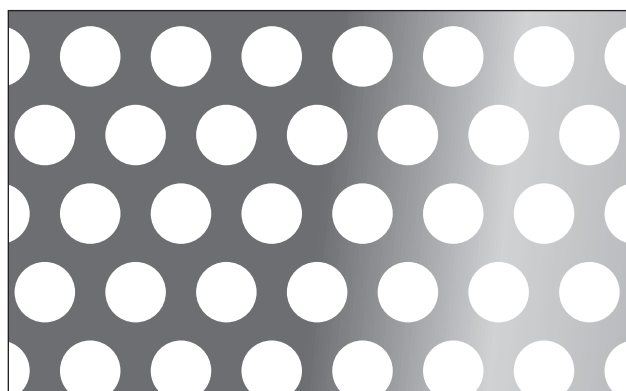
R 4 T 6 VP 40,3%



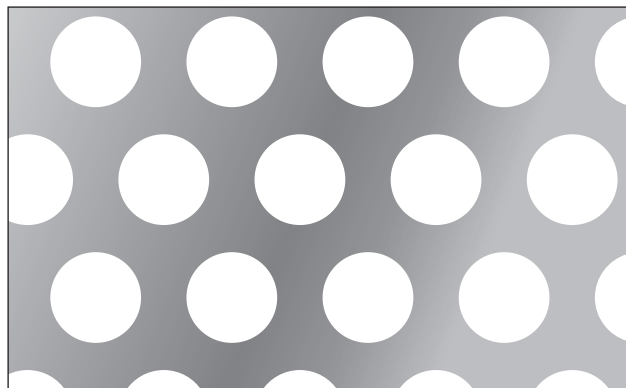
R 5 T 8 VP 35,0%



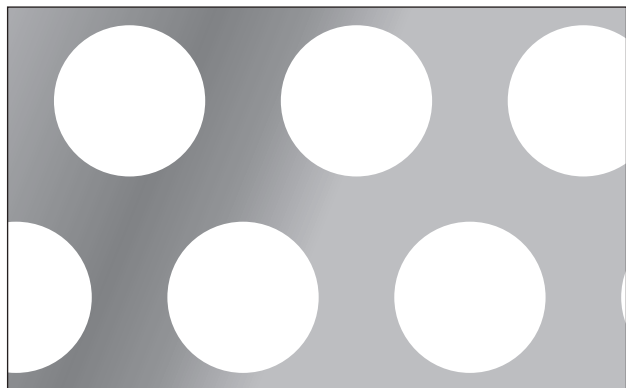
R 6 T 9 VP 40,3%



R 8 T 12 VP 40,3%



R 12 T 18 VP 40,3%



R 20 T 30 VP 40,3%

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FORI TONDI [R]

ALTERNATI A 60° [T]

Ø foro Ø hole Ø trou	Distanza centro T Centre distance T Distance centre T	Distanza laterale C Lateral distance C Distance latérale C	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
R 0,4	1,25	2,2	7360	10,2
	1,5	2,6	5100	7,1
R 0,5	1,25	2,2	7360	14,4
	1,5	2,6	5100	10
R 0,6	1,25	2,2	7360	20,8
	1,5	2,6	5100	14,5
R 0,7	1,25	2,2	7360	28,2
	1,5	2,6	5100	19,5
R 0,8	1,5	2,6	5100	26
	1,8	3,2	3550	17,7
	2	3,5	2880	14,5
R 1	2	3,5	2880	22,7
	2,25	3,9	2880	17,8
	2,5	4,3	1840	14,5
	3	5,2	1280	10
	4	7	720	5,6
	5	8,7	460	3,6
R 1,25	2,5	4,3	1840	22,7
	3	5,2	1280	15,6
R 1,5	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
R 1,75	3	5,2	1280	31
	3,5	6	940	22,5
	4	7	720	17,4
R 2	3	5,2	1280	39
	3,5	6,06	938	29,62
	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

STAGGERED HOLES [R] AT 60° [T]
 TROUS RONDS [R] EN QUINCONCE A 60° [T]

Ø foro Ø hole Ø trou	Distanza centro T Centre distance T Distance centre T	Distanza laterale C Lateral distance C Distance latérale C	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
R 2,5	3,5	6	940	46
	4	7	720	35
	4,5	7,8	570	28
	5	8,7	460	22,5
	6	10,4	320	16
	7	12,1	235	10
	8	13,8	180	8
R 2,75	4	7	720	43
	4,5	7,8	570	33,6
	4,75	8,2	510	30
R 3	4	7	720	51
	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
	10	17,3	115	8
	15	26	51	3,6
R 3,5	4,5	7,8	570	55
	5	8,7	460	44
	6	10,4	320	31
	7	12,1	235	22,5
	8	13,8	180	17,2
R 3,75	5,6	9,7	368	40
	7,5	13	205	22,5
R 4	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
	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	

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TOLES PERFOREES

FORI TONDI [R]

ALTERNATI A 60° [T]

Ø foro Ø hole Ø trou	Distanza centro T Centre distance T Distance centre T	Distanza laterale C Lateral distance C Distance latérale C	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
R 4,5	6	10,4	320	51
	7	12,1	235	37,5
	8	13,8	180	28,5
	9	16	142	22,5
	10	17,3	115	18,2
	12	20,8	80	12,6
R 5	6	10,4	320	63
	6,5	11,2	272	53,2
	7	12,1	235	46
	8	13,8	180	35
	9	16	142	28
	10	17,3	115	22,5
	12	20,8	80	15,6
	15	26	51	10
R 6	7,5	13	205	58
	8	13,8	180	51
	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
R 6,5	9	16	142	47
	10	17,3	115	38
R 7	9	16	142	55
	10	17,3	115	44
	11	19	95	36,4
	12	20,8	80	31
	13	22,5	68	26
R 8	10	17,3	115	58
	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
25	43,2	48	9,2	

STAGGERED HOLES [R] AT 60° [T]
 TROUS RONDS [R] EN QUINCONCE A 60° [T]

Ø foro Ø hole Ø trou	Distanza centro T Centre distance T Distance centre T	Distanza laterale C Lateral distance C Distance latérale C	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
R 9	11	19	95	60
	12	20,8	80	51
	14	24,2	58	37
R 10	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
	18	31,6	35	27,8
	20	34,6	29	22,5
	25	43,2	18	14,4
	30	52	13	10
R 11	13	22,5	68	64,4
	15	26	51	58
	17	29,4	40	38
	18	31,2	35	34
R 12	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
R 13	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
R 14	16,8	29	42	62,4
	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

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FORI TONDI [R]

ALTERNATI A 60° [T]

Ø foro Ø hole Ø trou	Distanza centro T Centre distance T Distance centre T	Distanza laterale C Lateral distance C Distance latérale C	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
R 15	18	31,2	35	63
	20	34,6	29	51
	22	38	23	42
	25	43,2	18	32,5
	30	52	12,7	22,5
	40	69,2	7	12,6
R 16	18	31,2	35	71
	20	34,6	29	58
	22	38	23	47,6
	25	43,2	18	36,8
R 18	20	34,6	29	73
	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
R 19	25	43,2	18	52
	26	46	17	48
R 20	24	41,5	20	62,4
	25	43,2	18	57,6
	26	45	17	53,2
	28	48,5	14,7	46
	30	52	12,7	40
	40	69,2	7	22,5
	50	86,5	4,6	14,4
R 22	25	43,2	18	69,6
	28	48,5	14,7	55,5
	30	52	12,7	48,3
R 24	30	52	12,7	57,6
	32	55,4	11,3	50,6
	35	60,6	9	42,3
R 25	30	52	12,7	62,4
	35	60,6	9	46
	40	69,2	7	35
	50	86,5	4,6	22,5

Misure espresse in mm - Dimensions in mm - Dimensions exprimées en mm

STAGGERED HOLES [R] AT 60° [T]
TROUS RONDS [R] EN QUINCONCE A 60° [T]

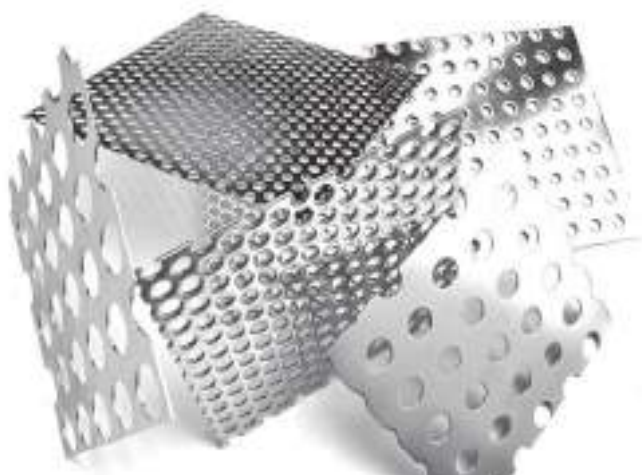
Ø foro Ø hole Ø trou	Distanza centro T Centre distance T Distance centre T	Distanza laterale C Lateral distance C Distance latérale C	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
R 26	34	58,8	10	52,6
	40	69,2	7	38
R 28	36	62,3	8,8	54,5
	40	69,2	7	44
R 30	40	69,2	7	50,6
	45	77,8	5	40
	50	86,5	4,6	32,6
	60	103,8	3	16
R 35	50	86,5	4,6	44
	55	95,2	3,8	36,4
	60	103,8	3	30,6
R 40	60	103,8	3	40
	70	121	2,3	29,3
R 45	65	112,4	2,7	43
	75	132	2	32,4
R 50	70	121	2,3	46
	80	138,4	1,8	35
R 60	vari	vari	vari	vari
R 80	vari	vari	vari	vari
R 100	vari	vari	vari	vari
R 120	vari	vari	vari	vari

Misure espresse in mm - Dimensions in mm - Dimensions exprimées en mm

Ci prendiamo cura di Voi

We take care of you

Nous nous prenons soin de vous



CONTATTACI

CONTACT US - CONTACTEZ-NOUS

Non esitate a contattare i nostri tecnici che vi daranno qualsiasi informazione:
vendite@actisfurio.com

Do not hesitate to contact our technicians who will provide you any information:
sales@actisfurio.com

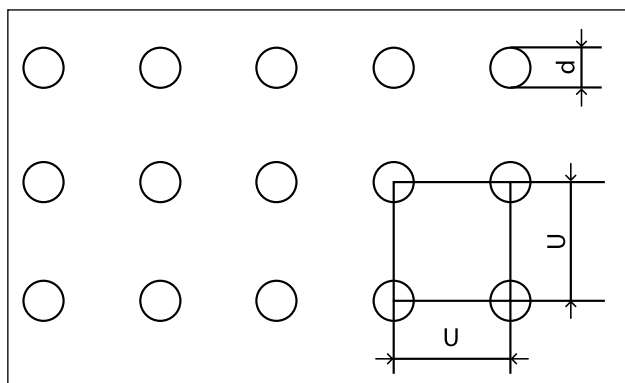
N'hésitez pas à contacter nos techniciens pour tout renseignement:
sales@actisfurio.com

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TOLES PERFOREES

FORI TONDI [R]

PARI A 90° [U]



DETTAGLI TECNICI

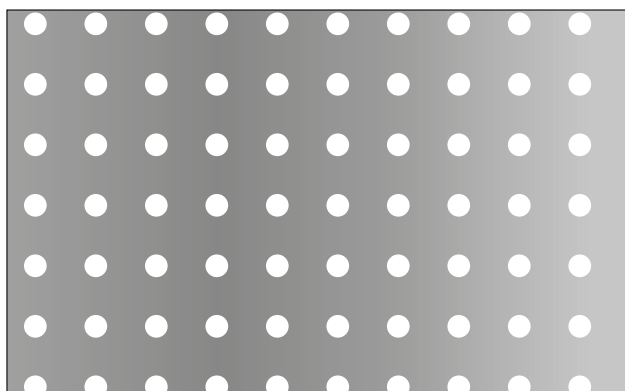
DISPOSIZIONE PARI A 90°

d = diametro foro

U = passo verticale, passo orizzontale

% vuoto su pieno = $78,5 \times d^2 / U^2$

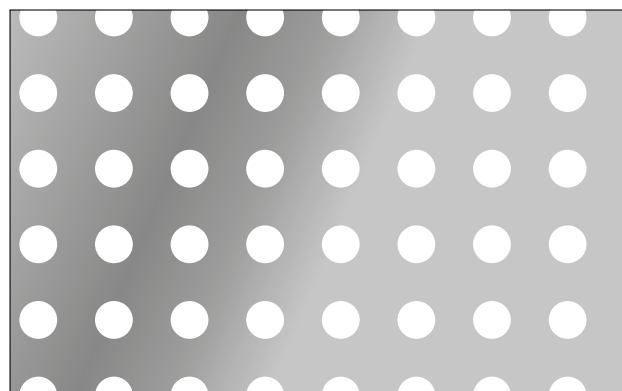
numero fori per $dm^2 = 10.000 / U^2$



R 3

U 8

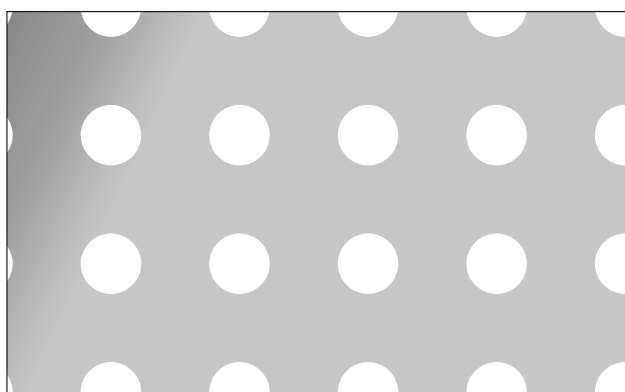
VP 11,0%



R 5

U 10

VP 19,5%



R 8

U 17

VP 17,4%



R 10

U 20

VP 19,5%

EVEN ROUND HOLES [R] AT 90° [U]
 TROUS RONDS [R] DISPOSITION EN LIGNE A 90° [U]

TECHNICAL DETAILS

EVEN DISPOSITION AT 90°

d = diameter of the hole

U = vertical pitch, horizontal pitch

% empty on full = $78,5 \times d^2 / U^2$

Number of holes per $dm^2 = 10.000 / U^2$

DETAILS TECHNIQUES

DISPOSITION EN LIGNE A 90°

d = diamètre trou

U = pas vertical, pas horizontal

% vide sur plein = $78,5 \times d^2 / U^2$

nombre de trous par $dm^2 = 10.000 / U^2$

Ø foro Ø hole Ø trou	Distanza centro U Centre distance U Distance centre U	Distanza laterale U Lateral distance U Distance latérale U	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
R 1	3	3	1111	8,6
	4	4	625	4,8
	5	5	400	3,1
	10	10	100	7,8
R 1,5	3	3	1111	19
	5	5	400	7
R 2	4	4	625	19,5
	5	5	400	12,5
	10	10	1000	3,1
	15	15	445	1,4
R 2,5	5	5	400	19,5
	10	10	100	4,8
	15	15	44,5	2,1
R 3	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
R 4	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
R 5	8	8	156	30,4
	10	10	100	19,5
	15	15	44,5	8,7
	18	18	31	6

LAMIERE PERFORATE

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TOLES PERFOREES

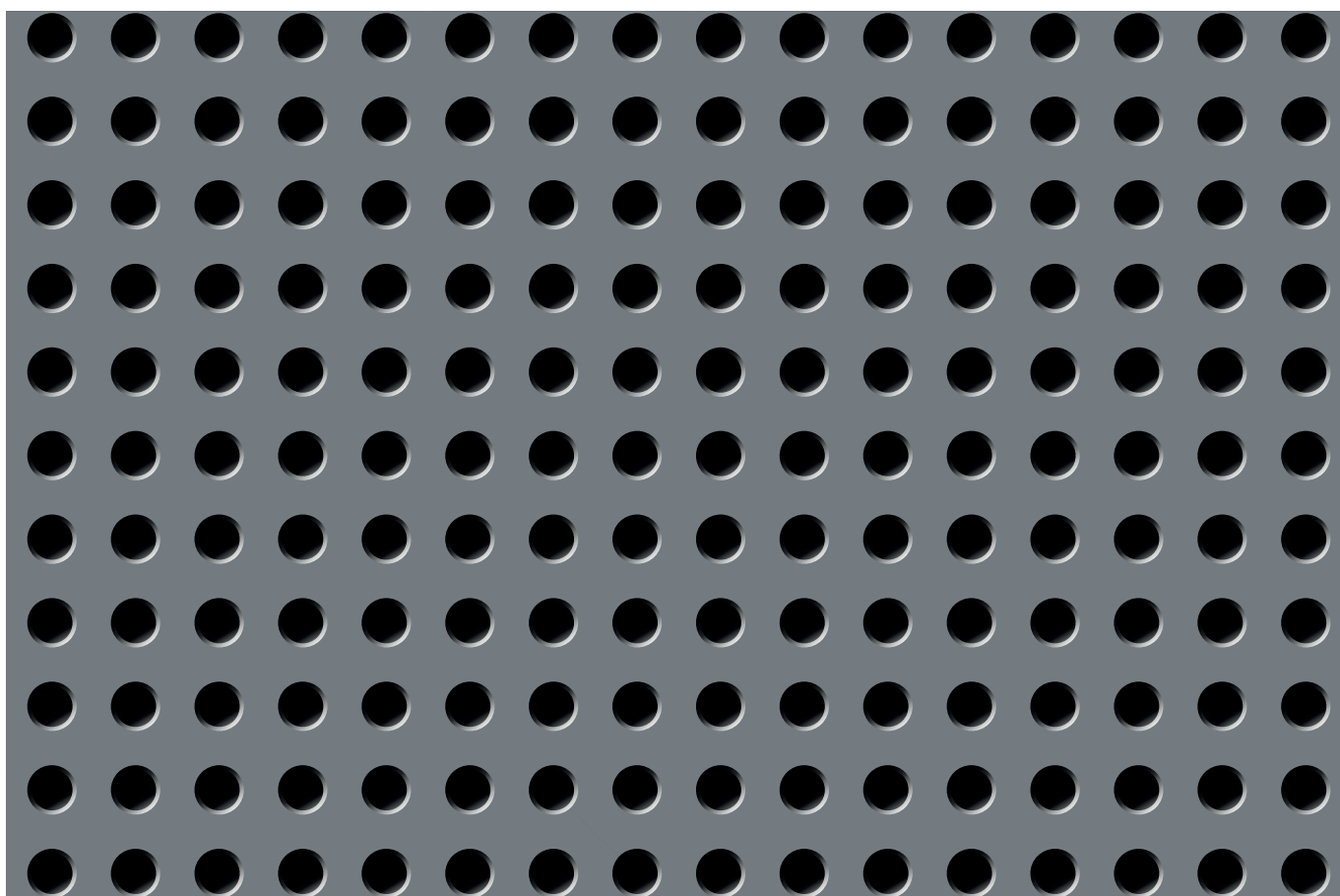
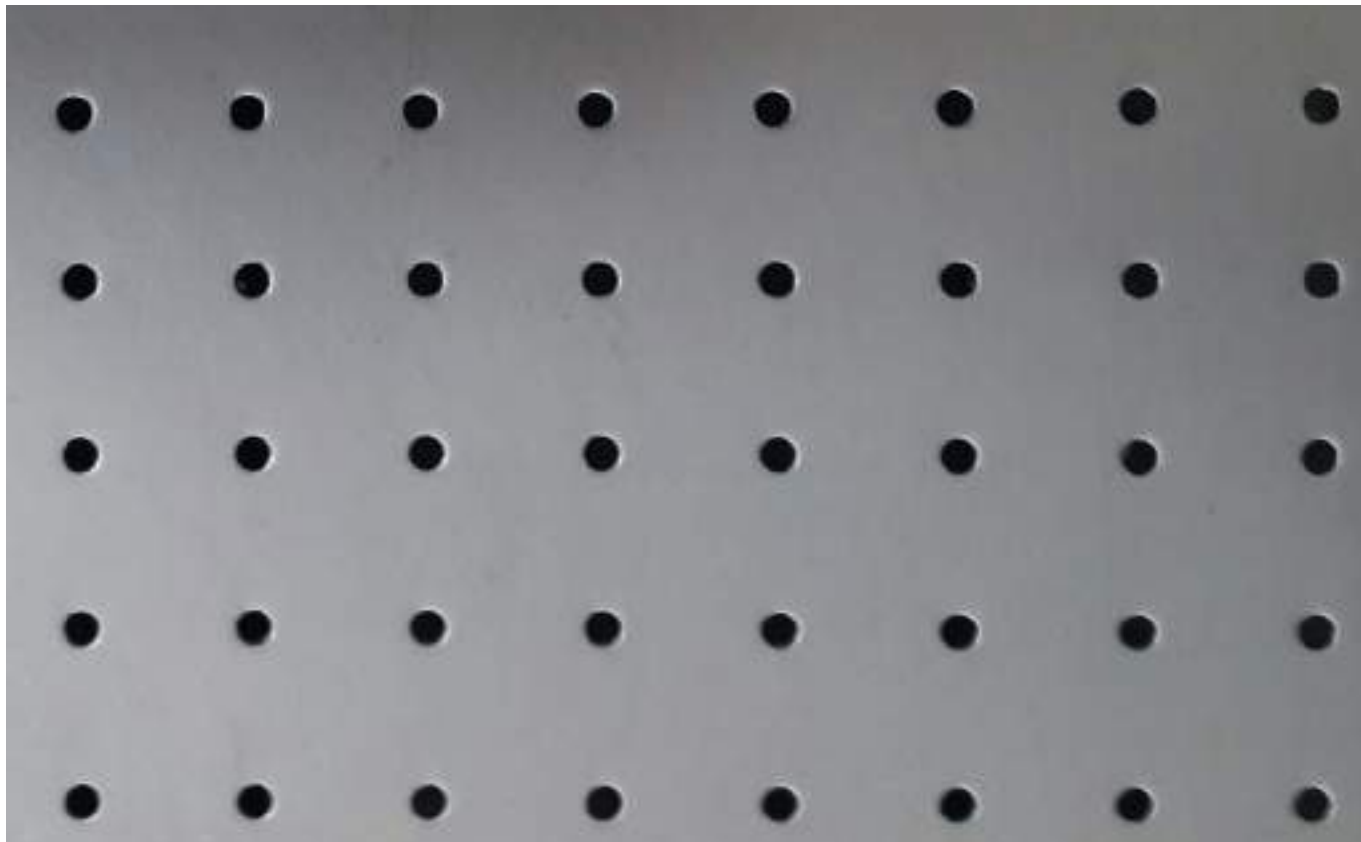
FORI TONDI [R]

PARI A 90° [U]

Ø foro Ø hole Ø trou	Distanza centro U Centre distance U Distance centre U	Distanza laterale U Lateral distance U Distance latérale U	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
R 5	20	20	25	4,8
	25	25	16	3,1
R 6	10	10	100	28
	12	12	70	19,5
	15	15	44,5	12,5
	20	20	25	7
R 8	15	15	44,5	22,2
	18	18	31	15,4
	20	20	25	12,5
	25	25	16	8
	30	30	11	5,5
R 10	15	15	44,5	34,6
	20	20	25	19,5
	25	25	16	12,5
	30	30	11	8,6
R 12	20	20	25	28
	24	24	17,3	19,5
	28	28	12,7	14,3
R 15	25	25	16	28
	30	30	11	19,5
	35	35	8	14,3
	40	40	6,2	11
R 18	28	28	12,7	32,3
	36	36	7,7	19,5
	40	40	6,2	15,8
R 20	30	30	1	34,7
	35	35	8	25,5
	40	40	6,2	19,5
	50	50	4	12,5
R 25	35	35	8	39,7
	40	40	6,2	30,4
	50	50	4	19,5
R 30	45	45	5	34,7
	50	50	4	28
	60	60	2,7	19,5

Misure espresse in mm - Dimensions in mm - Dimensions exprimées en mm

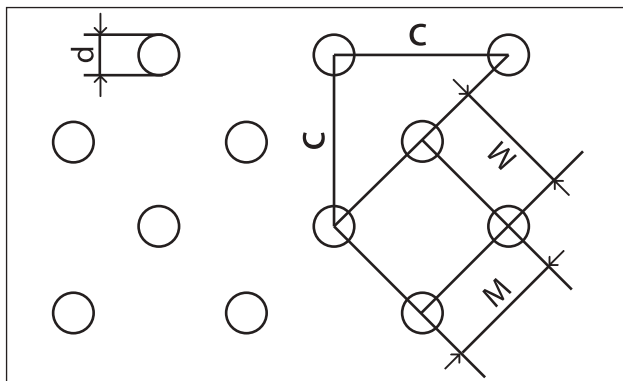
*EVEN ROUND HOLES [R] AT 90° [U]
TROUS RONDS [R] DISPOSITION EN LIGNE A 90° [U]*



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PERFORATED SHEETS
TOLES PERFOREES

FORI TONDI [R] ALTERNATI A 45° [M]



DETTAGLI TECNICI

DISPOSIZIONE ALTERNATA A 45°

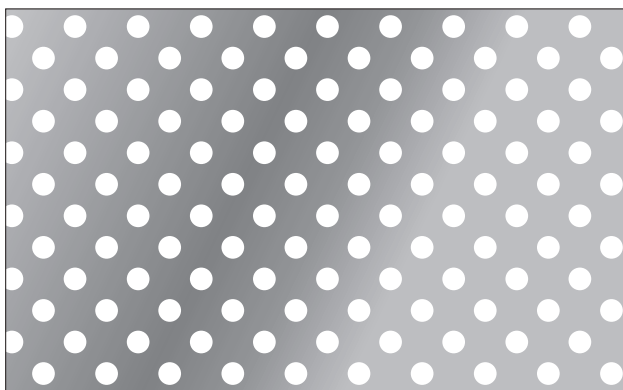
d = diametro foro

M = passo

$C = M \times 1,42$

% vuoto su pieno = $78,5 \times d^2 / M^2$

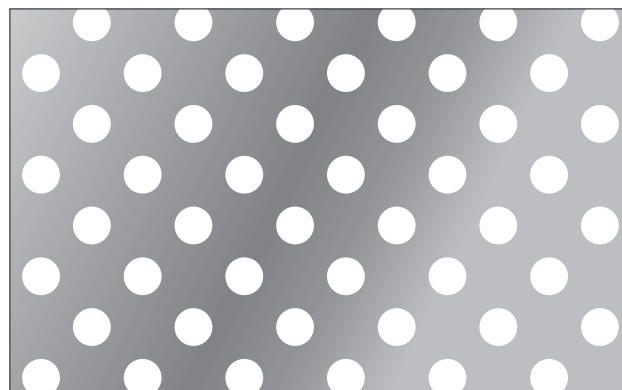
numero fori per $dm^2 = 10.000 / M^2$



R 3

M 5,9

VP 20,3%



R 5

M 9,5

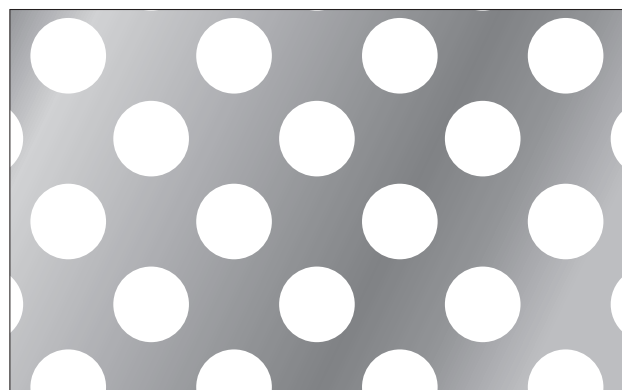
VP 21,8%



R 8

M 14,3

VP 24,6%



R 10

M 15,5

VP 32,8%

ROUND HOLES STAGGERED [R] AT 45° [M]
TROUS RONDS [R] DISPOSITION A 45° [M]

TECHNICAL DETAILS

STAGGERED HOLES AT 45°

d = hole diameter

M = pitch

$C = M \times 1,42$

% empty on full = $78.5 \times d^2 / M^2$

number of holes per $dm^2 = 10.000 / M^2$.

DETAILS TECHNIQUES

DISPOSITION A 45°

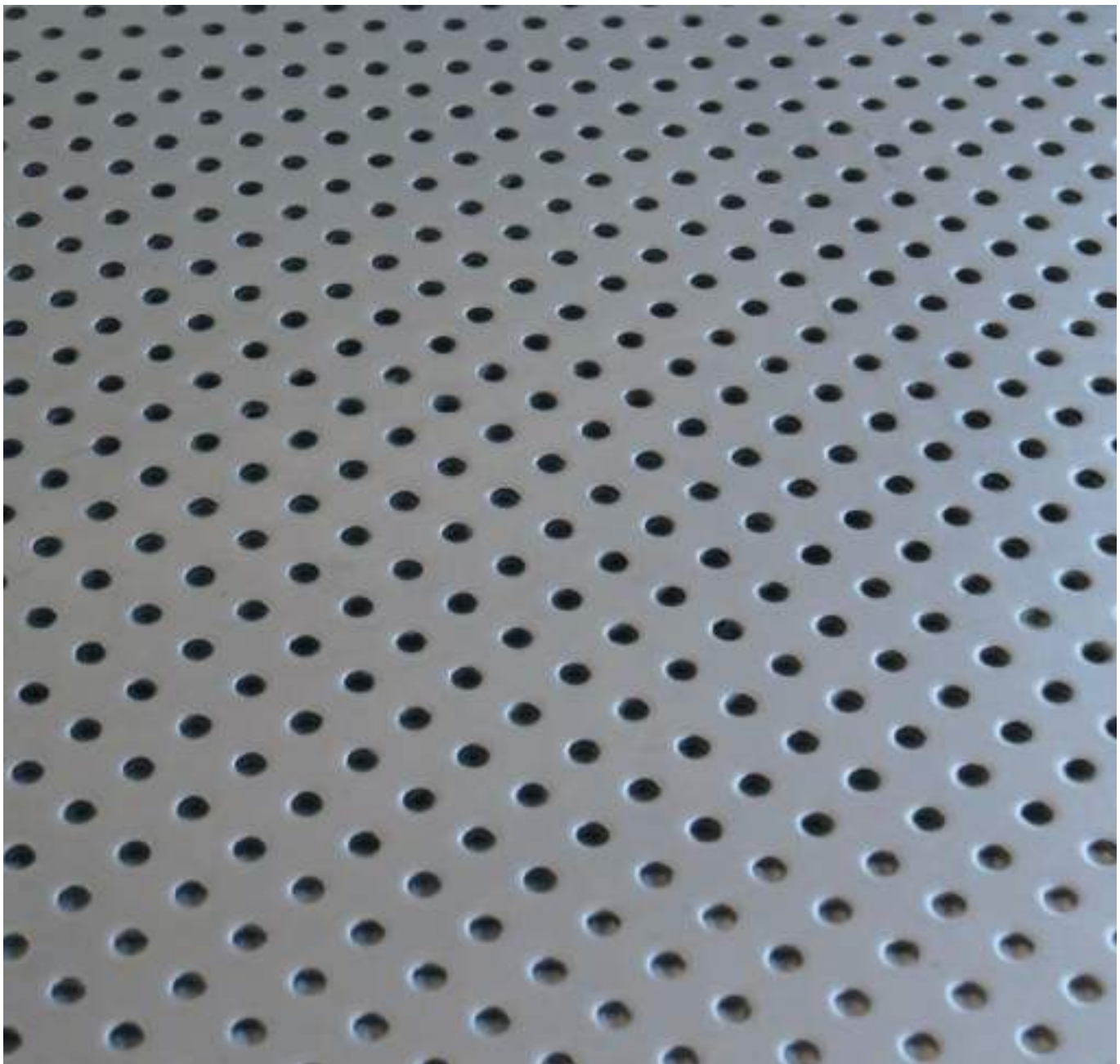
d = diamètre trou

M = pas

$C = M \times 1,42$

% vide sur plein = $78,5 \times d^2 / M^2$

nombre de trous par $dm^2 = 10.000 / M^2$



LAMIERE PERFORATE

PERFORATED SHEETS
TOLES PERFOREES

FORI TONDI [R]

ALTERNATI A 45° [M]

Ø foro Ø hole Ø trou	Distanza centro M Centre distance M Distance centre M	Distanza laterale C Lateral distance C Distance latérale	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
R 1	3	4,2	1134	8,9
	4,2	6	556	4,3
R 1,5	3,5	5	800	14,1
	4,5	6,4	489	3,2
R 2	4	5,6	638	20
	5	7	408	12,8
	6	8,5	277	8,6
R 2,5	4,5	6,4	489	24
	5	7	408	20
	6	8,5	277	13,6
R 3	5	7	408	28,2
	6	8,5	277	19,6
	8	11,2	160	11,3
	10	14	102	9
R 4	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
R 5	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
R 6	10	14	102	28,2
	15	21,2	44	12,6
	20	28	26	7,2
R 8	13	18,4	59	29,7
	14	19,8	53	25,6
	20	28	25	12,8
	25	35	16	8,2

ROUND HOLES STAGGERED [R] AT 45° [M]
TROUS RONDS [R] DISPOSITION A 45° [M]

\varnothing foro \varnothing hole \varnothing trou	<i>Distanza centro M</i> Centre distance M Distance centre M	<i>Distanza laterale C</i> Lateral distance C Distance latérale	<i>N. Fori</i> No. Holes N. Trous	<i>Percentuale vuoto</i> Percentage empty Pourcentage vide
R 10	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
R 12	18	25,4	31	35
	25	35	16	18,5
R 14	20	28	25	39,2
	25	35	16	25,2
R 15	25	35	16	28,2
	30	42	1	20
	35	50	8	14,2
R 18	28	39,5	13	32,6
	36	50,8	7,7	19,7
R 20	30	42	11	35,6
	40	56	6,3	20
	50	70	4	25
	60	85	2,8	17,5
R 25	45	64	6,3	31,3
	50	70	4	20
	60	85	2,8	13,6
R 30	50	70	4	28,8
	60	85	2,8	19,5
	70	100	2	14
R 35	vari	vari	vari	vari
R 40	vari	vari	vari	vari
R 50	vari	vari	vari	vari

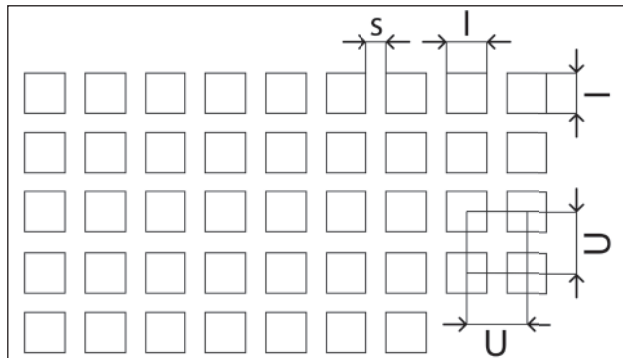
Misure espresse in mm - Dimensions in mm - Dimensions exprimées en mm

LAMIERE PERFORATE

PERFORATED SHEETS
TOLES PERFOREES

FORI QUADRI [C]

PARI [U]



DETTAGLI TECNICI

DISPOSIZIONE PARI

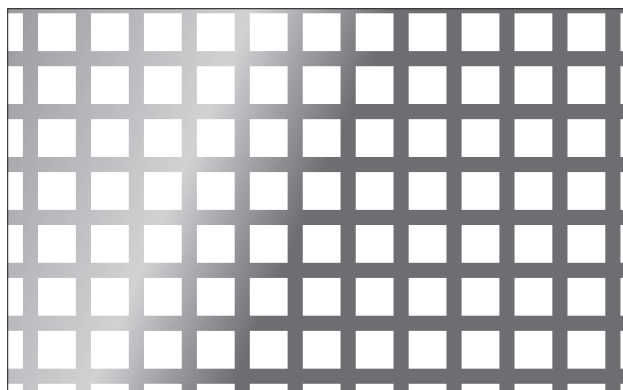
l = lato del foro quadro

s = costa piena tra foro e foro

U = passo

% vuoto su pieno = $(l/U)^2 \times 100$

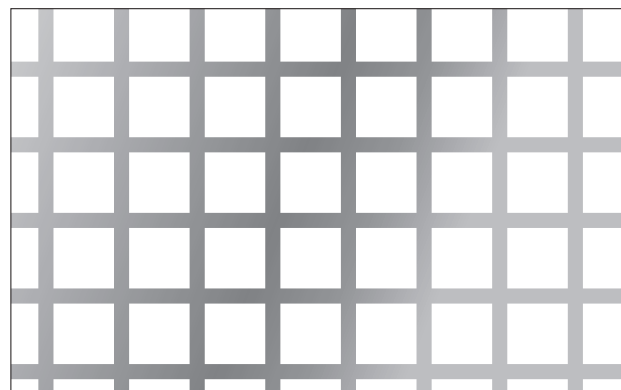
numero fori per dm² = $10.000/U^2$



C 5X5

U 7

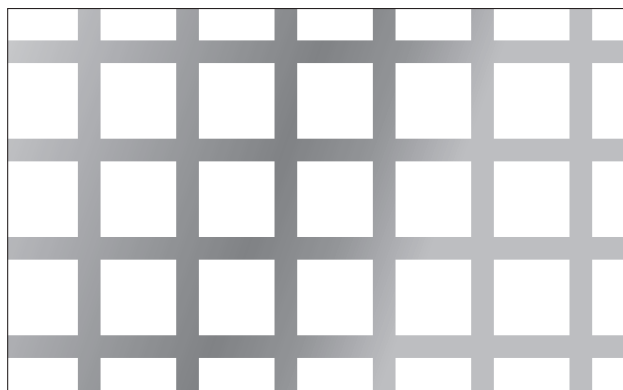
VP 51,0%



C 8X8

U 10

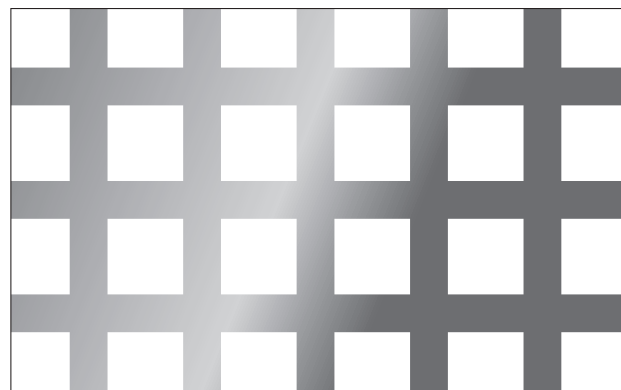
VP 64,0%



C 10X10

U 13

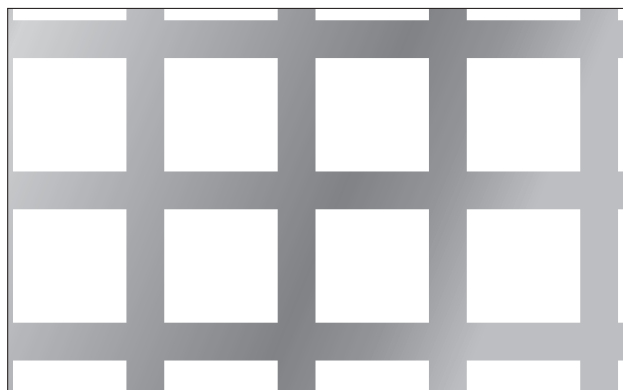
VP 59,2%



C 10X10

U 15

VP 44,4%



C 15X15

U 20

VP 56,3%



C 20X20

U 26

VP 59,2%

SQUARE HOLES [C] EVEN DISPOSITION [U]
 TROUS CARRÉS [C] DISPOSITION EN LIGNE [U]

TECHNICAL DETAILS

EVEN DISPOSITION

l = side of the square hole

s = full edge between one hole and another

U = pitch

% on full on empty = $(l/U)^2 \times 100$

n° of holes per dm^2 = $10.000/U^2$

DETAILS TECHNIQUES

DISPOSITION EN LIGNE

l = côté du trou carré

s = côté pleine entre trou et trou

U = pas

% vide sur plein = $(l/U)^2 \times 100$

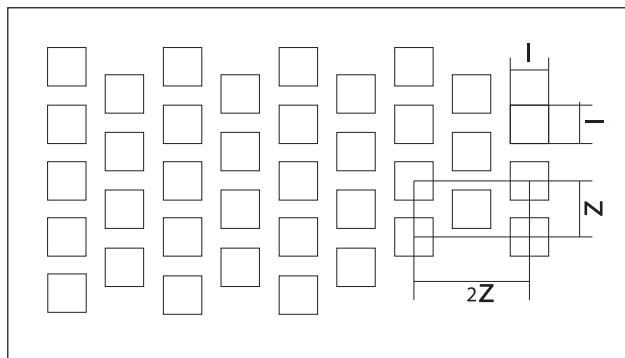
nombre de trous par dm^2 = $10.000/U^2$

Foro quadro hole trou	Distanza centro U Centre distance U Distance centre U	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
C 3	5x5	400	36
	6x6	278	25
C 4	6x6	278	44,4
	7x7	204	32,6
C 5	7x7	204	51
	8x8	156	39
	9x9	124	30,8
C 6	8x8	156	56,2
	9x9	124	44
	10x10	100	36
C 8	10x10	100	64
	11x11	83	52,8
	12x12	70	44,5
C 10	12x12	70	69,5
	13x13	59	59
	14x14	51	51
	15x15	45	44,5
	16x16	39	39
	20x20	25	25
C 12	16x16	39	56,2
	18x18	31	44,5
C 15	20x20	25	56,2
	22x22	21	46,5
	25x25	16	36
	30x30	11	25
C 20	25x25	16	64
	28x28	12	51
	30x30	11	44,4

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FORI QUADRI [C] ALTERNATI [Z]



DETTAGLI TECNICI

DISPOSIZIONE ALTERNATA

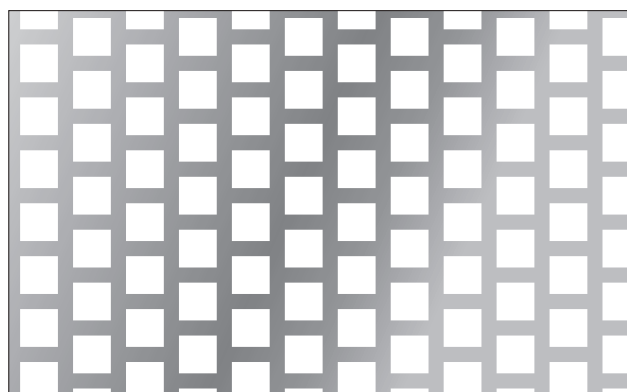
l = lato del foro quadro

Z = passo verticale

$2Z$ = passo orizzontale

% vuoto su pieno = $(l/Z)^2 \times 100$

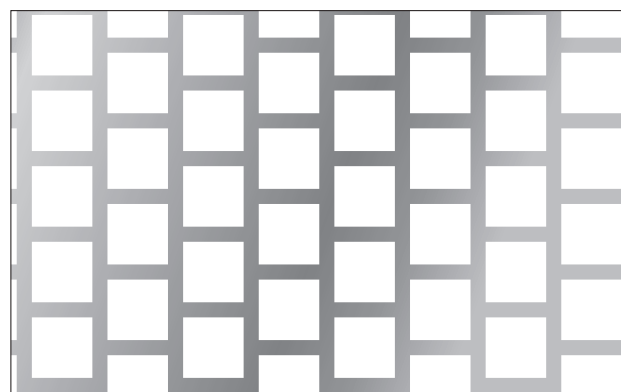
numero fori per dm² = $10.000/Z^2$



C 5X5

Z 7

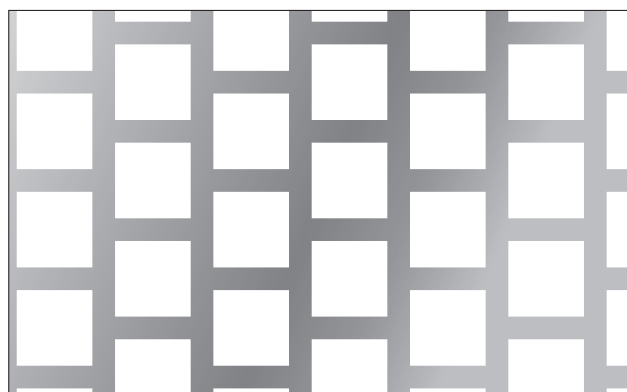
VP 51,0%



C 8X8

Z 10

VP 64,0%



C 10X10

Z 13

VP 59,2%



C 10X10

Z 15

VP 44,4%



C 15X15

Z 20

VP 56,3%



C 20X20

Z 26

VP 59,2%

**SQUARE HOLES [C] ALTERNATE DISPOSITION [Z]
TROUS CARRES [C] DISPOSITION EN QUINCONCE [Z]**

TECHNICAL DETAILS

ALTERNATE DISPOSITION

l = side of the square hole

Z = vertical pitch

2Z = horizontal pitch

% on full on empty = $(l/Z)^2 \times 100$

n° of holes per dm² = $10.000/Z^2$

DETAILS TECHNIQUES

DISPOSITION EN QUINCONCE

l = côté du trou carré

Z = pas vertical

2Z = pas horizontal

% vide sur plein = $(l/Z)^2 \times 100$

nombre de trous par dm² = $10.000/Z^2$

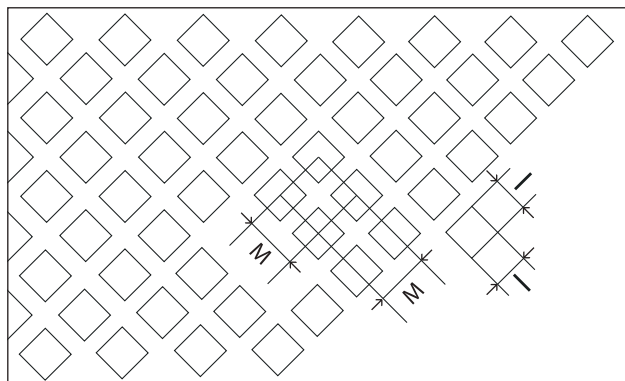
Foro quadro hole trou	Distanza centro Z Centre distance Z Distance centre Z	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
C 5	7x14	204	51
	7,5x15	178	44
	8x16	156	39
	9x18	123	31
C 8	12x24	69	34
	13x26	59	38
	15x30	45	28,5
C 10	13x26	59	59
	14x28	51	54
	15x30	45	44
	18x36	31	31
C 15	22x44	21	46
	24x48	18	39
	25x50	16	36
C 20	30x60	11	44
C 25	35x70	8	51
	40x80	6,5	39
C 30	45x90	5	44,5
	50x100	4	36
	60x120	3	25

Misure espresse in mm - Dimensions in mm - Dimensions exprimées en mm

LAMIERE PERFORATE

PERFORATED SHEETS
TOLES PERFOREES

FORI QUADRI [C] DIAGONALI [M]



DETTAGLI TECNICI

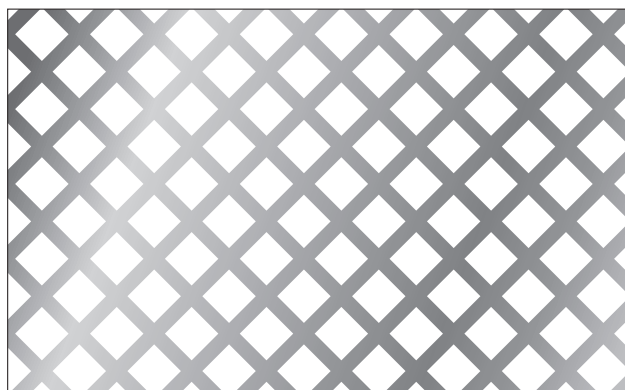
DISPOSIZIONE IN DIAGONALE

l = lato del foro quadro

M = passo

% vuoto su pieno = $(l/M)^2 \times 100$

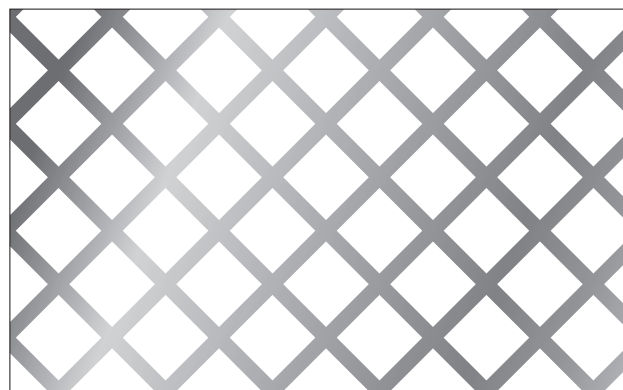
numero fori per $dm^2 = 10.000/M^2$



C 5X5

M 7

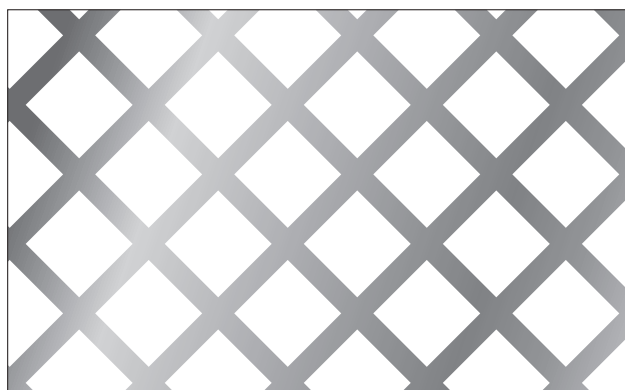
VP 51,0%



C 8X8

M 10

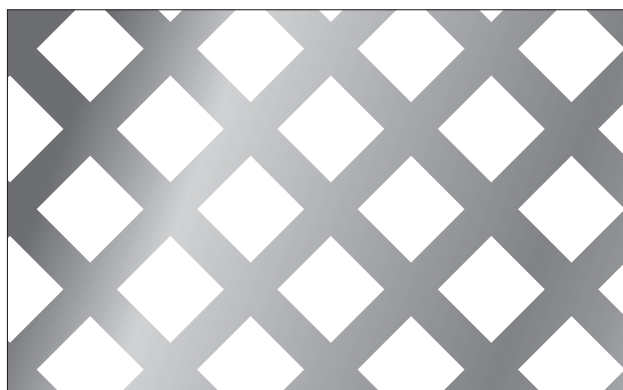
VP 64,0%



C 10X10

M 13

VP 59,2%



C 10X10

M 15

VP 44,4%

DIAGONAL [M] SQUARE HOLES [C]
TROUS CARRES [C] DISPOSITION EN DIAGONALE [M]

TECHNICAL DETAILS

DIAGONAL DISPOSITION

l = side of the square hole

M = pitch

% on full on empty = $(l/M)^2 \times 100$

n° of holes per dm^2 = $10.000/M^2$

DETAILS TECHNIQUES

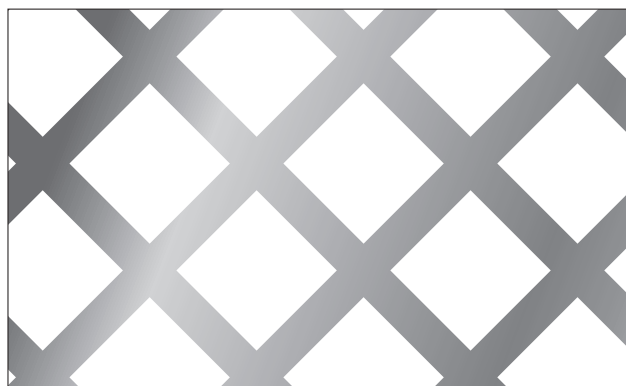
DISPOSITION EN DIAGONALE

l = côté du trou carré

M = pas

% vide sur plein = $(l/M)^2 \times 100$

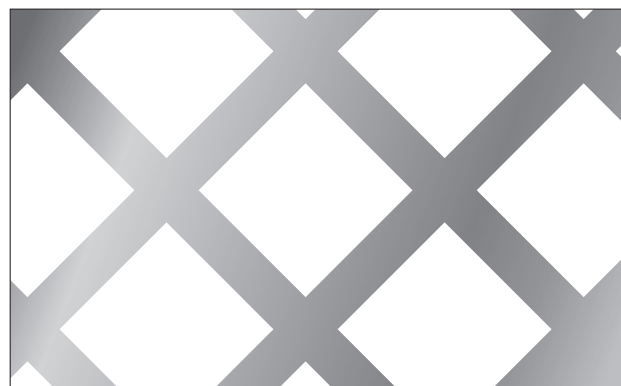
nombre de trous par dm^2 = $10.000/M^2$



C 15X15

M 20

VP 56,3%



C 20X20

M 26

VP 59,2%

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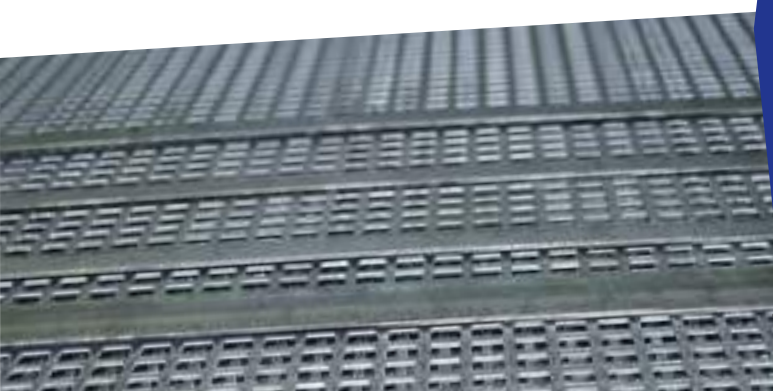
vendite@actisfurio.com

Contact our sales department who will provide you any information:

sales@actisfurio.com

Contactez notre service commercial export pour tout renseignement:

sales@actisfurio.com



LAMIERE PERFORATE

PERFORATED SHEETS
TOLES PERFOREES

FORI QUADRI [C]

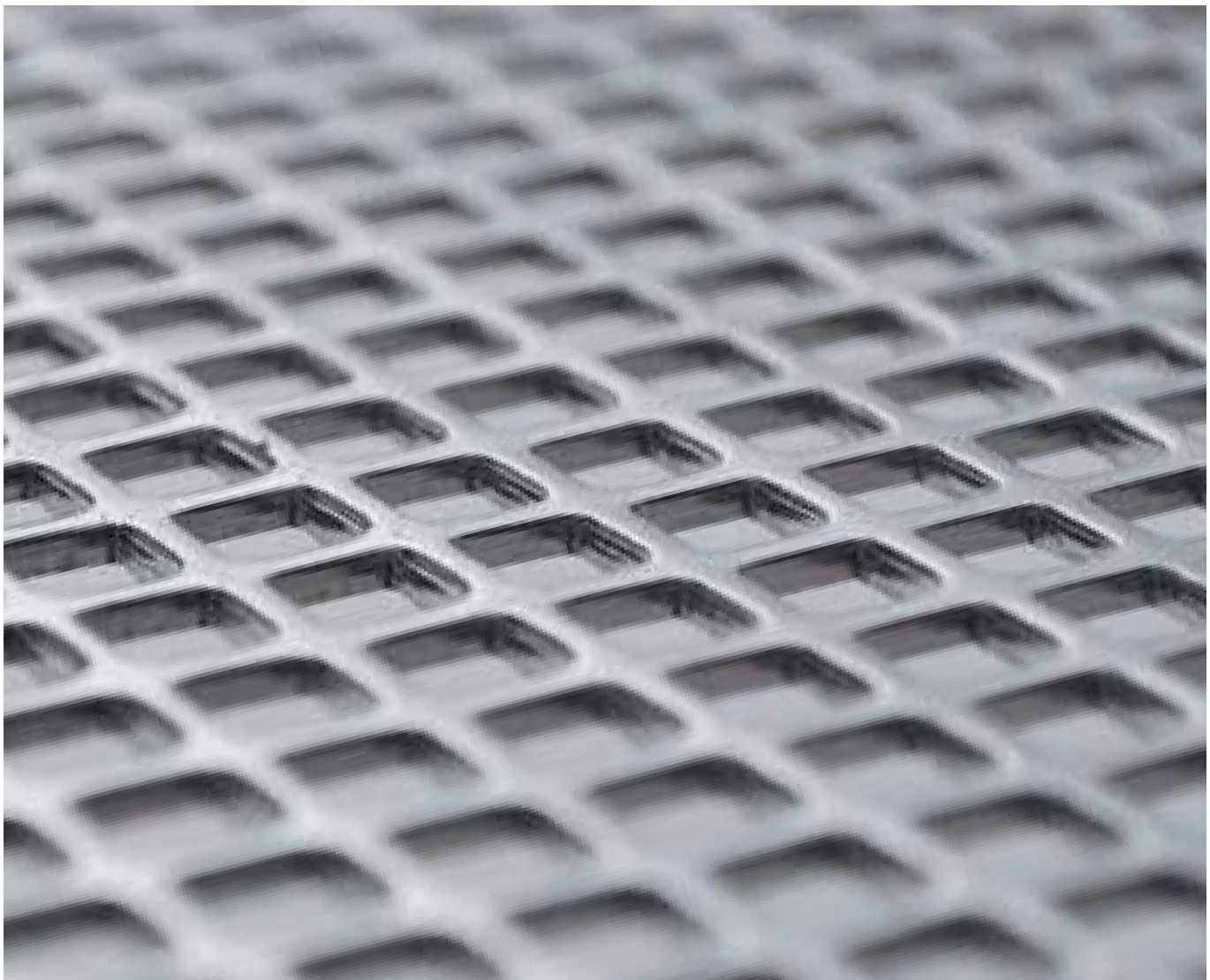
DIAGONALI [M]

Foro quadro hole trou	Distanza centro M Centre distance M Distance centre M	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
C 4	7	200	32
	8	159	25,5
	9	124	20
	10	102	16,3
C 5	8	159	39,8
	9	124	31
	10	102	25,5
	11	83	20,8
C 6	10	102	36,7
	11	83	30
	12	69	25
	15	44,5	16
	20	25	9
C 8	12	69	44,2
	13	58	38
	14	51	32,6
	15	44,5	28,5
C 9	14	50	40
	15	44,5	45
	16	39	39
C 10	18	31	31
	20	25	25,5
C 12	19	28	40
C 15	22	21	46,8
	22	19	42
C 18	26	15	52,8
	28	12,5	40,5
	30	11,3	36,7
C 20	28	12,5	50
	30	11,3	45,3
	35	8	32
C 25	35	8	50
	38	7	42,8
	40	6,3	39,8

DIAGONAL [M] SQUARE HOLES [C]
 TROUS CARRES [C] DISPOSITION EN DIAGONALE [M]

Foro quadro hole trou	Distanza centro M Centre distance M Distance centre M	N. Fori No. Holes N. Trous	Percentuale vuoto Percentage empty Pourcentage vide
C 30	45	4,9	44,6
	48	4,3	39,3
	50	4	36,7
C 40	50	4	65,3
	60	2,7	44,2
C 55	vari	vari	vari
C 80	vari	vari	vari

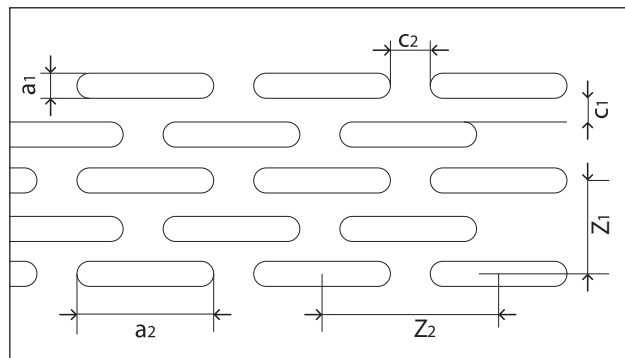
Misure espresse in mm - Dimensions in mm - Dimensions exprimées en mm



LAMIERE PERFORATE

PERFORATED SHEETS
TOLES PERFOREES

FORI OBLUNGHICI [LR] ALTERNATI [Z]

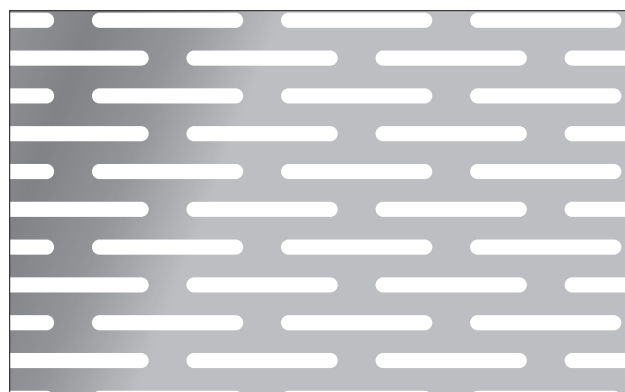


DETTAGLI TECNICI

DISPOSIZIONE A FORI ALTERNATI

$a1$ = larghezza foro
 $a2$ = lunghezza foro
 $c1$ = pieno tra i lati
 $c2$ = pieno tra le teste
 $Z1$ = passo verticale
 $Z2$ = passo orizzontale

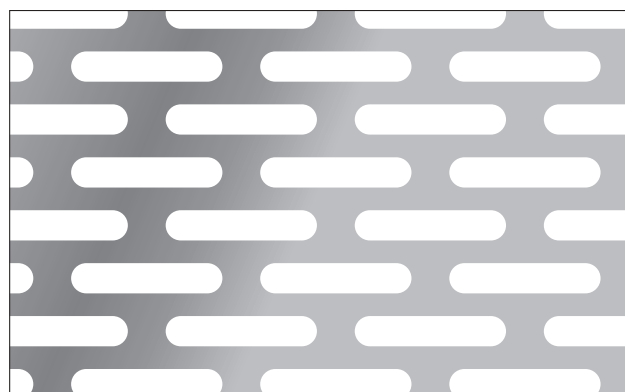
$$\% \text{ vuoto su pieno} = \frac{a1 \times a2 - 0,2 a1}{Z1 \times Z2} \times 100$$



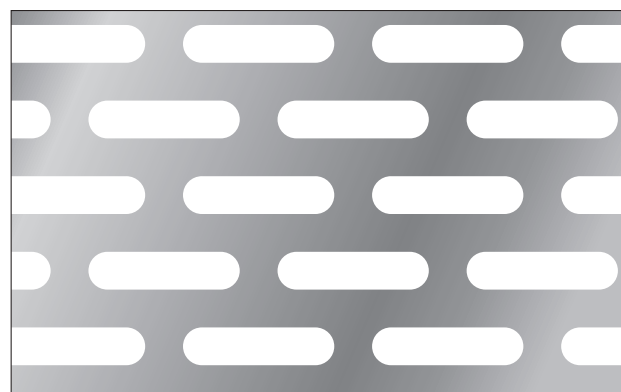
LR 2X20 Z 10X25 VP 31,7%



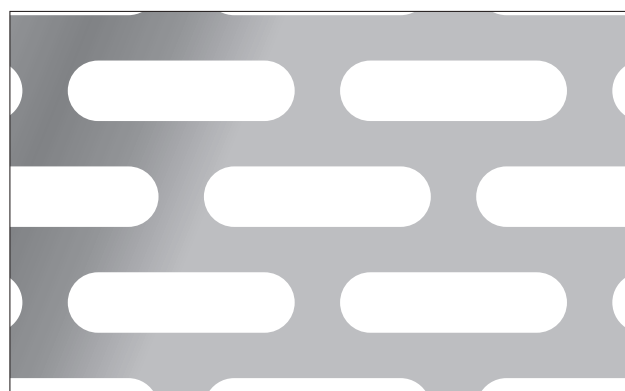
LR 3X20 Z 12X25 VP 39,6%



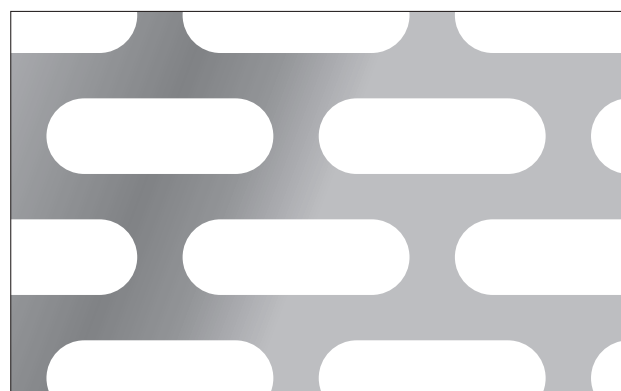
LR 4X20 Z 14X25 VP 45,3%



LR 5X20 Z 20X25 VP 39,6%



LR 8X30 Z 28x36 VP 47,3%



LR 10x30 Z 32x36 VP 51,7%

ELONGATED HOLES [LR] SIDE STAGGERED [Z] TROUS OBLONGS [LR] DISPOSITION EN QUINCONCE [Z]

TECHNICAL DETAILS

SIDE STAGGERED DISPOSITION

a1 = hole width

a2 = hole length

c1 = full between the edges

c2 = full between the heads

Z1 = vertical pitch

Z2 = horizontal pitch

% empty on full =

$$= \frac{a1 \times a2 - 0,2 a1}{Z1 \times Z2} 200$$

DETAILS TECHNIQUES

DISPOSITION EN QUINCONCE

a1 = largeur du trou

a2 = longueur du trou

c1 = plein entre les côtés

c2 = plein entre les têtes

Z1 = pas vertical

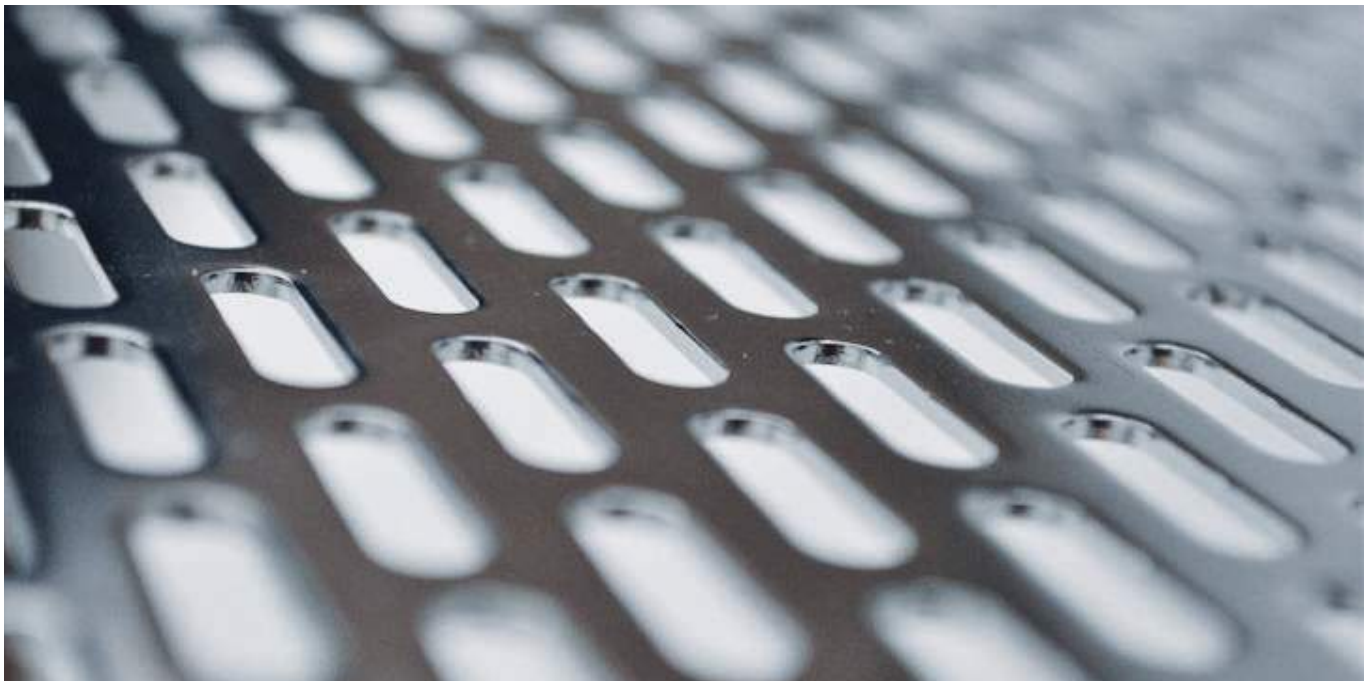
Z2 = pas horizontal

% vide sur plein =

$$= \frac{a1 \times a2 - 0,2 a1}{Z1 \times Z2} 200$$

Foro Holes Trous	Oblunghi alternati Elongated holes side staggered Trous oblongs disposition en quinconce	Passo verticale x orizzontale Z Vertical pitch horizontal pitch Z Pas vertical x horizontal Z	Percentuale vuoto % empty on full % vide sur plein
LR	1x20	7x25	22,60
LR	1,5x20	10x25	23,80
LR	2x20	10x25	31,68
LR	2,5x20	12x24	34,38
LR	3x20	12x25	39,60
LR	3,5x20	13x25	42,65
LR	4x20	14x25	45,26
LR	5x20	20x25	39,60
LR	6x20	24x25	39,60
LR	8x30	28x36	47,30
LR	10x30	32x36	51,74

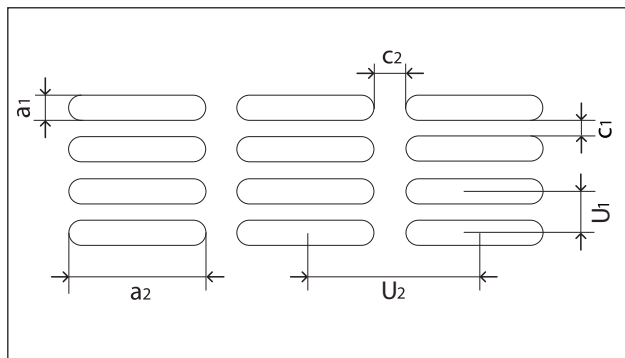
Misure espresse in mm - Dimensions in mm - Dimensions exprimées en mm



LAMIERE PERFORATE

PERFORATED SHEETS
TOLES PERFOREES

FORI OBLUNGHICI [LR] PARI [U]

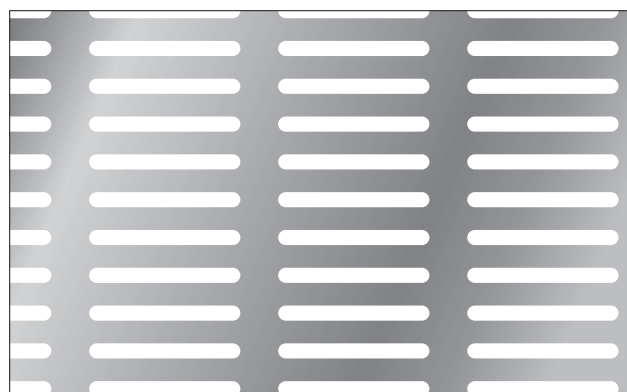


DETTAGLI TECNICI

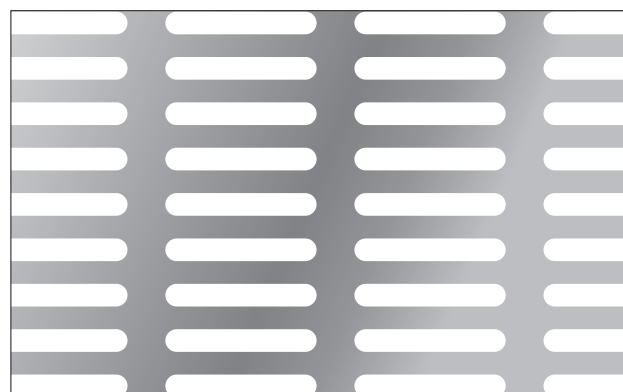
DISPOSIZIONE A FORI PARI

$a1$ = larghezza foro
 $a2$ = lunghezza foro
 $c1$ = pieno tra i lati
 $c2$ = pieno tra le teste
 $U1$ = passo verticale
 $U2$ = passo orizzontale

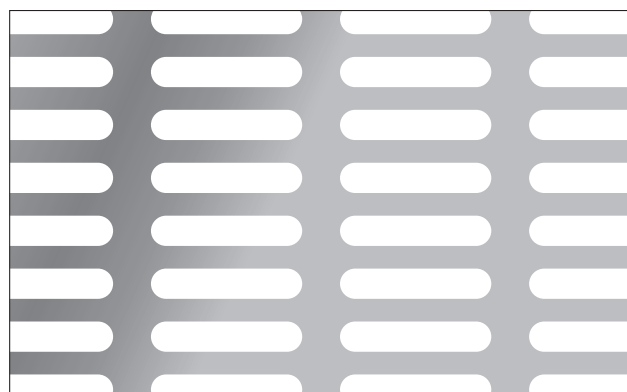
$$\% \text{ vuoto su pieno} = \frac{a1 \times a2 - 0,2 a1}{U1 \times U2} \times 200$$



LR 2X20 U 5X25 VP 31,7%



LR 3X20 U 6X25 VP 39,6%



LR 4X20 U 7X25 VP 45,3%



LR 5X20 U 10X25 VP 39,6%



LR 8X30 U 14x36 VP 47,3%



LR 10x30 U 16x36 VP 51,7%

ELONGATED HOLES [LR] EVEN DISPOSITION [U] TROUS OBLONGS [LR] DISPOSITION EN LIGNE [U]

TECHNICAL DETAILS

EVEN DISPOSITION

a1 = hole width

a2 = hole length

c1 = full between the edges

c2 = full between the heads

U1 = vertical pitch

U2 = horizontal pitch

% empty on full =

$$= \frac{a1 \times a2 - 0,2 a1}{U1 \times U2} 200$$

DETAILS TECHNIQUES

DISPOSITION EN LIGNE

a1 = largeur du trou

a2 = longueur du trou

c1 = plein entre les côtés

c2 = plein entre les têtes

U1 = pas vertical

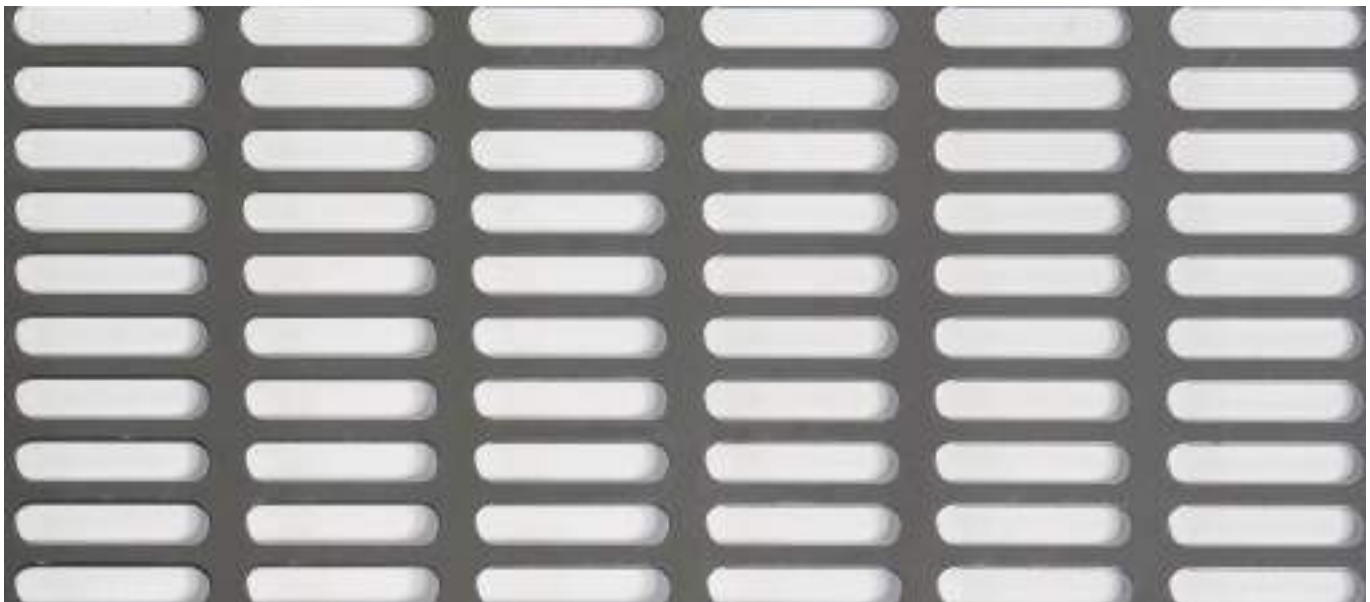
U2 = pas horizontal

% vide sur plein =

$$= \frac{a1 \times a2 - 0,2 a1}{U1 \times U2} 200$$

Foro Hole Trous	Oblunghi pari Elongated holes even disposition Trous oblongs disposition en ligne	Passo verticale x orizzontale U Vertical pitch x horizontal pitch U Pas vertical x horizontal U	Percentuale vuoto % empty on full % vide sur plein
LR	1x20	4x25	19,80
LR	1,5x20	5x25	23,80
LR	2x20	5x25	31,68
LR	2,5x20	6x24	34,38
LR	3x20	6x25	39,60
LR	3,5x20	6,5x25	42,65
LR	4x20	7x25	45,26
LR	5x20	10x25	39,60
LR	6x20	12x24	41,25
LR	6x30	11x35	46,40
LR	8x30	14x36	47,30
LR	10x30	16x36	51,74

Misure espresse in mm - Dimensions in mm - Dimensions exprimées en mm





LAMIERE PERFORATE FANTASIA

FANCY HOLE
TROUS DECORATIFS

CARATTERISTICHE

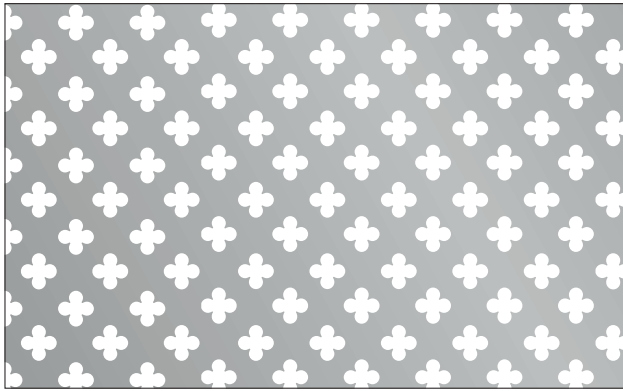
Le lamiere perforate con fori fantasia sono richieste come elementi di architettura o decorazioni per ringhiere, recinzioni, ornamenti e per interni. Le dimensioni delle lamiere hanno una misura commerciale ma possono essere anche prodotte a disegno. Gli spessori variano dai 5/10, 8/10 ai 10/10. I disegni delle lamiere foro fantasia maggiormente utilizzati sono di seguito riportati in scala.

CHARACTERISTICS

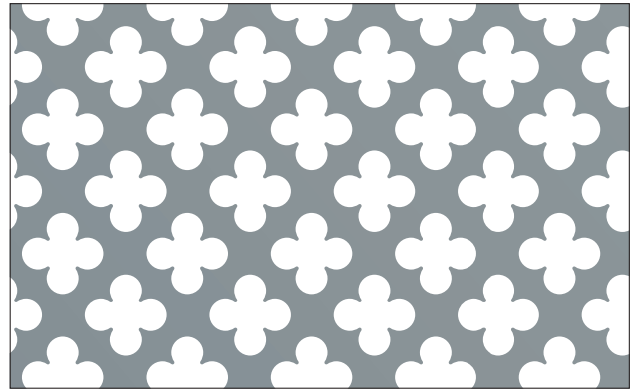
Perforated plates with fancy holes are requested as architectural elements or decorations for railings, fences, ornaments and for interiors. The plate dimensions are commercial sizes but can also be produced custom. The thicknesses ranging from 5/10 to 8/10 and 10/10. The most frequently used fancy hole designs are shown at page 51.

CARACTERISTIQUES

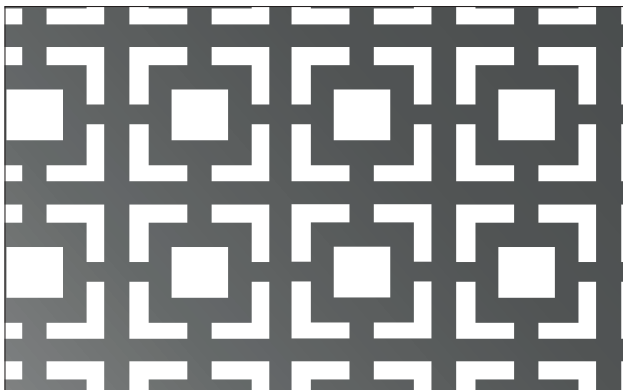
Les tôles perforées fantaisie sont utilisées comme éléments architecturaux ou décoratifs de rampes, clôtures, ornements ou éléments intérieurs. Les tôles sont réalisées dans des dimensions standard mais peuvent également être fabriquées sur plan. Les dimensions sont variables: 5/10, 8/10, jusqu'à 10/10. Les motifs des tôles perforées fantaisie les plus utilisés sont reproduits à la page 51 à l'échelle.



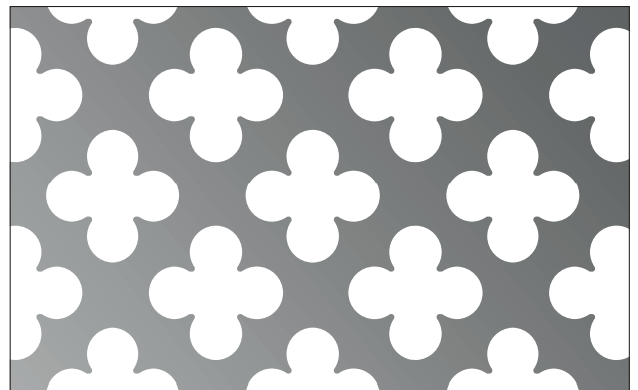
TIPO FANTASIA A1



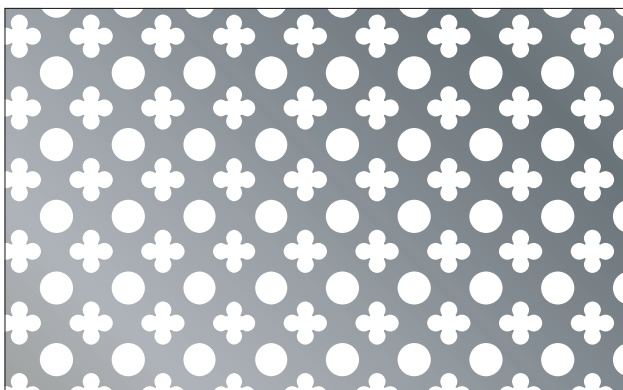
TIPO FANTASIA A2



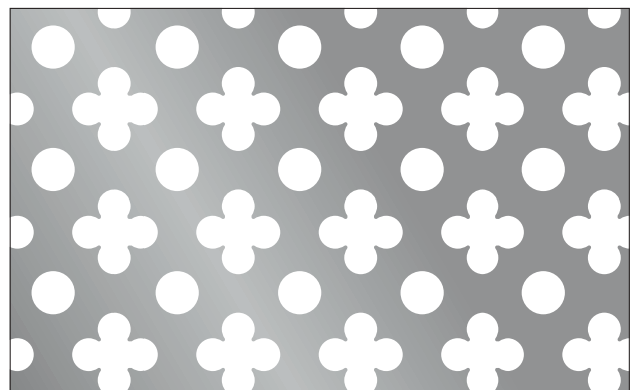
TIPO FANTASIA A3



TIPO FANTASIA A4



TIPO FANTASIA A5



TIPO FANTASIA A6



LAMIERE PERFORATE LAVORAZIONI SPECIALI

*SPECIAL PROCESSING
FABRICATIONS SPÉCIALES*

CARATTERISTICHE

Per soddisfare le vostre esigenze offriamo perforazioni nelle più svariate forme, forature e spessori.

Le lamiere possono essere anche calandrate o piane con attacchi e sono realizzate in numerosi materiali compresi gli antiusura o gli acciai alta resistenza.

Le produzioni si realizzano su disegno e a misura per singoli pezzi o in serie.

CHARACTERISTICS

We are able to offer a wide range of perforation patterns – thickness and dimensions.

Perforated metal sheets are available in many different qualities of steel: high strength steel- anti wear steel.

They can be curved to size or flattened with or without tensioning hooks.

Custom made on request: single piece or mass production.

CARACTERISTIQUES

Pour satisfaire vos exigences nous proposons un éventail le plus varié en dimensions, épaisseurs et perforations.

Il y a plusieurs possibilités:

différentes nuances de la matière (acier haute résistance acier anti abrasion), tôles poinçonnées et calandrées avec

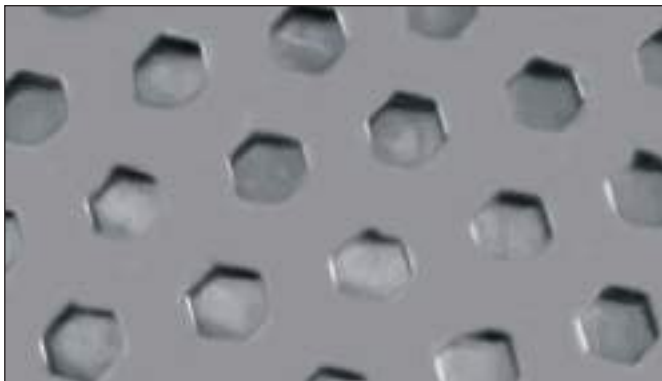
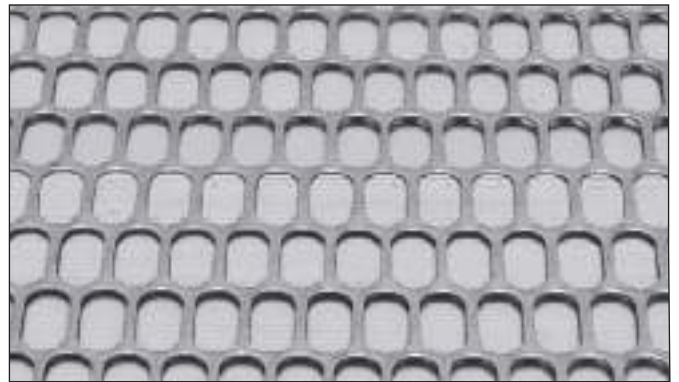
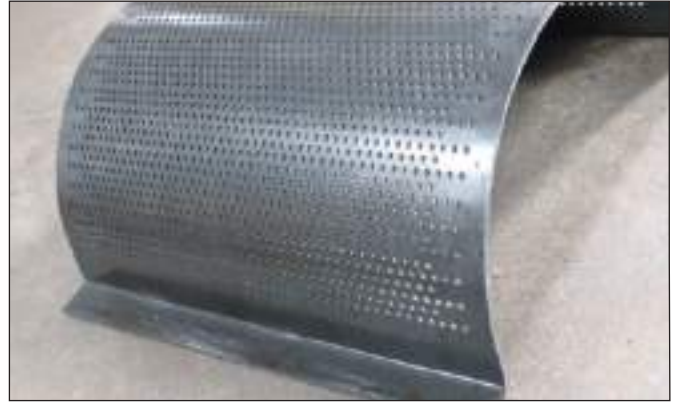
ou sans crochets de tension.

Fabrication à mesure ou suivant vos plans, à l'unité ou en série.



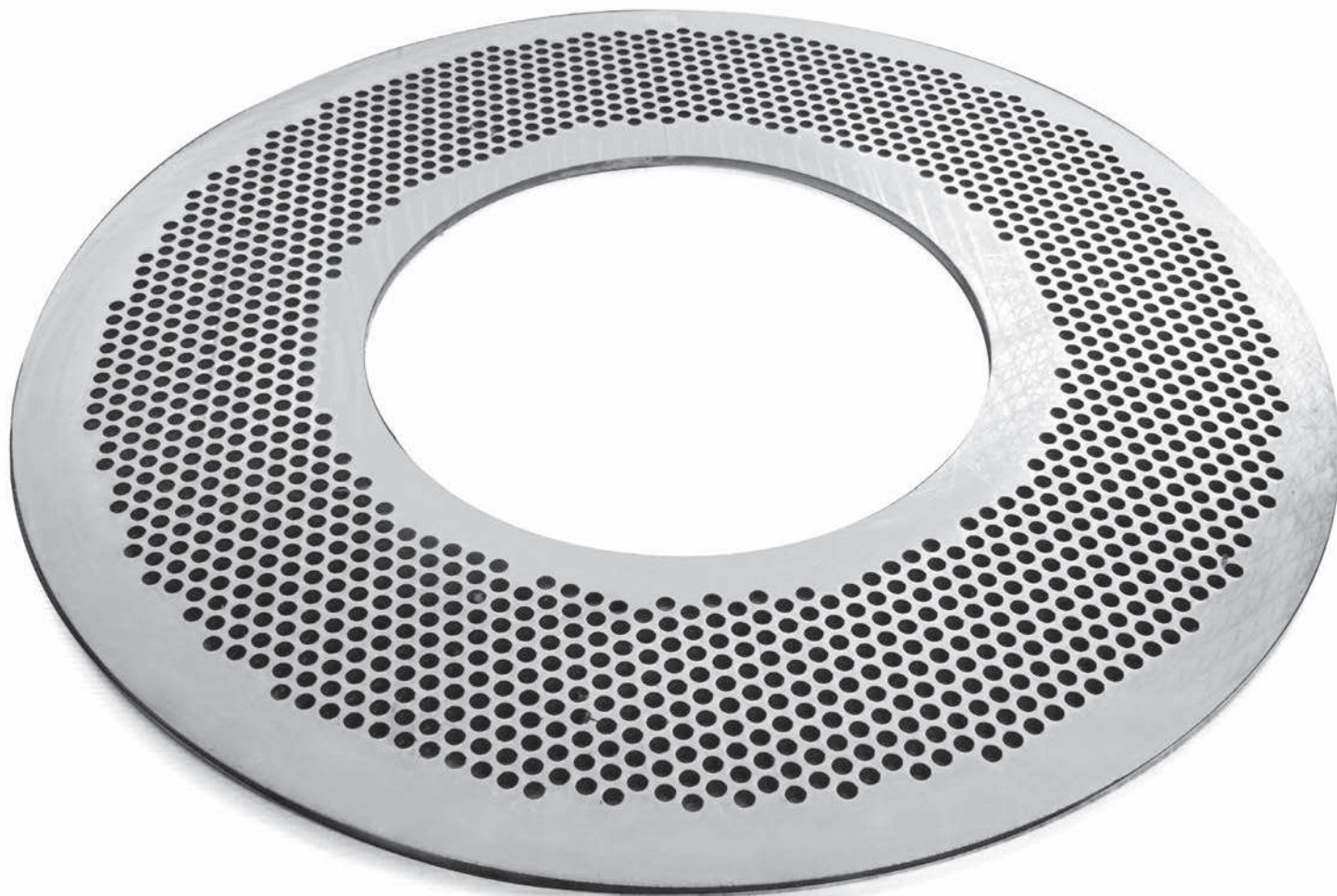
LAMIERE PERFORATE

PERFORATED SHEETS
TOLES PERFOREES



LAVORAZIONI SPECIALI

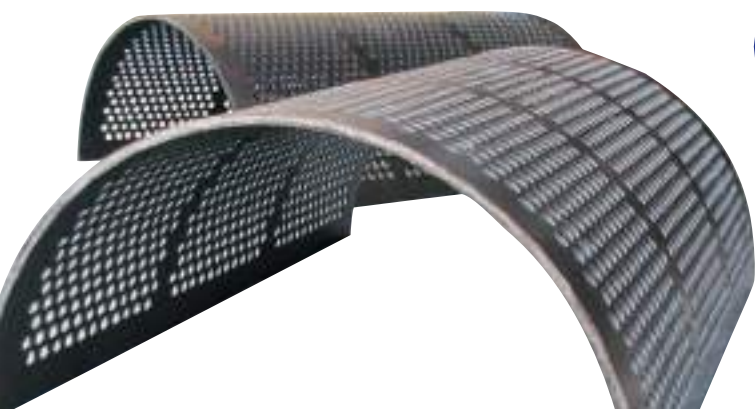
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FABRICATIONS SPECIALES



**Le vostre esigenze sono
il nostro lavoro**

Our job: a due attention to your needs

Notre métier: une écoute
attentive à vos exigences



CONTATTACI

CONTACT US - CONTACTEZ-NOUS

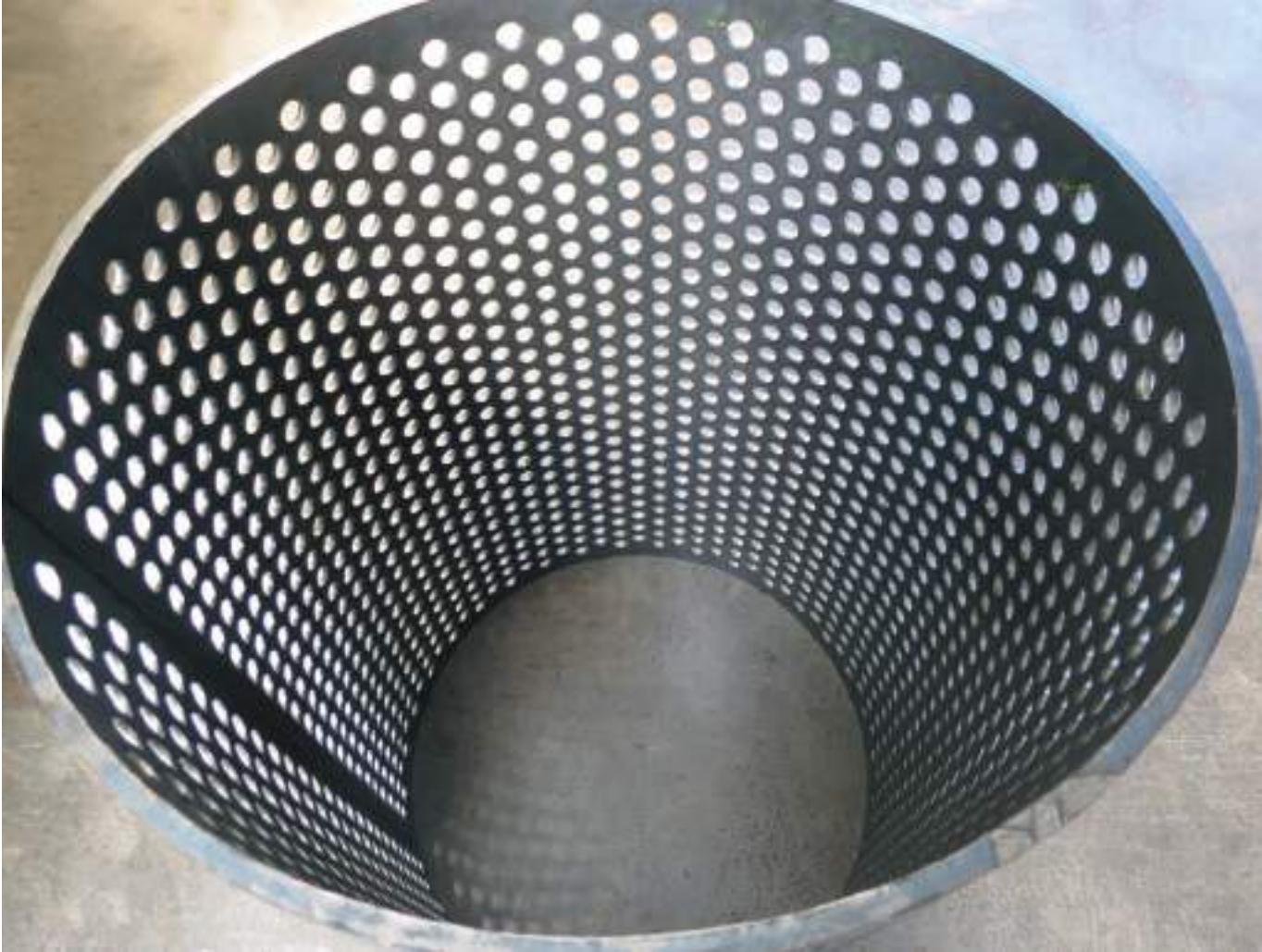
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