



Graepel - Lamiere forate

Perforazioni standard e assortimento di magazzino

Graepel - Perforated sheets

Standard patterns and stock list

Graepel - Lochbleche

Standardlochungen und Lagerliste

Graepel - Tôles perforées

Perforations standards et liste de stock

Formati / Sizes / Formate / Formats:

1000x2000 | 1250x2500 | 1500x3000 mm

Materiali / Material / Material / Matières:

EN - DC01 - DD11 - S235

Aisi 304 = W.Nr. 1.4301

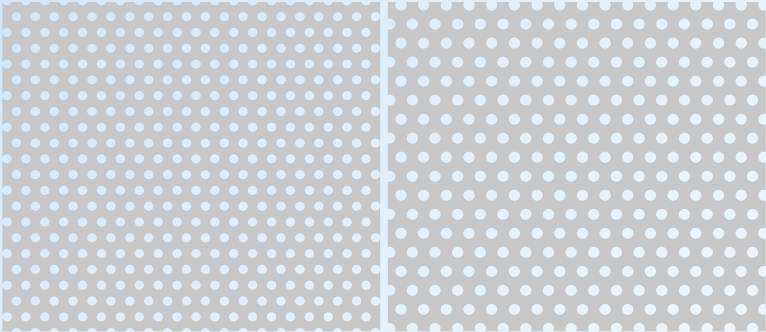
Aisi 316 Ti = W.Nr. 1.4571

Alluminio, aluminium, Aluminium, aluminium

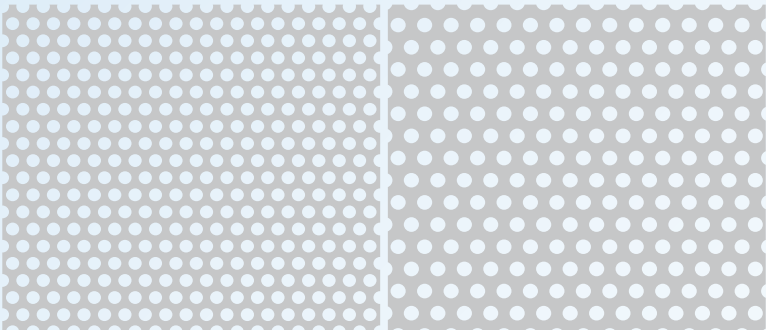
Zincato, galvanized, verzinkt, galvanisé



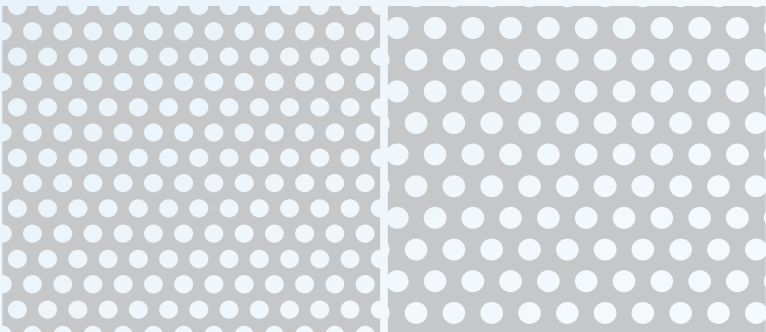
Fori tondi, round holes, Rundlochungen, trous ronds a 60°



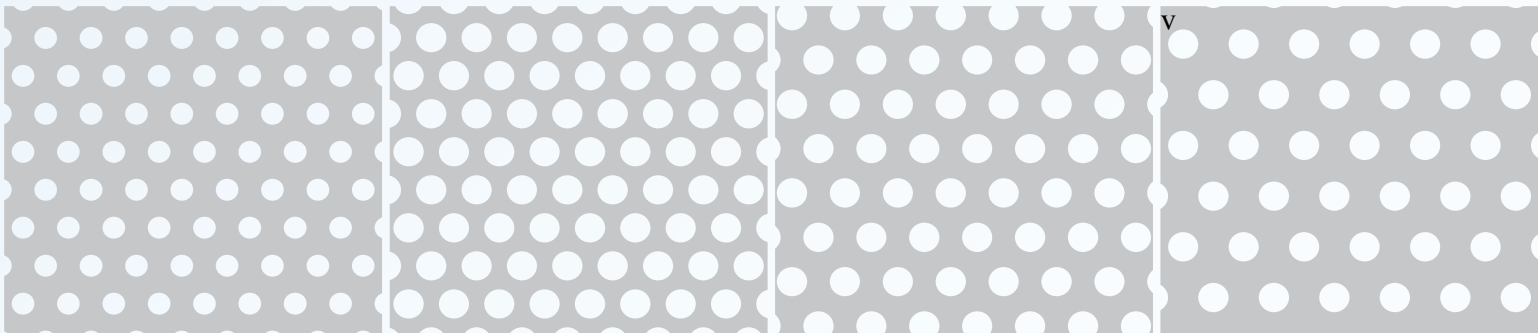
d. 1,25 p. 2,5 v/p 23% d. 1,5 p. 3 v/p 23%



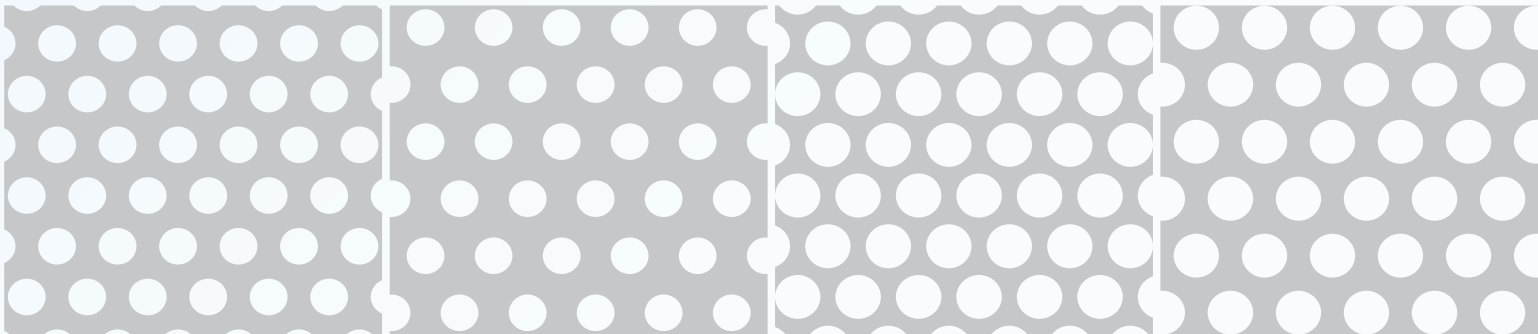
d. 1,75 p. 2,7 v/p 37% d. 2 p. 3,5 v/p 30%



d. 2,5 p. 4 v/p 35% d. 3 p. 5 v/p 33%



d. 3 p. 6 v/p 23% d. 4 p. 6 v/p 40% d. 4 p. 7 v/p 30% d. 4 p. 8 v/p 23%



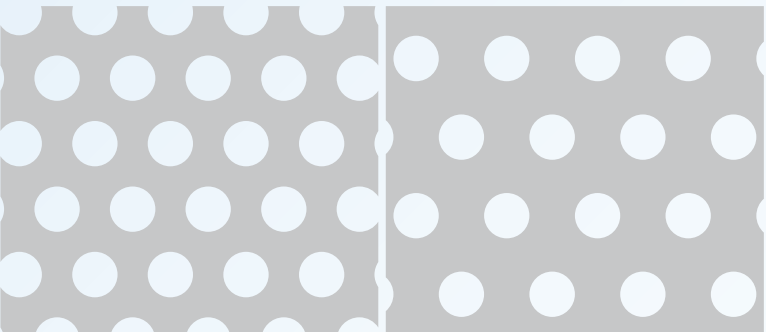
d. 5 p. 8 v/p 36% d. 5 p. 9 v/p 28% d. 6 p. 8 v/p 51% d. 6 p. 9 v/p 40%

d = apertura foro p = passo v/p = vuoto su pieno • = standard a richiesta x = standard dal pronto (salvo venduto)
larg. max. = larghezza massima possibile della lamiera
voir page 5, siehe S. 5, see page 5

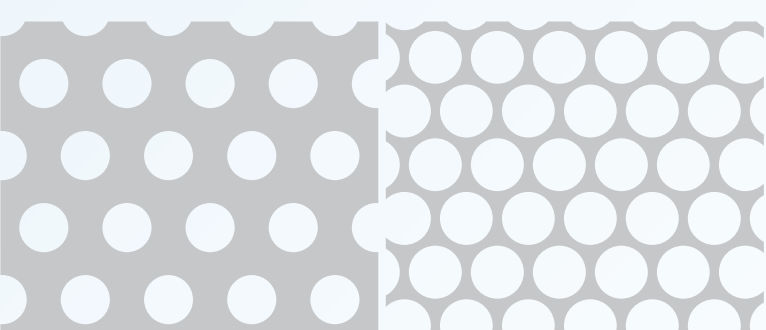


Fori tondi, round holes, Rundlochungen, trous ronds a 60°

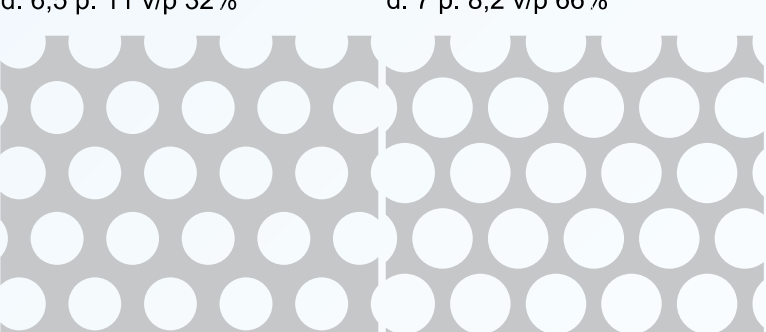
d	p	v/p	largh.	spessore										
mm	mm	%	max	0,5	0,8	1,0	1,5	2,0	3,0	4,0	5,0	6,0	8,0	10,0
6	9,5	36	1.300	•	•	•	•	•	•					
6	10	33	2.000		•	•	•	•	x	x	•			
6	11	27	2.000						•	•	•			
6	12	23	2.000							•	x	x		
6,5	8	60	1.300	•	•	•								
6,5	9	48	1.500											
6,5	11	32	1.300				•	•	•					
7	8,2	66	1.300	•	•	x								
7	9	55	1.300	•	•	•	•	•	•					
7	10	45	1.500	•	•	•	x	x	•					
7	12	31	1.300				•	•	•					
7,5	9	63	1.300	•	•	•	•	•						
8	10	58	1.500		•	x	•	•						
8	11	48	1.500	•	•	•	•	•						
8	12	40	2.000	•	x	x	x	x	x	•	•			
8	13	34	2.000					•	•	x	x	•		
8	14	30	2.000			•	•		•		•	•		
8	15	26	2.000						•	•	•	x	x	
8	16	23	1.300	•	•	•	•	•	•	•				
8	22	12	2.000					•	•	•				
8	25	9,5	1.500	•	•	•	•							
8	26,5	9	1.500				•	•	•					
9	13	44	1.500		•	•	x	•						
9	15	33	2.000				•	•	•	•	•	•		
10	12	63	1.500		•	•	•	•						
10	13	54	2.000						•	•				
10	14	46	1.500	•	•	•	•	•						
10	15	40	2.000		x	x	x	x	x	x	x	•	•	•
10	18	28	2.000					•	•	•	•	x	x	•
10	20	23	2.000								•	•		x
10	25	14,5	1.500	•	•	•	•							
12	15	58	1.500	•	•	•	•	•	•					
12	16	51	1.300		•	•	•	•	•					



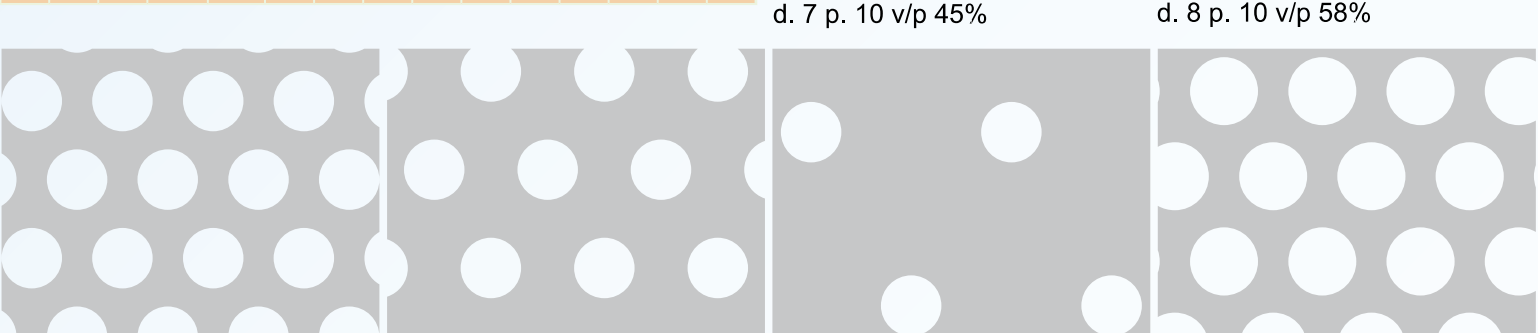
d. 6 p. 10 v/p 33% d. 6 p. 12 v/p 23%



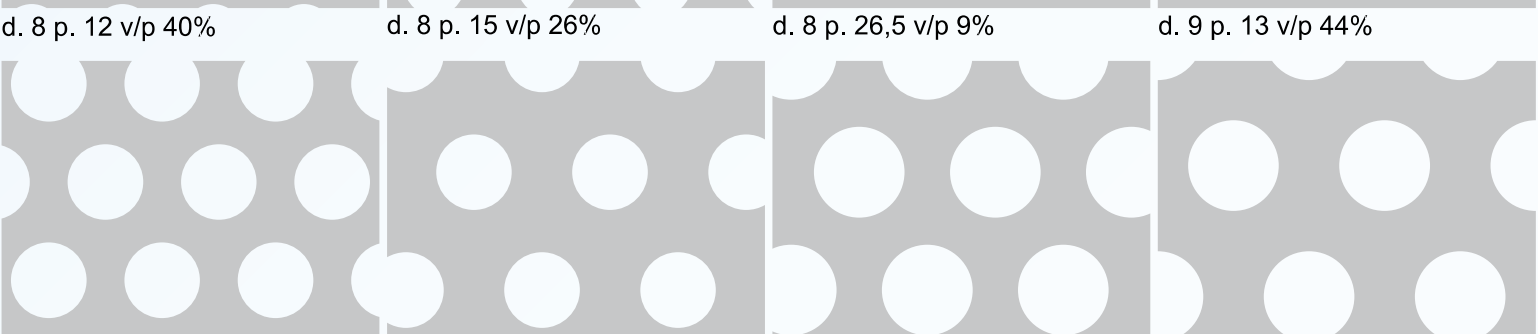
d. 6,5 p. 11 v/p 32% d. 7 p. 8,2 v/p 66%



d. 7 p. 10 v/p 45% d. 8 p. 10 v/p 58%



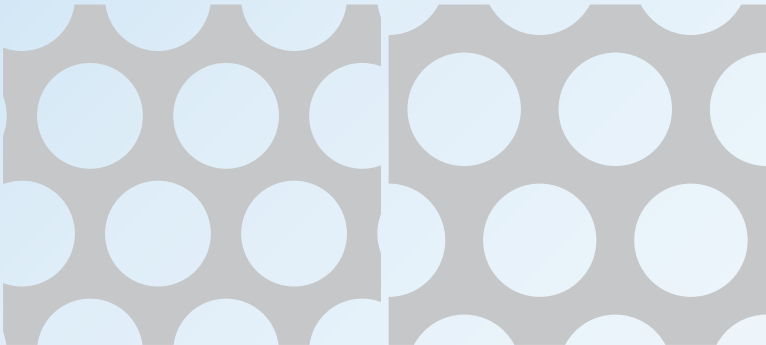
d. 8 p. 12 v/p 40% d. 8 p. 15 v/p 26% d. 8 p. 26,5 v/p 9% d. 9 p. 13 v/p 44%



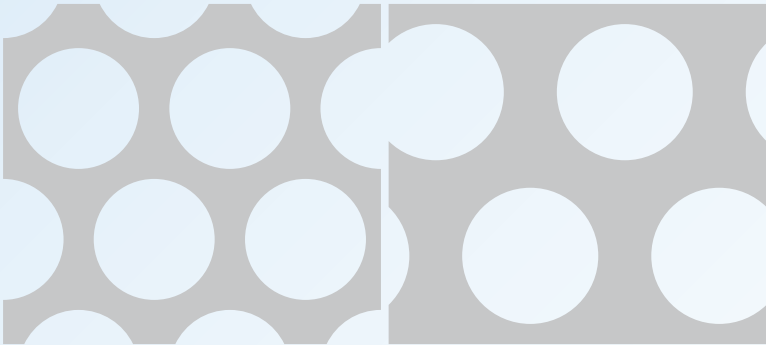
d. 10 p. 15 v/p 40% d. 10 p. 18 v/p 28% d. 12 p. 18 v/p 40% d. 12 p. 20 v/p 33%



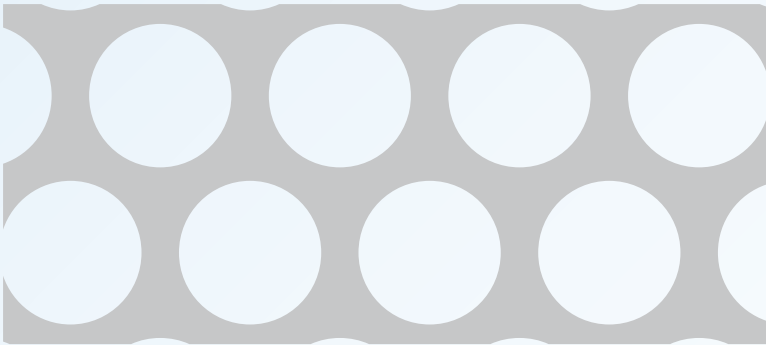
Fori tondi, round holes, Rundlochungen, trous ronds a 60°



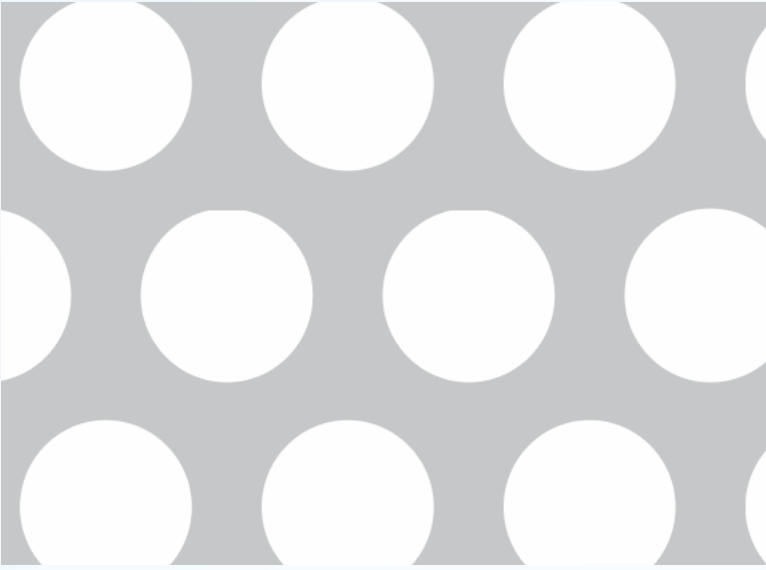
d. 14 p. 18 v/p 55% d. 15 p. 20 v/p 51%



d. 16 p. 20 v/p 58% d. 18 p. 25 v/p 47%



d. 19 p. 24 v/p 57%



d. 20 p. 28 v/p 46%

d = apertura foro
p = passo
v/p = vuoto su pieno
• = standard a richiesta
x = standard dal pronto (salvo venduto)
larg. max. = larghezza massima possibile della lamiera

d	p	v/p	largh.	spessore														
				max	0,8	1,0	1,5	2,0	3,0	4,0	5,0	6,0	8,0	10,0	12,0	15,0		
12	25	21	2.000						•	•	•	•	•	•	•			
13	18	54,5	2.000	•	•	•	•	•	•	•	•	•	•	•				
13	20	38	1.500					•	•									
14	16	70	1.500	•	•	•	•											
14	18	55	2.000	•	x	•	x	x	•	•								
14	20	44,5	2.000	•	•	•	•	•	•	•	•	•	•					
14	25	32,5	2.000	•	•	•	•	•	•	•	•	•	•					
15	18	63	1.500	•	•	•	•	•										
15	20	51	2.000	•	x	x	x	x	x	x	x	•			•			
15	21	46	1.500	•	•	•	•	•										
15	22	42	2.000	•	•	•	•	•	•	•	•	•	•	•				
15	25	33	2.000					•	•	•	•	•	•	•				
16	18	72	1.500				•	•										
16	20	58	1.500	•	•	•	•	x										
16	24	40	2.000									•	•					
18	21	66	1.500	•	•	•	•											
18	24	51	2.000	•	•	•	•	•	•	•	•	•	•					
18	25	47	2.000		•	x	x	x	•	•	•							
19	24	57	2.000					•	•									
20	23,1	68	2.000	•	•	•	•	•	•									
20	25	58	2.000				•	•	•	•	•	•						
20	26	54	2.000	•	•	•	•	•	•	•	•	•	•					
20	28	46	2.000	•	•	x	x	x	•	•	•							
20	30	40	2.000		•	•	•	•	x	x	•	x	•					
20	32	35	1.500				•	•										
20	34	32	2.000						•				•	•	•			
25	28,5	69,8	1.500	•	•	•	•	•	•	•								
25	34	42	2.000									•	•					

d. 25 p. 32 v/p 55%

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siehe S. 5
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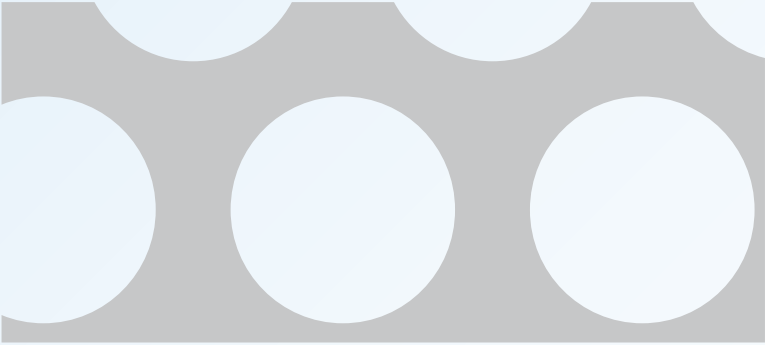
Fori tondi, round holes, Rundlochungen, trous ronds a 60°

d	p	v/p	largh.	spessore														
				max	1,0	1,5	2,0	3,0	4,0	5,0	6,0	8,0	10,0	12,0	15,0			
30	36	63	2.000	•	•	•	•	•	•	•	•							
30	40	51	2.000		•	x	x	•	•	•	•	•						
35	41	66	2.000					•	•	•								
35	47	50,5	2.000	•	•	•	•	•	•	•	•	•	•					
37	47	56	2.000	•	•	•	•	•	•	•	•	•	•					
40	50	58	2.000				•	•	•	•	•	•	•					
40	56	47	2.000	•	•	•	•	•	x	•	•	•	•		•			
45	56	59	2.000				•	•	•	•								
50	64	55	2.000				•	•	x	•	•	•	•	•				
52	64	51	2.000	•	•	•	•	•	•	•	•	•	•	•				
56	64	51	2.000	•	•	•	•	•	•	•	•	•	•					
60	75	51	2.000	•	•	•	•	•	•	•	•	•	•	•	•			
60	80	51	2.000				•	•	•	•	•	•			•			
70	90	55	2.000					•	•	•	•				•			
80	n	y	2.000					•	•	•	•	•	•					
100	n	y	2.000					•	•									
120	n	y	2.000						•	•		•	•					

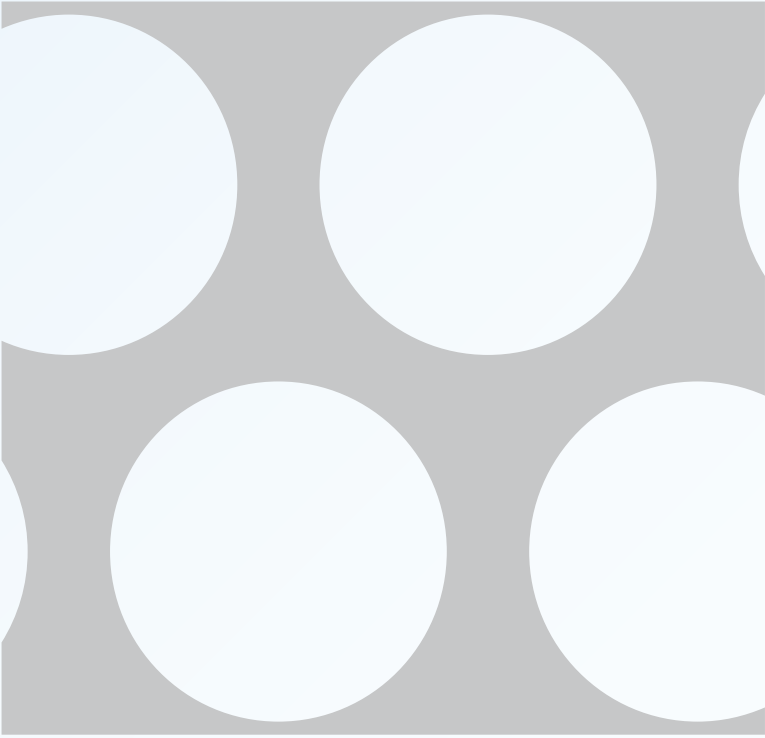
d = opening of hole
p = pitch
v/p = open surface
• = standard perforation
x = stockposition
larg. max = biggest possible sheet width

d = Lochweite
p = Teilung
v/p = freier Durchlass
• = Standard auf Bestellung
x = Lagerposition
larg. max = größtmögliche Blechbreite

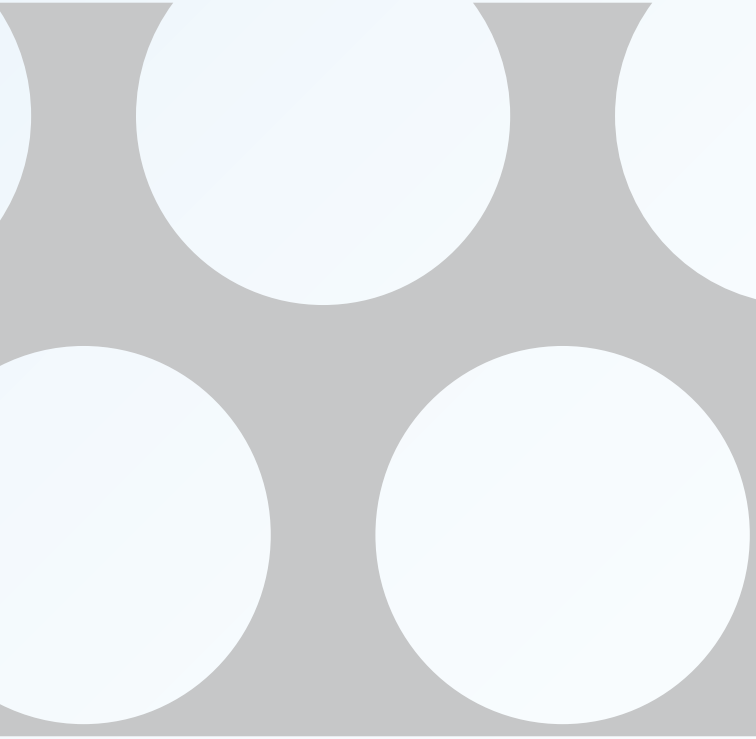
d = mesure du trous
p = entraxe
v/p = passage
• = perforation standard



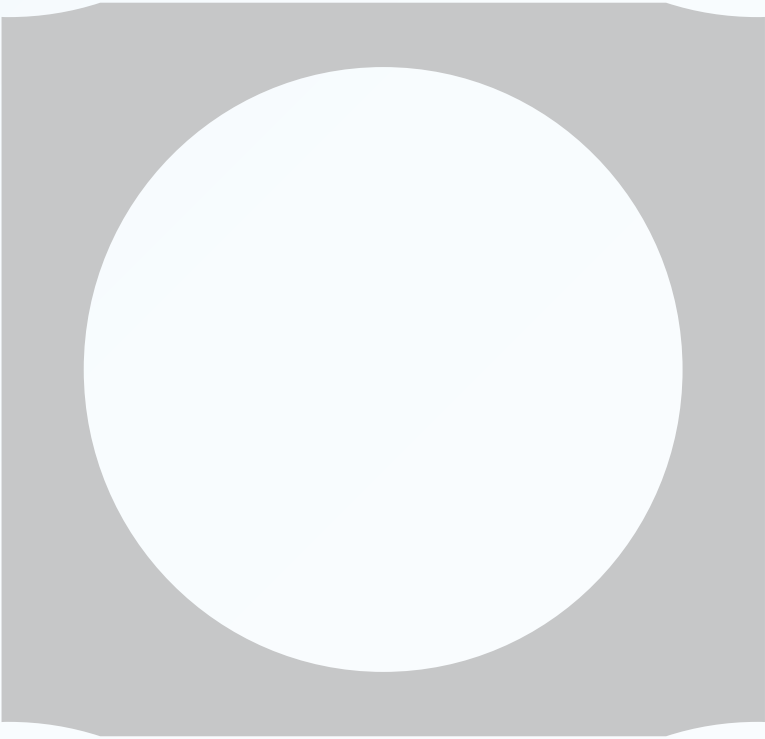
d. 30 p. 40 v/p 51%



d. 45 p. 56 v/p 59%

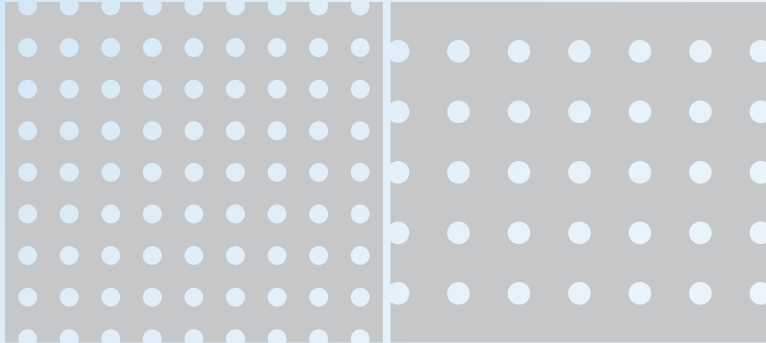


d. 50 p. 64 v/p 55%

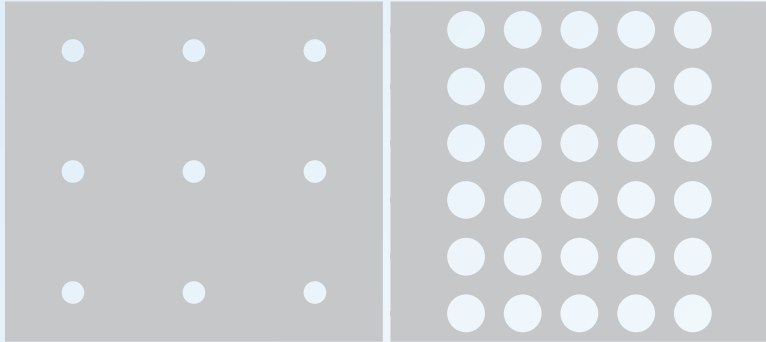


d. 80 p. n v/p y%

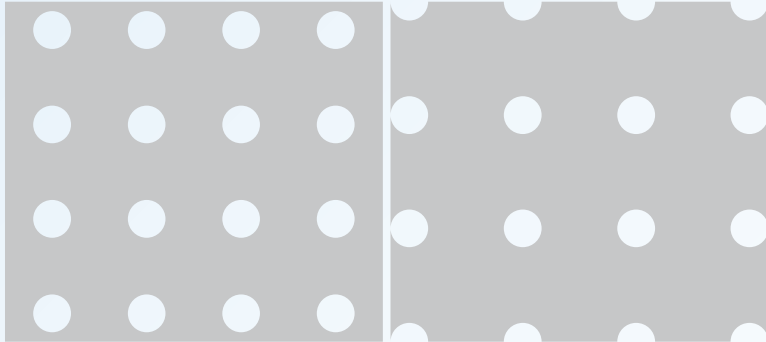
Fori tondi pari, round holes straight centres,
Rundlochanungen gerade Reihen, trous ronds en lignes



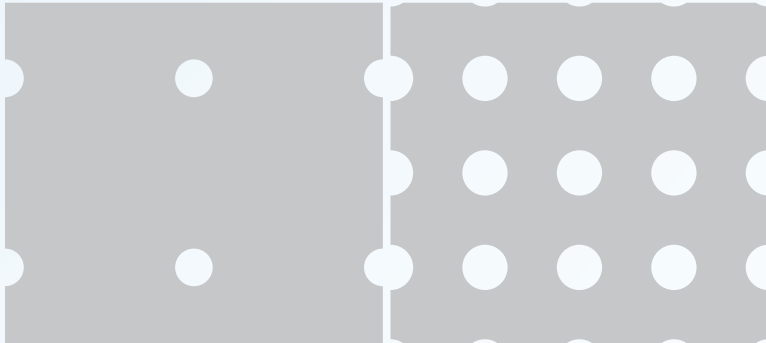
d. 2,5 p. 5,5 v/p 16% d. 3 p. 8 v/p 11%



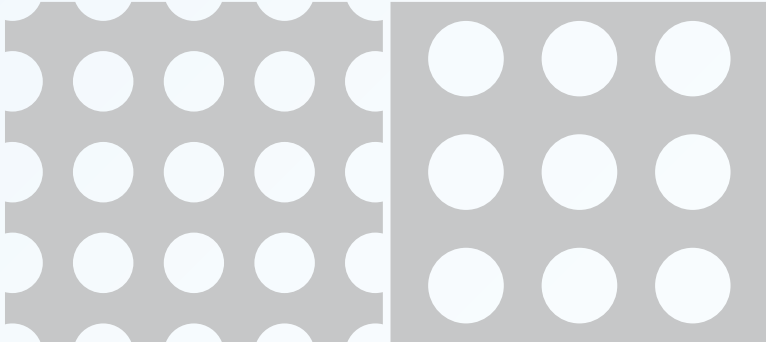
d. 3 p. 16 v/p 3% d. 5 p. 7,5 v/p 35%



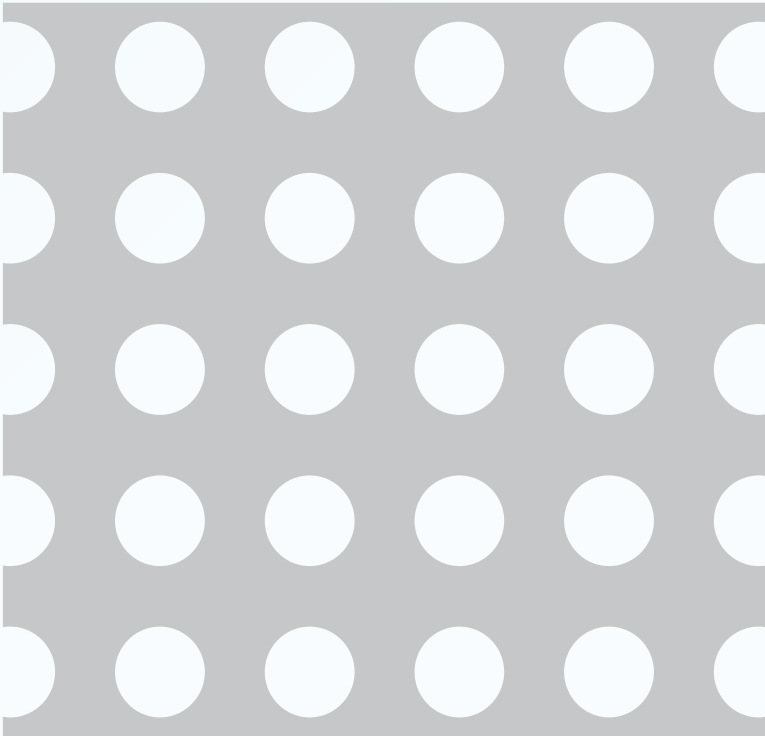
d. 5 p. 12,5 v/p 13% d. 5 p. 15 v/p 9%



d. 5 p. 25 v/p 3% d. 6 p. 12,5 v/p 18%



d. 8 p. 12 v/p 35% d. 10 p. 15 v/p 35%



d. 12 p. 20 v/p 28%

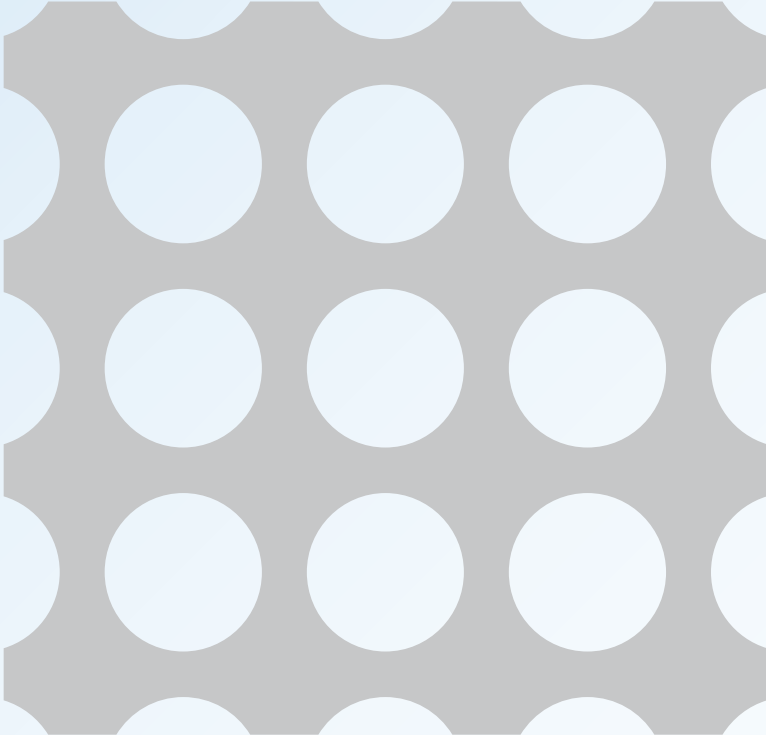
d	p	v/p	largh.spessore								
mm	mm	%	max	0,5	0,8	1,0	1,2	1,5	2,0	3,0	4,0
2,5	5,5	16	1.500	•	•	•	•	•			
3	5	28,3	1.500	•	•	•	•	•	•		
3	8	11	2.000					•	•	•	
3	16	3	2.000					•	•	•	
4,5	15	7	1.500		•	•		•	•		
4,5	25	2,5	1.500	•	•	•	•	•	•	•	
5	7,5	35	1.500					•	•		
5	8	30,7	1.500	•	•	•	•	•	•	•	
5	10	20	2.000					•	•		
5	12,5	13	1.300	•	•	x		x	•		
5	13,9	10	1.500	•	•	•		•	•	•	
5	15	9	1.500					•	•		
5	25	3	1.300	•	•	x		x	•		
6	10	28,3	2.000	•	•	•	•	•	•	•	
6	12,5	18	1.300	•	•	•		•			
6	25	5	1.300	•	•	•		•			
8	15	22,3	2.000	•	•	•	•	•	•	•	•
8	12	35	1.300		•	•					
10	15	35	2.000	•	•	•		•	•	•	
12	20	28	1.300					•	•		
15	25	28	2.000	•	•	•	•	•	•	•	•
15	50	7	1.300		•	•			•	•	•

d = apertura foro
p = passo
v/p = vuoto su pieno
• = standard a richiesta
x = standard dal pronto (salvo venduto)
larg. max. = larghezza massima possibile della lamiera

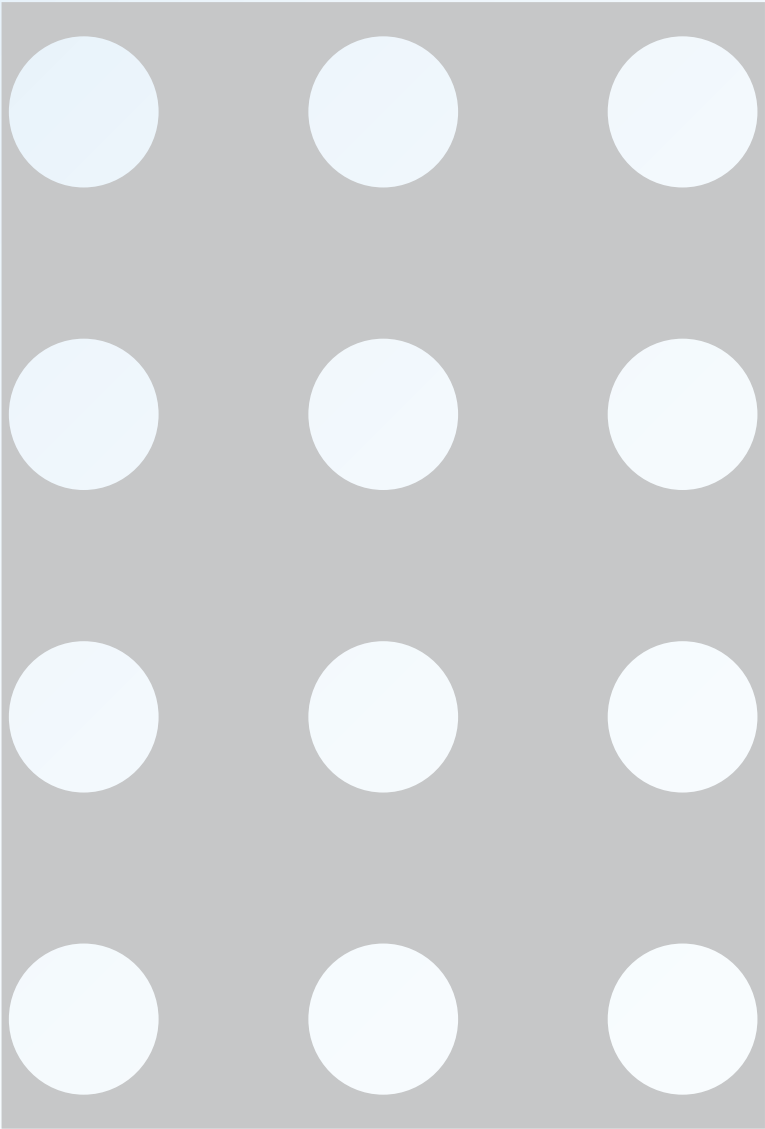
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Fori tondi pari, round holes straight centres,
Rundlochanungen gerade Reihen, trous ronds en lignes

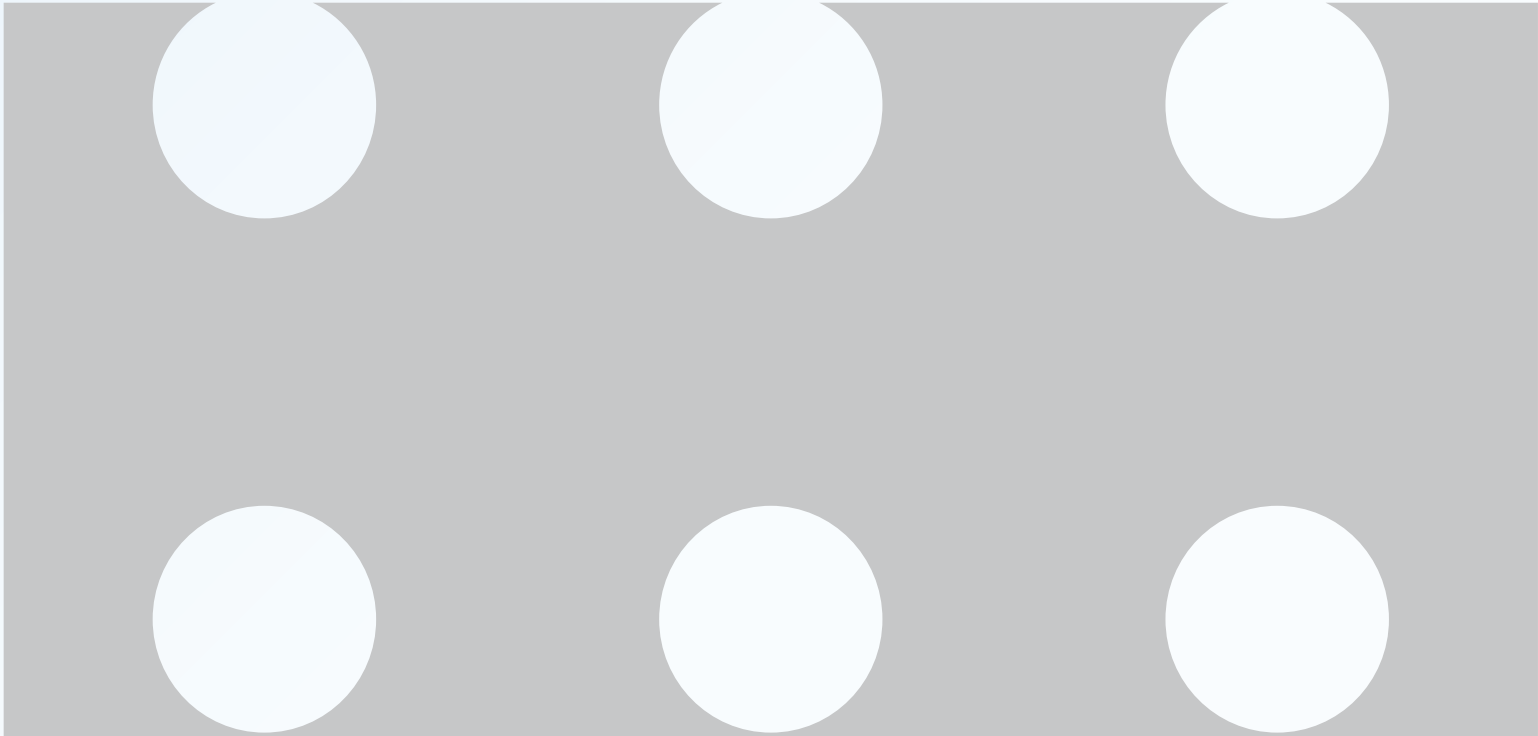
d	p	v/p	largh. spessore							
mm	mm	%	max	0,8	1,0	1,5	2,0	3,0	4,0	5.0
20	40	20	1.300			•	•	•		
21	27	48	2.000			•	•			
25	75	9	1.500			•	•			
27	50	23	2.000	•	•	•	•	•	•	•
30	68	15	1.500			•	•			
37	50	43	2.000	•	•	•	•	•	•	•
40	75	22	2.000	•	•					
50	70	40	1.500				•	•		
60	120	20	2.000					•	•	



d. 21 p. 27 v/p 48%



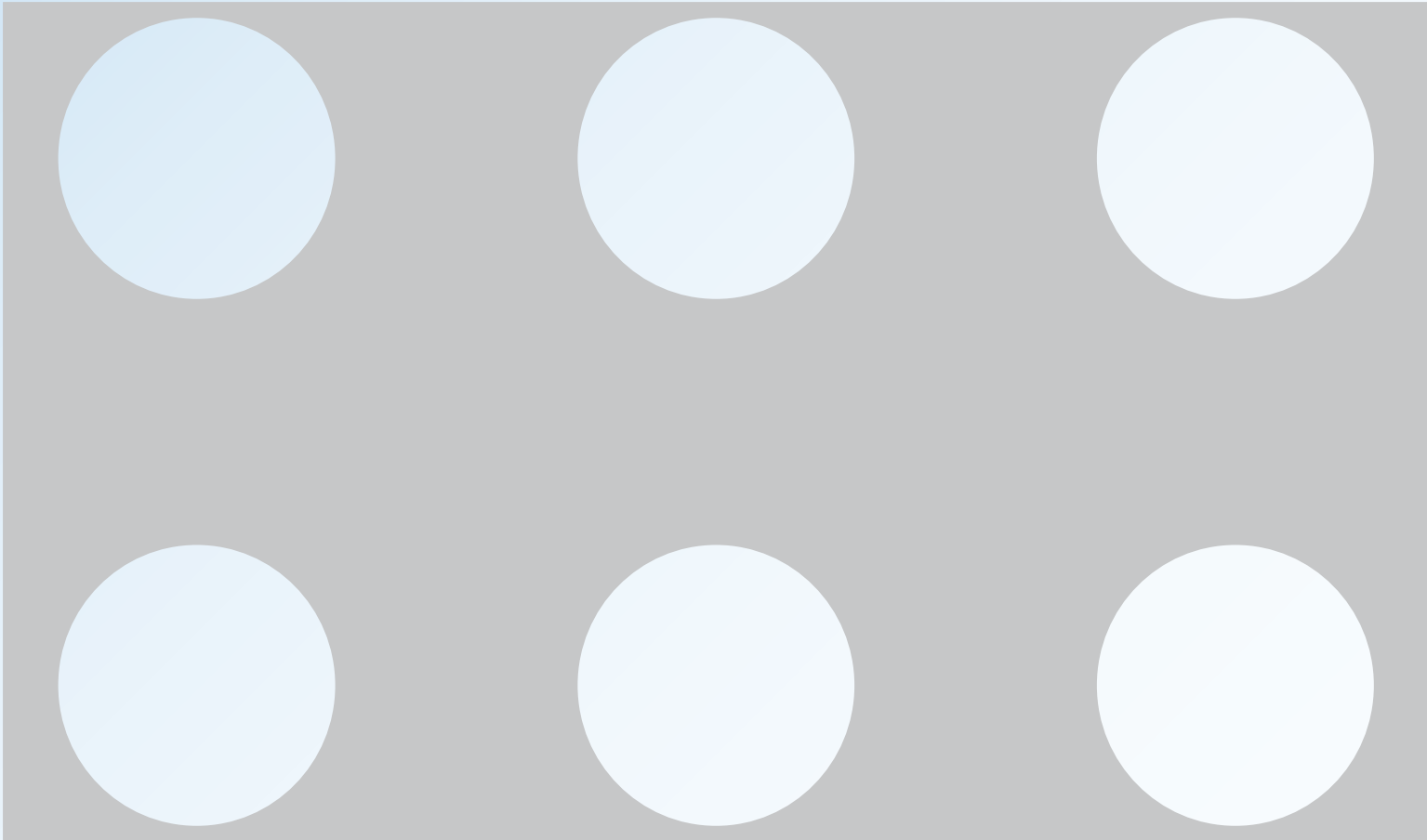
d. 20 p. 40 v/p 20%



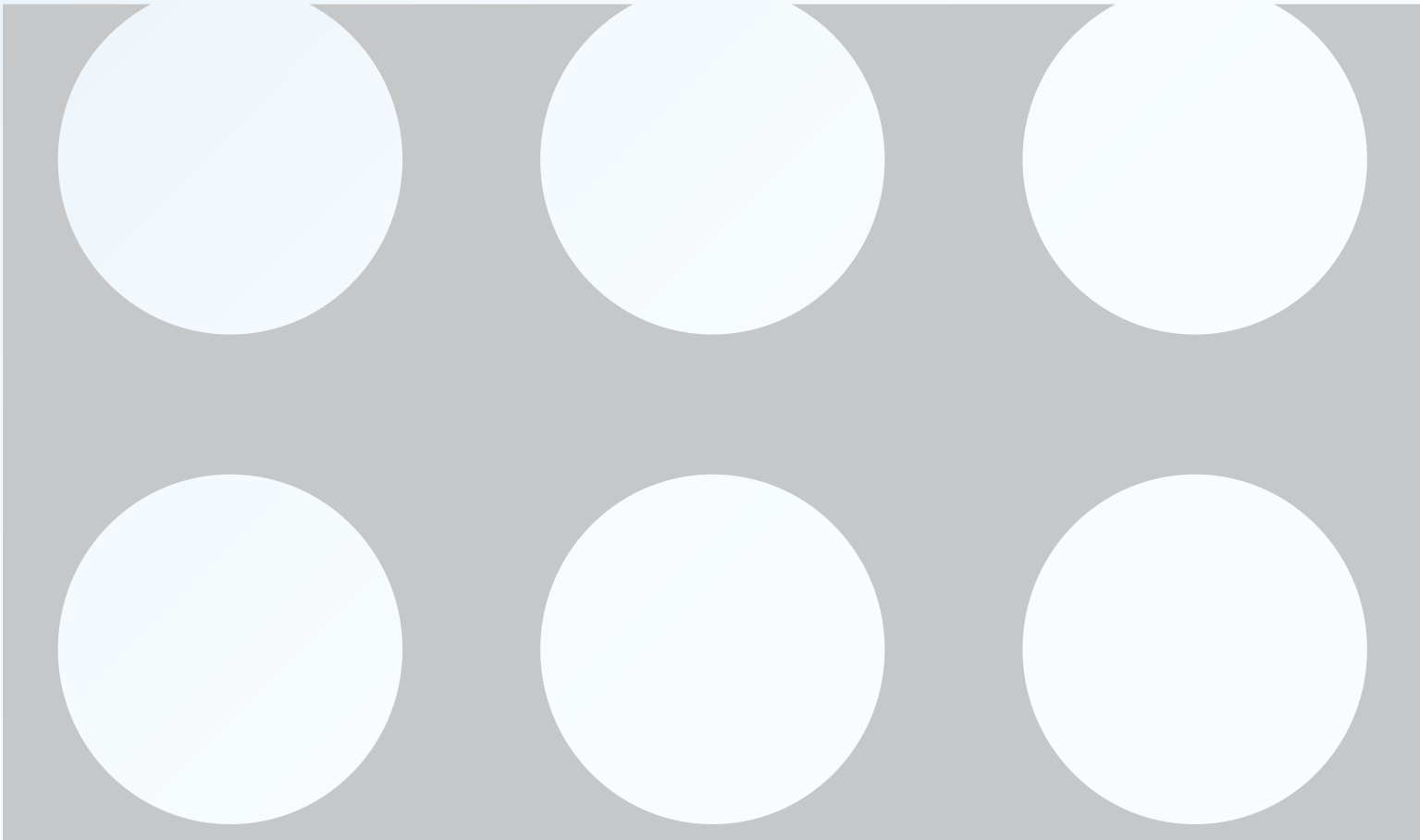
d. 30 p. 68 v/p 15%



Fori tondi pari, round holes straight centres,
Rundlochanungen gerade Reihen, trous ronds en lignes



d. 40 p. 75 v/p 22%



d. 50 p. 70 v/p 40%

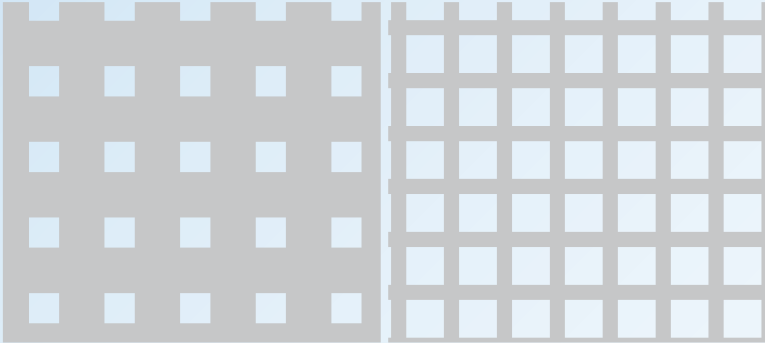


Fori quadri, square holes, Quadratlochanungen,
trous carrés

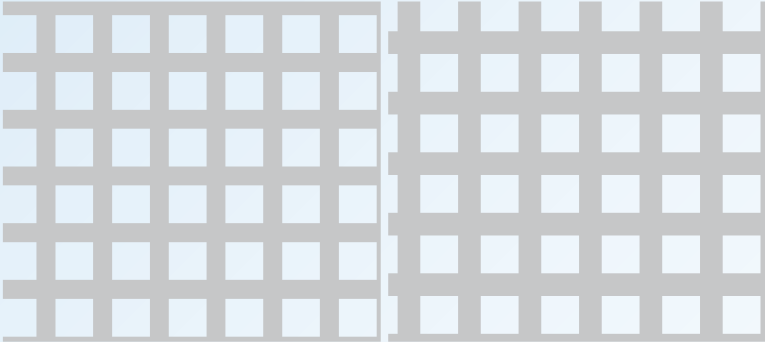
a	p	v/p	largh.	spessore									
mm	mm	%	max	0,5	0,8	1,0	1,5	2,0	3,0	4,0	5,0	6,0	
4	10	16	1.300	•	•								
5	7	51	1.300	•	•	x	x						
5	7,5	45	1.500	•	•	•	•						
5	8	39	1.500		•	•	•	•					
5,5	7,5/15	27	2.000	•									
6	10	36	2.000	•	•	•	•	•	•	•			
6	12	34	1.300	•	•	•	•	•					
6	15	16	1.300	•	•								
6	15/30	8	1.300	•	•								
7	10	49	1.300		•	•		•					
7	12	34	1.300		•	•	•						
8	10	64	1.300	•	•	x	x	•					
8	12	44	2.000	•	•	•	•	•	•	•			
8	23	12	1.500	•	•	•	•	•	•				
9	19	23	1.500				•	•					
10	12	69	1.300	•	•	•	•	•					
10	12,5	64	1.300	•	•	x	x	•					
10	14	51	1.500	•	•	•	•	•					
10	15	44	2.000		•	x	x	x					
10	20	25	1.300	•	•	•	•	•					
12	14	73,5	1.500	•	•	•	•	•					
12	17	50	1.300			•	•	•					
12	18	45	1.500				•	•					
15	20	56	2.000				•	•	•	•	•		
15	30	25	2.000	•	•	•	•	•	•	•	•		
20	23	75	1.500				•	•					
20	24	70	2.000				•	•	•				
20	25	64	2.000		•	•	•	•	•				
20	27,5	53	2.000									•	
20	33	37	2.000									•	
20	40	25	2.000				•	•					
20	50	16	2.000	•	•	•	•	•	•	•	•	•	
25	30	69,5	2.000	•	•	•	•	•	•	•	•	•	
25	31,6	63	2.000		•	•	•	•					
25	70	13	2.000	•	•	•	•	•	•	•	•		
25	40	39	2.000				•	•					
28	38	55	2.000				•	•	•				
30	40	56	2.000	•	•	•	•	•	•	•	•	•	
30	50	36	2.000				•	•					
40	52	59	2.000				•	•	•				
40	100	16	2.000								•	•	
45	55	67	2.000				•	•	•				
50	60	69,5	2.000	•	•	•	•	•	•	•	•	•	
55	65	72	2.000					•	•				

a = apertura foro p = passo v/p = vuoto su pieno
• = standard a richiesta x = standard dal pronto (salvo venduto)
larg. max. = larghezza massima possibile della lamiera

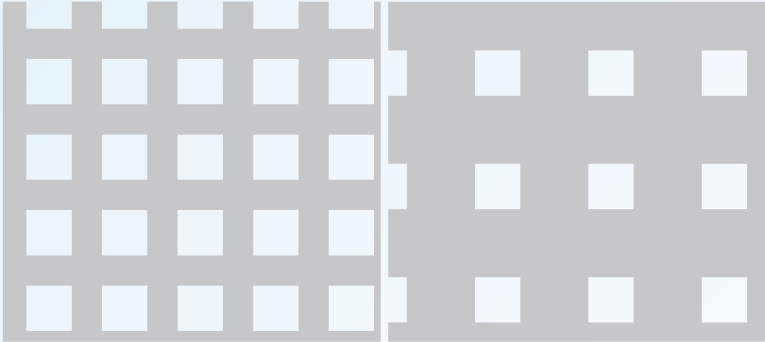
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siehe S. 5
voir page 5



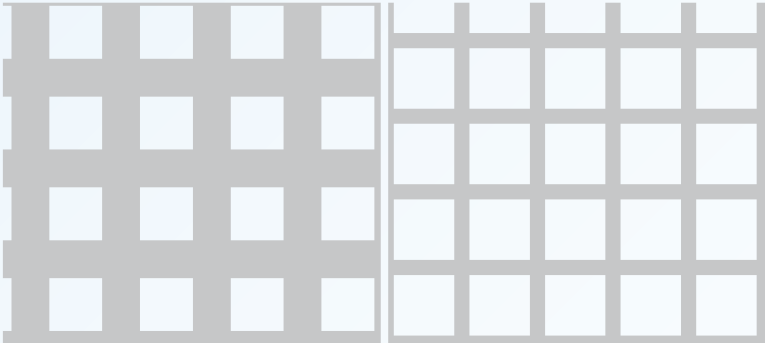
4x4 p. 10 v/p 16% 5x5 p.7 v/p 51%



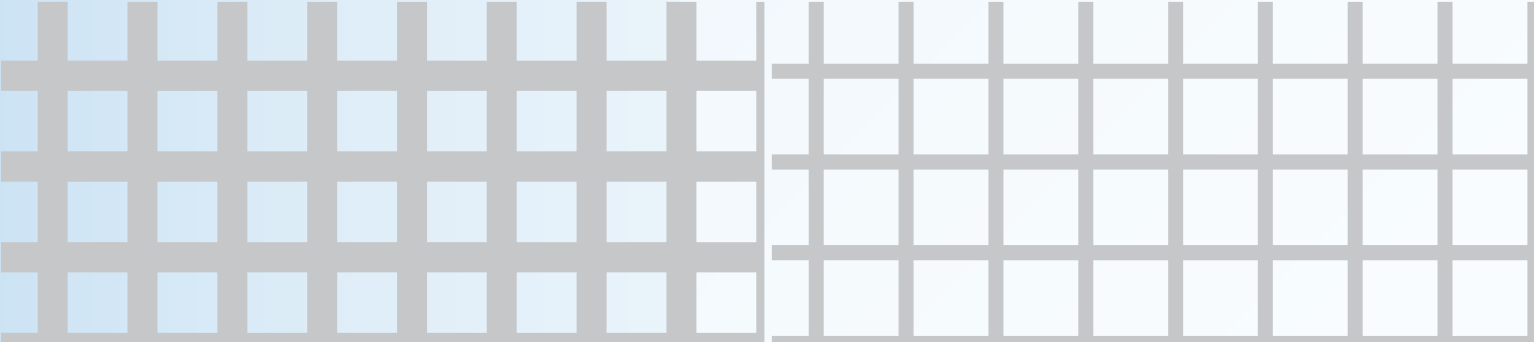
5x5 p. 7,5 v/p 45% 5x5 p. 8 v/p 39%



6x6 p. 10 v/p 36% 6x6 p.15 v/p 16%



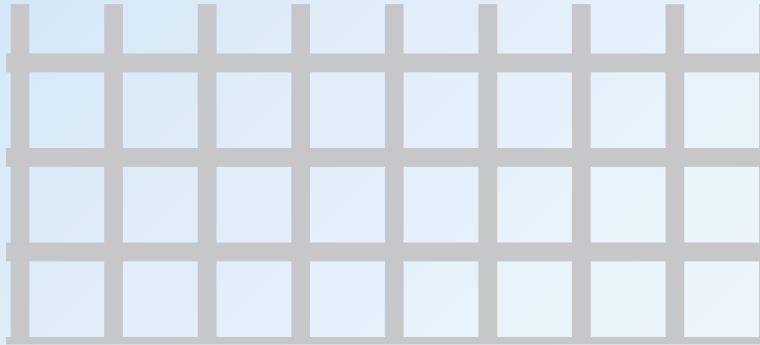
7x7 p. 12 v/p 34% 8x8 p. 10 v/p 64%



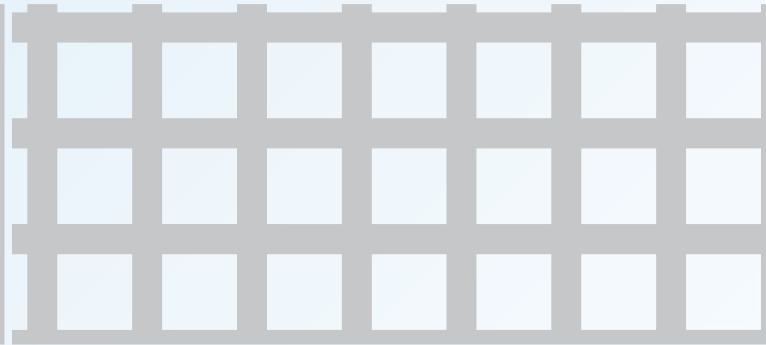
8x8 p. 12 v/p 44% 10x10 p. 12 v/p 69%



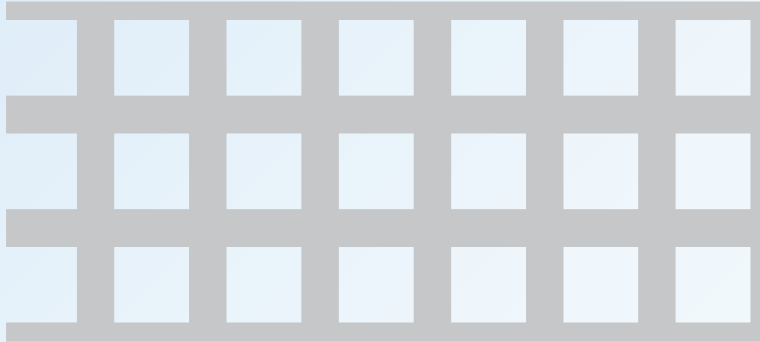
Fori quadri, square holes, Quadratlochungen, trous carrés



10x10 p. 12,5 v/p 64%



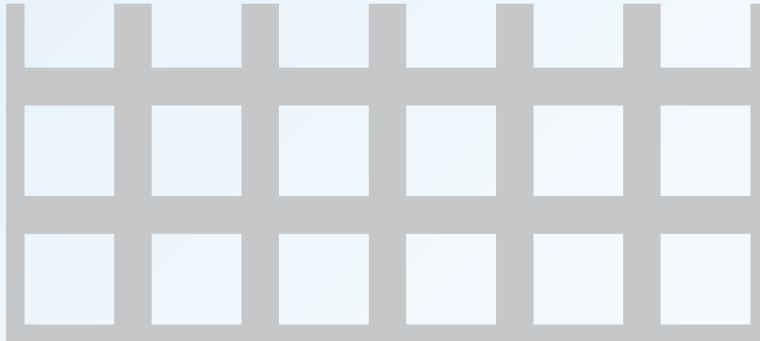
10x10 p. 14 v/p 51%



10x10 p. 15 v/p 44%



10x10 p. 20 v/p 25%



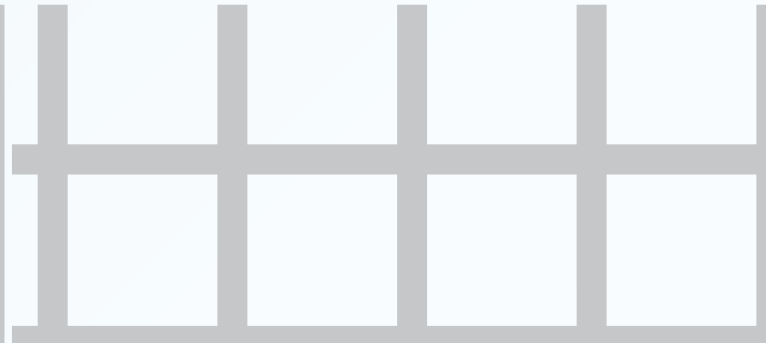
12x12 p. 17 v/p 50%



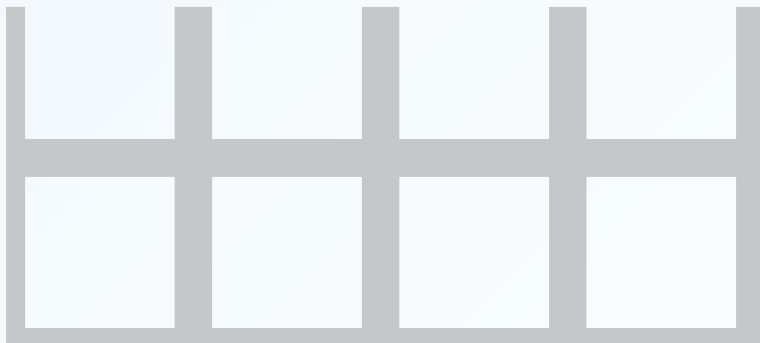
15x15 p. 20 v/p 56%



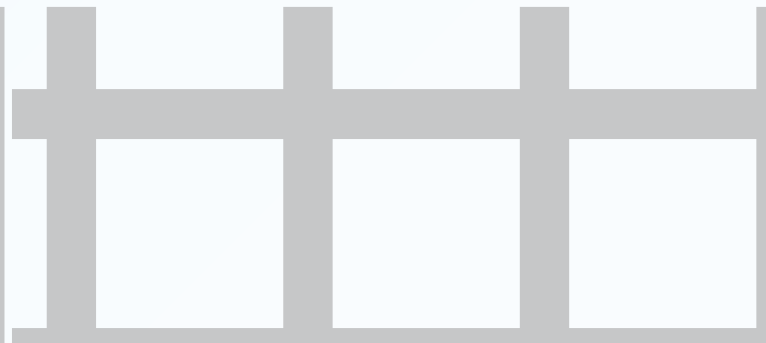
20x20 (r=2) p. 23 v/p 75%



20x20 p. 24 v/p 70%



20x20 p. 25 v/p 64%



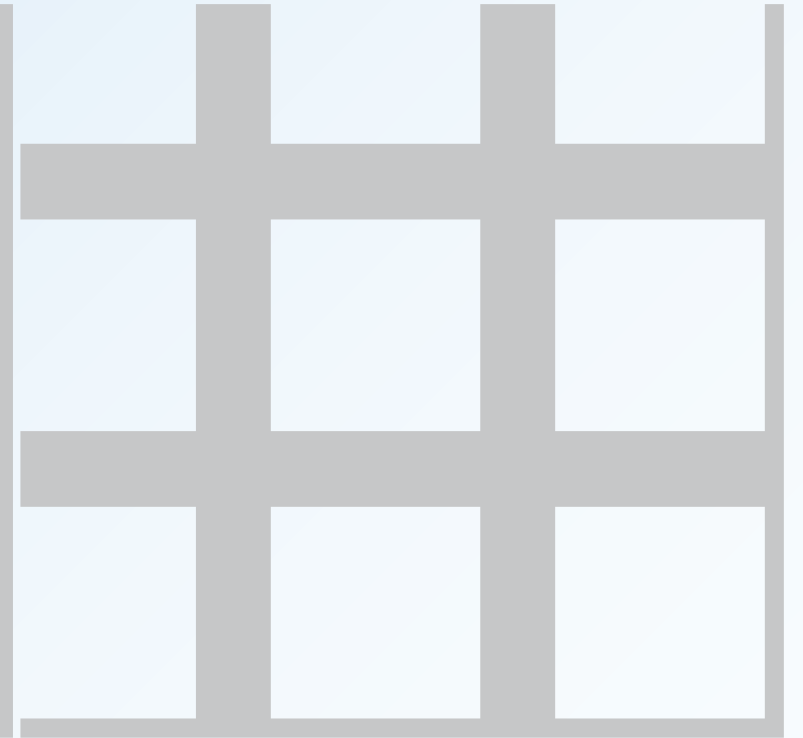
25x25 p. 31,6 v/p 63%



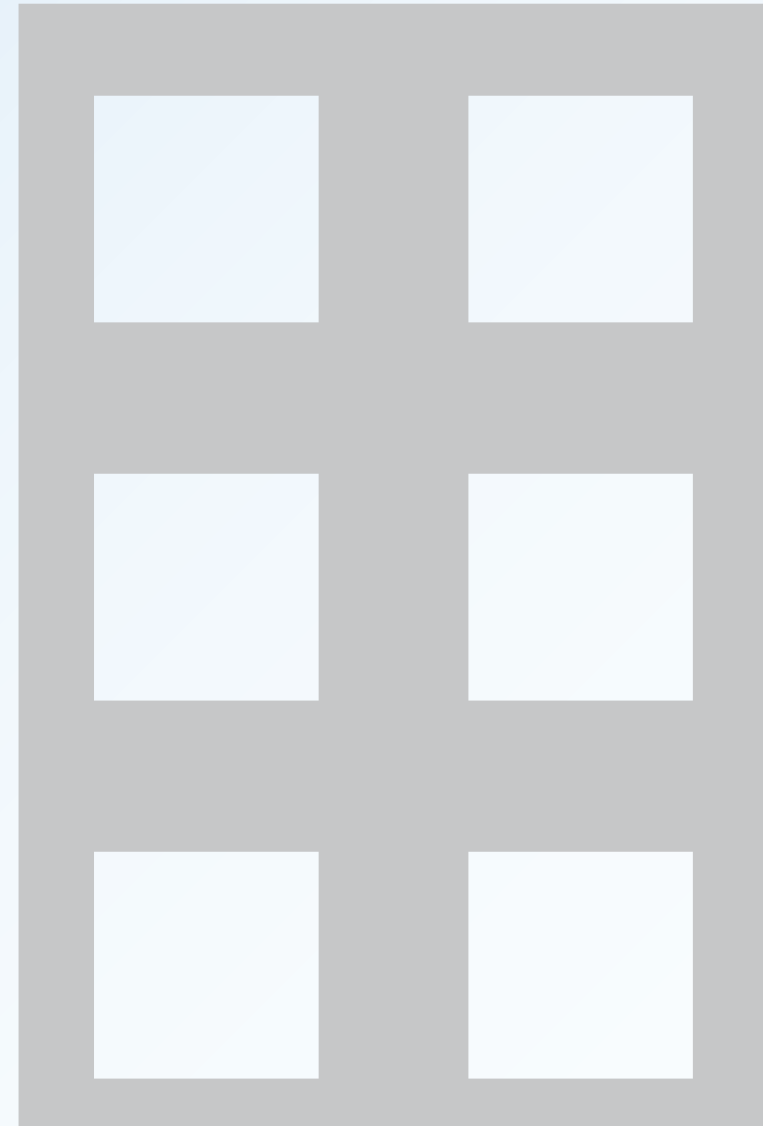
Fori quadri, square holes, Quadratlochungen, trous carrés



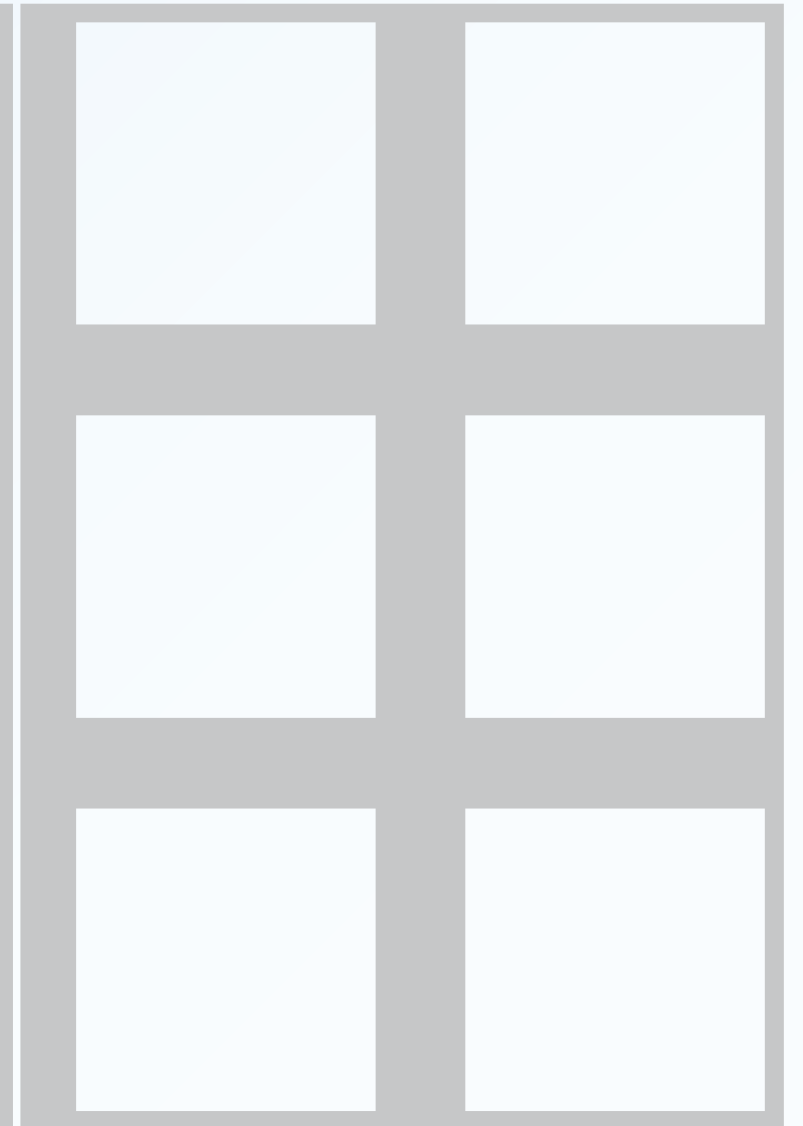
25x25 p. 40 v/p 39%



28x28 p. 38 v/p 55%



30x30 p. 50 v/p 36%



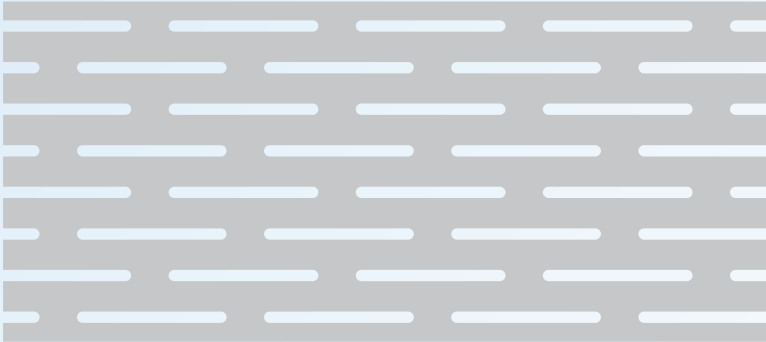
40x40 p. 52 v/p 59%



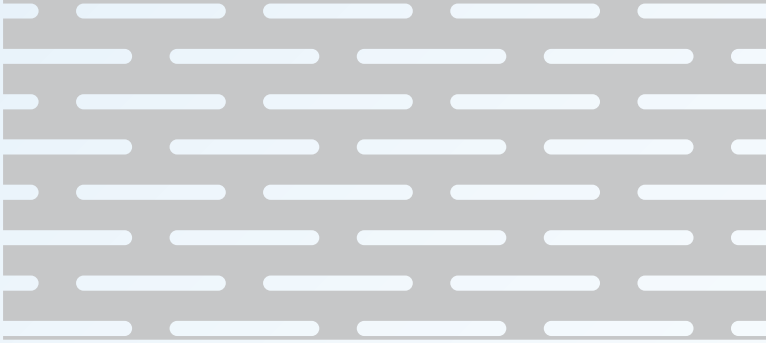
Fori oblunghi, slots, Langlochungen, trous allongés



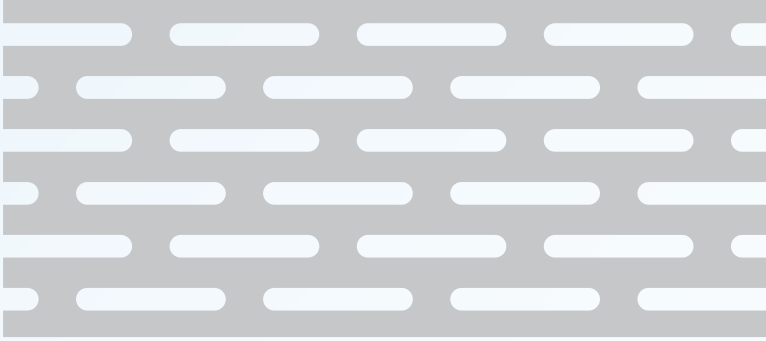
1,1x20 p. 5,5x25 v/p 16%



1,5x20 p. 5,5x25 v/p 22%



2x20 p. 6x25 v/p 27%



3x20 p. 7x25 v/p 33%



4x20 p. 8,5x25 v/p 36%

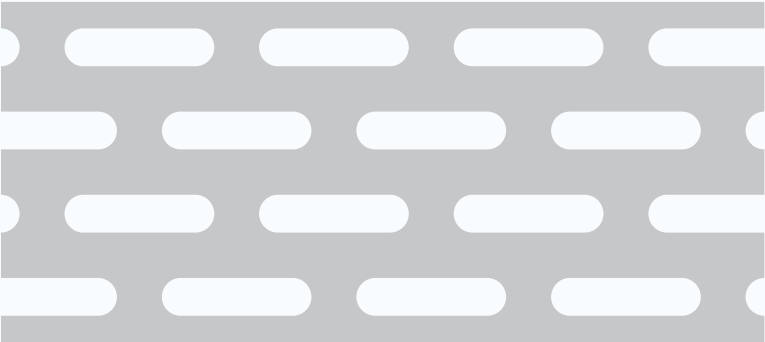
alternati, staggered, versetzt, à quinconce

a · l	p1 · p2	v/p	largh.	spessore										
				max	0,5	0,8	1,0	1,5	2,0	3,0	4,0	5,0	6,0	8,0
1,1x20	5,5x25	16	2.000				•	•						
1,25x12	6x22	11	2.000		•	•	•	•						
1,25x20	4,25x25	23	2.000					•						
1,5x20	5,5x25	22	2.000			•	•	•	•					
2x20	6x25	27	2.000					•	•	•				
2x20	8x25	20	2.000					•	•	•				
3x20	7x25	33	1.500		•	•	•	x						
3x20	8x25	29	2.000					•	•	•				
4x20	8,5x25	36	1.500				x	x	•					
4x20	9x25	34	2.000					•	•	•	•			
5x20	8,5x25	44,5	1.500		•	•		•	•	•				
5x20	11x26	33	2.000					•	•	•				
5x25	10x30	40	2.000					•	•	•	•	•		
6x30	13x37	36	2.000		•	•	•	•	•	•	•	•	•	
7x20	17x38	20	1.300			•	•							
7x25	25x42	16	1.300					•	•					
8x30	13x40	43,5	2.000		•	•	•	•	•	•	•	•		
10x20	19x29	33	1.500					•	•					
10x40	20x50	38	2.000						•				•	•

pari, straight rows, in Reihen, en lignes

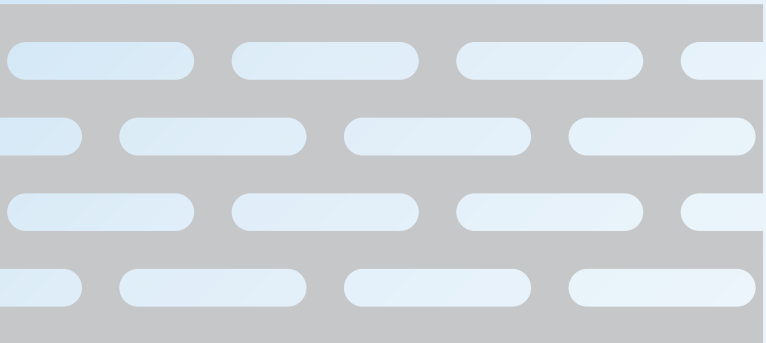
a · l	p1 · p2	v/p	largh.	spessore								
mm	mm	%	max	0,5	0,8	1,0	1,5	2,0	3,0	4,0	5,0	
2x20	20xn	y	2.000					•	•			
2,4x16	4,5x20	41	1.500				•					
3x10	6x13	36	2.000				•	•	•			
3x40	14xn	y	2.000						•	•		
4x20	8xn	y	1.300	•	•	•						
4x22	10x27	32	2.000			•	•	•	•	•		
5x20	10xn	y	1.300	•	•	•						
7x25	24xn	y	1.300			•	•	•				
7x25	25xn	y	1.500				•	•				

a · l = larghezza · lunghezza foro
p1 · p2 = passo laterale · passo longitudinale
v/p = vuoto su pieno
• = standard a richiesta
n = passo a scelta
x = standard dal pronto (salvo venduto)
y = variabile
larg. max = larghezza massima possibile della lamiera

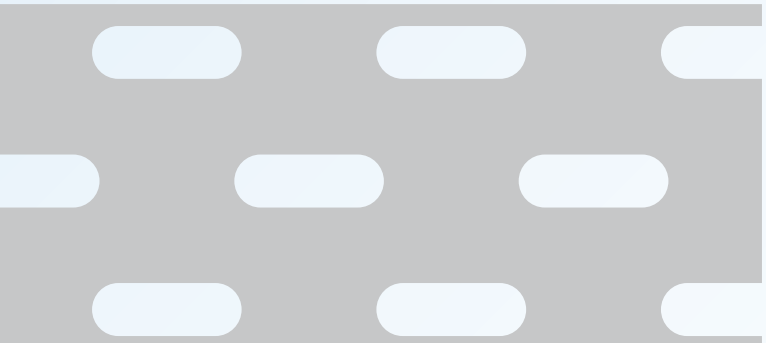


5x20 p. 11x26 v/p 33%

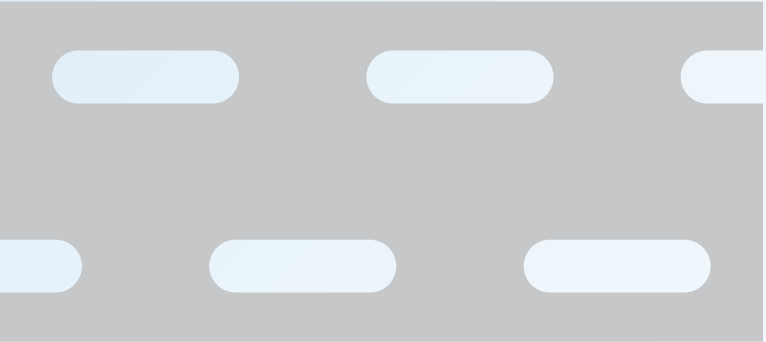
Fori oblunghi, slots, Langlochungen, trous allongés



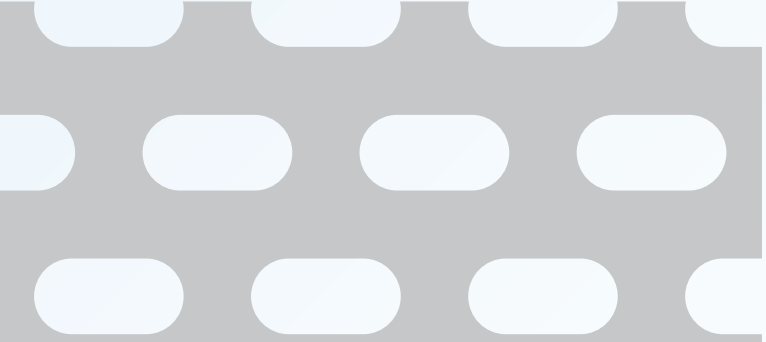
5x25 p. 10x30 v/p 40%



7x20 p. 17x38 v/p 20%



7x25 p. 25x42 v/p 16%



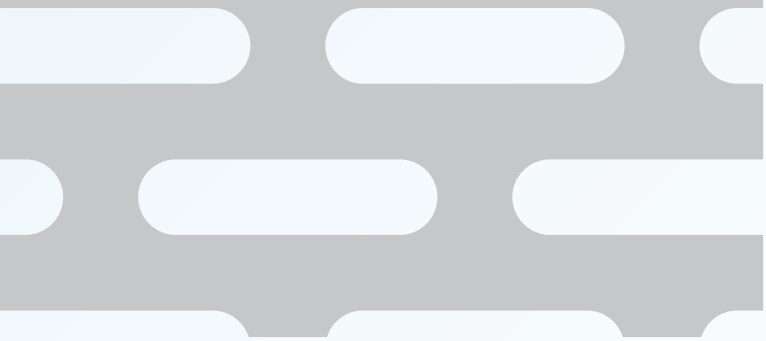
10x20 p. 19x29 v/p 33%



10x40 p. 20x50 v/p 38%



2,4x16 p. 4,5x20 v/p 41%



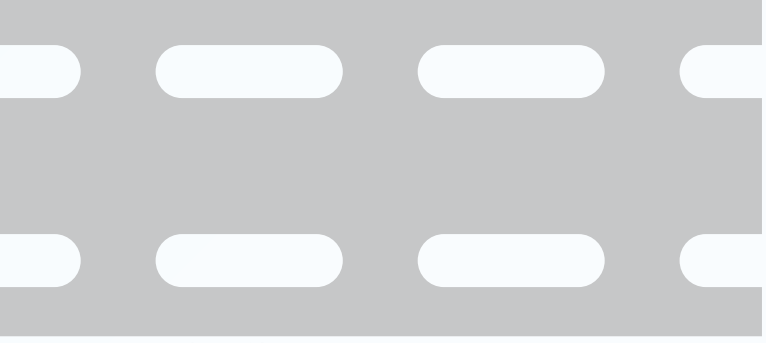
4x20 p. 8x25 v/p 38%



7x25 p. 25x35 v/p 19%

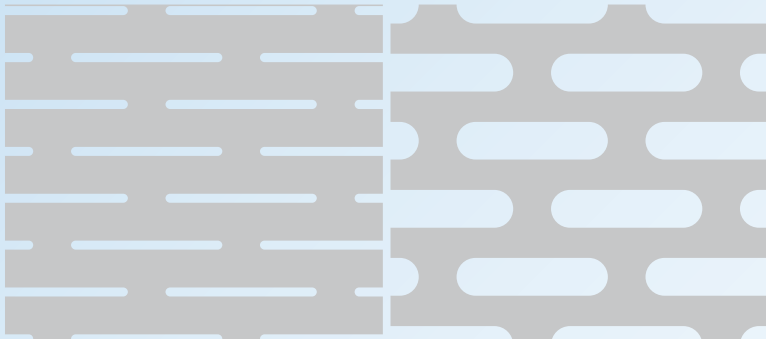


4x20 p. 8x25 v/p 38%

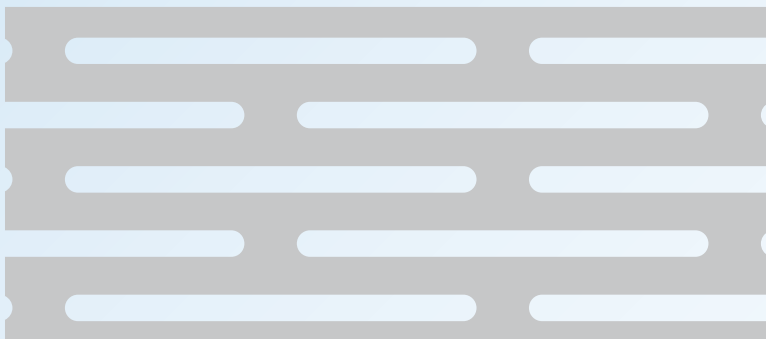


7x25 p. 25x35 v/p 19%

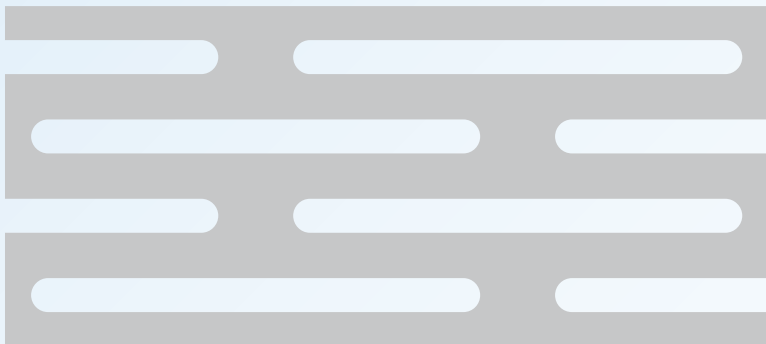
Fori oblunghi, slots, Langlochungen, trous allongés



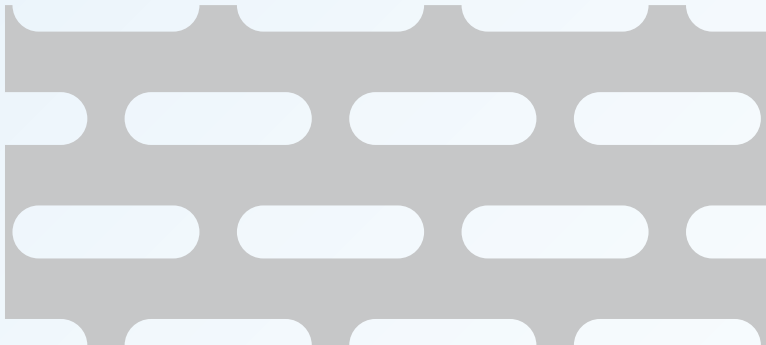
1,2x20 p. 6,2x25 v/p 15% 5x20 p. 9x25 v/p 42%



3,5x55 p. 8,5x62 v/p 36%



4,5x60 p. 10,5x70 v/p 36%



7x25 p. 15x30 v/p 37%



2x20 p. 5x23,5 v/p 34%



4x30 p. 7x34 v/p 49%

alternati, staggered, versetzt, à quinconce

a · l	p1 · p2	v/p	largh.	spessore							
mm	mm	%	max	0,8	1,0	1,5	2,0	3,0	4,0	5,0	
1,2x20	6,2x25	15	1.300			•					
3,5x55	8,5x62	36	2.000						•	•	
4x55	10x65	34	2.000						•	•	
4x65	9x72	40	2.000						•	•	
4,5x60	10,5x70	36	2.000			•	•		•	•	
5x20	9x25	42	2.000			•	•				
5x60	10,5x70	40	2.000						•	•	
6x30	12x36	40	2.000	•	•	•	•				
7x25	15x30	37	1.300	•	•						
10x50	24x60	33	2.000			•		•	•		

a · l = larghezza · lunghezza foro
p1 · p2 = passo laterale · passo longitudinale
• = standard a richiesta
x = standard dal pronto (salvo venduto)
larg. max = larghezza massima possibile della lamiera

pari, straight rows, in Reihen, en lignes

a · l	p1 · p2	v/p	largh.	spessore					
mm	mm	%	max	0,5	0,8	1,0	1,5	2,0	
2x20	5x23,5	34	2.000	•	•	•	•	•	
4x30	7x34	49	2.000			•			
5,5x25	nx30	y	1.200	•	•				
6x30	a dis.	y	2.000				•		
6x100									
8x30	a dis.	y	2.000				•		
8x100									
10x30	20x40	35	2.000	•	•	•	•		
10x40	20x50	38	2.000				•	•	
15x45	21x50	60	2.000				•	•	
15x75	39x90	40	2.000	•	•	•	•	•	
15x75	40x100	27	2.000	•	•	•	•	•	

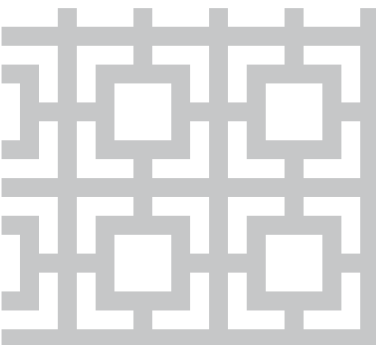
a · l = larghezza · lunghezza foro
p1 · p2 = passo laterale · passo longitudinale
v/p = vuoto su pieno
• = standard a richiesta
n = passo a scelta
y = variabile
larg. max = larghezza massima possibile della lamiera



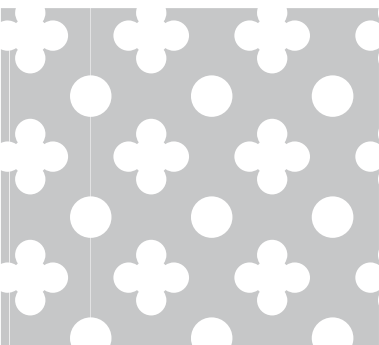
15x45 p. 21x50 v/p 60%

Varie, miscellaneous, Verschiedene, autres

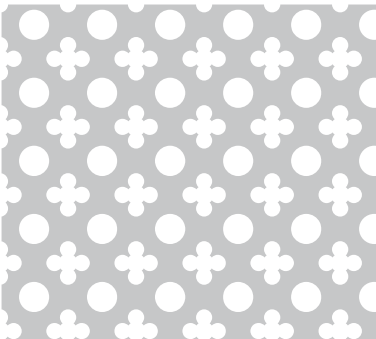
a	p	v/p	largh.	spessore							
mm	mm	%	max	0,5	0,8	1,0	1,5	2,0	3,0	4,0	5,0
GF5	20	39	1.500	•	•	•					
GF11	16	32	1.300	•	•	x					
GF17	9	42	1.300	x	•	x					
GF20	14	40	1.000		•	•					
a chiave	12,5	22	1.500		•	x					
Esagono	2,5	63,8	1.500	•	•	•					
Euro 4,5	25	7	1.500			•	•	•			
Euro 5	25	8	1.500				•	•			
4	10	13	1.300	•	•	•	•	•			
20x20 alt.	24	69	1.500				•	•			
30x30 diag.	36	68	2.000				•	•			
10x10 ondulato	18	31	1.000		•	•					
6 sv.	14,5	16	1.500		•	•	•	•			
8 sv.	17	20	2.000				•				
14 sv.	30	20	2.000				•	•	•	•	•
26 sv.	40	38	1.300	•	•	•					
10x20 sv.	19x29	33	2.000				•	x	•		
10+12 sv.	a dis.	8	2.000							•	•
bugna 14x21	a dis.	-	2.000				•	•	•		
bugna tonda 8	26	-	2.000					•			
bugna tonda 10	31,16	-	2.000				•				
bugna tonda 15	34,64	-	2.000				•				
bugna 15x15	40	-	2.000				•	•	•		
bugna 20x20	50	-	2.000				•	•			



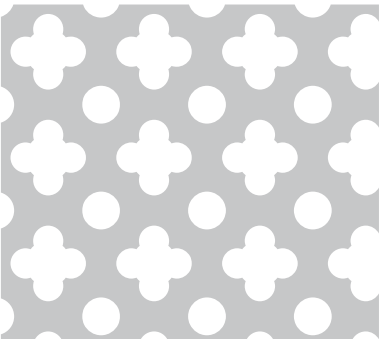
GF5 p. 20 v/p 39%



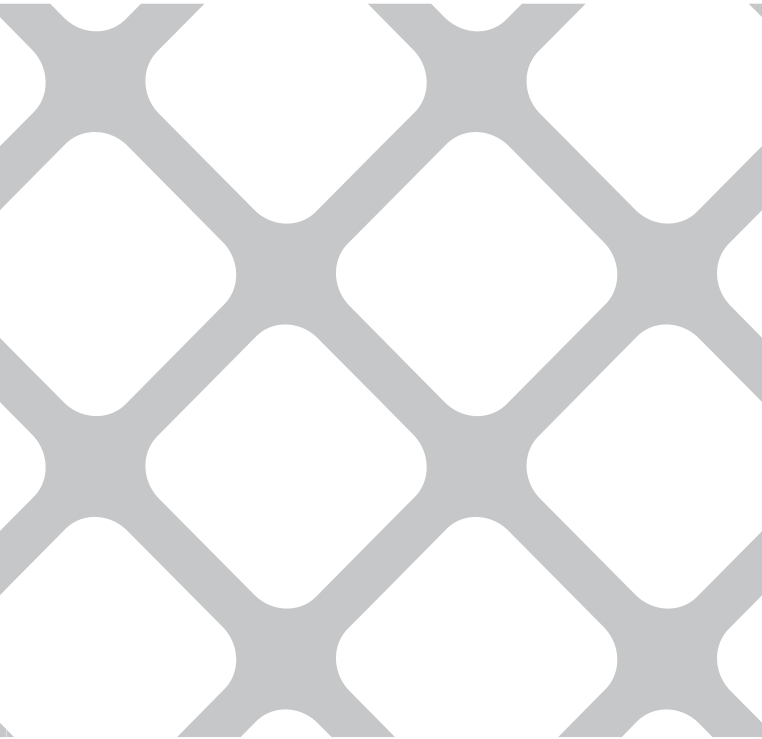
GF11 p. 16 v/p 32%



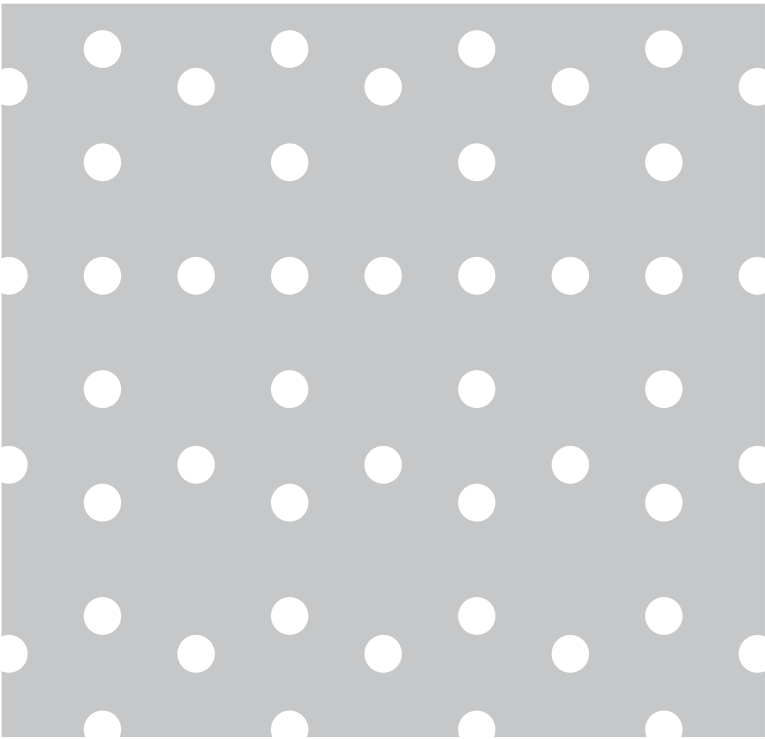
GF17 p. 9 v/p 42%



GF20 p.14 v/p 40%



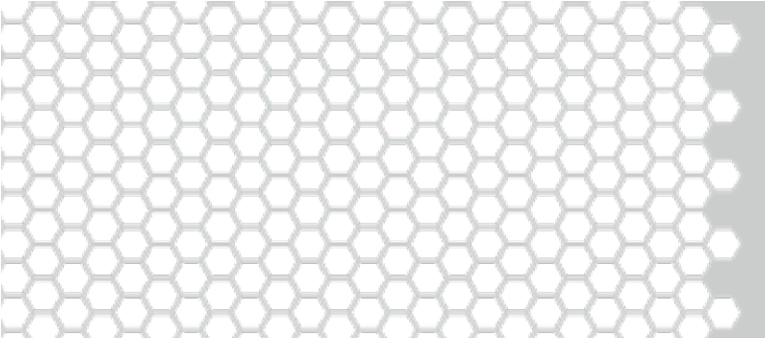
30x30 (r=6, diag. 45°) p. 36 v/p 68%



Euro 5 p. 25 v/p 8%



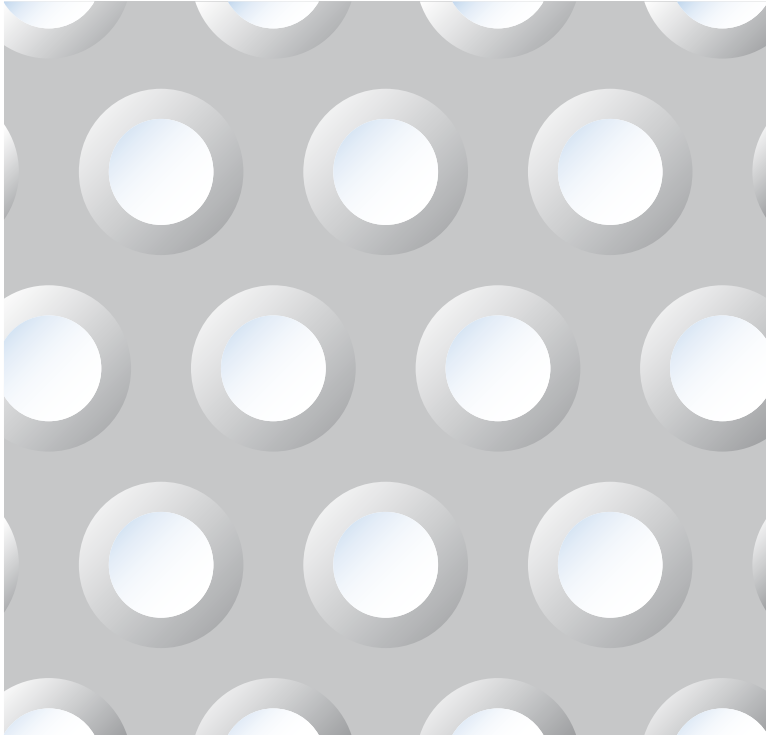
Foro a chiave p. 12,5 v/p 22%



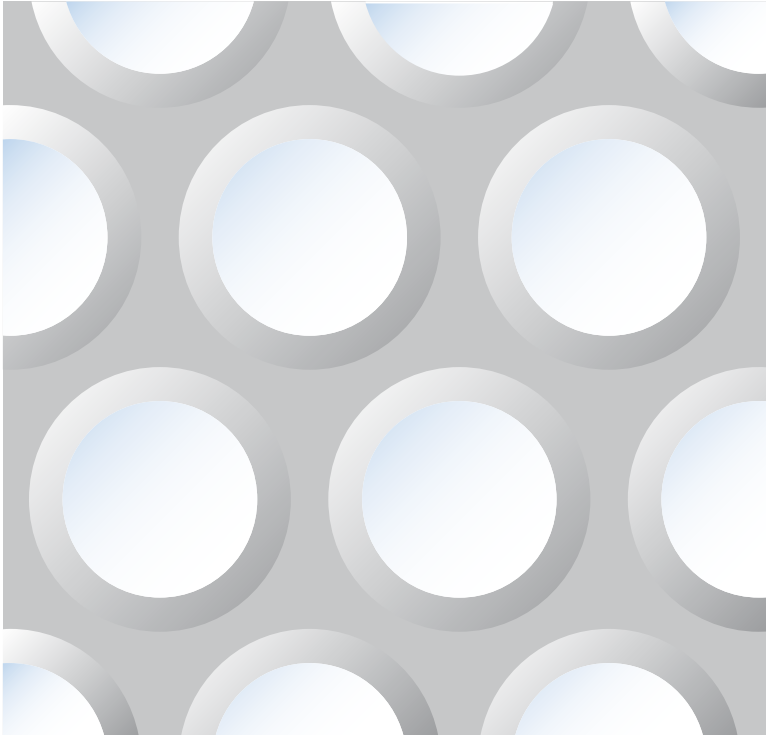
Foro esagonale HV2-2,5 v/p 63,8%



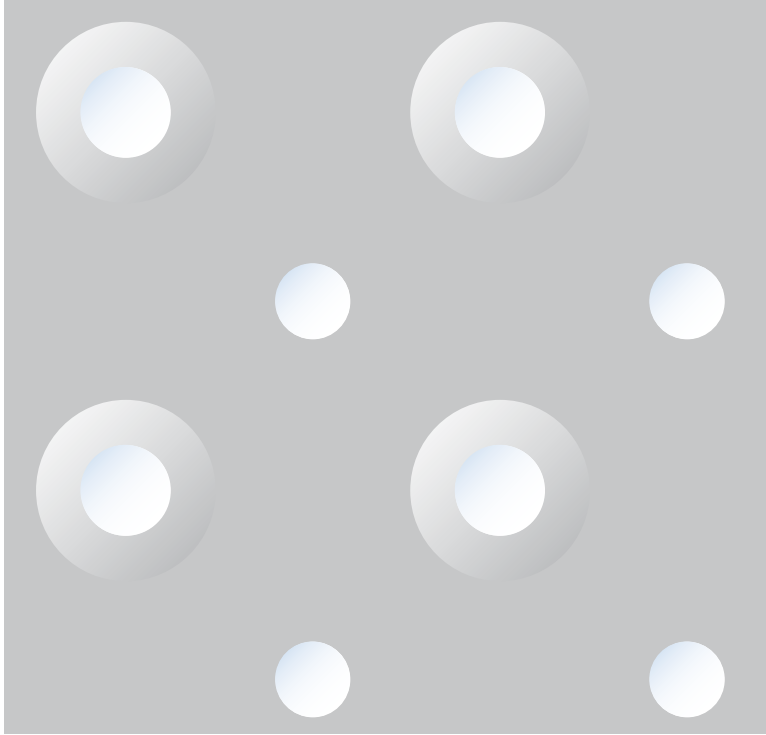
Varie, miscellaneous, Verschiedene, autres



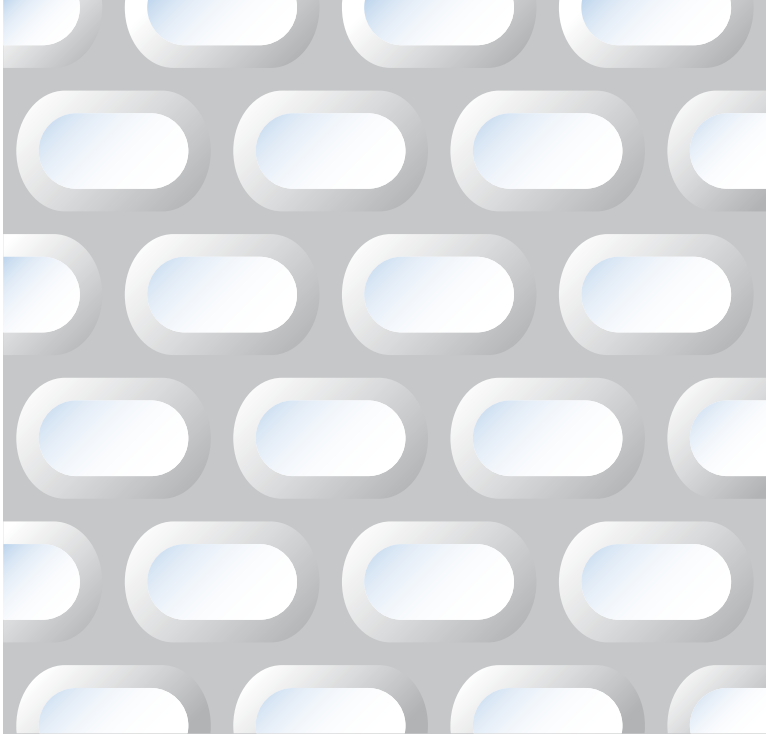
d. 14 svas. p. 30 v/p 20%



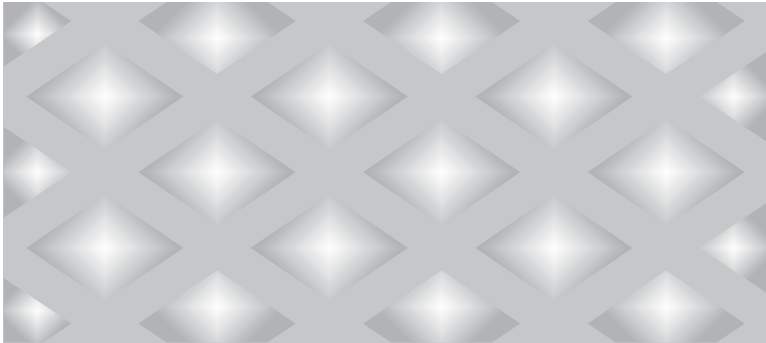
d. 26 svas. p. 40 v/p 38%



d. 10+12 svas. p. 35,25 a 45Åv/p 8%



10x20 svas. p. 19x29 v/p 33%



Bugna 14x21 p. 20x30



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