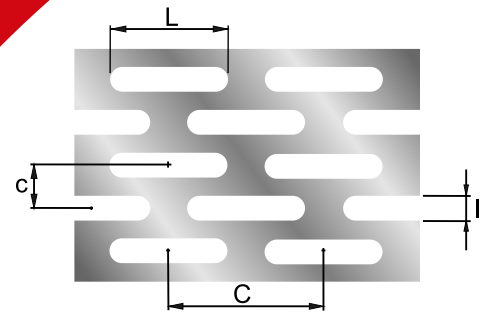
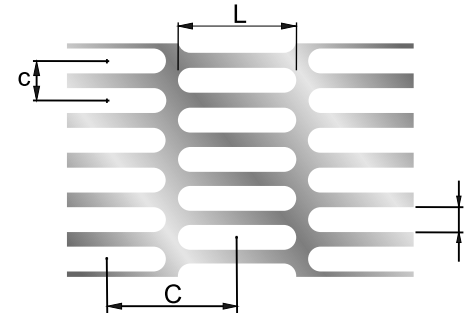


FUROS OBLONGOS



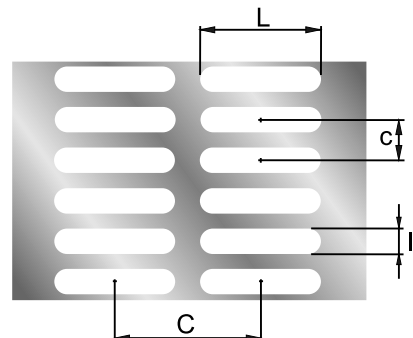
Disposição Alternada Lateral

Sentido Longitudinal ou do Comprimento
(Linha de furos paralela ao comprimento da chapa)



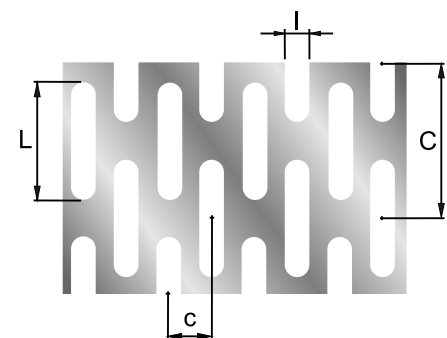
Disposição Alternada Terminal

Sentido Longitudinal ou do Comprimento
(Linha de furos paralela ao comprimento da chapa)



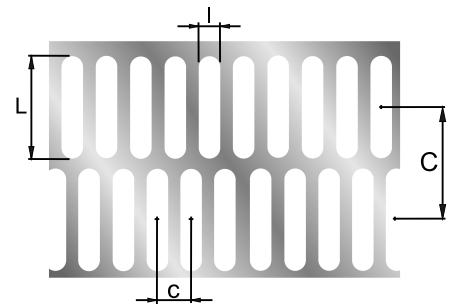
Disposição Reta

Sentido Longitudinal ou do Comprimento
(Linha de furos paralela ao comprimento da chapa)



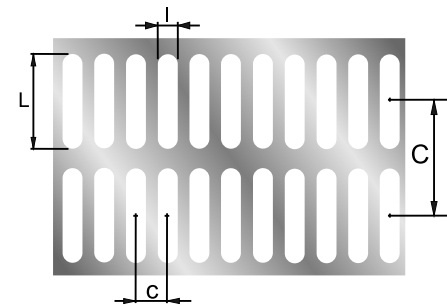
Disposição Alternada Lateral

Sentido Transversal ou da Largura
(Linha de furos paralela à largura da chapa)



Disposição Alternada Terminal

Sentido Transversal ou da Largura
(Linha de furos paralela à largura da chapa)



Disposição Reta

Sentido Transversal ou da Largura
(Linha de furos paralela à largura da chapa)

LEGENDA

- I = Largura
- L = Comprimento
- P = Porcentagem de área aberta ou perfurada
- C = Distância entre centros de furos terminal
- c = Distância entre centros de furos lateral
- D = Diâmetro dos furos
- v = Vão ou cordão
- N1 = Número de furos por polegada quadrada
- N2 = Número de furos por centímetro quadrado
- A = Área do furo

FÓRMULAS

$$A = (L - I) I + 0,785 I^2$$

$$P = 100 \frac{A}{c \cdot C}$$

$$N1 = \frac{6,4516 \cdot P}{A}$$

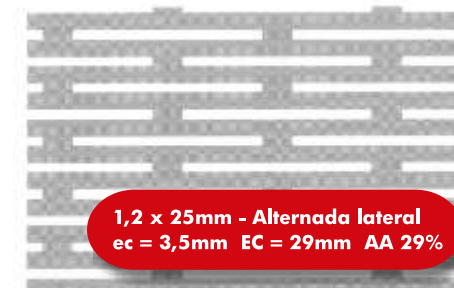
$$N2 = \frac{P}{A}$$

TABELA DE PERFURAÇÃO (FUROS OBLONGOS)

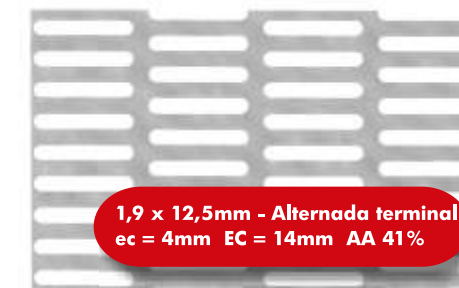
Dimensões	Distância entre	Área Aberta	Disposição
I	L	Polegadas	%
0,75 x 20,0	2,0 x 24,0	31	AL
1,2 x 25,0	3,5 x 29,0	29	AL
1,5 x 15,0	4,8 x 18,0	31	AL
1,75 x 24,0	5,75 x 28,0	29	AL
1,9 x 12,5	4,0 x 14,0	41	AT
2,0 x 10,0	4,0 x 12,0	40	AL
2,0 x 20,0	4,5 x 23,0	38	AL
2,0 x 25,0	5,0 x 33,0	30	AL
2,5 x 20,0	4,85 x 23,0	44	AL
3,0 x 10,0	6,7 x 14,0	30	AL
3,17 x 16,0	8,0 x 21,0	29	AL
3,17 x 19,0	6,2 x 22,0	42	AL
4,0 x 20,0	7,7 x 24,0	41	AL
4,8 x 9,5	9,6 x 14,4	30	AL
4,8 x 19,0	9,0 x 23,0	42	AL
4,8 x 22,2	9,5 x 32,0	35	AL
5,0 x 12,7	10,1 x 19,0	30	AL
6,0 x 20,0	12,0 x 26,0	36	AL
6,0 x 30,0	12,3 x 38,0	37	AL
6,0 x 116,0	A.V.		
6,35 x 25,4	12,0 x 31,0	41	AL
7,0 x 20,0	14,0 x 29,5	31	AL
8,0 x 25,4	15,0 x 32,0	39	AL
8,0 x 32,0	16,0 x 42,0	36	AL
8,0 x 38,0	16,0 x 46,0	40	AL
9,5 x 28,0	17,5 x 36,0	39	AL
10,0 x 35,0	A.V.		
12,7 x 57,2	22,0 x 75,2	42	AL

AV: à vontade
AL: Alternada longitudinal

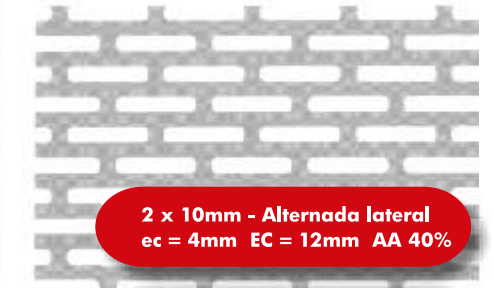
ALGUMAS PERFURAÇÕES



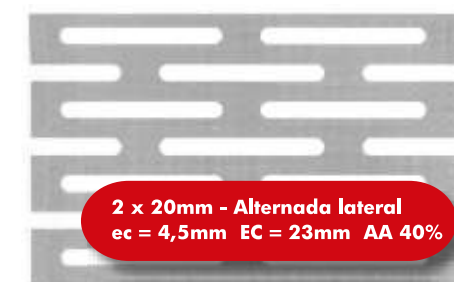
1,2 x 25mm - Alternada lateral
ec = 3,5mm EC = 29mm AA 29%



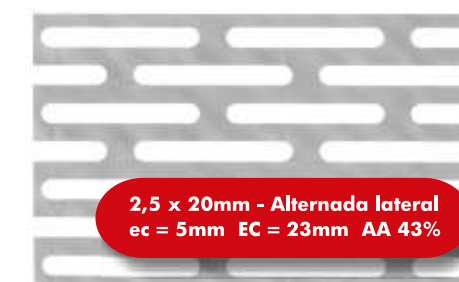
1,9 x 12,5mm - Alternada terminal
ec = 4mm EC = 14mm AA 41%



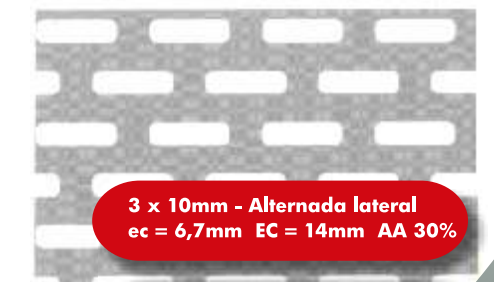
2 x 10mm - Alternada lateral
ec = 4mm EC = 12mm AA 40%



2 x 20mm - Alternada lateral
ec = 4,5mm EC = 23mm AA 40%



2,5 x 20mm - Alternada lateral
ec = 5mm EC = 23mm AA 43%



3 x 10mm - Alternada lateral
ec = 6,7mm EC = 14mm AA 30%