

Technical details

Formulae for calculating open area % and numbers of holes per m²

**Round holes
Triangular pitch**

O.A. %: $\frac{\text{Ø}^2 \times 90,69}{\text{TD}^2}$

Holes per m²: $\frac{1.154.700}{\text{TD}^2}$

**Round holes
Square pitch**

O.A. %: $\frac{\text{Ø}^2 \times 78,5}{\text{KD}^2}$

Holes per m²: $\frac{1.000.000}{\text{KD}^2}$

**Square holes
Staggered rows**

O.A. %: $\frac{\text{F}^2 \times 100}{\text{KD}^2}$

Holes per m²: $\frac{1.000.000}{\text{KD}^2}$

**Square holes
Square pitch**

O.A. %: $\frac{\text{F}^2 \times 100}{\text{KD}^2}$

Holes per m²: $\frac{1.000.000}{\text{KD}^2}$

**Round end slots
Staggered rows**

O.A. %: $\frac{100 \times \text{B} \times (\text{L} - 0,215 \times \text{B})}{\text{D}_1 \times \text{D}_2}$

Holes per m²: $\frac{1.000.000}{\text{D}_1 \times \text{D}_2}$

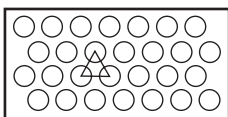
**Round end slots
Straight rows**

O.A. %: $\frac{100 \times \text{B} \times (\text{L} - 0,215 \times \text{B})}{\text{D}_1 \times \text{D}_2}$

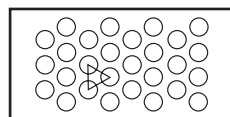
Holes per m²: $\frac{1.000.000}{\text{D}_1 \times \text{D}_2}$

Examples of holes placement

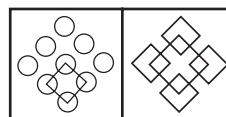
Triangular pitch
lengthwise



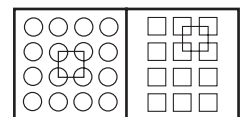
Triangular pitch
across



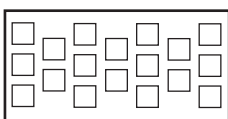
Diagonal pitch
Round Square



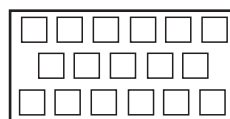
Square pitch
Round Square



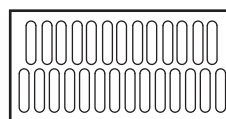
Square holes
Staggered across



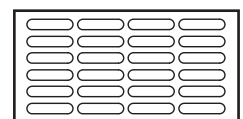
Square holes
Staggered lengthwise



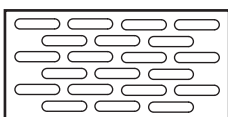
Round end slots across
staggered lengthwise



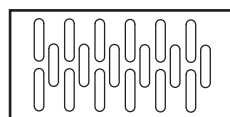
Round end slots
Straight lengthwise



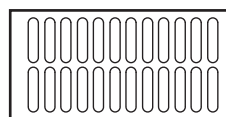
Round end slots
Staggered lengthwise



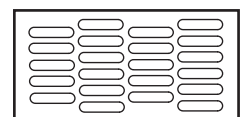
Round end slots
Staggered across



Round end slots
Straight across



Round end slots lengthwise
Ends staggered across



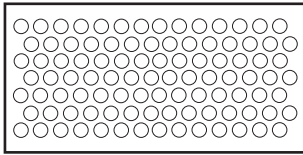
Technical details

Hole finishing

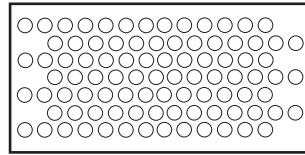
When manufacturing perforated sheets, incomplete ending of the rows can appear. You should be aware of this on perforated sheets for visible or decorative use, e.g. for ceiling or wall sheets.

Examples

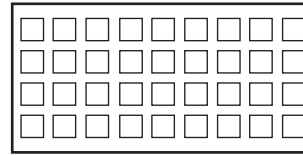
Closed finish - Standard
Round holes



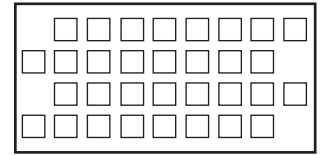
Spread finish
Round holes



Closed finish - Standard
Square holes



Spread finish
Square holes



Edges

Sheets are always delivered with unperforated edges (borders) on the long side (see fig. 1 & 2). The short sides can be with or without edges (bordes) depending on the type. Special perforated sheets can be manufactured with or without edges (bordes) as required.

Examples

Edges on 4 sides

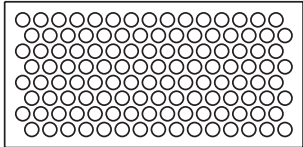


fig. 1

Edges on long side
and without edges on
short sides

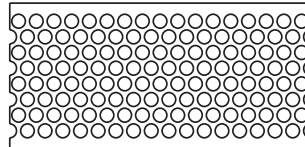


fig. 2

Without edges on 4
sides

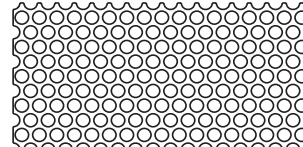


fig. 3

Perforating in sections

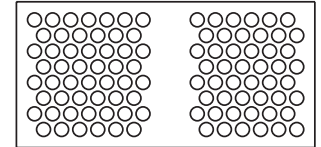


fig. 4

Wire Mesh

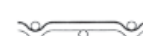
Type Spot welded - Pressed - Woven

- untreated steel
- galvanised steel
- stainless AISI 304
- stainless AISI 316
- brass

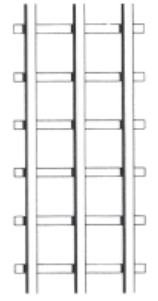
Several types are also available as both sheets and rolls, if necessary cut to measure and supplied with round iron frames and fittings etc.



Type A
Woven



Type E
Pressed



Type F
Spot welded