



EUROPERF

European Perforators Association

DEFINITIONS & SYMBOLS

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Technical Definitions

plate: Flat rolled material for the manufacture of perforated metal plate, 3mm to 12.5mm thick, the edges of which are allowed to deform freely during rolling, supplied in flat form and generally in rectangular form, but also in any other shape according to a design sketch.

sheet: Flat rolled material for the manufacture of perforated metal plate, less than 3mm thick, the edges of which are allowed to deform freely during rolling, supplied in flat form and generally in rectangular shape, but also in any other shape according to a design sketch.

coil: Flat rolled sheet for the manufacture of perforated metal plate, the edges of which are allowed to deform freely during rolling and which immediately after the final rolling pass is wound into regular superimposed laps.

perforated plate: Screening surface consisting of a plate with uniform holes in symmetrical arrangement. The holes may be square, slotted, circular or of other regular geometrical shape.

plate thickness: Thickness of the plate before perforation

feed direction: Direction in which a plate or sheet was fed through the perforating press.

punch side: Surface of a perforated plate which the punch entered.

hole size: Diameter of a round hole or distance between opposite sides of a square hole of a perforated metal plate.

pitch: Distance between corresponding points of two adjacent holes in a perforated plate.

bridge width, bar: Distance between the nearest edges of two adjacent holes in a perforated plate.

margin: Distance between the outside edges of the outside rows of holes and the edges of a perforated plate.

percentage open area: Ratio, expressed as a percentage, of the total area of the holes to the total area of the perforated part of the plate (excluding any non-perforated parts).

roller levelling: Cold mechanical operation on a perforated metal plate to promote flattening.

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Symbols used to describe perforated metal plate:

a _l	overall length of the short side of a plate (plate width)
a ²	length of the short side of the perforated area of plate
b _l	overall length of the long side of a plate (plate length)
b ²	length of the long side of the perforated area of plate
c	amount out-of-square of a rectangular plate
e	width of the margins on the long sides of a plate
e _l	width of the larger e-margin, if not equal
e ²	width of the smaller e-margin, if not equal
f	width of the margins at the short side of a plate
f _l	width of the larger f-margin, if not equal
f ²	width of the smaller f-margin, if not equal
g	deviation from edge flatness
h	deviation from edge straightness
p	pitch of holes
t	plate thickness
t _l	height of turn-in zone of hole
t ²	height of cutting zone of hole
t ³	height of breakaway zone of hole
t ⁴	height of burr on hole
w	hole size, measured on punch side
w _b	hole size, measured on reverse (burr) side
A _o	open screening area