

ABRASION RESISTANT PERFORATED PLATES

A COMPREHENSIVE RANGE OF
PUNCHED, PLASMA AND LASER
PERFORATED SCREENS IN
ABRASION AND CORROSION
RESISTANT GRADES

ABRASION RESISTANT PERFORATED PLATES

IMS UK can offer a comprehensive range of punched, hi-definition or laser perforated plates in abrasion and corrosion resistant grades with an average hardness of 220HBW to 500HBW, to suit customers individual applications.

The hole size and pitch that can be achieved is affected by the production method, which should be discussed at the time of enquiry.

Steel offers the following advantages compared to rubber and synthetic materials:

- Increased wearlife.
- Resistance to aggressive wear caused by 'angular' particles such as glass or granite.
- Hole geometry to facilitate anti-clogging.

Product Range

ROC 250 (Average Hardness 220HBW) Punched Screens maximum 10mm thk.
For low abrasion.

CR 321 (Average Hardness 320HBW) Punched Screens maximum 10mm thk.
For medium abrasion.

ABRO 400 (Average Hardness 400HBW) Plasma or Laser Cut Screens.
For high abrasion and operating temperatures of 200°C MAX.

Creusabro® 4800® (Average Hardness 400HBW) Plasma or Laser Cut Screens.
For high abrasion and operating temperatures of 350°C Continuous, 400°C Intermittent.

ABRO 500 (Average Hardness 500HBW) Plasma or Laser Cut Screens.
For very high abrasion and operating temperatures of 200°C MAX.

Creusabro® 8000® (Average Hardness 500HBW) Plasma or Laser Cut Screens.
For extreme abrasion and operating temperatures of 300°C Continuous, 350°C intermittent.

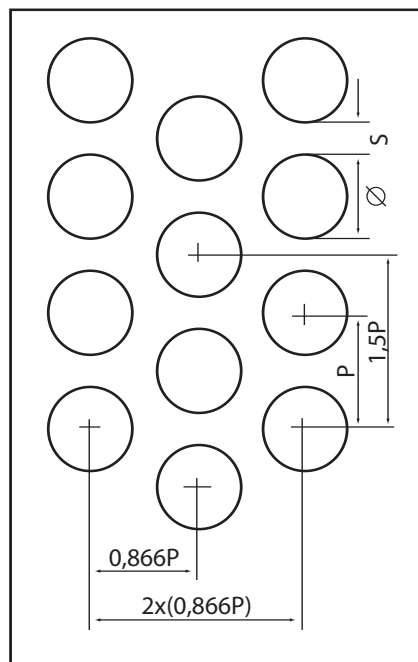
Applications

Quarries, mines, steel manufacture,
coke plants, metals recycling, tyre recycling,
household waste & wood recycling.

Details required for quotation

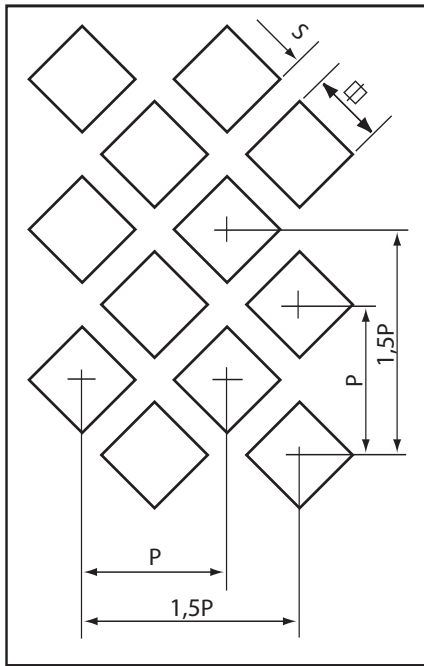
- Grade Required
- Operating temperature
- Degree of corrosion resistance
- Thickness of screen deck
- Size and shape of perforation
- Aperture configuration
- Type of fixing

Round holes



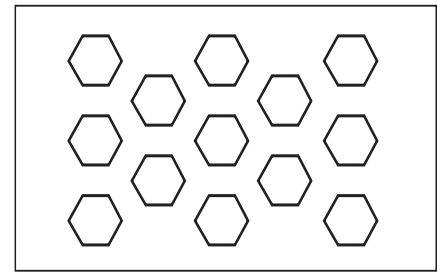
Ø	P mm	Ø inches	P inches
5	8	0.20"	0.31"
6	10	0.24"	0.39"
7	11.5	0.28"	0.45"
8	12.8	0.31"	0.50"
9	12.8	0.35"	0.61"
10	15.5	0.39"	0.61"
11	15.5	0.43"	0.61"
12	18.6	0.47"	0.73"
13	18.5	0.51"	0.73"
14	21.5	0.55"	0.85"
15	22	0.59"	0.85"
16	23	0.63"	0.91"
17	25.2	0.67"	0.99"
18	26	0.71"	1.02"
20	29.4	0.79"	1.16"
22	32	0.87"	1.26"
24	33.5	0.94"	1.32"
25	36.7	0.98"	
27	37.2	1.06"	
28	39.4	1.10"	
30	41	1.18"	
32	46.9	1.26"	

Diamond Square holes



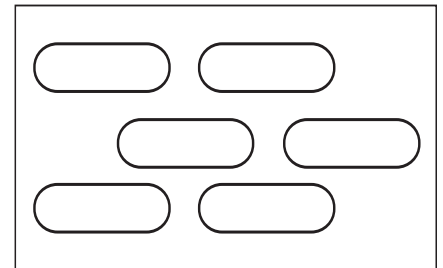
Ø	P mm	Ø inches	P inches
6	15	0.24"	0.59"
8	18.3	0.31"	0.73"
10	22	0.39"	0.87"
12	25.4	0.47"	1"
14	29.3	0.55"	1.15"
15	31.9	0.59"	1.26"
17	36	0.67"	1.42"
18	37.5	0.71"	1.48"
20	41	0.79"	1.61"
22	46.5	0.87"	1.83"
25	50.9	0.98"	2.00"
26	52	1.02"	2.05"
27	56	1.06"	2.20"
28	58.7	1.10"	2.31"
30	61	1.18"	2.40"
32	66.4	1.26"	2.61"

Hexagonal holes

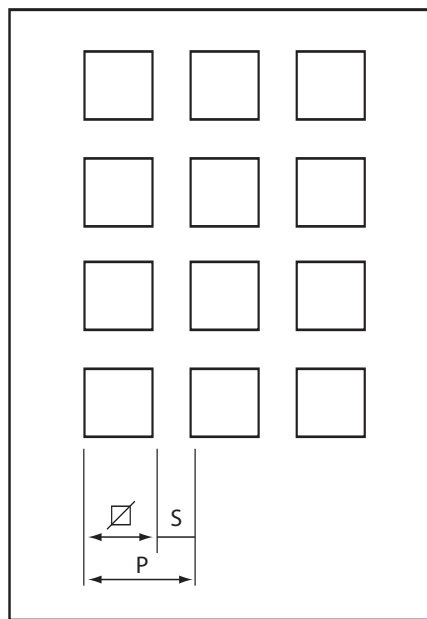


KEY mm	PITCH	DISPL
	STANDARD	
4	10.22	2.95
6	15.59	4.5
7	11	9.52
8	20.78	6
10	14	24.25
12	17	14.72
15	20	17.32
26	33	28.57
28	35	30.3

Slotted holes



SLOT mm	PITCH STANDARD
1,5x20	24x6
2x20	24x6
2,5x20	24x6
3x20	24x8
4x20	27,2x9
5x25	31,9x11,5
6x25	31,9x13
8x12	13,5x18
8x30	40x16
10x30	37,2x18,8
13x45	62x23
17,5x44	60x25
24x38	54x36
25x90	107x40
27x60	76,1x39
27x90	107x40



Ø	P mm	Ø inches	P inches
6	10.6	0.24"	0.42"
8	13	0.31"	0.51"
10	15.6	0.39"	0.61"
12	18	0.47"	0.71"
14	20.3	0.55"	0.80"
15	22.6	0.59"	0.89"
17	25.5	0.67"	1"
18	26.6	0.71"	1.05"
20	29	0.79"	1.14"
22	33	0.87"	1.3"
25	36.1	0.98"	1.42"
26	36.9	1.02"	1.45"
27	39.7	1.06"	1.56"
28	41.6	1.10"	1.64"
30	43.3	1.18"	1.70"
32	47.1	1.26"	1.85"

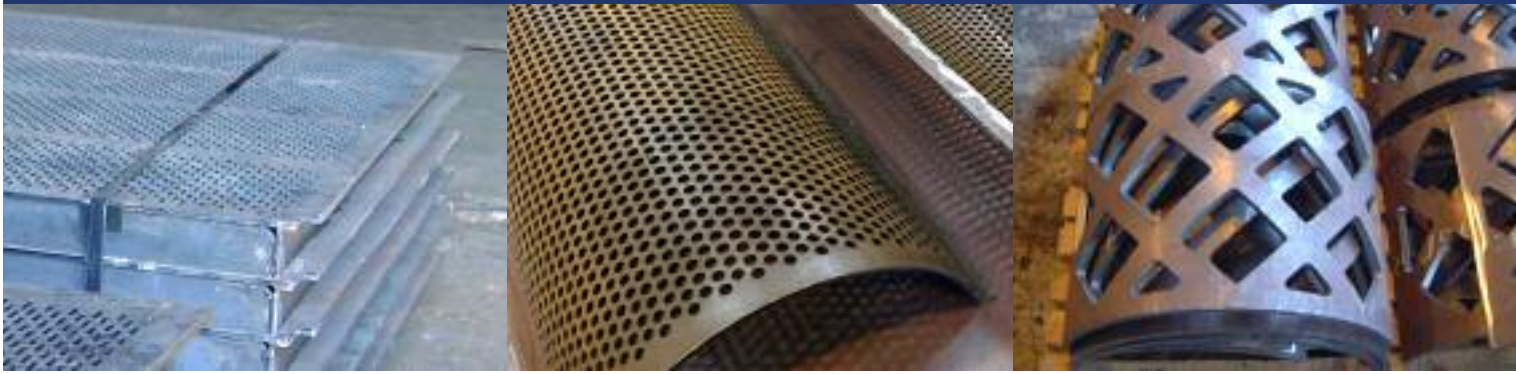
Note: IMS UK and its suppliers undertake continual material development and the data is a general guide, accurate at the time of printing. Buyers and users should satisfy themselves as to the suitability of the selected steel for their particular application.

Processing Facilities

- CAD / CAM Profiling
- Plasma Profiling
- Laser Profiling
- Oxy – gas Profiling
- DXF Compatible
- Perforating
- Forming
- Drilling and Countersinking
- Beveling
- Welded Fabrications

ABRASION RESISTANT PERFORATED PLATES

Part of the IMS Group, with sales offices established in over 14 European countries, IMS UK is a major distributor and processor of Abrasion Resistant and High Yield Steel plate throughout the UK and Ireland.



IMS have an extensive stock of 3mm - 120mm plate, including their branded ABRO range of abrasion resistant grades, and offer full technical and material selection advice and support to provide cost effective solutions for complex applications.

The abrasion resistant stock range comprises standard 400 and 500 brinell grades, 11-14% manganese, as well as the more specialised Creusabro 4800 and Creusabro 8000 materials. Weld overlay Ultraclad 800 offers even higher performance in certain

applications. For high strength and weight saving applications RQT 701 is also available.

With over 100 years of specialist knowledge within the steel industry, the company offers in-house manufacturing facilities, to provide profiled, formed and drilled parts and welded fabrications, supported by a CAD/CAM design service ensuring precision manufactured components.

Spec	Operating Temp	Cold forming	Hot forming	Welding	Drilling	Profiling	Wearlife x Mild Steel	Impact strength
Abro 400	200°C Max	B	X	A	B	GPWL	3 to 4	High
Abro 500	200°C Max	C	X	B	C	GPWL	6 to 8	High
Creusabro 4800	350°C Continuous 400°C Intermittent	B	A	A	B	GPWL	3 to 5	High
Creusabro 8000	300°C Continuous 350°C Intermittent	C	A	B	C	GPWL	8 to 10	High
Abro M	Ambient only	B	B	B	C to X	PWL	20 to 30	Very high
Ultraclad 801	450°C Continuous 600°C Intermittent	A	X	A	X	PWL	20 to 30	Moderate to high
690 Yield	Ambient	A	X	A	A	GPWL	1.5 to 2	Very high

A = Possible
B = Possible with some difficulty
C = Difficult
X = Not possible*

P = Plasma
W = Water jet
L = Laser
G = Gas

*Consult our technical sales for recommended methods of fixing.



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