

紅星篩網

— SINCE 1989 —

**PERFORATED SCREEN PLATE**

## ▪ **PERFORATED SCREEN PLATE**



- Mine-use perforated screen plates are high-strength, wear-resistant industrial screening components typically made from metal sheets (such as high-manganese steel, carbon steel, or stainless steel) or wear-resistant rubber/polyurethane through precise punching.
- They are primarily installed on mining screening equipment such as vibrating screens and drum screens to perform tasks such as particle size classification, dewatering, desliming, or de-mediuming of crushed minerals, coal, sand, and gravel.
- Customization options include different materials (carbon steel, stainless steel, rubber, polyurethane, composite), screen hole shapes and sizes, open area ratio, thickness, and overall dimensions to accommodate varying material characteristics (particle size, moisture content, hardness, abrasiveness) and screening process requirements.

## ▪ **Common Materials and Properties**

### **Carbon Steel**

- Characteristics: Perforated screen plates made of carbon steel are the most commonly used. Their main feature is their simple and ordinary production process (direct cold forming).

### **Stainless Steel**

- Characteristics: AISI 304 material has excellent mechanical properties and high corrosion resistance.
- AISI 316 steel plates are characterized by the presence of molybdenum in their chemical composition. They are resistant to strong acidic reagents.

### **Wear-Resistant Steel**

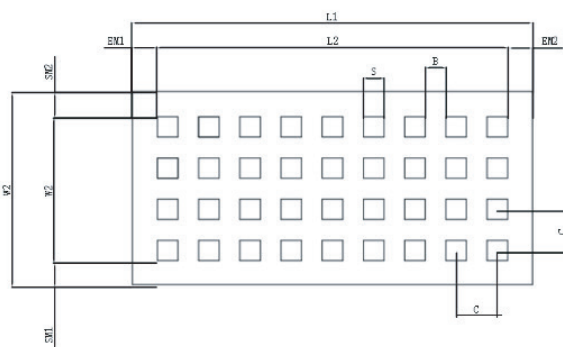
- Characteristics: Perforated plates made from wear-resistant steel are particularly suitable for high-wear production lines. They feature high hardness, strength, and elasticity.
- HB 400-450 steel has very high elasticity and strength. This makes it particularly easy to fold, bend, work with, and slide.
- HB 500 grade steel is highly wear-resistant and particularly suitable for handling hard minerals and abrasives.
- HB 550 grade steel combines the best performance of HB 500 and HB 600 grades.
- HB 600 grade steel is the hardest wear-resistant steel tested in the market.



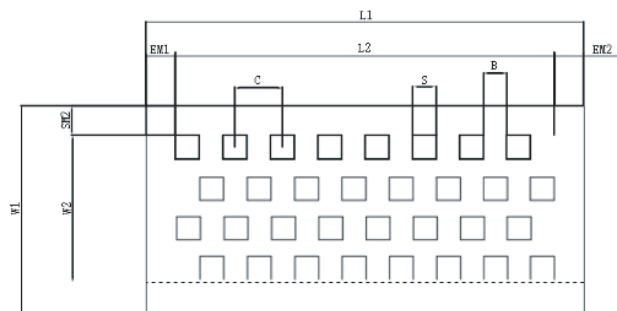
## ▪ Screen Hole Styles and Specifications

- Various hole shapes are available, including circular, square, rectangular, hexagonal, and more.
- Screen hole arrangements are categorized into regular symmetrical patterns and staggered patterns.
- **Hole diameter range:** 0.5mm–120mm
- **Sheet thickness:** 0.5mm–30mm
- **Sheet length:** 500mm–2000mm
- **Sheet width:** 500mm–1500mm
- Custom production available upon customer request.

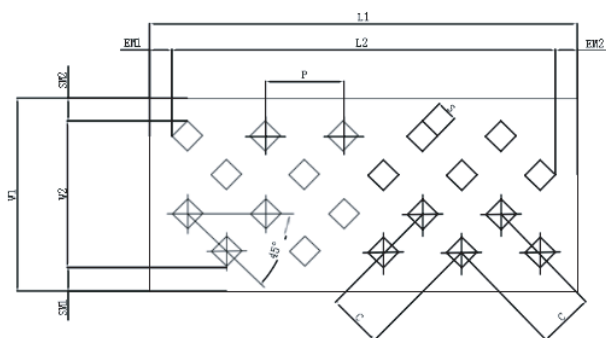
**Square hole style 1:**



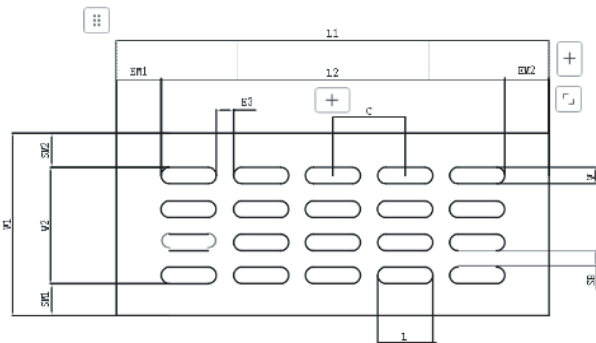
**Square hole style 2:**



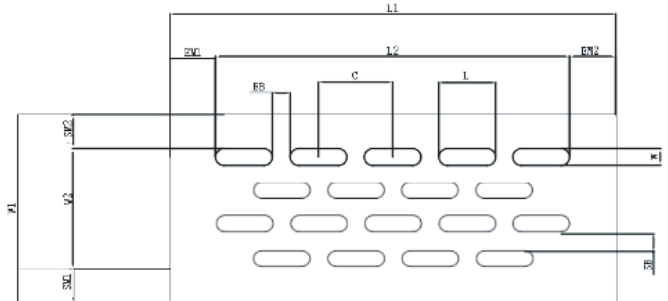
**Square hole style 3:**



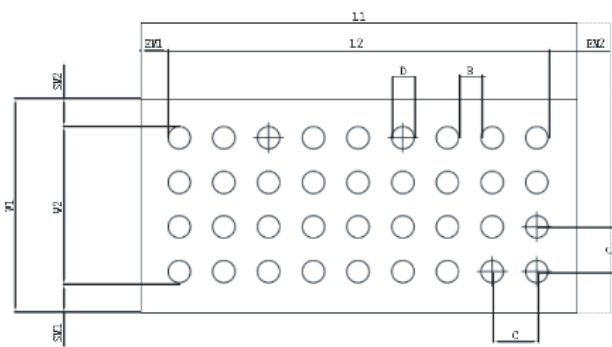
**Rectangular hole style 1:**



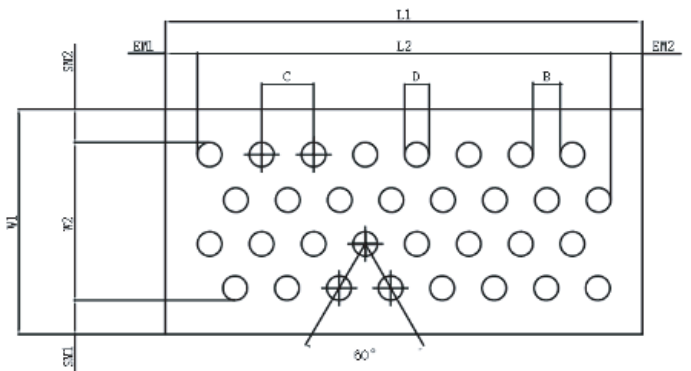
**Rectangular hole style 2:**



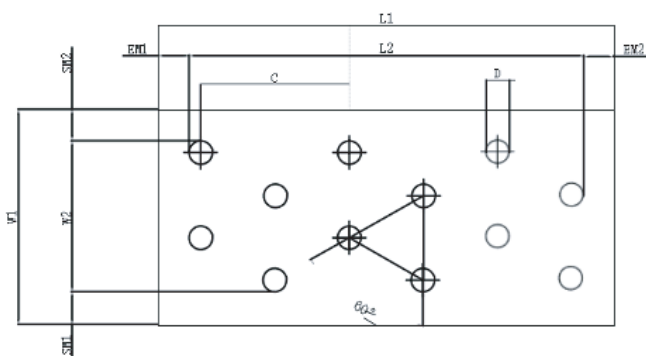
**Round hole style 1:**



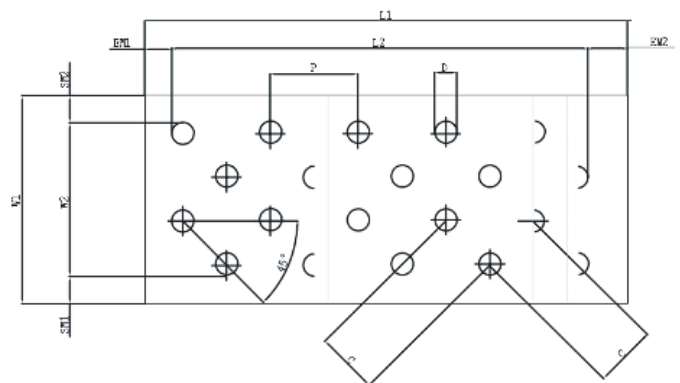
**Round hole style 2:**



**Round hole style 3:**



**Round hole style 4:**



## Description:

L1: Forming length

L2: Perforation range length

EM1: Margin 1

EM2: Margin 2

W1: Forming width

W2: Perforation range width

SM1: Margin 1

SM2: Margin 2

L: Long hole length

W: Long hole width

EB: Net hole spacing in the length direction of the long hole

SB: Net hole spacing in the width direction of the long hole

B: Net hole spacing

C: Center distance

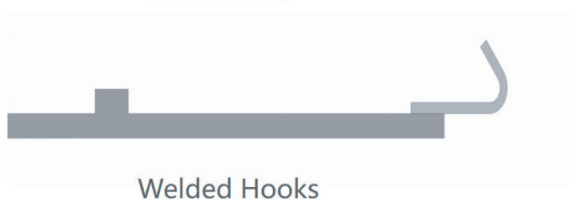
D: Diameter of the round hole opening

S: Dimensions of the square hole

P: Center distance of the round hole

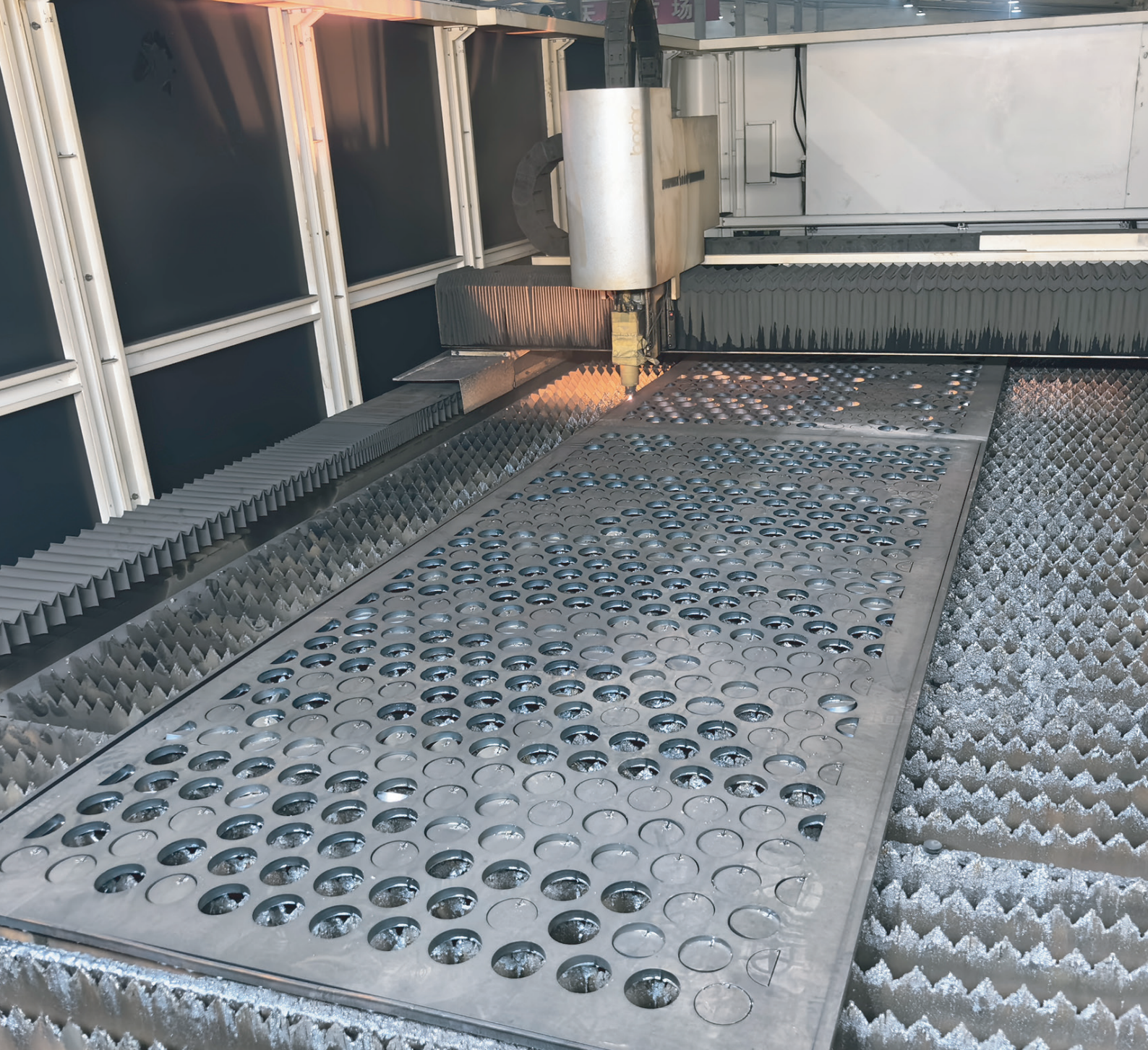
## ▪ Different installation methods

We can provide customers with a variety of installation methods, including flat hooks or reinforced hooks, bolt holes, etc.



直径	中心距	开孔率	板厚
0.5	1.25	14.5	0.5
0.8	1.6	22.5	0.5
0.8	2	14.5	0.8
1	2	23	0.5-1
1.2	2.25	14.5	1
1.5	3	23	0.5-1.5
1.8	3	33	1
2	3.5	30	0.5-1.5
2	4	23	2
2.5	4	35	0.5-1.5
2.5	5	23	2-2.5
3	5	33	0.5-2
3	6	23	3
3.5	5	44	0.5-1.5
3.5	6	31	2\3
4	6	40	0.5-1.5
4	7	30	2\3\4
5	7	46	0.5-1.5
5	8	35	2\3\4\5
6	8.5	44	0.5-1.5
6	10	33	2\3\4\5\6
7	10	44	1\1.5
7	11	37	2\3\4\5\6
8	11	48	0.8-1.5
8	12	40	2\3\4\5\6
8	15	26	8
8		45	2
9	13	45	1\1.5
9	14	37	2\3\4\5\6
10	14	46	0.8-1.5
10	15	40	2\3\4\5\6
10	18	28	8\10
12	16	51	1-1.5
12	17	45	2\3\4\5\6

直径	中心距	开孔率	板厚
12	20	32	8\10
14	20	44	8\10
15	18	63	1-1.5
15	22	42	2\3\4\5\6
15	24	35	8\10
15		22.5	2
16	20	58	1-1.5-2-3-4-5-6
16	24	48	8\10
18	22.5	56	1\1.5
18	25	47	1.5\2.5
18	27	40	5-6-8-10
20	25	58	1\1.5
20	27	49	2\3\4\5\6
20	30	40	8\10
22	28	56	2\3\4\5\6\8\10
25	34	49	1\1.5\2\4-10
28	35	58	4\5\6\8\10
30	37	60	1\1.5\5\3\4\5\6
30	40	51	8\10
35	46	52	2\3\4\5\6\8\10
40	50	58	2\3\4\5\6\8\10
45	60	51	2\4\5\6\8\10
50	62	59	2\3\4\5\6\8\10
60	75	58	4\5\6\8\10
70	84	61	4\5\6\8\10
80	96	62	4\5\6\8\10
90	112	58	4\5\6\8\10
100	124	58	4\5\6\8\10



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