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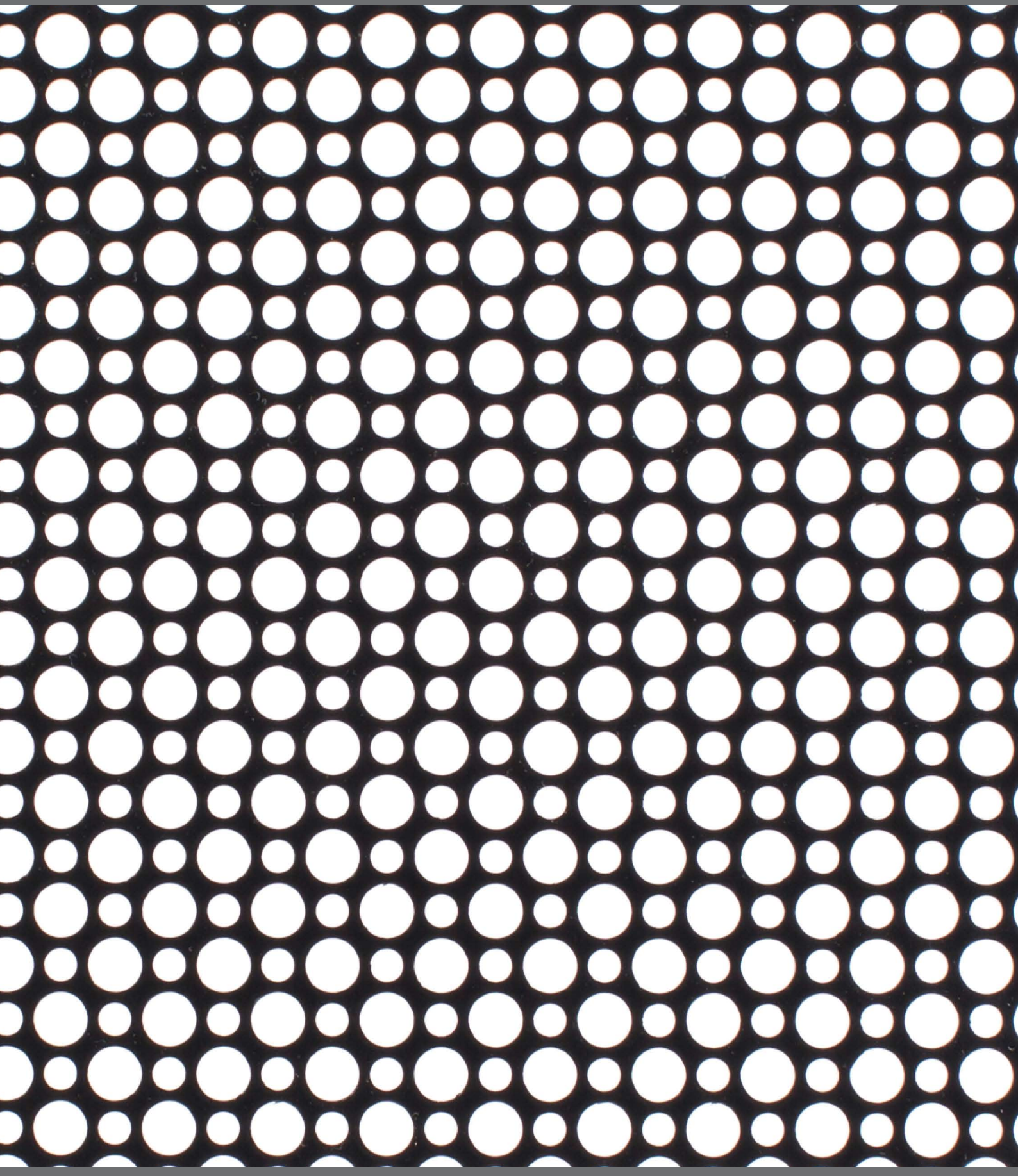
We set the standard

Perforated Metal



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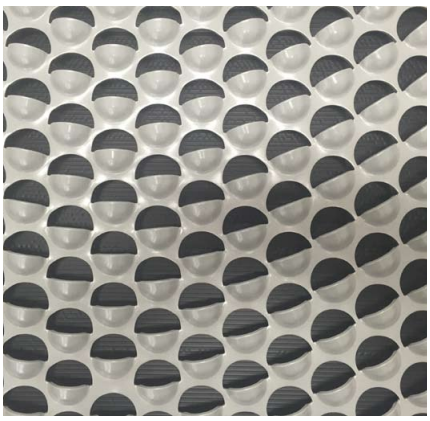
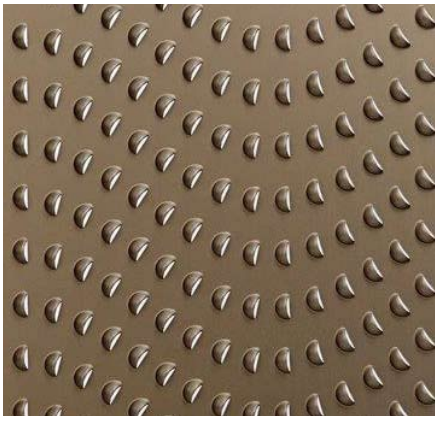
Decorative Perforated Metal

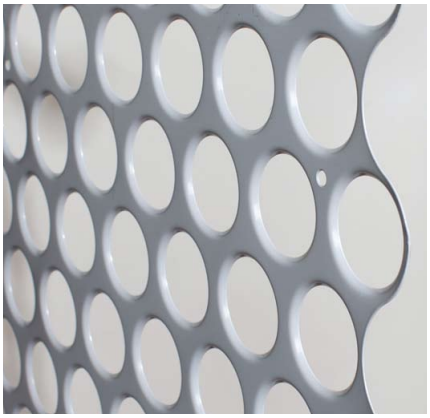
Available in standard sheet sizes (2400 x 1200) or custom made.



Directions

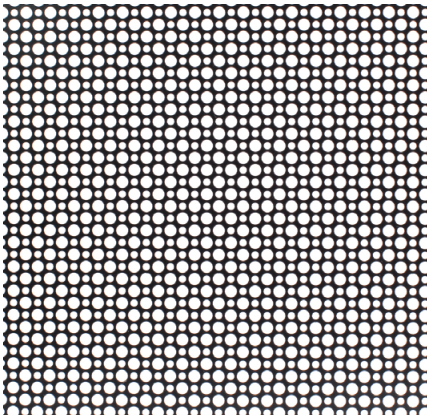


River



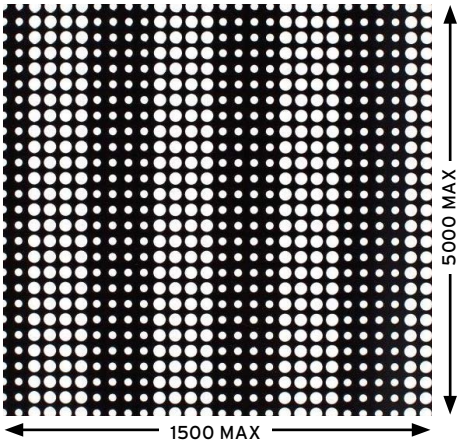
Odyssey

Open Area 50%



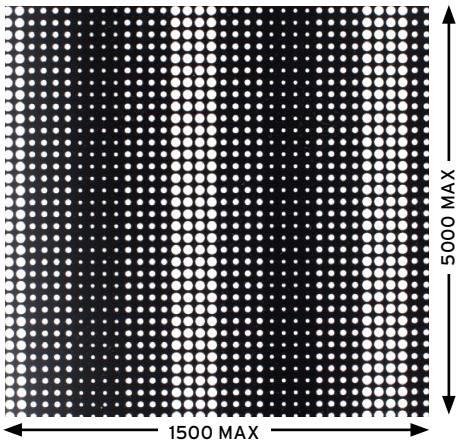
Morocco

Open Area 51%



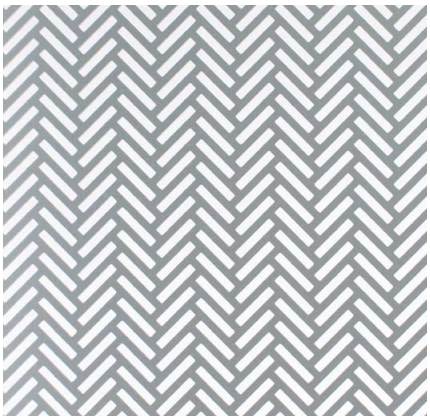
Domino 580

Open Area 33%



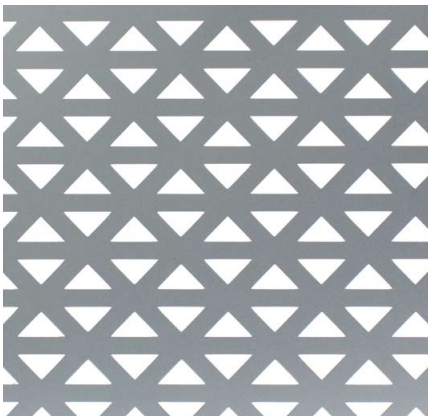
Domino 358

Open Area 25%



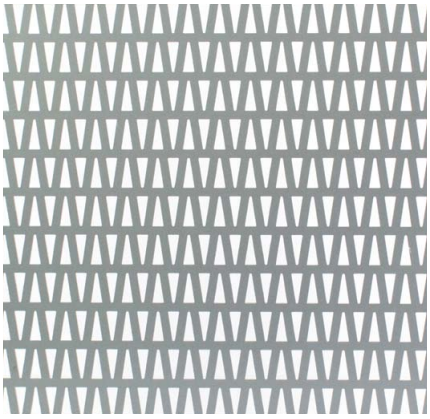
Herringbone

Open Area 43%



Aztec

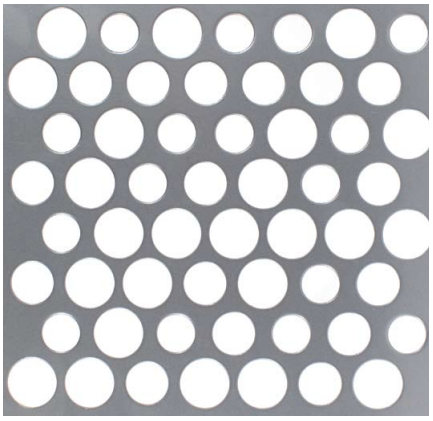
Open Area 28%



Ultimo

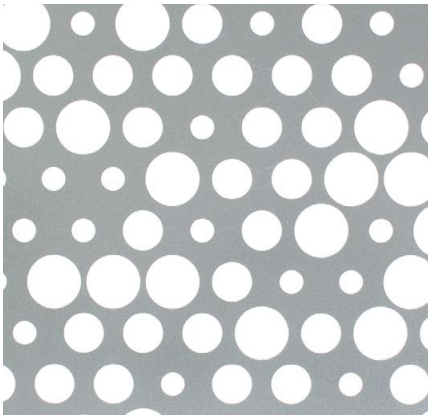
Open Area 34%

Images not to scale



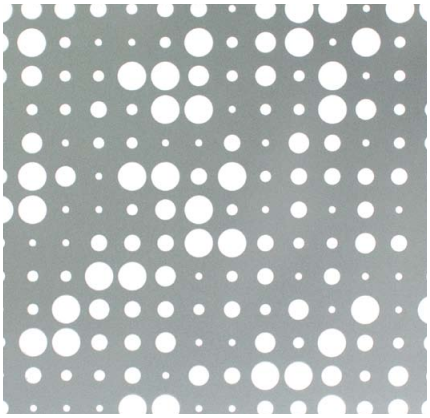
Aero

Open Area 56%



Aero 400

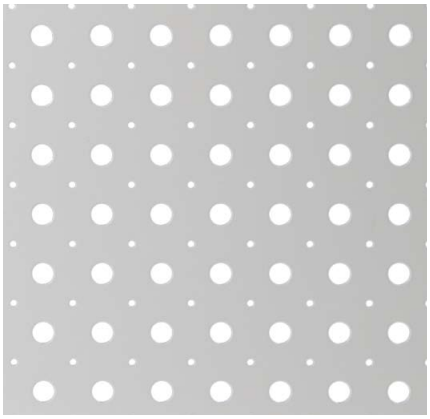
Open Area 40%



Champagne

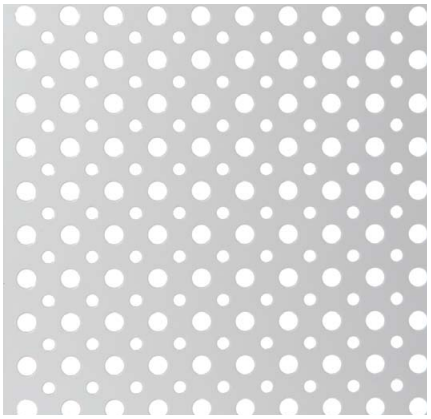
IN STOCK

Open Area 22%



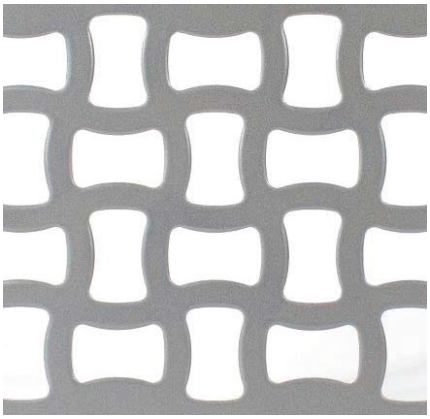
Orbit 14

Open Area 13%



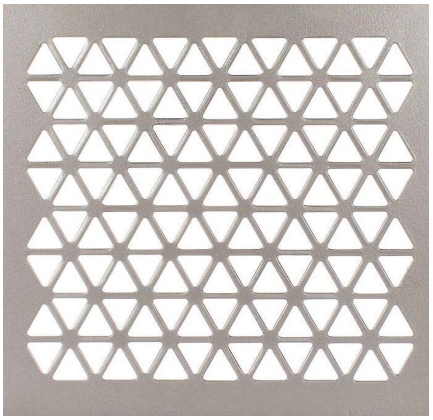
Orbit 19

Open Area 23%



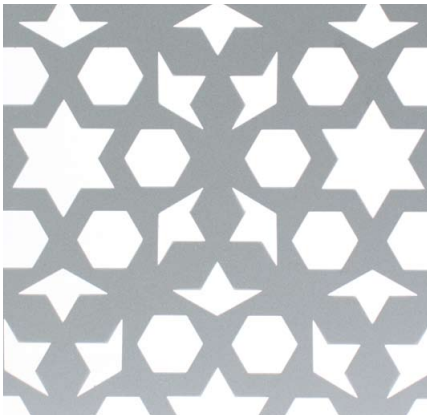
Ribbon

Open Area 51%



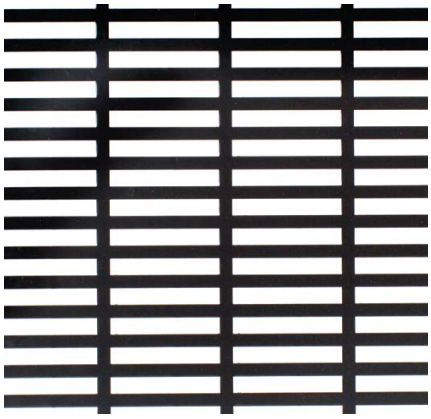
Prism

Open Area 62%



Stencil

Open Area 38%



Niche 10015

Open Area 51%

The profiles listed on this page are a small example of our capability. Locker can vary open area, tooling arrangements and/or hole sizes to suit your requirements.

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Standard Perforated Patterns

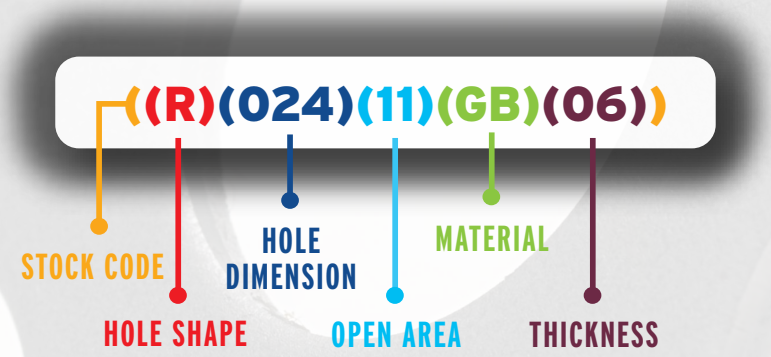
The following pages outline the standard range of perforated sheets available ex-stock from Locker Group locations around Australia. Standard sheets are listed in hole configurations (round, square etc), then material types and thicknesses for each pattern.

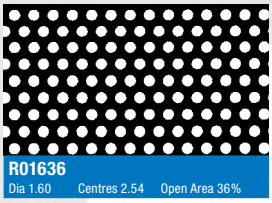
Locate the part you require using the patterns (shown as actual size). Find the pattern in the tables on the following pages, selecting the appropriate material, thickness and sheet size (where possible).

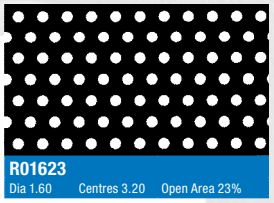
Please note:

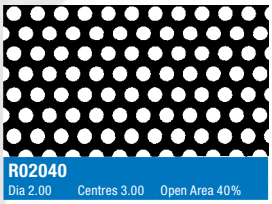
- **Stock sheets are available in a standard size (2440mm x 1220mm) unless identified.**
- **All dimensions are in millimeters and are nominal.**
- **End of sheets are cut through perforations (nil margins).**
- **Borders are available through Locker Group's custom made perforation service.**
- **Locker Group reserves the right to make technical changes without notice.**

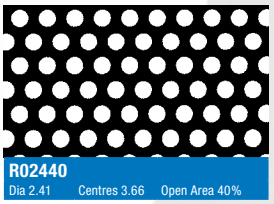
Perforated Part Numbers

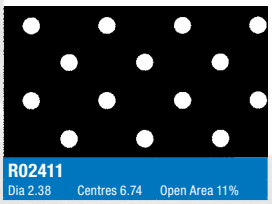


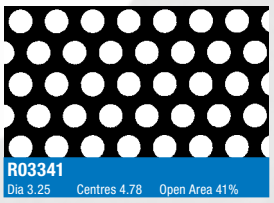

R01636
Dia 1.60 Centres 2.54 Open Area 36%

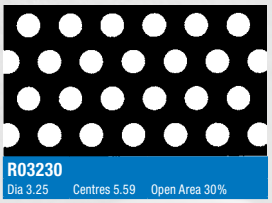

R01623
Dia 1.60 Centres 3.20 Open Area 23%

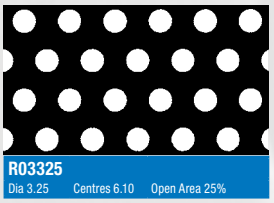

R02040
Dia 2.00 Centres 3.00 Open Area 40%

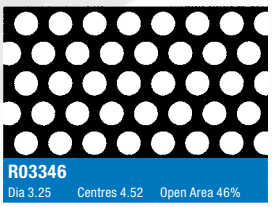

R02440
Dia 2.41 Centres 3.66 Open Area 40%

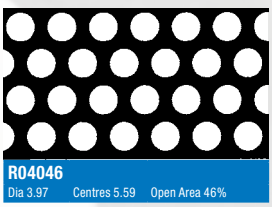

R02411
Dia 2.38 Centres 6.74 Open Area 11%

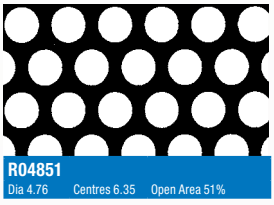

R03341
Dia 3.25 Centres 4.78 Open Area 41%

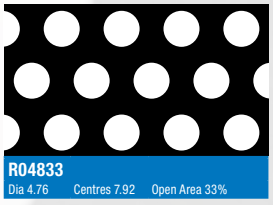

R03230
Dia 3.25 Centres 5.59 Open Area 30%

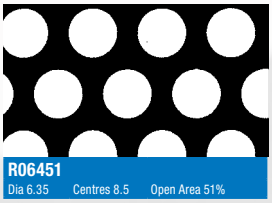

R03325
Dia 3.25 Centres 6.10 Open Area 25%

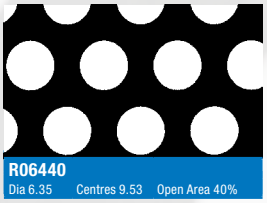

R03346
Dia 3.25 Centres 4.52 Open Area 46%

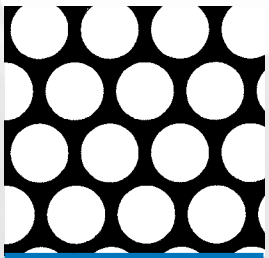

R04046
Dia 3.97 Centres 5.59 Open Area 46%


R04851
Dia 4.76 Centres 6.35 Open Area 51%

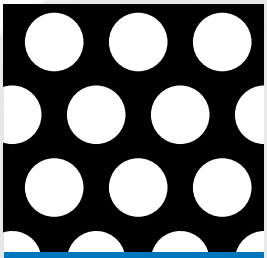

R04833
Dia 4.76 Centres 7.92 Open Area 33%


R06451
Dia 6.35 Centres 8.5 Open Area 51%

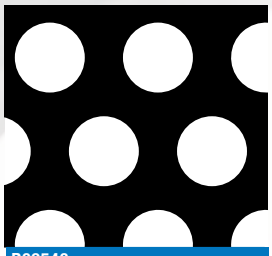

R06440
Dia 6.35 Centres 9.53 Open Area 40%



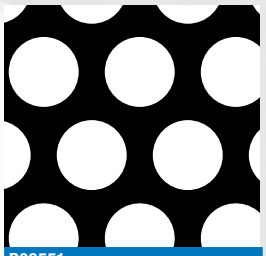
R07962
Dia 7.94 Centres 9.55 Open Area 62%



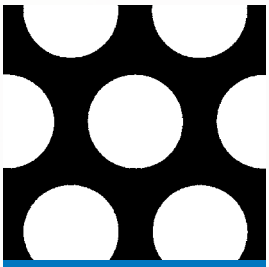
R08047
Dia 8.00 Centres 11.11 Open Area 47%



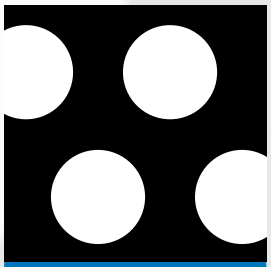
R09540
Dia 9.50 Centres 14.30 Open Area 40%



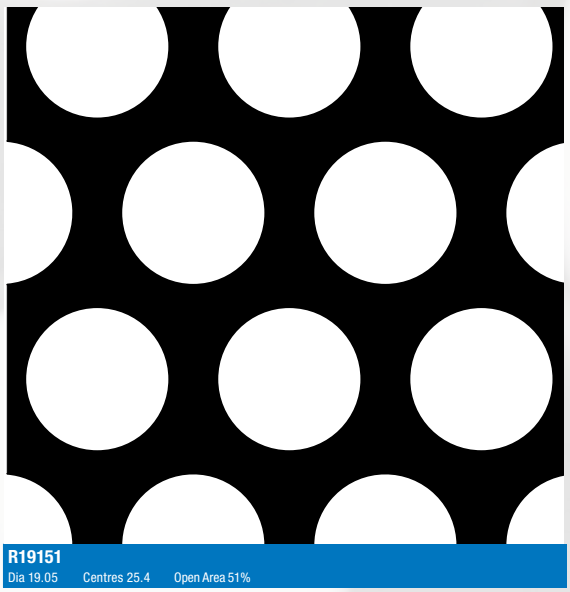
R09551
Dia 9.50 Centres 12.7 Open Area 51%



R12749
Dia 12.7 Centres 17.27 Open Area 49%

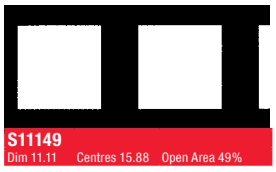


R12740
Dia 12.7 Centres 19.05 Open Area 40%



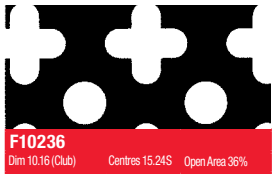
R19151
Dia 19.05 Centres 25.4 Open Area 51%

S08053
Dim 8.00 Centres 11.00 Open Area 48%



S11149
Dim 11.11 Centres 15.88 Open Area 49%

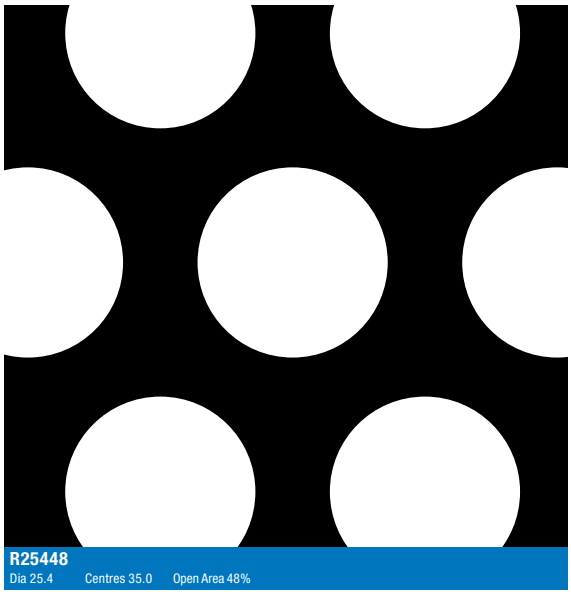
D05619
Dim 5.56 Centres 12.7 Open Area 19%



F10236
Dim 10.16 (Club) Centres 15.24S Open Area 36%

L25440 CODE E
Dim 25.4 x 4.76 Centres 30.16 Open Area 40%

L25443 CODE A
Dim 25.4 x 6.35 Centres 11.18 Open Area 43%



R25448
Dia 25.4 Centres 35.0 Open Area 48%

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Standard Perforated Patterns

Key to Table

Available in Std Sheet size. (2440mm x 1220mm)

C4 1220mm wide coil & Std Sheet size

* Multiple Sizes Available 6' x 4', 8' x 3', 8' x 5', 10' x 3', 10' x 4', 10' x 5', C4, C5

† Aluminium stock is available in metric size sheets only, eg 2400mm x 1200mm

ROUND HOLES - Mild Steel (MS)

Pattern No.	Diameter	Centres	Open Area %	.6	.8	1	1.2	1.6	2	2.5	3	5	6	10
R01623	1.60	3.20	23%				■							
R01636	1.60	2.54	36%		■									
R01637	1.60	2.50	37%			■								
R02040	2.00	3.00	40%			■								
R02440	2.41	3.66	40%	■		■		■						
R03230	3.25	5.59	30%			■		■			■			
R03240	3.25	4.78	40%			■		■		■	■			
R03325	3.25	6.10	25%								■			
R03341	3.25	4.78	41%						■		■			
R03346	3.25	4.52	46%			■								
R04833	4.76	7.92	33%					■			■			
R04851	4.76	6.35	51%			■		■	■		■	■		
R06440	6.35	9.53	40%					■		■	■		■	
R06446	6.35	8.89	46%			■								
R06451	6.35	8.50	51%			■	■	■			■			
R07962	7.94	9.55	62%					■	■					
R08047	8.00	11.11	47%			■		■			■			
R09523	9.53	19.05	23%											■
R09540	9.50	14.30	40%					■			■	■	■	
R09551	9.50	12.70	51%			■	■	■						
R12740	12.70	19.05	40%										■	
R12748	12.70	17.46	48%								■		■	
R12749	12.70	17.27	49%					■			■			
R19151	19.05	25.40	51%								■			
R25448	25.40	35.00	48%								■			

ROUND HOLES - Galvanised (GB)

Pattern No.	Diameter	Centres	Open Area %	.6	.8	1	1.2	1.6	2	2.5	3	5	6	10
R01637	1.60	2.50	37%			■								
R02040	2.00	3.00	40%			■								
R02411	2.38	6.74	11%	■	■									
R02440	2.38	3.57	40%			■		■						
R03230	3.25	5.59	30%	■	■	■		■						
R03240	3.25	4.78	40%		■	■		■						
R04851	4.76	6.35	51%	■		■		■						
R06440	6.35	9.53	40%			■		■						
R06451	6.35	8.50	51%			■		■						
R07962	7.94	9.55	62%			■		■						
R08047	8.00	11.11	47%			■		■						
R09540	9.50	14.30	40%			■		■						
R09551	9.50	12.70	51%			■	■	■						
R12749	12.70	17.27	49%			■		■						

ROUND HOLES - Stainless Steel 316 (S6)

Pattern No.	Diameter	Centres	Open Area %	.3	.45	.5	.55	.7	.8	.9	1	1.2	1.5
R02440	2.38	3.57	40%							■			
R03230	3.25	5.59	30%									■	
R03240	3.25	4.78	40%										■
R04851	4.76	6.35	51%										■

ROUND HOLES - Stainless Steel 304 (S4)

Pattern No.	Diameter	Centres	Open Area %	.3	.45	.5	.55	.7	.8	.9	1	1.2	1.5
R01636	1.60	2.54	36%					■					
R02141	2.06	3.10	41%							■			
R02411	2.38	6.74	11%				■						
R02440	2.38	3.57	40%							■			
R03230	3.25	5.59	30%							■			
R03240	3.25	4.78	40%							■			
R04851	4.76	6.35	51%							■			
R06440	6.35	9.55	40%										■
R06451	6.35	8.50	51%							■			■
R09540	9.50	14.30	40%										■
R12749	12.70	17.27	49%										■

ROUND HOLES - Aluminium† (A5)

Pattern No.	Diameter	Centres	Open Area %	.6	.8	1	1.2	1.6	2	2.5	3	5	6	10
R02411	2.38	6.74	11%		■									
R02440	2.38	3.57	40%			■								
R03230	3.25	5.59	30%					■						
R03325	3.25	6.10	25%								■			
R03240	3.25	4.78	40%	■										
R04851	4.76	6.35	51%			■	■	■			■			
R06440	6.35	9.53	40%								■			
R06451	6.35	8.50	51%						■					
R09540	9.50	14.30	40%						■					
R09551	9.50	12.70	51%					■			■			

ROUND HOLES - Zincanneal (ZA)

Pattern No.	Diameter	Centres	Open Area %	.3	.45	.5	.55	.7	.8	.9	1	1.2	1.5
R02411	2.38	6.74	11%				C4						
R03230	3.25	5.59	30%				■						
R04851	4.76	6.35	51%										

ROUND HOLES - Zincseal (ZS)

Pattern No.	Diameter	Centres	Open Area %	.3	.45	.5	.55	.7	.8	.9	1	1.2	1.5
R01637	1.60	2.50	37%				■		■				
R02141	2.06	3.10	41%			■							

SLOTTED HOLES

Pattern No.	Hole Dimension	Centres	Open Area %	.55	.8	1	1.2	1.6	2	2.5	3	5	6
Mild Steel (MS)													
L25443	25.4 x 6.35 EB:6.35, SB:4.83	11.18 CODE A	43%			■							
Aluminium† (A5)													
L25440	25.4 x 4.76 EB: 4.76, SB:4.76	30.16 CODE E	40%								■		

DIAMOND HOLES

Pattern No.	Hole Dimension	Centres	Open Area %	.6	.8	1	1.2	1.6	2	2.5	3	5	6
Mild Steel (MS)													
D05619	5.56D	12.7S	19%		■								

CLUB & ROUND - FANCY

Pattern No.	Hole Dimension	Centres	Open Area %	.55	.8	1	1.2	1.6	2	2.5	3	5	6
Mild Steel (MS)													
F10236	10.16 CLUB	15.24S	36%				■						
Zincanneal (ZA)													
F10236	10.16 CLUB	15.24S	36%		■								

SQUARE HOLES

Pattern No.	Hole Dimension	Centres	Open Area %	.6	.8	1	1.2	1.6	2	2.5	3	5	6
Aluminium† (A5)													
S08053	8.0S	11.00S	53%				■						
Mild Steel (MS)													
S08053	8.0S	11.00S	53%			■							
S11149	11.11S	15.88S	49%			■		■					

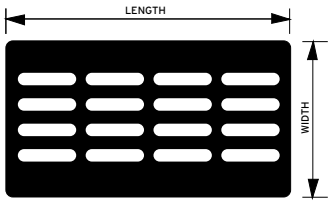
SAFE-T-PERF

Pattern No.	Raised Hole Dimension	Drain Hole Dimension	Centres	Open Area %	1	1.2	1.6	2	2.5	3	5	6
SAFE-T-PERF – Mild Steel (MS)												
Universal 14	14.00	10.00	38.10	16%					■			
SAFE-T-PERF – Hot Dip Galvanised (H.D.G)												
Universal 14	14.00	10.00	38.10	16%					■			
SAFE-T-PERF – Stainless Steel 304 (S4)												
Universal 14	14.00	10.00	38.10	16%				■				
SAFE-T-PERF – Aluminium† Marine Grade												
Stock Crate 19	19.05	12.70	42.00	23%						■		

DECORATIVE ALUMINIUM

Pattern No.	Shape	Open Area %	1.0	1.6	2	3	4	5
Aero	Round Various	56%				■		
Champagne	Round Various	22%				■		
Domino 358	Round Various	25%				■		
Ribbon	Woven	51%				■		
Aztec	Triangle	28%				■		

Codes for Slot Direction



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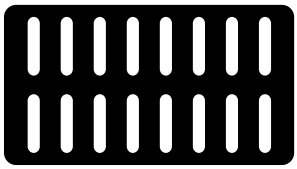
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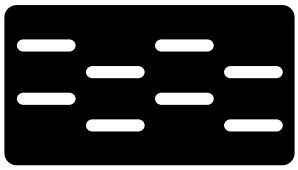
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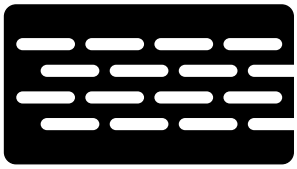
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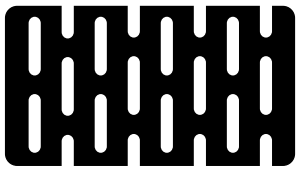
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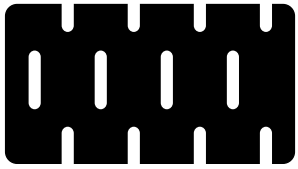
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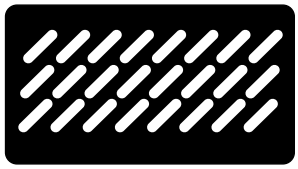
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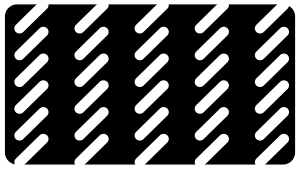
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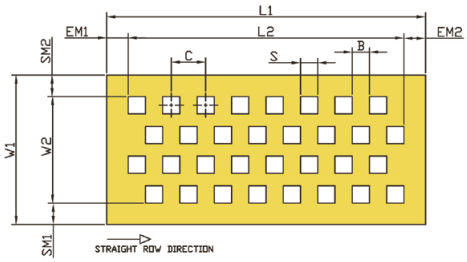
LOCKER
A valmont COMPANY

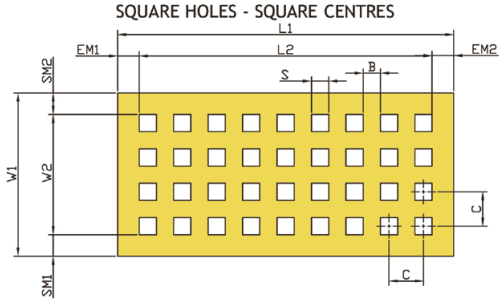
Perforated Metal

Orientation

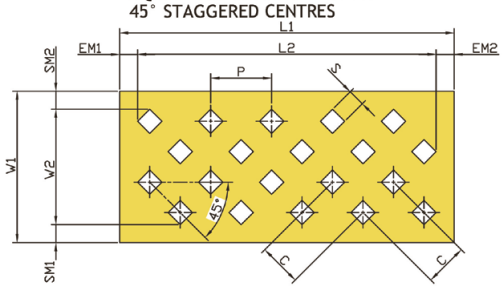
SQUARE HOLES - STAGGERED CENTRES



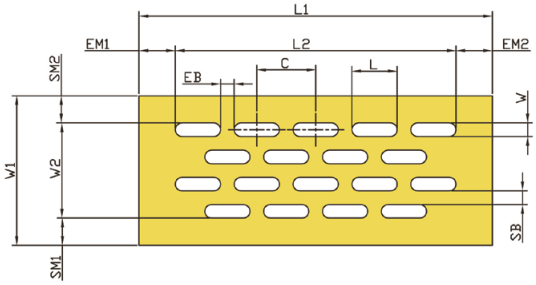
SQUARE HOLES - SQUARE CENTRES



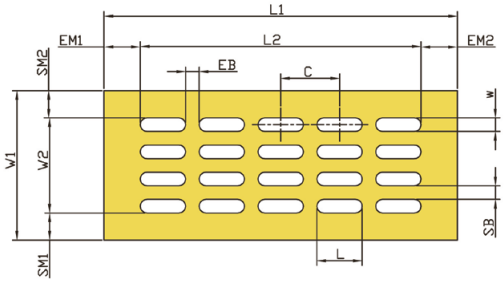
SQUARE ON DIAGONAL HOLES - 45° STAGGERED CENTRES



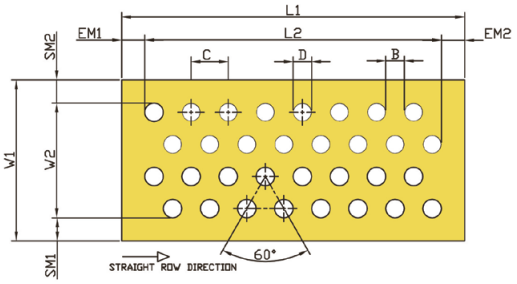
ROUND END SLOT - STAGGERED CENTRES



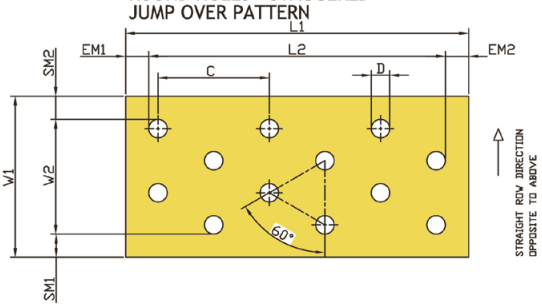
ROUND END SLOT - STRAIGHT CENTRES



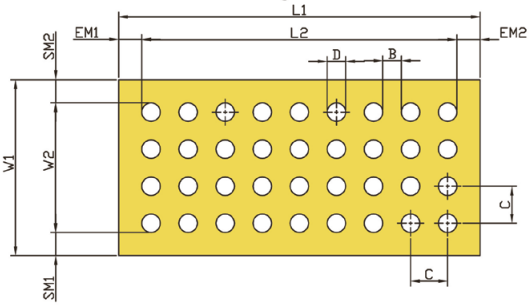
ROUND HOLES - 60° STAGGERED CENTRES



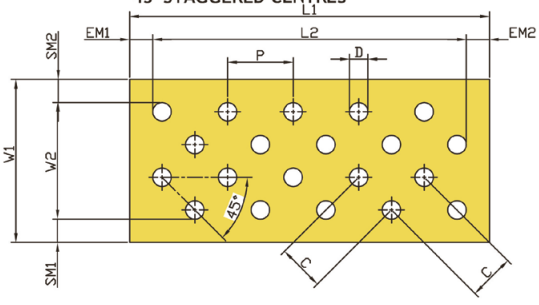
ROUND HOLES - STAGGERED JUMP OVER PATTERN



ROUND HOLES - SQUARE CENTRES



ROUND HOLES - 45°STAGGERED CENTRES



L1	:	LENGTH OF SHEET
L2	:	LENGTH OF PERFORATED AREA
EM1	:	END MARGIN - 1
EM2	:	END MARGIN - 2
W1	:	WIDTH OF SHEET
W2	:	WIDTH OF PERFORATED AREA
SM1	:	SIDE MARGIN - 1
SM2	:	SIDE MARGIN - 2
L	:	LENGTH OF SLOT
W	:	WIDTH OF SLOT
EB	:	END BRIDGE
SB	:	SIDE BRIDGE
B	:	BRIDGE
C	:	CENTRES
D	:	HOLE DIAMETER
S	:	SQUARE HOLE SIZE
P	:	PITCH

We set the standard

Custom Perf Capabilities

The following is a sample of Locker Group's custom perforating capabilities.
Refer to your local branch for material type, size and thickness available.
Specific patterns can also be developed to suit your application.

JUMP = JUMPOVER PATTERN
STG = STAGGERED CENTRES
SQR = ON SQUARE PATTERN
SQR45° = ON SQUARE AT 45°

Round Hole

Hole Size	Centres	%Open Area	Orientation
1.02	1.93	25.33	STG
1.02	3.35	8.41	STG
1.60	2.50	37.00	STG
1.60	2.54	35.99	STG
1.60	3.20	22.67	STG
1.60	4.33	12.40	JUMP
1.60	4.45	11.72	JUMP
1.60	4.76	10.25	STG
1.60	5.60	7.40	JUMP
2.06	3.00	42.76	STG
2.06	3.10	40.05	STG
2.06	5.20	14.23	JUMP
2.06	5.38	13.30	JUMP
2.38	3.57	40.00	STG
2.38	4.76	20.00	SQR
2.41	3.66	39.32	STG
2.41	3.96	33.59	STG
2.41	4.76	20.00	SQR
2.41	6.35	13.06	JUMP
2.41	6.86	11.19	JUMP
2.41	9.52	11.00	SQR45°
2.51	5.00	22.85	STG
2.51	8.65	7.64	JUMP
3.17	4.76	40.00	STG
3.17	5.56	30.00	STG
3.17	6.35	23.00	STG
3.17	8.24	13.40	JUMP
3.17	9.63	10.00	JUMP
3.17	11.00	8.00	JUMP
3.25	4.52	46.89	STG
3.25	4.78	41.92	STG
3.25	5.59	30.00	STG
3.25	6.10	25.74	STG
3.25	7.80	15.70	JUMP
3.25	8.28	41.92	JUMP
3.25	8.28	14.00	JUMP
3.25	9.67	30.66	JUMP
3.25	9.67	10.24	STG
3.25	10.58	8.50	JUMP
3.97	5.59	45.74	STG
3.97	6.35	35.45	STG
3.97	9.70	15.19	JUMP
3.97	11.00	11.81	JUMP
4.00	7.00	30.00	STG
4.00	7.62	25.00	STG
4.76	6.35	50.96	STG
4.76	7.14	40.31	STG
4.76	7.92	32.76	STG
4.76	7.94	33.00	STG
4.76	9.53	23.00	STG
4.76	11.00	17.14	JUMP
4.76	12.40	13.36	JUMP
4.76	13.72	10.92	JUMP
4.80	6.35	51.00	STG
4.80	6.77	40.00	SQR
4.80	11.00	17.00	JUMP
5.00	8.00	30.68	SQR
5.56	12.70	17.00	STG
5.60	9.50	32.00	STG
6.35	7.94	58.00	STG
6.35	8.50	50.60	STG
6.35	8.64	48.99	STG
6.35	8.89	46.27	STG
6.35	9.53	40.00	STG
6.35	11.20	29.15	STG
6.35	12.70	22.67	STG
6.35	13.72	19.50	JUMP
6.35	14.72	17.00	JUMP
6.35	15.00	16.25	JUMP
6.35	15.40	15.40	SQR
6.35	16.50	13.00	JUMP
6.35	19.40	9.72	JUMP
6.35	22.00	7.56	JUMP
6.35	37.00	2.31	SQR
7.14	9.53	51.00	STG
7.94	9.53	62.69	STG
7.94	9.55	62.69	STG
7.94	12.70	35.45	STG
7.94	16.50	21.00	JUMP
7.94	16.54	21.00	JUMP
7.94	22.00	11.81	JUMP
8.00	11.00	48.00	STG
8.00	11.11	47.00	STG
8.00	12.00	40.00	STG
8.00	12.70	36.00	STG
8.00	14.00	26.00	SQR
8.00	16.00	23.00	STG
8.00	19.05	16.00	STG
8.00	19.24	16.00	JUMP
8.73	17.46	23.00	STG
9.00	16.32	23.90	SQR
9.50	12.70	51.00	STG
9.50	14.30	40.00	STG
9.50	16.00	32.00	STG
9.50	19.00	23.00	STG
9.50	22.00	17.00	JUMP
9.50	24.76	13.40	JUMP
9.50	33.00	23.00	JUMP
9.53	12.70	51.01	STG
9.53	15.90	32.55	STG
9.53	22.00	17.00	JUMP
9.53	27.50	10.88	JUMP
9.53	12.70	51.07	STG
9.53	14.27	40.45	STG
9.53	14.30	24.00	STG
9.53	24.70	11.69	SQR
9.53	24.72	13.50	JUMP
10.00	16.30	29.60	SQR
10.00	38.00	5.00	SQR
11.00	16.28	35.80	SQR
11.11	15.24	48.00	STG
11.11	15.24	41.00	SQR
11.11	16.67	40.00	STG
11.11	19.05	31.00	STG
12.00	16.24	42.90	SQR
12.00	20.00	33.00	STG
12.7	17.27	48.04	STG
12.7	17.30	48.90	STG
12.7	17.45	48.04	STG
12.7	17.46	48.00	STG
12.7	19.05	40.00	STG
12.7	22.23	30.00	STG
12.7	25.40	22.67	STG
12.7	29.90	16.36	JUMP
12.7	30.00	16.20	JUMP
12.7	42.00	7.18	SQR
13.00	16.24	50.30	SQR
14.29	19.00	51.00	STG
15.87	20.52	54.24	STG
15.8	35.55	18.07	JUMP
15.88	23.80	40.37	STG
15.88	23.81	40.00	STG
17.46	25.40	43.00	STG
19.00	23.80	58.00	STG
19.00	28.60	40.00	STG
19.00	33.00	30.00	STG
19.05	25.40	51.01	STG
19.05	26.99	45.00	STG
19.05	42.00	16.15	SQR
19.05	44.00	17.00	JUMP
20.64	31.75	38.00	STG
20.64	22.54	36.00	STG
22.00	27.00	60.00	STG
22.23	28.58	55.00	STG
22.23	31.75	45.00	STG
23.81	31.75	51.00	STG
25.4	35.00	48.00	STG
25.4	35.00	41.00	SQR
25.4	38.10	40.31	STG
25.4	44.45	26.00	STG
25.4	66.00	13.43	JUMP
28.58	41.28	44.00	STG
30.0	38.00	49.00	SQR
31.75	41.27	54.00	STG
31.75	42.90	50.00	STG
33.34	49.21	42.00	STG
34.93	47.63	49.00	STG
38.1	57.15	40.00	STG
38.1	88.90	17.00	STG
46.04	57.15	59.00	SQR

Hexagonal Hole

Hole Size	Centres	%Open Area	Orientation
9.53	11.89	64.24	STG
12.7	15.88	64.00	STG
12.7	19.00	45.00	STG
15.88	20.62	59.00	STG
23.81	32.00	55.00	STG
27.73	32.50	72.80	STG

Round End Slots

Hole Size	%Open Area	Orientation
12.7 x 2.38	23.00	F
12.7 x 3.17	21.00	B
13.0 x 3.00	28.00	A
19.0 x 3.00	41.72	A
19.0 x 3.00	42.00	E, F
19.05 x 3.18	41.00	F
19.05 x 4.76	30.00	F
19.05 x 6.35	28.00	H
20.0 x 3.00	39.00	E
20.0 x 5.00	37.85	A
20.0 x 5.00	38.00	B
20.32 x 7.62	37.00	F
20.32 x 7.92	38.27	F
25.0 x 2.00	16.22	A
25.0 x 5.00	47.00	E
25.4 x 2.00	30.00	E
25.4 x 2.38	36.00	E
25.4 x 3.97	33.69	E
25.4 x 4.76	40.00	E
25.4 x 6.35	42.99	A,B,E,F,G,H
25.4 x 6.35	38.00	E,F
25.4 x 11.90	51.00	F
25.91 x 1.78	30.00	E
31.75 x 3.00	39.00	E
31.75 x 4.76	35.00	E
31.75 x 6.35	24.00	E
31.75 x 19.05	14.00	H
38.1 x 9.52	49.00	E
38.1 x 12.70	47.60	E
40.0 x 16.00	34.00	A,B,E,F,G
75.0 x 8.00	25.00	A

Acoustic

Hole Size	Centres	%Open Area	Orientation
2.38	6.74	11.00	SQR45°
3.25	5.59	30.00	STG

Square Hole

Hole Size	Centres	%Open Area	Orientation
2.00	6.00	11.10	SQR
3.17	5.95	29.00	STG
4.76	6.35	56.00	SQR
4.76	7.00	47.00	SQR
4.76	7.94	36.00	STG
4.76	10.00	22.00	SQR
5.00	12.60	15.75	SQR
6.35	16.70	14.46	SQR
8.00	11.00	53.00	SQR
8.00	12.00	45.00	SQR
8.00	24.00	11.00	SQR
8.73	17.46	25.00	STG
9.50	24.76	15.00	STG
11.11	15.88	48.95	SQR
11.1	16.67	44.00	SQR
12.7	16.00	63.00	SQR
12.7	17.46	53.00	SQR
12.7	19.05	44.00	SQR45°
13.89	19.05	53.00	SQR
15.5	25.90	35.82	SQR
15.88	23.81	45.00	STG
15.88	23.81	44.00	SQR
19.0	25.00	58.00	STG
20.0	35.00	33.00	SQR
22.23	28.58	61.00	SQR
25.0	50.00	25.00	SQR
30.16	41.28	24.00	STG
32.0	42.00	58.00	STG
35.0	70.00	25.00	SQR
38.0	76.00	25.00	STG
50.0	60.00	69.00	SQR
50.0	69.00	53.00	SQR
50.00	75.00	46.00	SQR
60.00	80.00	44.00	SQR

Diamond Holes

Hole Size	Centres	%Open Area	Orientation
5.56	12.70	19.00	SQR
50.00	88.0	32.00	SQR

Square End Slots

Hole Size	%Open Area	Orientation
10.0 x 1.00	28.00	B
25.91 x 1.50	12.58	A
25.91 x 1.78	30.00	E
30.00 x 5.00	43.00	HERR
31.75 x 6.35	43.24	A
31.75 x 6.35	45.00	E
31.75 x 12.70	30.00	E
50.80 x7.94	23.01	A

Club & Round - Fancy

Hole Size	Centres	%Open Area	Orientation
10.16	15.24	36.00	SQR

Safe T Perf

Hole Size	Centres	%Open Area	Orientation
6.35	37.0	4.62	SQR
14.0	38.1	13.00	SQR
19.05	42.0	23.00	SQR

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Safe T Perf ®

Adaptable:

Safe-T-Perf® is available in various hole sizes and patterns, to suit the particular application and can be easily custom fabricated to particular sizes or requirements. Its light weight minimises the structural supports required, while still offering excellent load bearing characteristics. It can be confidently specified in heavy traffic areas.

Internal or external installations are equally well suited, and will only influence the choice of material and/or coating.

Safety:

The 360º design ensures Safe-T-Perf® offers a highly effective non slip surface, even if foot traffic continually changes direction. This surface is part of the core product, not an additional layer that may strip off. Drain holes are large enough to prevent liquid from pooling on the surface, yet small enough to protect areas below the walkway from any heavy or sharp objects falling through.

Safe T Perf 14:

Whilst the new and improved Universal 14 maintains its high quality, inherent strength and slip resistance, it now has larger drain holes specifically designed to minimise the opportunity of blinding during the post Hot Dip Galvanising process. The improved Universal 14 will continue to be held in stock in Steel, Hot Dip Galvanised Steel and Stainless Steel sheets and can also be custom manufactured in most material types to sizes of your choice in Sheet Form, Planks, Stair Treads and Z Treads.

Availability:

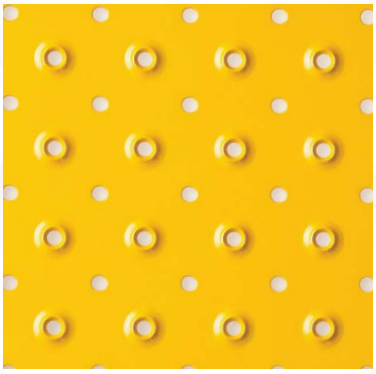
Safe-T-Perf® is an extremely versatile product, available in:

- Various hole sizes
  (Stiletto - 6, Universal – 14 & Stock Crate - 19)
- Various Materials (Mild Steel, Hot Dip Galvanised, 304 Stainless Steel, 316 Stainless Steel, Aluminium) and thicknesses (depending on the material chosen)
- Sheets, Stair Treads & Planks.
  NB: Stair Treads and Planks can be supplied with end gussets and fixing holes
- Stock Sizes and Custom Made

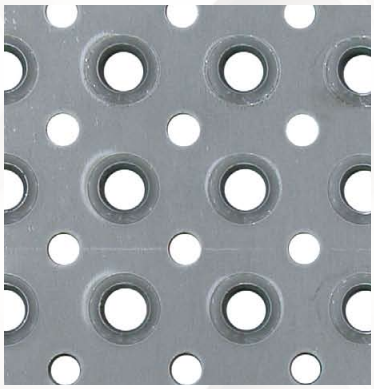
Safe-T-Perf® Z-Tread

Z-Tread is a unique product, custom made to your application. Z-Treads are pre-formed stair treads, including the going and riser, ready for installation. Z-Tread combines all of the benefits of Safe-T-Perf® with simple and fast installation. In addition, there are no gaps between stairs for objects to fall through.

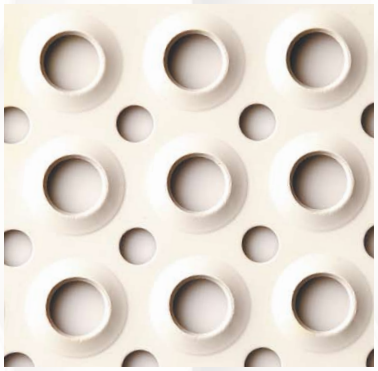
Z-Tread panels are custom made to suit the width, going and riser of the application.



STILETTO - 6



UNIVERSAL - 14



STOCK CRATE - 19

RAISED FLANGE HOLE DIA (mm)	DRAIN HOLE DIA (mm)	CENTRES (mm)	OPEN AREA %
STILETTO - 6			
6.35	6.35	37.0	4.62%
UNIVERSAL - 14			
14.0	10.0	38.1	16%
STOCK CRATE - 19			
19.05	12.70	42.0	23%

Safe-T-Perf® Plank Load vs Deflection (mm)

NOMINAL WIDTH = 305mm PLANK HEIGHT = 56mm
Material = 2.5mm Mild Steel

Uniformly Distributed Loading (kPa)	Plank Length/Span (mm) 500	750	1000	1500	2000	2500	3000
2.5	0.07	0.15	0.22	0.69	1.94	4.48	8.79
3.0	0.08	0.18	0.27	0.82	2.33	5.38	10.54
4.0	0.11	0.24	0.35	1.10	3.10	7.17	14.06
5.0	0.14	0.30	0.44	1.37	3.88	8.96	17.57
6.0	0.17	0.36	0.53	1.65	4.66	10.76	21.09
7.0	0.20	0.42	0.62	1.92	5.43	12.55	24.60
8.0	0.23	0.47	0.71	2.20	6.21	14.34	28.12
9.0	0.25	0.53	0.80	2.47	6.98	16.14	31.63
10.0	0.28	0.59	0.89	2.74	7.76	17.93	-
AS/NZS 4600:2005 UDL Design Pressure Capacity R_d (kPa)	235.6	114.3	88.5	40.8	21.5	13.8	8.9

Concentrated Loading (kN)	Plank Length/Span (mm) 500	750	1000	1500	2000	2500	3000
0.5	0.10	0.19	0.31	0.62	1.15	2.07	3.52
1.0	0.20	0.38	0.61	1.24	2.30	4.14	7.03
1.5	0.30	0.57	0.92	1.86	3.45	6.21	10.55
2.0	0.39	0.75	1.22	2.48	4.59	8.27	14.07
2.5	0.49	0.94	1.53	3.10	5.74	10.34	17.59
3.0	0.59	1.13	1.83	3.73	6.89	12.41	21.10
3.5	0.69	1.32	2.14	4.35	8.04	14.48	24.62
4.0	0.79	1.51	2.44	4.97	9.19	16.55	28.14
4.5	0.89	1.70	2.75	5.59	10.34	18.62	-
5.0	0.98	1.89	3.05	6.21	11.48	-	-
5.5	1.08	2.08	3.36	6.83	12.63	-	-
6.0	1.18	2.26	3.66	7.45	13.78	-	-
6.5	1.28	2.45	3.97	8.07	-	-	-
7.0	1.38	2.64	4.27	8.69	-	-	-
7.5	1.48	2.83	4.58	9.31	-	-	-
AS/NZS 4600:2005 Concentrated Design Load Capacity R_d (kN)	24.8	16.6	13.0	8.1	6.0	4.8	4.0
Deflection Limit/Span on 300	1.67	2.50	3.33	5.00	6.67	8.33	10.00

Safe-T-Perf®Stair Tread Load vs Deflection (mm)

WIDTH = 250mm TREAD DEPTH = 38mm
Material = 2.5mm Mild Steel

Uniformly Distributed Loading (kPa)	Tread Length/Span (mm) 610	1000
2.5	0.12	0.39
3.0	0.15	0.47
4.0	0.20	0.62
5.0	0.24	0.78
6.0	0.29	0.93
7.0	0.34	1.09
8.0	0.39	1.24
9.0	0.44	1.40
10.0	0.49	1.55
AS/NZS 4600:2005 UDL Design Pressure Capacity R_d (kPa)	66.7	46.3

Concentrated Loading (kN)	Tread Length/Span (mm) 610	1000
0.5	0.24	0.54
1.0	0.48	1.07
1.5	0.73	1.61
2.0	0.97	2.14
2.5	1.21	2.68
3.0	1.45	3.22
3.5	1.70	3.75
4.0	1.94	4.29
4.5	2.18	4.83
5.0	2.42	5.36
5.5	2.66	-
6.0	2.91	-
6.5	3.15	-
7.0	3.39	-
7.5	3.63	-
AS/NZS 4600:2005 Concentrated Design Load Capacity R_d (kN)	8.9	5.1
Deflection Limit/Span on 300	2.03	3.33

Flat Sheets

2.5mm Mild Steel Flanged hole 14.0mm dia
Deflection under 1kN concentrated load @ midspan

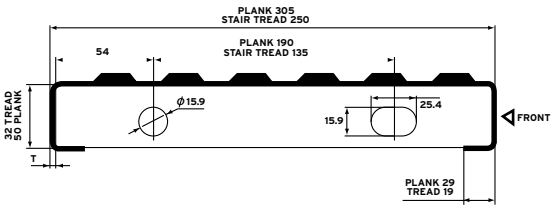
One-Way Spanning (Two Edges Supported)

Span (mm)	500	600	700	800	900
Deflection (mm)	4.01	4.72	5.74	7.41	8.31

Two-Way Spanning (Four Edges Supported)

	500 x 1000	600 x 1200	700 x 1400	800 x 1600	900 x 1800	1000 x 2000	1100 x 2200	1220 x 2440*
Span (mm)								
Deflection (mm)	4.63	4.71	4.95	6.64	8.26	7.54	9.23	13.81

* Stock Sizes



All testing was carried out in accordance with AS/NZS 4600:2005 COLD-FORMED STEEL STRUCTURES where three (3) repeat tests were conducted on each plank/loading/span configuration. Materials tested for the determination of the steels tensile properties were conducted in accordance with AS 1391-2007 METALLIC MATERIAL TENSILE TESTING AT AMBIENT TEMPERATURE. All tests conducted at a NATA accredited laboratory.

For results of the latest slip resistance tests, visit our website. Technical Data Sheet LIF-105 Walkway Slip Resistance.

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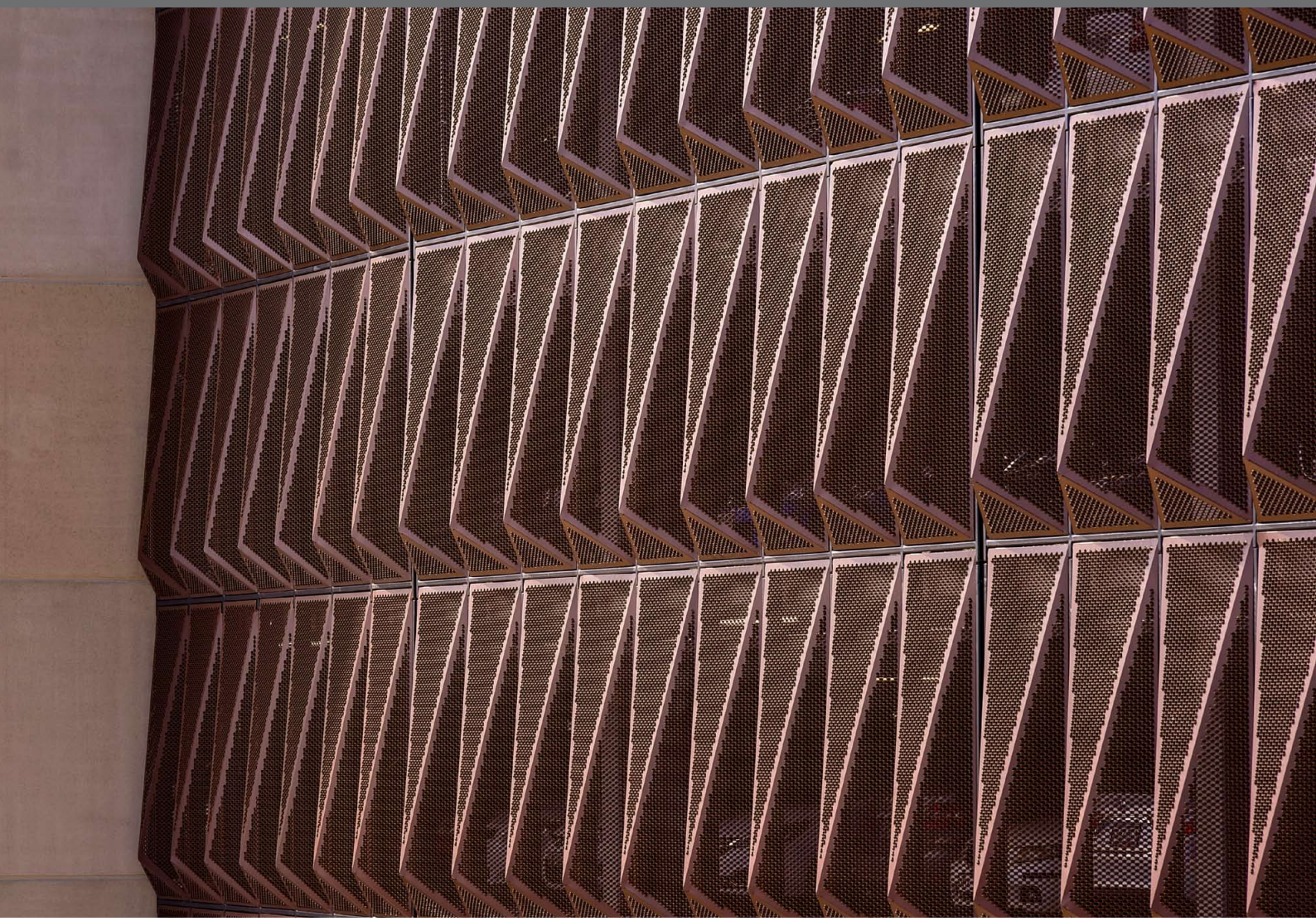
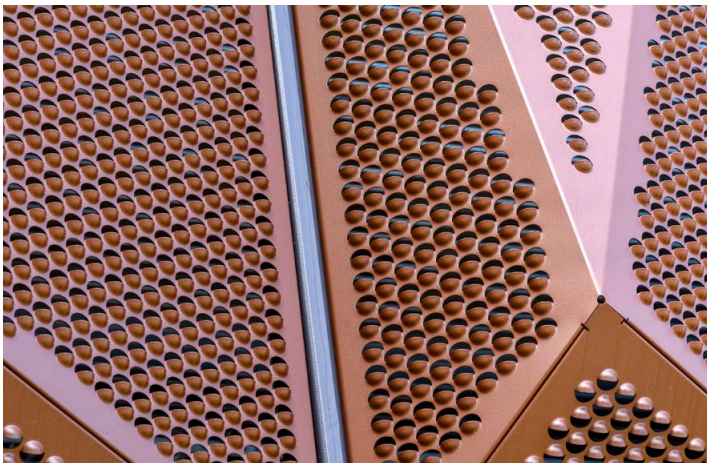


Flinders Medical Centre Car Park
Adelaide
Pic Perf Directions
Cheesman Architects



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LOC058 Locker reserves the right to make technical changes without notice. August 2019