

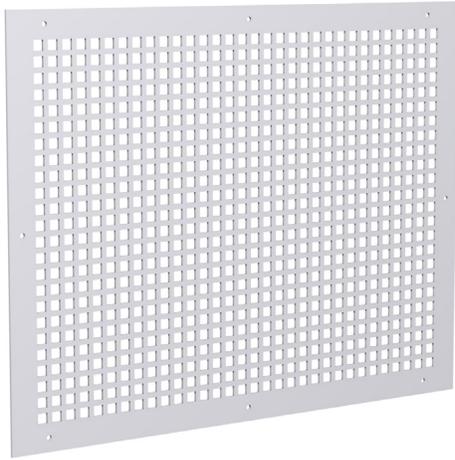
LG

LATTICE GRILLE

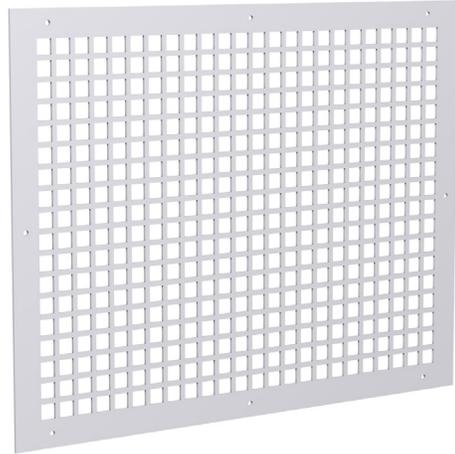


LG Lattice Grille

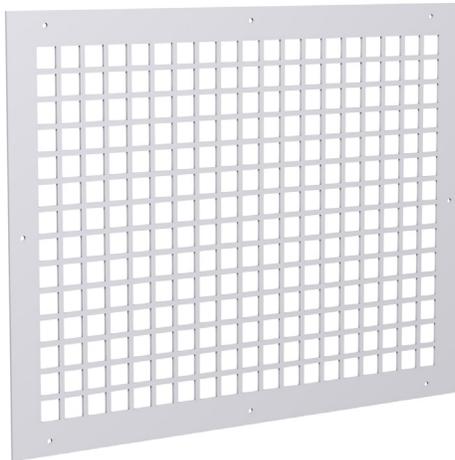
Lattice Grilles (LG) are available in a number of standard mesh patterns and can be fabricated in steel, stainless steel, or aluminum to suit the desired strength, corrosion and finish needs.



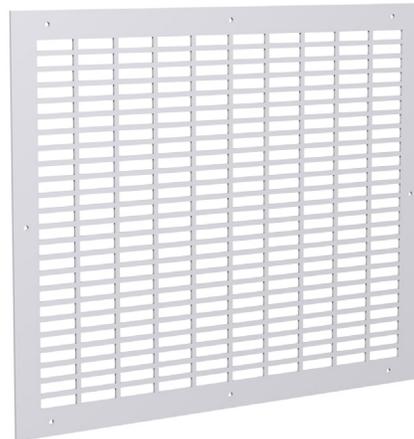
1/2 in. mesh



3/4 in. mesh



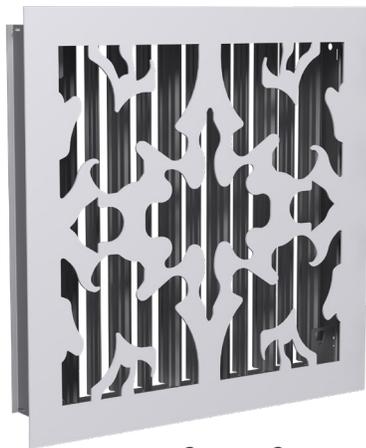
1 in. mesh



2 in. x 1/2 in. mesh

COMPLETELY CUSTOMIZABLE

- + Full customization of LG grilles provides the flexibility required to meet even the most demanding architectural requirements.
- + The LG can be manufactured to match complex, customer supplied designs, a feature that is well suited to spaces with unique architectural requirements where aesthetics are of the utmost importance.



Custom Core

TYPICAL APPLICATIONS

Lattice grilles are perfectly suited for retrofits, historical buildings, and applications where a thin profile is required. The thin design allows lattice grilles to cover other air distribution products to improve the aesthetic or minimize damage and tampering.

CONSTRUCTION

- + Core Style
 - ½ in. mesh (LG50)
 - ¾ in. mesh (LG75)
 - 1 in. mesh (LG100)
 - 2 in. x ½ in. rectangular mesh (LG250)
- + Material
 - Steel - 14 gauge
 - Aluminum - 14 gauge
 - Stainless steel - 20 gauge
- + Size
 - Minimum Nominal: 4 in. x 3in.
 - Maximum Nominal (one piece): 24 in. x 72 in.
 - Oversized construction available
- + Options
 - Integral damper
 - Heavy gauge construction
 - Custom core pattern



PERFORMANCE DATA

LG75 – 3/4 in. Square Mesh - Daylight Opening Schedule

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
1	3/4 in.	3/4 in.
2	13/4 in.	13/4 in.
3	2 3/4 in.	2 3/4 in.
4	3 3/4 in.	3 3/4 in.
5	4 3/4 in.	4 3/4 in.
6	5 3/4 in.	5 3/4 in.
7	6 3/4 in.	6 3/4 in.
8	7 3/4 in.	7 3/4 in.
9	8 3/4 in.	8 3/4 in.
10	9 3/4 in.	9 3/4 in.
11	10 3/4 in.	10 3/4 in.
12	11 3/4 in.	11 3/4 in.
13	12 3/4 in.	12 3/4 in.
14	13 3/4 in.	13 3/4 in.
15	14 3/4 in.	14 3/4 in.
16	15 3/4 in.	15 3/4 in.
17	16 3/4 in.	16 3/4 in.
18	17 3/4 in.	17 3/4 in.
19	18 3/4 in.	18 3/4 in.
20	19 3/4 in.	19 3/4 in.
21	20 3/4 in.	20 3/4 in.
22	21 3/4 in.	21 3/4 in.
23	22 3/4 in.	22 3/4 in.
24	23 3/4 in.	23 3/4 in.
25	24 3/4 in.	24 3/4 in.
26	25 3/4 in.	25 3/4 in.
27	26 3/4 in.	26 3/4 in.
28	27 3/4 in.	27 3/4 in.
29	28 3/4 in.	28 3/4 in.
30	29 3/4 in.	29 3/4 in.
31	30 3/4 in.	30 3/4 in.
32	31 3/4 in.	31 3/4 in.

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
33	32 3/4 in.	32 3/4 in.
34	33 3/4 in.	33 3/4 in.
35	34 3/4 in.	34 3/4 in.
36	35 3/4 in.	35 3/4 in.
37	36 3/4 in.	36 3/4 in.
38	37 3/4 in.	37 3/4 in.
39	38 3/4 in.	38 3/4 in.
40	39 3/4 in.	39 3/4 in.
41	40 3/4 in.	40 3/4 in.
42	41 3/4 in.	41 3/4 in.
43	42 3/4 in.	42 3/4 in.
44	43 3/4 in.	43 3/4 in.
45	44 3/4 in.	44 3/4 in.
46	45 3/4 in.	45 3/4 in.
47	46 3/4 in.	46 3/4 in.
48	47 3/4 in.	47 3/4 in.
49	48 3/4 in.	48 3/4 in.
50	49 3/4 in.	49 3/4 in.
51	50 3/4 in.	50 3/4 in.
52	51 3/4 in.	51 3/4 in.
53	52 3/4 in.	52 3/4 in.
54	53 3/4 in.	53 3/4 in.
55	54 3/4 in.	54 3/4 in.
56	55 3/4 in.	55 3/4 in.
57	56 3/4 in.	56 3/4 in.
58	57 3/4 in.	57 3/4 in.
59	58 3/4 in.	58 3/4 in.
60	59 3/4 in.	59 3/4 in.
61	60 3/4 in.	60 3/4 in.
62	61 3/4 in.	61 3/4 in.
63	62 3/4 in.	62 3/4 in.
64	63 3/4 in.	63 3/4 in.

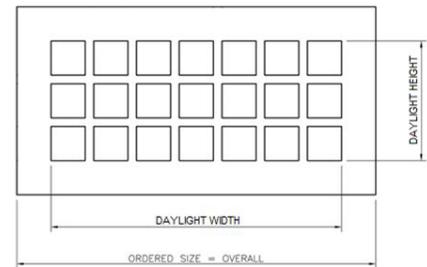
Hole quantity per row/column	Daylight width (in)	Daylight height (in)
65	64 3/4 in.	64 3/4 in.
66	65 3/4 in.	65 3/4 in.
67	66 3/4 in.	66 3/4 in.
68	67 3/4 in.	67 3/4 in.
69	68 3/4 in.	68 3/4 in.
70	69 3/4 in.	69 3/4 in.
71	70 3/4 in.	70 3/4 in.
72	71 3/4 in.	71 3/4 in.
73	72 3/4 in.	72 3/4 in.
74	73 3/4 in.	73 3/4 in.
75	74 3/4 in.	74 3/4 in.
76	75 3/4 in.	75 3/4 in.
77	76 3/4 in.	76 3/4 in.
78	77 3/4 in.	77 3/4 in.
79	78 3/4 in.	78 3/4 in.
80	79 3/4 in.	79 3/4 in.
81	80 3/4 in.	80 3/4 in.
82	81 3/4 in.	81 3/4 in.
83	82 3/4 in.	82 3/4 in.
84	83 3/4 in.	83 3/4 in.
85	84 3/4 in.	84 3/4 in.
86	85 3/4 in.	85 3/4 in.
87	86 3/4 in.	86 3/4 in.
88	87 3/4 in.	87 3/4 in.
89	88 3/4 in.	88 3/4 in.
90	89 3/4 in.	89 3/4 in.
91	90 3/4 in.	90 3/4 in.
92	91 3/4 in.	91 3/4 in.
93	92 3/4 in.	92 3/4 in.
94	93 3/4 in.	93 3/4 in.

LG250 – 2 x 1/2 in. Rectangular Mesh - Daylight Opening Schedule

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
1	2 in.	1/2 in.
2	4 1/4 in.	1 1/4 in.
3	6 1/2 in.	2 in.
4	8 3/4 in.	2 3/4 in.
5	11 in.	3 1/2 in.
6	13 1/4 in.	4 1/4 in.
7	15 1/2 in.	5 in.
8	17 3/4 in.	5 3/4 in.
9	20 in.	6 1/2 in.
10	22 1/4 in.	7 1/4 in.
11	24 1/2 in.	8 in.
12	26 3/4 in.	8 3/4 in.
13	29 in.	9 1/2 in.
14	31 1/4 in.	10 1/4 in.
15	33 1/2 in.	11 in.
16	35 3/4 in.	11 3/4 in.
17	38 in.	12 1/2 in.
18	40 1/4 in.	13 1/4 in.

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
19	42 1/2 in.	14 in.
20	44 3/4 in.	14 3/4 in.
21	47 in.	15 1/2 in.
22	49 1/4 in.	16 1/4 in.
23	51 1/2 in.	17 in.
24	53 3/4 in.	17 3/4 in.
25	56 in.	18 1/2 in.
26	58 1/4 in.	19 1/4 in.
27	60 1/2 in.	20 in.
28	62 3/4 in.	20 3/4 in.
29	65 in.	21 1/2 in.
30	67 1/4 in.	22 1/4 in.
31	69 1/2 in.	-
32	71 3/4 in.	-
33	74 in.	-
34	76 1/4 in.	-
35	78 1/2 in.	-
36	80 3/4 in.	-

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
37	83 in.	-
38	85 1/4 in.	-
39	87 1/2 in.	-
40	89 3/4 in.	-
41	92 in.	-



NOTES:

Daylight height is the lattice opening in the vertical direction.
Daylight width is the lattice opening in the horizontal direction.

PERFORMANCE DATA

LG100 – 1 in. square mesh - Daylight Opening Schedule

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
1	1 in.	1 in.
2	2 1/4 in.	2 1/4 in.
3	3 1/2 in.	3 1/2 in.
4	4 3/4 in.	4 3/4 in.
5	6 in.	6 in.
6	7 1/4 in.	7 1/4 in.
7	8 1/2 in.	8 1/2 in.
8	9 3/4 in.	9 3/4 in.
9	11 in.	11 in.
10	12 1/4 in.	12 1/4 in.
11	13 1/2 in.	13 1/2 in.
12	14 3/4 in.	14 3/4 in.
13	16 in.	16 in.
14	17 1/4 in.	17 1/4 in.
15	18 1/2 in.	18 1/2 in.
16	19 3/4 in.	19 3/4 in.
17	21 in.	21 in.
18	22 1/4 in.	22 1/4 in.
19	23 1/2 in.	23 1/2 in.
20	24 3/4 in.	24 3/4 in.
21	26 in.	26 in.
22	27 1/4 in.	27 1/4 in.
23	28 1/2 in.	28 1/2 in.
24	29 3/4 in.	29 3/4 in.

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
25	31 in.	31 in.
26	32 1/4 in.	32 1/4 in.
27	33 1/2 in.	33 1/2 in.
28	34 3/4 in.	34 3/4 in.
29	36 in.	36 in.
30	37 1/4 in.	37 1/4 in.
31	38 1/2 in.	38 1/2 in.
32	39 3/4 in.	39 3/4 in.
33	41 in.	41 in.
34	42 1/4 in.	42 1/4 in.
35	43 1/2 in.	43 1/2 in.
36	44 3/4 in.	44 3/4 in.
37	46 in.	46 in.
38	47 1/4 in.	47 1/4 in.
39	48 1/2 in.	48 1/2 in.
40	49 3/4 in.	49 3/4 in.
41	51 in.	51 in.
42	52 1/4 in.	52 1/4 in.
43	53 1/2 in.	53 1/2 in.
44	54 3/4 in.	54 3/4 in.
45	56 in.	56 in.
46	57 1/4 in.	57 1/4 in.
47	58 1/2 in.	58 1/2 in.
48	59 3/4 in.	59 3/4 in.
49	61 in.	61 in.
50	62 1/4 in.	62 1/4 in.

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
51	63 1/2 in.	63 1/2 in.
52	64 3/4 in.	64 3/4 in.
53	66 in.	66 in.
54	67 1/4 in.	67 1/4 in.
55	68 1/2 in.	68 1/2 in.
56	69 3/4 in.	69 3/4 in.
57	71 in.	71 in.
58	72 1/4 in.	72 1/4 in.
59	73 1/2 in.	73 1/2 in.
60	74 3/4 in.	74 3/4 in.
61	76 in.	76 in.
62	77 1/4 in.	77 1/4 in.
63	78 1/2 in.	78 1/2 in.
64	79 3/4 in.	79 3/4 in.
65	81 in.	81 in.
66	82 1/4 in.	82 1/4 in.
67	83 1/2 in.	83 1/2 in.
68	84 3/4 in.	84 3/4 in.
69	86 in.	86 in.
70	87 1/4 in.	87 1/4 in.
71	88 1/2 in.	88 1/2 in.
72	89 3/4 in.	89 3/4 in.
73	91 in.	91 in.
74	92 1/4 in.	92 1/4 in.
75	93 1/2 in.	93 1/2 in.

LG50 – 1/2 in. square mesh - Daylight Opening Schedule

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
1	1/2 in.	1/2 in.
2	1 1/4 in.	1 1/4 in.
3	2 in.	2 in.
4	2 3/4 in.	2 3/4 in.
5	3 1/2 in.	3 1/2 in.
6	4 1/4 in.	4 1/4 in.
7	5 in.	5 in.
8	5 3/4 in.	5 3/4 in.
9	6 1/2 in.	6 1/2 in.
10	7 1/4 in.	7 1/4 in.
11	8 in.	8 in.
12	8 3/4 in.	8 3/4 in.
13	9 1/2 in.	9 1/2 in.
14	10 1/4 in.	10 1/4 in.
15	11 in.	11 in.
16	11 3/4 in.	11 3/4 in.
17	12 1/2 in.	12 1/2 in.
18	13 1/4 in.	13 1/4 in.
19	14 in.	14 in.
20	14 3/4 in.	14 3/4 in.
21	15 1/2 in.	15 1/2 in.
22	16 1/4 in.	16 1/4 in.
23	17 in.	17 in.
24	17 3/4 in.	17 3/4 in.
25	18 1/2 in.	18 1/2 in.
26	19 1/4 in.	19 1/4 in.
27	20 in.	20 in.
28	20 3/4 in.	20 3/4 in.
29	21 1/2 in.	21 1/2 in.
30	22 1/4 in.	22 1/4 in.

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
31	23 in.	23 in.
32	23 3/4 in.	23 3/4 in.
33	24 1/2 in.	24 1/2 in.
34	25 1/4 in.	25 1/4 in.
35	26 in.	26 in.
36	26 3/4 in.	26 3/4 in.
37	27 1/2 in.	27 1/2 in.
38	28 1/4 in.	28 1/4 in.
39	29 in.	29 in.
40	29 3/4 in.	29 3/4 in.
41	30 1/2 in.	30 1/2 in.
42	31 1/4 in.	31 1/4 in.
43	32 in.	32 in.
44	32 3/4 in.	32 3/4 in.
45	33 1/2 in.	33 1/2 in.
46	34 1/4 in.	34 1/4 in.
47	35 in.	35 in.
48	35 3/4 in.	35 3/4 in.
49	36 1/2 in.	36 1/2 in.
50	37 1/2 in.	37 1/2 in.
51	38 in.	38 in.
52	38 3/4 in.	38 3/4 in.
53	39 1/2 in.	39 1/2 in.
54	40 1/4 in.	40 1/4 in.
55	41 in.	41 in.
56	41 3/4 in.	41 3/4 in.
57	42 1/2 in.	42 1/2 in.
58	43 1/4 in.	43 1/4 in.
59	44 in.	44 in.
60	44 3/4 in.	44 3/4 in.

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
61	45 1/2 in.	45 1/2 in.
62	46 1/4 in.	46 1/4 in.
63	47 in.	47 in.
64	47 3/4 in.	47 3/4 in.
65	48 1/2 in.	48 1/2 in.
66	49 1/4 in.	49 1/4 in.
67	50 in.	50 in.
68	50 1/4 in.	50 1/4 in.
69	51 1/2 in.	51 1/2 in.
70	52 1/4 in.	52 1/4 in.
71	53 in.	53 in.
72	53 3/4 in.	53 3/4 in.
73	54 1/2 in.	54 1/2 in.
74	55 1/4 in.	55 1/4 in.
75	56 in.	56 in.
76	56 3/4 in.	56 3/4 in.
77	57 1/2 in.	57 1/2 in.
78	58 1/4 in.	58 1/4 in.
79	59 in.	59 in.
80	59 3/4 in.	59 3/4 in.
81	60 1/2 in.	60 1/2 in.
82	61 1/4 in.	61 1/4 in.
83	62 in.	62 in.
84	62 3/4 in.	62 3/4 in.
85	63 1/2 in.	63 1/2 in.
86	64 1/4 in.	64 1/4 in.
87	65 in.	65 in.
88	65 3/4 in.	65 3/4 in.
89	66 1/2 in.	66 1/2 in.
90	67 1/4 in.	67 1/4 in.

Hole quantity per row/column	Daylight width (in)	Daylight height (in)
91	68 in.	68 in.
92	68 3/4 in.	68 3/4 in.
93	69 1/2 in.	69 1/2 in.
94	70 1/4 in.	70 1/4 in.
95	71 in.	71 in.
96	71 3/4 in.	71 3/4 in.
97	72 1/2 in.	72 1/2 in.
98	73 3/4 in.	73 3/4 in.
99	74 in.	74 in.
100	74 3/4 in.	74 3/4 in.
101	75 1/2 in.	75 1/2 in.
102	76 1/4 in.	76 1/4 in.
103	77 in.	77 in.
104	77 3/4 in.	77 3/4 in.
105	78 1/2 in.	78 1/2 in.
106	79 1/4 in.	79 1/4 in.
107	80 in.	80 in.
108	80 3/4 in.	80 3/4 in.
109	81 1/2 in.	81 1/2 in.
110	82 1/4 in.	82 1/4 in.
111	83 in.	83 in.
112	83 3/4 in.	83 3/4 in.
113	84 1/2 in.	84 1/2 in.
114	85 1/4 in.	85 1/4 in.
115	86 in.	86 in.
116	86 3/4 in.	86 3/4 in.
117	87 1/2 in.	87 1/2 in.
118	88 1/4 in.	88 1/4 in.
119	89 in.	89 in.
120	89 3/4 in.	89 3/4 in.

PERFORMANCE DATA

Sound

$$NC = 14 \text{ LOG } A + 84 \text{ LOG } V - 218$$

$$A = \text{Free Area, ft}^2$$

$$V = \frac{\text{Air Flow, cfm}}{\text{Free Area, ft}^2}$$

NC based on 10dB room absorption.

Negative Static Pressure

$$S.P. = 1.36 \left(\frac{V}{4005} \right)^2$$

$$V = \frac{\text{Air Flow, cfm}}{\text{Free Area, ft}^2}$$

S.P. = Static Pressure Drop, in. w.g.

Free Area

$$F.A. = \text{No. of Holes} \times \begin{matrix} .0017 \text{ (LG50)} \\ .0039 \text{ (LG75)} \\ .0069 \text{ (LG100)} \\ .0069 \text{ (LG250)} \end{matrix}$$

Number of holes are determined from Daylight Opening Schedules

Example

Determine performance of an LG100 grille with a daylight opening of 6 in. x 16 in. at 400 cfm.

$$\text{No. of Holes: } 6 \text{ in.} = 5$$

$$16 \text{ in.} = 13$$

$$5 \times 13 = 65$$

$$F.A. = 65 \times .0069 = .449 \text{ ft}^2$$

$$V = 400 / .449 = 891 \text{ fpm}$$

$$S.P. = 1.36 \left(\frac{891}{4005} \right)^2 = .067 \text{ in. w.g.}$$

$$NC = 14 \text{ LOG } (.449) + 84 \text{ LOG } (891) - 218 = 25$$



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