HEAVY DUTY STAINLESS STEEL

This grille is used mainly for return air applications that require strength and durability in corrosive or high humidity environments. The frame is welded and the blades are spaced on 1/2" (13) centers and reinforced with a mullion on 8" (203) centers.

Stainless Steel – Models 6755H-HD, 6755V-HD **Page F159**
Suffix '-O' adds a stainless steel OBD

Model 6755H-HD

Models 45DL1, 45DL2

DRUM LOUVERS

These extruded aluminum drum louvers are appropriate when high volumes of air are used and in spot heating and cooling applications. A split-vane style and a pole operating bracket are available.

Models 45DLC1, 45DLC2 **Page F168**
Suffix '-DEX' adds a damper/extractor (air scoop)
Models 45DL1, 45DL2 **Page F170**
Suffix '-O' adds a steel OBD

INDUSTRIAL SUPPLY

The industrial supply grilles and registers have contoured airfoil blades that are extruded aluminum and are available with either 1 1/2" (38) or 3" (76) blade spacing. The heavy gauge, 1 1/4" (32) frame includes reinforced and staked mitered corners.

- **Double Deflection**

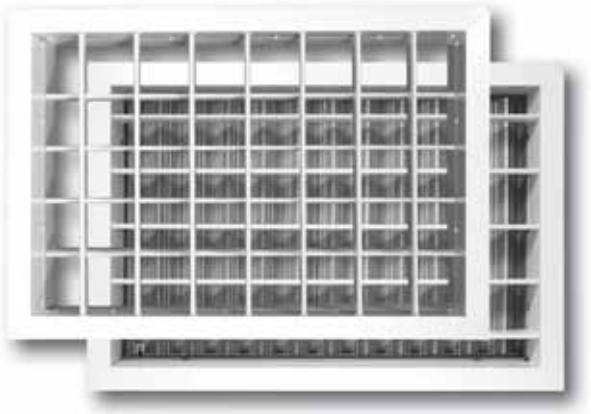
1 1/2" (38) Blade Spacing – Models 81DV, 81DH **Page F177**
3" (76) Blade Spacing – Models 813DV, 813DH **Page F177**
Suffix '-O' adds a steel OBD

- **Single Deflection**

1 1/2" (38) Blade Spacing – Models 81SV, 81SH **Page F177**
3" (76) Blade Spacing – Models 813SV, 813SH **Page F177**
Suffix '-O' adds a steel OBD

- **Gang Operated – Models 81GDV, 81GDH** **Page F177**

Suffix '-O' adds a steel OBD



Models 813SH-O, 813DV

Model 81MG3

MODULAR CORE - INDUSTRIAL SUPPLY

Nailor has incorporated the features of the 8100 Series (double deflection) industrial supply grilles with an aluminum modular frame, which allows for extra directional flow flexibility. Up to four modules are available in specific sizes from 8" x 8" to 15" x 15" (203 x 203 to 381 x 381).

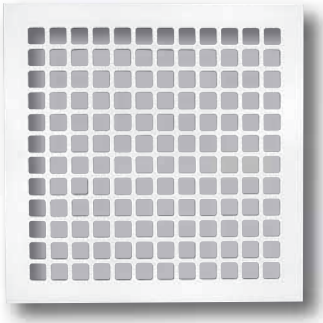
Models 81MG1, 81MG2, 81MG3, 81MG4 **Page F184**

Suffix '-O' adds a steel OBD

LATTICE FACE

Lattice face grilles are available in heavy gauge aluminum, steel and stainless steel construction with a selection of hole patterns to choose from. Countersunk screw holes and mounting screws are optional.

Aluminum – Model 51LG **Page F189**
Steel – Model 61LG **Page F189**
Stainless Steel – Model 67LG **Page F189**



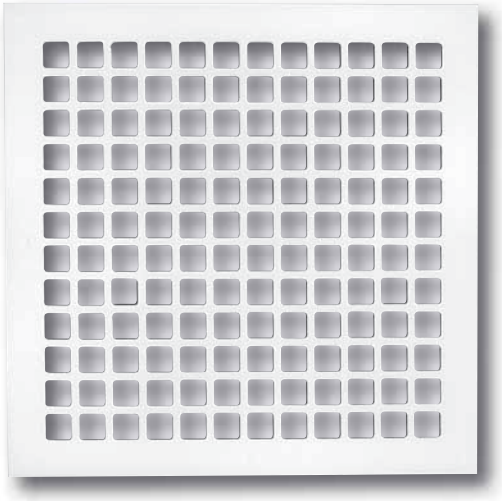
Model 61LG75

LATTICE FACE GRILLES

- VARIOUS CONFIGURATIONS AVAILABLE
- ALUMINUM, STEEL OR STAINLESS STEEL

Models:

51LG Aluminum
61LG Steel
67LG Stainless Steel



Model 61LG75

The Nailor Model Series 51LG, 61LG and 67LG Lattice Face Grilles are available for return air, architectural and minimum security applications. The standard Model 61LG75 features 3/4" (19) square holes on 1" (25) centers in 14 gauge steel construction.

STANDARD FEATURES:

- Many choices of lattice design to suit any application (see table below).
- Available in sizes from 6" x 4" to 48" x 48" (152 x 102 to 1219 x 1219).

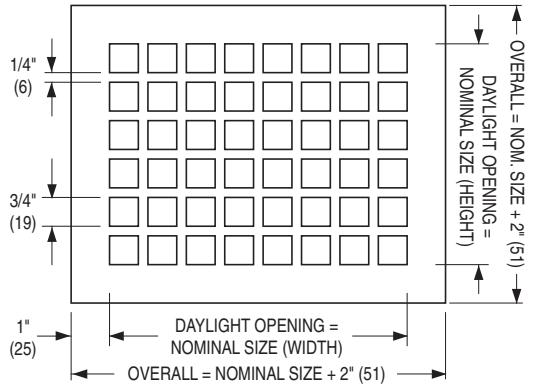
CONSTRUCTION MATERIAL:

- Model Series 61LG standard 14 gauge steel construction. Optional 10 or 12 gauge steel construction is available.
- Model Series 51LG standard 12 gauge aluminum construction.
- Model Series 67LG standard 14 gauge 304 stainless steel construction.
- Optional countersunk screw holes and mounting screws are available.
- Optional opposed blade damper has a screwdriver slot operator.

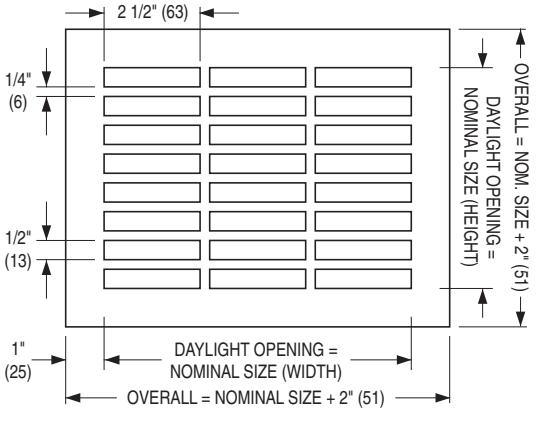
FINISH OPTIONS:

- AW Appliance White finish is standard on steel and aluminum models. Stainless steel models have #4 Brushed Satin Polished finish as standard. Other finishes are available.

Model 61LG75 (standard model)



Model 61LG25 (optional model)



Lattice Configurations and Free Area:

Model No. Suffix e.g. 61LG _ _	Hole Pattern	Average Free Area
75	3/4" (19) square holes on 1" (25) centers	60%
50	1/2" (13) square holes on 3/4" (19) centers	50%
13	13/16" (21) square holes on 1" (25) centers	70%
10	1" (25) square holes on 1 1/4" (32) centers	68%
25	2 1/2" x 1/2" (64 x 13) rectangular holes on 2 3/4" x 3/4" (70 x 19) centers	65%

Suffix 75 is standard.

SIZING SCHEDULE AND PERFORMANCE DATA:
MODEL SERIES: 51LG, 61LG AND 67LG • LATTICE FACE GRILLES

No. of Holes	LG75 3/4" Square		LG50 1/2" Square		LG13 13/16" Square		LG10 1" Square		No. of Holes	LG25 2 1/2" x 1/2"			
										Width		Height	
	in.	mm	in.	mm	in.	mm	in.	mm		in.	mm	in.	mm
6	5 3/4	146	4 1/4	108	5 13/16	148	7 1/4	184	3	6 1/2	165	2	51
8	7 3/4	197	5 3/4	146	7 13/16	198	9 3/4	248	4	8 3/4	222	2 3/4	70
10	9 3/4	248	7 1/4	184	8 13/16	249	12 1/4	311	5	11	279	3 1/2	89
12	11 3/4	298	8 3/4	222	11 13/16	300	14 3/4	375	6	13 1/4	337	4 1/4	18
14	13 3/4	349	10 1/4	260	13 13/16	335	17 1/4	438	7	15 1/2	394	5	127
16	15 3/4	400	11 3/4	298	15 13/16	402	19 3/4	502	8	17 3/4	451	5 3/4	146
18	17 3/4	451	13 1/4	337	17 13/16	452	22 1/4	565	9	20	508	6 1/2	165
20	19 3/4	502	14 3/4	375	19 13/16	503	24 3/4	629	10	22 1/4	565	7 1/4	184
22	21 3/4	552	16 1/4	413	21 13/16	554	27 1/4	692	11	24 1/2	622	8	203
24	23 3/4	603	17 3/4	451	23 13/16	605	29 3/4	756	12	26 3/4	679	8 3/4	222
26	25 3/4	654	19 1/4	489	25 13/16	656	32 1/4	819	13	29	737	9 1/2	241
28	27 3/4	705	20 3/4	527	27 13/16	706	34 3/4	883	14	31 1/4	794	10 1/4	260
30	29 3/4	756	22 1/4	565	29 13/16	757	37 1/4	946	15	33 1/2	851	11	279
32	31 3/4	806	23 3/4	603	31 13/16	808	39 3/4	1010	16	35 3/4	908	11 3/4	298
34	33 3/4	857	25 1/4	641	33 13/16	859	42 1/4	1073	17	38	965	12 1/2	317
36	35 3/4	908	26 3/4	679	35 13/16	910	44 3/4	1137	18	40 1/4	1022	13 1/4	336
38	37 3/4	959	28 1/4	718	37 13/16	960	47 1/4	1200	19	42 1/2	1079	14	356
40	39 3/4	1010	29 3/4	756	39 13/16	1011	–	–	20	44 3/4	1136	14 3/4	375
42	41 3/4	1060	31 1/4	794	41 13/16	1062	–	–	21	47	1194	15 1/2	394
44	43 3/4	1111	32 3/4	832	43 13/16	1113	–	–	–	–	–	–	–
46	45 3/4	1162	34 1/4	870	45 13/16	1164	–	–	–	–	–	–	–
48	47 3/4	1213	35 3/4	908	47 13/16	1214	–	–	–	–	–	–	–
50	–	–	37 1/4	946	–	–	–	–	–	–	–	–	–
52	–	–	38 3/4	984	–	–	–	–	–	–	–	–	–
54	–	–	40 1/4	1022	–	–	–	–	–	–	–	–	–
56	–	–	41 3/4	1060	–	–	–	–	–	–	–	–	–
58	–	–	43 1/4	1099	–	–	–	–	–	–	–	–	–
60	–	–	44 3/4	1137	–	–	–	–	–	–	–	–	–
62	–	–	46 1/4	1175	–	–	–	–	–	–	–	–	–
64	–	–	47 3/4	1213	–	–	–	–	–	–	–	–	–

PRESSURE LOSS THROUGH LATTICE GRILLE

Model (Free Area)	Core Velocity VP	300 .006	400 .010	500 .016	600 .022	700 .031	800 .040	900 .051	1000 .062	1200 .090	1400 .122
LG75 (60%)	**Neg. SP**	.019	.034	.053	.077	.105	.137	.173	.213	.307	.418
LG50 (50%)		.032	.057	.089	.128	.174	.228	.288	.356	.512	.697
LG13 (70%)		.011	.020	.031	.044	.060	.078	.099	.122	.176	.240
LG10 (68%)		.012	.022	.034	.050	.068	.089	.112	.138	.198	.270
LG25 (65%)		.015	.027	.042	.061	.083	.108	.137	.167	.243	.331

Performance Notes:

1. All pressures are in inches w.g..
2. Core Velocity is in feet per minute.
3. Core represents daylight opening dimensions.