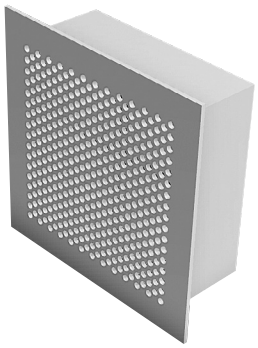
METALAIRE™

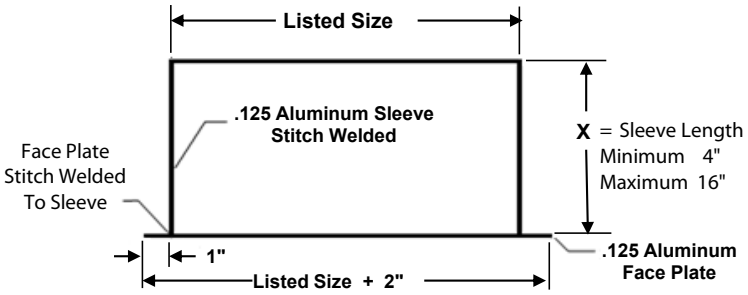
MODEL SGRP-AL

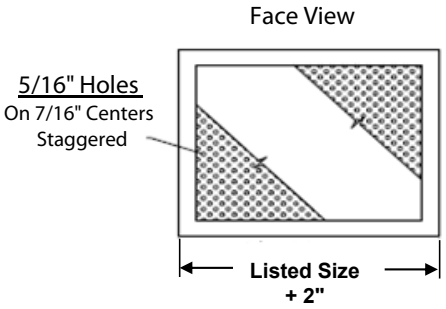
The SGRP-AL minimum security grille is designed to create a barrier to the ductwork behind the grille. The SGRP-AL is constructed with an aluminum face plate welded to an aluminum sleeve.

- 1/8" aluminum face plate
- 5/16" holes on 7/16" center
- Optional continuously welded seams

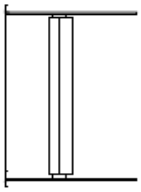


Model SGRP-AL Minimum Security Aluminum Grille Perforated Face

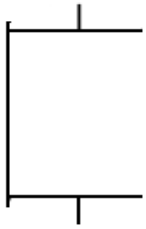




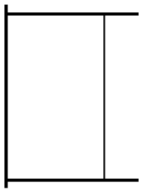
☐ OBDA
Aluminum
Opposed Blade Damper
Rear Operated



☐ AAB
Aluminum Anchor Bars
1/2" Diameter
3" Long For
Concrete , Block or Brick Walls

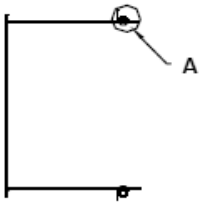


☐ SBR-AL
Aluminum Security Bars
1/2" Diameter Bars
Welded In Sleeve
6" On Center Max
Horizontal & Vertical

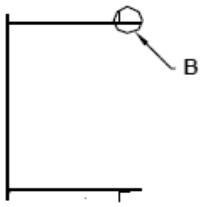


☐ LALA
Loose Aluminum Angle
LALA-2S 2 Angles Short Dimension
LALA-2L 2 Angles Long Dimension
LALA-4 4 Angles
1" X 1" X 3/16" Angle
With Mounting Holes

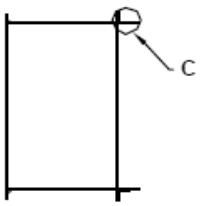
☐ BALA
Bolted Aluminum Angles
BSA-2S 2 Angles Short Dimension
BSA-2L 2 Angles Long Dimension
BSA-4 4 Angles
1" X 1" X 3/16" Angles
Shipped Bolted To Sleeve

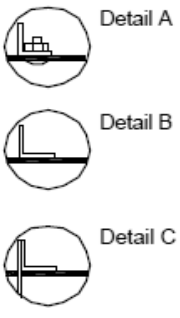


☐ WALA
Welded Aluminum Angles
WSA-2S 2 Angles Short Dimension
WSA-2L 2 Angles Long Dimension
WSA-4 4 Angles
1" X 1" X 3/16" Angle
Shipped Welded To Sleeve



☐ WAF-AL
Welded Aluminum Angle Frame
1" X 1" X 3/16" Angle
Shipped Loose
Field Installed





SERIES SGRP-AL SPECIFICATIONS

MINIMUM SECURITY 5/16" HOLES — ALUMINUM — SGRP-AL

- Air outlets shall be model SGRPAL manufactured by METALAIRE. Units shall be minimum security supply grilles of 1/8" plate aluminum construction. Units shall have a perforated face plate backed by a stitch-welded aluminum sleeve. Face plate shall have 5/16" perforations on 7/16" staggered centers. The sleeve shall be 1/8" aluminum with stitch-welded seams. Units shall have a 1" border.
- The units shall be the size and quantity as outlined in the plans and specifications.
- Optional opposed blade damper shall be constructed of aluminum (Model OBDA).
- Rear operation of the damper is recommended.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ ASHRAE Standard 70-2006.

Paint Specification

Process shall be anodic electro-deposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

METALAIRE™

SGRP-AL MODEL NUMBER SPECIFICATION

MINIMUM SECURITY — 5/16" PERFORATED FACE
WITH 7/16" STAGGERED CENTERS

Model	Neck																Sleeve
SGRP-AL		6	8	9	10	12	14	15	16	18	20	21	22	24	26	28	30	
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4 - 16
8		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10				X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12					X	X	X	X	X	X	X	X	X	X	X	X	X	
14						X	X	X	X	X	X	X	X	X	X	X	X	
15							X	X	X	X	X	X	X	X	X	X	X	
16								X	X	X	X	X	X	X	X	X	X	
18									X	X	X	X	X	X	X	X	X	
20										X	X	X	X	X	X	X	X	
21											X	X	X	X	X	X	X	
22												X	X	X	X	X	X	
24													X	X	X	X	X	
26														X	X	X	X	
28																X	X	
30																	X	

Available Finishes		Available Accessories - Aluminum	
Steel - Standard		OBDA	Opposed Blade Damper
01	White	AAB	Anchor Bars
Steel - Optional		SBR-AL	Security Bars
02	Satin Silver	LALA	Loose Angle
03	Black	BALA	Bolted Angle
28	Custom Color	WALA	Welded Angle
		WAF-AL	Welded Angle Frame

SERIES SGRP-AL PERFORMANCE DATA

MODEL SGRP-AL

Size (in)	NK Vel	100	150	200	250	300	350	400	450	500	600	700
Neck Area ft²	Ps	.002	.004	.008	.012	.018	.024	.032	.040	.049	.071	.096
06x06	CFM	25	38	50	63	75	88	100	113	125	150	175
	Throws	1-5	2-7	3-10	4-12	5-13	6-15	6-16	7-17	8-17	10-19	11-21
.250	NC	-	-	-	-	11	15	19	23	26	31	36
08x06	CFM	34	50	67	84	100	117	134	150	167	200	234
	Throws	1-5	2-8	4-11	5-14	6-16	6-17	7-18	8-19	9-20	11-22	13-24
.333	NC	-	-	-	-	12	16	20	24	27	33	37
08x08	CFM	45	67	89	111	134	156	178	200	222	267	311
	Throws	1-6	3-9	4-13	5-16	6-18	7-19	8-21	10-22	11-23	13-25	15-27
.444	NC	-	-	-	-	13	18	22	25	26	34	38
09x06	CFM	38	57	75	94	113	132	150	169	188	225	263
	Throws	1-6	3-9	4-12	5-15	6-17	7-18	8-19	9-20	10-21	12-23	14-25
.375	NC	-	-	-	-	12	17	21	25	28	33	38
09x09	CFM	57	85	113	141	169	198	226	254	282	338	395
	Throws	1-7	3-11	5-14	6-18	7-20	8-22	10-23	11-25	12-26	14-29	17-31
.563	NC	-	-	-	-	14	19	23	26	29	35	39
10x06	CFM	42	63	84	105	126	146	167	188	209	251	292
	Throws	1-6	3-9	4-12	5-15	6-17	7-19	8-20	9-21	10-22	12-25	14-27
.417	NC	-	-	-	-	13	18	21	25	28	34	38
10x08	CFM	56	84	112	139	167	195	223	251	278	334	390
	Throws	1-7	3-11	5-14	6-18	7-20	8-22	9-23	11-25	12-26	14-28	17-31
.556	NC	-	-	-	-	14	19	23	26	29	35	39
10x10	CFM	70	105	139	174	209	243	278	313	347	417	486
	Throws	1-8	3-12	5-16	7-20	8-22	9-24	11-26	12-27	13-29	16-32	19-34
.694	NC	-	-	-	-	15	20	24	27	30	36	40
12x06	CFM	50	75	100	125	150	175	200	225	250	300	350
	Throws	1-7	3-10	5-14	6-17	7-19	8-21	9-22	10-21	11-25	14-27	16-29
.500	NC	-	-	-	-	14	18	22	26	29	34	39
12x08	CFM	67	101	134	167	201	234	267	301	334	401	467
	Throws	1-8	3-12	5-16	7-20	8-22	9-24	10-25	12-27	13-28	16-31	18-34
.667	NC	-	-	-	-	15	20	23	27	30	36	40
12x10	CFM	84	125	167	209	250	292	334	375	417	500	584
	Throws	2-9	4-13	6-17	7-12	9-25	10-27	12-28	13-30	15-32	17-35	20-38
.833	NC	-	-	-	-	16	20	24	28	31	37	41
12x12	CFM	100	150	200	250	300	350	400	450	500	600	700
	Throws	2-10	4-14	6-19	8-24	10-27	11-29	13-31	14-33	16-35	19-38	22-41
1.000	NC	-	-	-	11	17	21	25	29	32	37	42

CONTINUED

METALAIRE™

SERIES SGRP-AL PERFORMANCE DATA

MODEL SGRP-AL

Size (in)	NK Vel	100	150	200	250	300	350	400	450	500	600	700
Neck Area ft²	Ps	.002	.004	.008	.012	.018	.024	.032	.040	.049	.071	.096
14x08	CFM	78	117	156	195	234	273	312	351	389	467	545
.778	Throws	2-8	4-13	6-17	7-21	8-24	10-26	11-27	13-29	14-31	17-34	20-36
	NC	-	-	-	-	16	20	24	28	31	36	41
14x14	CFM	137	205	273	341	409	477	545	613	681	817	953
1.361	Throws	2-11	5-17	7-22	9-28	11-31	13-34	15-36	17-39	19-41	22-44	27-49
	NC	-	-	-	12	18	23	27	30	33	39	44
15x15	CFM	157	235	313	391	469	548	626	704	782	938	1095
1.563	Throws	2-12	5-18	8-24	10-30	12-34	14-36	16-39	18-41	20-44	24-48	28-51
	NC	-	-	-	13	19	23	27	31	34	39	44
16x10	CFM	112	167	223	278	334	389	445	500	556	667	778
1.111	Throws	2-10	4-15	7-20	8-25	10-28	12-31	13-33	15-35	17-37	20-40	23-43
	NC	-	-	-	12	17	22	26	29	32	38	42
16x12	CFM	134	200	267	334	400	467	534	600	667	800	934
1.333	Throws	2-11	5-17	7-22	9-28	11-31	13-34	15-36	17-38	18-40	22-44	26-48
	NC	-	-	-	12	18	22	26	30	33	39	43
16x16	CFM	178	267	356	445	534	623	712	801	889	1067	1245
1.778	Throws	2-13	5-19	8-25	11-32	13-36	15-39	17-41	19-44	21-46	25-51	30-55
	NC	-	-	-	14	19	24	28	31	34	40	44

PERFORMANCE NOTES FOR SERIES SGRP-AL

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Nk Vel Neck Velocity is the airstream velocity in the duct just before it reaches the supply outlet; measured in Feet per Minute

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

Throw Throw distance in feet are for terminal velocities of 50 and 100fpm respectively

Ps Static pressure = Pt–Pv (inches of water column)

SERIES SGRP-AL PERFORMANCE DATA

MODEL SGRP-AL

Size (in)	NK Vel	100	150	200	250	300	350	400	450	500	600	700
Neck Area ft²	Ps	.002	.005	.009	.014	.020	.026	.035	.044	.054	.078	.106
18x12	CFM	150	225	300	375	450	525	600	675	750	900	1050
	Throws	2-12	5-18	8-23	10-29	12-33	14-36	16-38	18-40	19-43	23-47	27-50
1.500	NC	-	-	-	16	21	26	30	33	37	42	47
18x18	CFM	225	338	450	563	675	788	900	1013	1125	1350	1575
	Throws	3-14	6-21	10-29	12-36	14-40	17-44	19-47	21-50	24-52	29-57	33-62
2.250	NC	-	-	11	18	23	28	32	35	38	44	48
20x20	CFM	278	417	556	695	834	973	1112	1251	1389	1667	1945
	Throws	3-16	7-24	11-32	13-40	16-25	19-49	21-52	24-55	27-58	32-64	37-69
2.778	NC	-	-	12	19	24	29	33	36	39	45	49
21x21	CFM	307	460	613	766	919	1073	1226	1379	1532	1838	2145
	Throws	3-17	7-25	11-33	14-42	17-47	19-51	22-54	25-58	28-61	33-67	39-72
3.063	NC	-	-	12	19	24	29	33	37	40	45	50
22x22	CFM	337	505	673	841	1009	1177	1345	1513	1681	2017	2353
	Throws	3-17	7-26	12-35	15-44	18-49	20-53	23-57	26-61	29-64	35-70	41-75
3.361	NC	-	-	13	19	25	29	33	37	40	46	50
24x06	CFM	100	150	200	250	300	350	400	450	500	600	700
	Throws	2-10	4-14	6-19	8-24	10-27	11-29	13-31	14-33	16-35	19-38	22-41
1.000	NC	-	-	-	14	20	24	28	32	35	40	45
24x08	CFM	134	200	267	334	400	467	534	600	667	800	934
	Throws	2-11	5-17	7-22	9-28	11-31	13-34	15-36	17-38	18-40	22-44	26-48
1.333	NC	-	-	-	15	21	25	29	33	36	42	46
24x12	CFM	200	300	400	500	600	700	800	900	1000	1200	1400
	Throws	3-14	6-20	9-27	11-34	14-38	16-41	18-44	20-47	23-49	27-54	32-58
2.000	NC	-	-	-	17	23	27	31	35	38	43	48
24x18	CFM	300	450	600	750	900	1050	1200	1350	1500	1800	2100
	Throws	3-17	7-25	11-33	14-41	17-47	19-50	22-54	25-57	28-41	33-66	39-71
3.000	NC	-	-	12	19	24	29	33	36	40	45	50
24x24	CFM	400	600	800	1000	1200	1400	1600	1800	2000	2400	2800
	Throws	4-19	8-29	13-38	16-48	19-54	22-58	25-62	29-66	32-70	38-76	45-82
4.000	NC	-	-	14	20	26	30	34	38	41	46	51

CONTINUED

METALAIRE™

SERIES SGRP-AL PERFORMANCE DATA

MODEL SGRP-AL

Size (in)	NK Vel	100	150	200	250	300	350	400	450	500	600	700
Neck Area ft²	Ps	.002	.005	.009	.014	.020	.026	.035	.044	.054	.078	.106
26x26	CFM	470	705	939	1174	1409	1643	1878	2113	2347	2817	3286
4.694	Throws	4-21	9-31	14-41	17-52	21-58	24-63	28-67	31-71	34-75	41-83	48-89
	NC	-	-	14	21	26	31	35	38	42	47	52
30x12	CFM	250	375	500	625	750	875	1000	1125	1250	1500	1750
2.500	Throws	3-15	6-23	10-30	13-38	15-43	18-46	20-49	23-52	25-55	30-60	35-65
	NC	-	-	11	18	24	28	32	36	39	44	49
30x24	CFM	500	750	1000	1250	1500	1750	2000	2250	2500	3000	3500
5.000	Throws	4-21	9-32	14-43	18-53	21-60	25-65	28-70	32-74	36-78	43-85	50-92
	NC	-	-	14	21	27	31	35	39	42	47	52
30x30	CFM	625	938	1250	1563	1875	2188	2500	2813	3125	3750	4375
6.250	Throws	4-24	10-36	16-48	20-60	24-67	28-73	32-78	36-83	40-87	48-95	56-103
	NC	-	-	15	22	28	32	36	40	43	48	53

PERFORMANCE NOTES FOR SERIES SGRP-AL

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM *Cubic Feet per Minute (air)*

Nk Vel *Neck Velocity is the airstream velocity in the duct just before it reaches the supply outlet; measured in Feet per Minute*

NC *Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands*

Throw *Throw distance in feet are for terminal velocities of 50 and 100fpm respectively*

Ps *Static pressure = Pt–Pv (inches of water column)*