

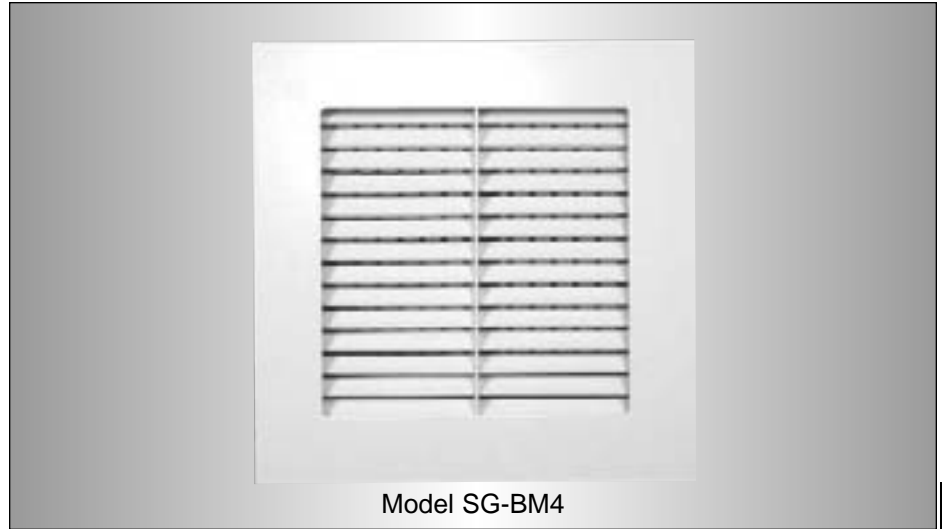
MEDIUM/MINIMUM SECURITY GRILLES AND REGISTERS

- SUPPLY OR RETURN
- STEEL CONSTRUCTION
- FIXED BARS

Models:

SG-BM4 40° deflection

SG-BMZ 0° deflection



Model SG-BM4

Model Series SG-BM may be used for sidewall applications in medium or minimum security areas. Model Series SG-BM's construction includes a stamped, heavy gauge steel, one piece frame welded to the sleeve. The louvered bars and steel mesh screen are reinforced with heavy gauge steel support mullions on 3" (76) maximum centers and welded to a steel sleeve passing through the wall. This design makes the **Model Series SG-BM** the highest quality standard security grille of its kind, providing exceptional strength and impact resistance.

FEATURES:

- Face Plate (frame) constructed from 14 gauge steel.
- 1/2" (13) x 14 gauge blades on 1/2" (13) centers passing through 14 gauge vertical support bars on 3" (76) centers. Blades are fixed at 40° or 0° deflection.
- Sleeve: 14 gauge steel, of length required, with welded seams and welded to face plate.
- Protective screen behind face bars of 10 gauge x 3/8" (10) clear opening (No.

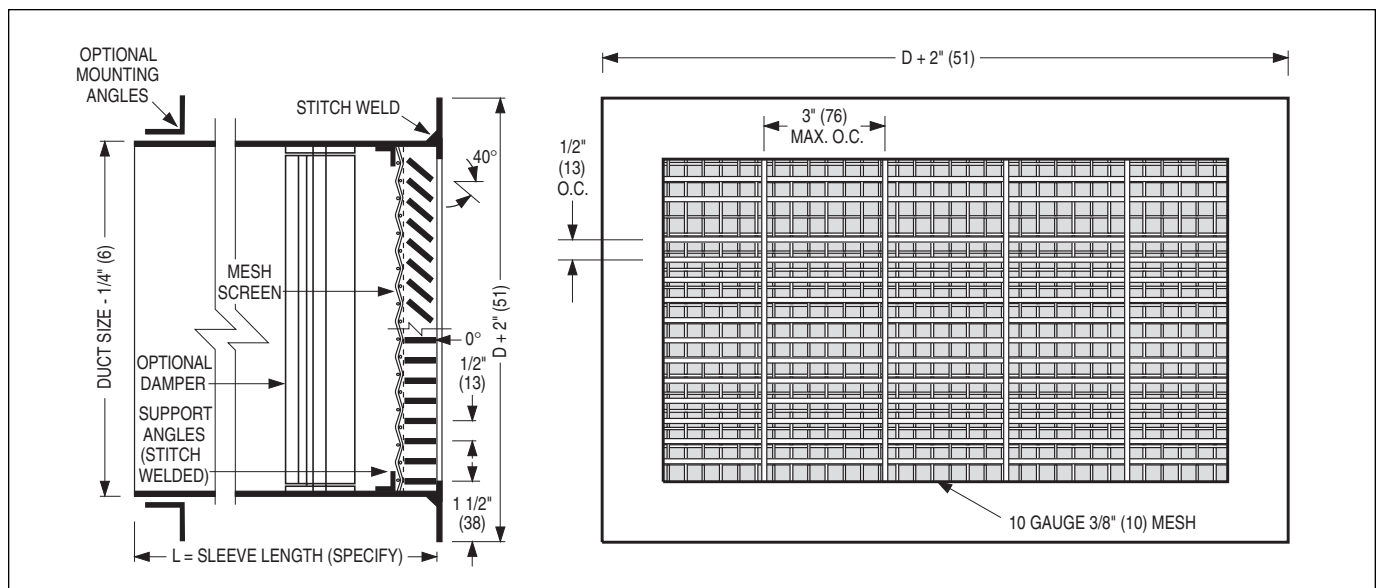
2 mesh) woven steel wire, secured in place by stitch welded support angles.

- Standard finish is prime coat for field painting.

Options:

- Mounting Angles: Option A, B or C. See page H23.
- Masonry Anchor Tabs: Option D. See page H23.
- Additional Security Barrier: Option E or F. See page H23.

- Opposed Blade Damper: Face operator (lever): Option J, Rear operator (screwdriver slot): Option K, See page H24.



SECURITY PRODUCTS

Performance Data

Model SG-BM4 • Supply

Core Area Sq. Feet	Nominal Duct Size, Inches		Core Velocity TP	300	400	500	600	800	1000	1200
				.041	.067	.108	.149	.27	.420	.615
.18	8 x 4	6 x 6	CFM	55	70	90	110	145	180	215
			NC	—	—	21	27	36	42	48
			T	5-8-12	7-9-13	9-11-15	10-12-16	11-13-19	13-15-21	14-16-23
.39	18 x 4	12 x 6	CFM	115	155	195	235	310	390	470
			NC	—	—	25	30	39	45	52
			T	8-12-16	11-13-20	12-15-22	14-17-24	16-19-28	17-21-31	19-24-33
.52	24 x 4	16 x 6	CFM	155	210	260	310	415	520	625
			NC	—	—	26	31	40	46	53
			T	9-13-19	12-16-23	13-17-24	16-19-28	18-21-31	21-26-36	24-29-4
1.18	14 x 12	16 x 12	CFM	355	470	590	710	945	1180	1420
			NC	—	23	29	34	43	50	55
			T	13-20-30	17-24-33	22-27-38	25-30-42	29-33-48	32-38-54	34-41-58
1.60	30 x 8	24 x 10	CFM	480	640	800	960	1280	1600	1920
			NC	—	27	33	38	47	53	59
			T	14-22-33	20-29-40	24-31-45	29-35-50	32-40-55	37-45-64	38-48-68
2.78	30 x 14	24 x 18	CFM	835	1110	1320	1676	2220	2780	3340
			NC	—	27	33	38	47	53	60
			T	20-30-46	26-35-55	31-40-58	37-47-69	45-55-78	48-60-85	54-66-91
4.29	30 x 22	28 x 24	CFM	1290	1720	2140	2570	3430	4290	5150
			NC	20	28	35	40	49	55	61
			T	24-36-55	32-42-61	41-51-72	46-56-80	51-62-87	58-71-97	67-82-111

Model SG-BM4 • Return

Core Area Sq. Feet	Nominal Duct Size, Inches		Core Velocity Neg. SP	200	300	400	500	600	800	1000
				.018	.055	.091	.146	.200	.364	.565
.18	8 x 4	6 x 6	CFM	35	55	70	90	110	145	180
			NC	—	—	—	25	29	36	42
			CFM	80	115	155	195	235	310	390
.39	18 x 4	12 x 6	NC	—	—	25	31	35	42	48
			CFM	105	155	210	260	310	415	520
			NC	—	—	26	32	37	44	49
1.18	14 x 14	16 x 12	CFM	235	355	470	590	710	945	1180
			NC	—	26	32	37	43	50	55
			CFM	320	480	640	800	960	1280	1600
1.60	30 x 8	24 x 10	NC	—	28	34	40	45	52	58
			CFM	555	835	1110	1390	1670	2220	2780
			NC	20	32	38	44	49	56	61
2.78	30 x 14	24 x 18	CFM	860	1290	1720	2140	2570	3430	4290
			NC	24	35	41	47	52	60	64

CFM - cubic feet per minute

TP - total pressure - inches w.g.

SP - static pressure - inches w.g.

T - throw in feet

NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.

Core Velocity is in feet per minute.

Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities.

2. NC values less than 20 are not shown.

3. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.

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SECURITY PRODUCTS