

MSSL/MSBL/MSGGS

SECURITY LOUVERED GRILLE



MSSL/MSBL/MSGGS

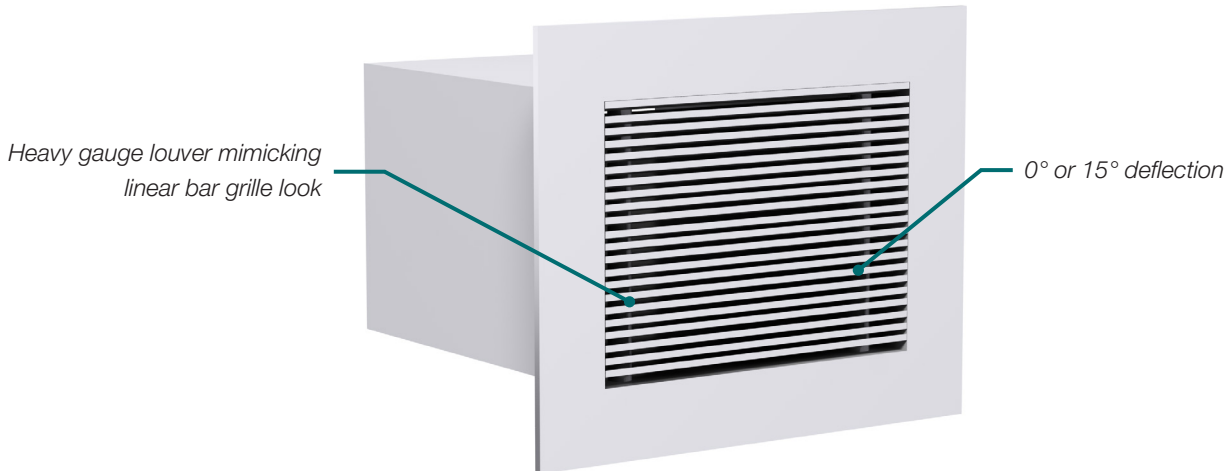
Security Louvered Grille

Louvered security grilles features all-welded construction with a heavy-gauge wire screen fixed behind the louver blades for additional security.

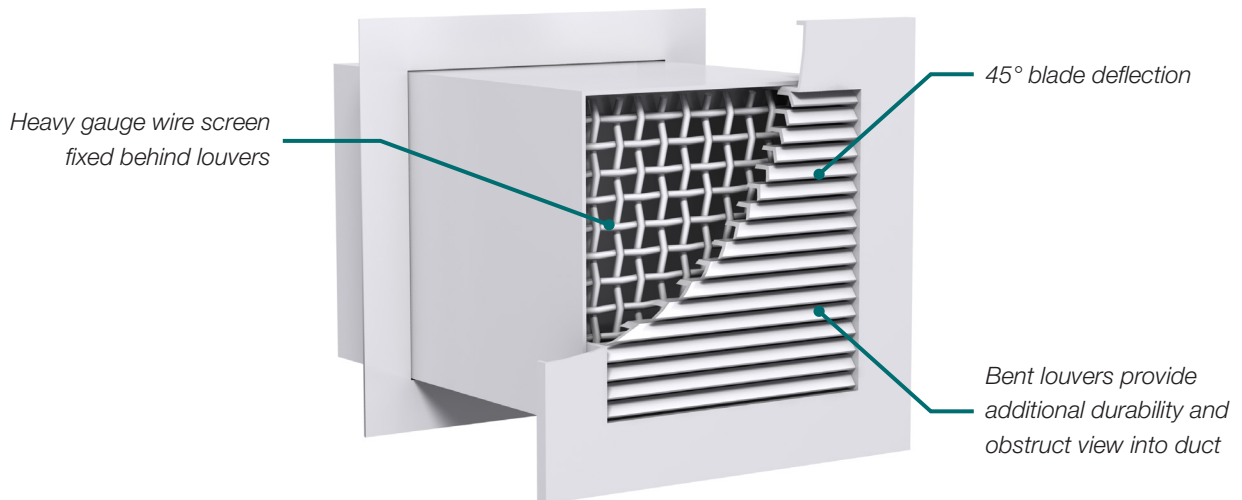
Straight louvered security grille



Bar louvered security grille



Bent louvered security grille



CONSTRUCTION VERSATILITY

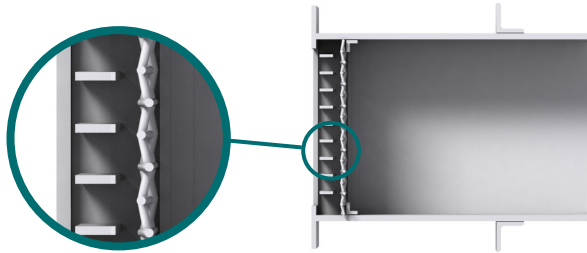
- + The integral wall sleeve is provided with stitched or continuously welded seams and can be ordered in a variety of thicknesses and lengths with optional mounting angles for field welding or masonry rods for pour in place construction.

4-SIDED MOUNTING FRAME

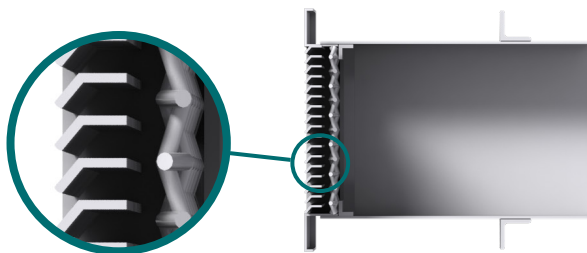
- + A range of different steel mounting frames are available as an option. The mounting frames are shipped loose for field welding or mechanical fastening which allows for flexible installation and robust installed assembly.

LOUVER OPTIONS

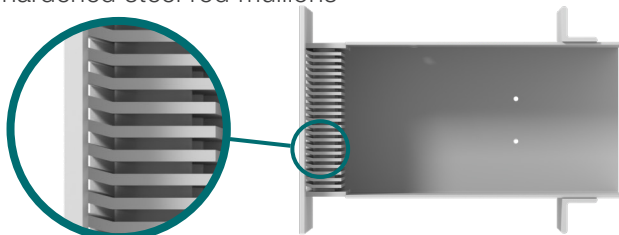
- + **Straight Louvers** - The 1/8 in. x 1/2 in. cold rolled steel louvers are set at a 0° deflection with 14 GA vertical support mullions located on 6 in. centers.



- + **Bent Louvers** - The 14 GA hot rolled steel bent louvers are spaced on 3/8 in. centers and set at a 45° deflection with 14 GA vertical support mullions on 6 in. centers.



- + **Bar Grille Louvers** - The 1/8 in. x 1/2 in. steel bars are spaced on 1/4 in. centers at 0 or 15 deg deflection with hardened steel rod mullions



TYPICAL APPLICATIONS

Security grilles reduce unwanted access to ductwork in spaces where supervision is minimal and vandalism or misuse is a risk. Such areas include: correctional facilities, psychiatric hospitals, rest stops, park facilities, schools, and sports venues. Price louvered security grilles feature all-welded construction and integral wall sleeves, ideal for security sidewall applications.

CONSTRUCTION

- + Configuration
 - Straight louver (MSSL)
 - Bent louver (MSBL)
 - Bar grille (MSGGS)
- + Material
 - Steel
- + Size
 - Minimum: 6 in. x 6 in. (MSSL and MSBL)
 - Maximum: 30 in. x 30 in. (MSSL and MSBL)
 - Maximum: 24 in. x 12 in. (MSGGS)
- + Options
 - Dampers
 - Barrier bars
 - Transfer grille construction (TGCS)*

*Not available on MSGGS

PERFORMANCE DATA

MSSL

Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
	Velocity Pressure (in. w.g.)	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
	Total Pressure (in. w.g.)	0.025	0.045	0.07	0.101	0.137	0.18	0.227	0.281
6 x 6	Flow Rate (cfm)	75	100	125	150	175	200	225	250
	Sound (NC)	-	-	17	23	27	31	35	38
	Throw (ft)	6-9-17	8-12-20	10-15-22	12-17-24	14-19-26	16-20-28	17-21-30	18-22-31
8 x 8	Flow Rate (cfm)	133	178	222	267	311	356	400	444
	Sound (NC)	-	-	18	23	28	32	36	39
	Throw (ft)	8-12-23	11-16-26	14-20-30	16-23-32	19-25-35	22-26-37	23-28-40	24-30-42
10 x 10	Flow Rate (cfm)	208	278	347	417	486	556	625	694
	Sound (NC)	-	-	18	24	29	33	36	40
	Throw (ft)	10-15-29	14-20-33	17-25-37	20-29-40	24-31-44	27-33-47	29-35-49	30-37-52
12 x 12	Flow Rate (cfm)	300	400	500	600	700	800	900	1000
	Sound (NC)	-	-	19	24	29	33	37	40
	Throw (ft)	12-18-34	16-24-40	20-31-44	24-34-48	29-37-52	32-40-56	34-42-59	36-44-63
14 x 14	Flow Rate (cfm)	408	544	681	817	953	1089	1225	1361
	Sound (NC)	-	-	19	25	30	34	37	40
	Throw (ft)	14-21-40	19-29-46	24-36-52	29-40-57	33-43-61	38-46-65	40-49-69	42-52-73
16 x 16	Flow Rate (cfm)	533	711	889	1067	1244	1422	1600	1778
	Sound (NC)	-	-	20	25	30	34	38	41
	Throw (ft)	16-24-46	22-33-53	27-41-59	33-46-65	38-49-70	43-53-75	46-56-79	48-59-83
18 x 18	Flow Rate (cfm)	675	900	1125	1350	1575	1800	2025	2250
	Sound (NC)	-	-	20	26	30	34	38	41
	Throw (ft)	18-27-51	24-37-59	31-46-66	37-51-73	43-56-79	48-59-84	51-63-89	54-66-94
20 x 20	Flow Rate (cfm)	833	1111	1389	1667	1944	2222	2500	2778
	Sound (NC)	-	-	20	26	30	35	38	41
	Throw (ft)	20-31-57	27-41-66	34-51-74	41-57-81	48-62-87	54-66-93	57-70-99	60-74-104
22 x 22	Flow Rate (cfm)	1008	1344	1681	2017	2353	2689	3025	3361
	Sound (NC)	-	-	21	26	31	35	38	42
	Throw (ft)	22-34-63	30-45-73	37-56-81	45-63-89	52-68-96	59-73-103	63-77-109	66-81-115
24 x 24	Flow Rate (cfm)	1200	1600	2000	2400	2800	3200	3600	4000
	Sound (NC)	-	-	21	26	31	35	39	42
	Throw (ft)	24-37-69	33-49-79	41-61-89	49-69-97	57-74-105	65-79-112	69-84-119	72-89-125
26 x 26	Flow Rate (cfm)	1408	1878	2347	2817	3286	3756	4225	4694
	Sound (NC)	-	-	21	26	31	35	39	42
	Throw (ft)	26-40-74	35-53-86	44-66-96	53-74-105	62-80-113	70-86-121	74-91-129	78-96-136
28 x 28	Flow Rate (cfm)	1633	2178	2722	3267	3811	4356	4900	5444
	Sound (NC)	-	-	21	27	31	35	39	42
	Throw (ft)	29-43-80	38-57-92	48-71-103	57-80-113	67-86-122	75-92-131	80-98-139	84-103-146
30 x 30	Flow Rate (cfm)	1875	2500	3125	3750	4375	5000	5625	6250
	Sound (NC)	-	-	21	27	32	36	39	42
	Throw (ft)	31-46-86	41-61-99	51-76-111	61-86-121	71-93-131	81-99-140	86-105-148	90-111-157

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. All pressures are in in. w.g.
3. NC values are based on a room absorption of 10 dB re 10⁻¹² watts and one grille.
4. Blanks "-" indicate an NC value less than 15.
5. Air flow is in cfm.
6. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
7. Throw data is based on supply air and room air being at isothermal conditions.
8. Corrections for return application: use listed NC; multiply listed total pressure by 1.6 to obtain negative static pressure.
9. Throw is based on wall mounting grille within 18 in. of ceiling, therefore ceiling effect is included in throw values.

PERFORMANCE DATA

MSBL

Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
	Velocity Pressure (in. w.g.)	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
	Total Pressure (in. w.g.)	0.031	0.055	0.086	0.123	0.168	0.219	0.278	0.343
6 x 6	Flow Rate (cfm)	75	100	125	150	175	200	225	250
	Sound (NC)	-	-	17	23	28	33	36	40
	Throw (ft)	4-6-11	5-7-13	6-9-14	7-11-16	9-12-17	10-13-18	11-14-19	12-14-20
8 x 8	Flow Rate (cfm)	133	178	222	267	311	356	400	444
	Sound (NC)	-	-	19	25	30	34	38	42
	Throw (ft)	5-7-15	7-10-17	8-12-19	10-15-21	12-16-22	13-17-24	15-18-25	15-19-27
10 x 10	Flow Rate (cfm)	208	278	347	417	486	556	625	694
	Sound (NC)	-	-	20	26	31	36	39	43
	Throw (ft)	6-9-18	8-12-21	10-15-24	12-18-26	14-20-28	16-21-30	18-23-32	19-24-34
12 x 12	Flow Rate (cfm)	300	400	500	600	700	800	900	1000
	Sound (NC)	-	-	21	27	32	37	41	44
	Throw (ft)	7-11-22	10-15-25	12-19-28	15-22-31	17-24-34	20-25-36	22-27-38	23-28-40
14 x 14	Flow Rate (cfm)	408	544	681	817	953	1089	1225	1361
	Sound (NC)	-	15	22	28	33	38	42	45
	Throw (ft)	9-13-26	12-17-30	14-22-33	17-26-36	20-28-39	23-30-42	26-32-45	27-33-47
16 x 16	Flow Rate (cfm)	533	711	889	1067	1244	1422	1600	1778
	Sound (NC)	-	16	23	29	34	38	42	46
	Throw (ft)	10-15-29	13-20-34	16-25-38	20-29-42	23-32-45	26-34-48	29-36-51	31-38-54
18 x 18	Flow Rate (cfm)	675	900	1125	1350	1575	1800	2025	2250
	Sound (NC)	-	17	24	30	35	39	43	46
	Throw (ft)	11-17-33	15-22-38	19-28-43	22-33-47	26-36-51	30-38-54	33-41-57	35-43-60
20 x 20	Flow Rate (cfm)	833	1111	1389	1667	1944	2222	2500	2778
	Sound (NC)	-	17	25	30	35	40	44	47
	Throw (ft)	12-19-37	16-25-42	21-31-47	25-37-52	29-40-56	33-42-60	37-45-64	39-47-67
22 x 22	Flow Rate (cfm)	1008	1344	1681	2017	2353	2689	3025	3361
	Sound (NC)	-	18	25	31	36	40	44	48
	Throw (ft)	14-20-40	18-27-47	23-34-52	27-40-57	32-44-62	36-47-66	40-50-70	43-52-74
24 x 24	Flow Rate (cfm)	1200	1600	2000	2400	2800	3200	3600	4000
	Sound (NC)	-	18	26	32	37	41	45	48
	Throw (ft)	15-22-44	20-30-51	25-37-57	30-44-62	35-48-67	40-51-72	44-54-76	46-57-80
26 x 26	Flow Rate (cfm)	1408	1878	2347	2817	3286	3756	4225	4694
	Sound (NC)	-	19	26	32	37	41	45	49
	Throw (ft)	16-24-48	21-32-55	27-40-62	32-48-68	37-52-73	43-55-78	48-59-83	50-62-87
28 x 28	Flow Rate (cfm)	1633	2178	2722	3267	3811	4356	4900	5444
	Sound (NC)	-	19	27	33	38	42	46	49
	Throw (ft)	17-26-51	23-35-59	29-43-66	35-51-73	40-56-79	46-59-84	51-63-89	54-66-94
30 x 30	Flow Rate (cfm)	1875	2500	3125	3750	4375	5000	5625	6250
	Sound (NC)	-	20	27	33	38	42	46	50
	Throw (ft)	19-28-55	25-37-64	31-46-71	37-55-78	43-60-84	49-64-90	55-68-95	58-71-101

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- All pressures are in in. w.g.
- NC values are based on a room absorption of 10 dB re 10⁻¹² watts and one grille.
- Blanks "-" indicate an NC value less than 15.
- Air flow is in cfm.
- Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
- Throw data is based on supply air and room air being at isothermal conditions.
- Corrections for return application: add 16 To listed NC; multiply listed total pressure by 1.80 to obtain negative static pressure.
- Throw data is based on louver deflection oriented towards ceiling. Throw is based on wall mounting grille within 18 in. of ceiling, therefore ceiling effect is included in throw values.

PERFORMANCE DATA

MSGs

Size	Neck Velocity (fpm)	300	400	500	600	700	800	900	1000
	Velocity Pressure (in. w.g.)	0.006	0.010	0.016	0.022	0.031	0.040	0.050	0.062
	Total Pressure (in. w.g.)	0.050	0.090	0.140	0.202	0.275	0.359	0.454	0.561
6 x 6	Flow Rate (cfm)	75	100	125	150	175	200	225	250
	Sound (NC)	-	-	20	26	30	34	37	40
	Throw (ft)	6-9-12	8-10-14	9-11-16	10-12-17	11-13-19	12-14-20	12-15-21	13-16-22
8 x 8	Flow Rate (cfm)	133	178	222	267	311	356	400	444
	Sound (NC)	-	5	22	27	32	35	39	42
	Throw (ft)	8-12-16	11-13-19	12-15-21	13-16-23	14-18-25	15-19-27	16-20-28	17-21-30
10 x 10	Flow Rate (cfm)	208	278	347	417	486	556	625	694
	Sound (NC)	-	16	23	28	33	37	40	43
	Throw (ft)	10-14-20	14-17-24	15-19-26	17-20-29	18-22-31	19-24-33	20-25-35	22-26-37
12 x 12	Flow Rate (cfm)	300	400	500	600	700	800	900	1000
	Sound (NC)	-	17	24	29	34	38	41	44
	Throw (ft)	13-17-24	16-20-28	18-22-32	20-24-35	22-26-37	23-28-40	24-30-42	26-32-45
14 x 14	Flow Rate (cfm)	408	544	681	817	953	1089	1225	1361
	Sound (NC)	-	18	25	30	34	38	42	45
	Throw (ft)	15-20-29	19-23-33	21-26-37	23-29-40	25-31-44	27-33-47	29-35-49	30-37-52
16 x 16	Flow Rate (cfm)	533	711	889	1067	1244	1422	1600	1778
	Sound (NC)	-	19	25	31	35	39	42	45
	Throw (ft)	17-23-33	22-27-38	24-30-42	27-33-46	29-35-50	31-38-53	33-40-57	34-42-60
18 x 18	Flow Rate (cfm)	675	900	1125	1350	1575	1800	2025	2250
	Sound (NC)	-	9	26	32	36	40	44	47
	Throw (ft)	19-26-37	24-30-42	27-34-47	30-37-52	32-40-56	35-42-60	37-45-64	39-47-67
20 x 20	Flow Rate (cfm)	833	1111	1389	1667	1944	2222	2500	2778
	Sound (NC)	-	20	26	32	36	40	44	47
	Throw (ft)	21-29-41	27-33-47	30-37-53	33-41-58	36-44-62	38-47-67	41-50-71	43-53-75
22 x 22	Flow Rate (cfm)	1008	1344	1681	2017	2353	2689	3025	3361
	Sound (NC)	-	0	27	32	37	41	44	47
	Throw (ft)	23-32-45	30-37-52	33-41-58	37-45-64	40-49-69	42-52-73	45-55-78	47-58-82
24 x 24	Flow Rate (cfm)	1200	1600	2000	2400	2800	3200	3600	4000
	Sound (NC)	-	21	27	33	37	41	45	48
	Throw (ft)	25-35-49	33-40-57	37-45-63	40-49-69	43-53-75	46-57-80	49-60-85	52-63-89
26 x 26	Flow Rate (cfm)	1408	1878	2347	2817	3286	3756	4225	4694
	Sound (NC)	-	21	28	33	38	42	45	48
	Throw (ft)	27-38-53	35-43-61	40-48-69	43-53-75	47-57-81	50-61-87	53-65-92	56-69-97
28 x 28	Flow Rate (cfm)	1633	2178	2722	3267	3811	4356	4900	5444
	Sound (NC)	-	22	28	34	38	42	45	48
	Throw (ft)	29-40-57	38-47-66	43-52-74	47-57-81	50-62-87	54-66-93	57-70-99	60-74-104
30 x 30	Flow Rate (cfm)	1875	2500	3125	3750	4375	5000	5625	6250
	Sound (NC)	-	22	29	34	38	42	46	49
	Throw (ft)	31-43-61	41-50-71	46-56-79	50-61-87	54-66-94	58-71-100	61-75-106	65-79-112

Performance Notes:

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4. Blanks "-" indicate an NC value less than 15.
5. Air flow is in cfm.
6. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
7. Throw data is based on supply air and room air being at isothermal conditions.
8. Corrections for return application: use listed NC; multiply listed total pressure by 1.6 to obtain negative static pressure.
9. Throw is based on wall mounting grille within 18 in. of ceiling, therefore ceiling effect is included in throw values.



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