

PERFORMANCE DATA - 0° and 45° Fixed Deflection Return R&G

- Steel 0° (RSRB, RTRB) • Aluminum 0° (RARM, RNRM) • Stainless Steel 0° (RLRB, RMRB, RKRB)
- Steel 45° (RSAB, RTAB) • Aluminum 45° (RAAM, RNAM) • Stainless Steel 45° (RLAB, RMAB, RKAB)

Correction Factors for Grille Performance

Total Pressure (Pt)

- For a 0° deflection grille, use the data unchanged from the table.
- For a 45° deflection grille, multiply the table data by 1.8.

Sound Level (NC)

- For a 0° deflection grille, use the table data unchanged.
- For a 45° deflection grille, add 5db to the table data.

Correction Factors for Register Performance

Total Pressure (Pt)

- For a 0° deflection register with a wide open damper, multiply the table data by 1.2.
- For a 45° deflection register with a wide open damper, multiply the table data by 2.0.

Sound Level (NC)

- For a 0° deflection register with a wide open damper, add 2db to the table data.
- For a 45° deflection register with a wide open damper, add 7db to the table data.

Duct Velocity (fpm)		200	400	600	800	1000
Total Pressure (w. g.)		0.020	0.050	0.090	0.140	0.200
4x4	Flow (CFM)	22	44	66	88	110
(.11 ft ²)	Sound (NC)	—	—	—	—	—
6x6	Flow (CFM)	50	100	150	200	250
(.25 ft ²)	Sound (NC)	—	—	—	—	21
8x6	Flow (CFM)	65	130	200	270	340
(.33 ft ²)	Sound (NC)	—	—	—	—	24
10x6	Flow (CFM)	80	160	240	320	400
(.42 ft ²)	Sound (NC)	—	—	—	20	26
12x6	Flow (CFM)	90	180	260	350	440
(.50 ft ²)	Sound (NC)	—	—	—	21	27
14x6	Flow (CFM)	110	220	330	440	550
(.58 ft ²)	Sound (NC)	—	—	—	23	29
12x8	Flow (CFM)	140	280	400	550	690
(.67 ft ²)	Sound (NC)	—	—	—	25	32
12x10	Flow (CFM)	160	320	480	640	800
(.83 ft ²)	Sound (NC)	—	—	—	26	33
12x12	Flow (CFM)	200	400	600	800	1000
(1.00 ft ²)	Sound (NC)	—	—	21	29	35
14x14	Flow (CFM)	270	540	820	1090	1360
(1.36 ft ²)	Sound (NC)	—	—	23	31	37
18x12	Flow (CFM)	310	620	930	1240	1550
(1.50 ft ²)	Sound (NC)	—	—	24	32	39
16x16	Flow (CFM)	360	710	1070	1420	1780
(1.77 ft ²)	Sound (NC)	—	—	26	34	41

Performance Data Notes:

- Sound values are given in NC, are based on a room absorption of 10db re 10⁻¹² watts.
- Pressure values are given in inches of water.
- Flow values are given in cubic feet per minute.
- Actual performance in the field may vary.

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Duct Velocity (fpm)		200	400	600	800	1000
Total Pressure (w. g.)		0.020	0.050	0.090	0.140	0.200
18x16, 24x12 (2.00 ft ²)	Flow (CFM)	400	800	1200	1600	2000
	Sound (NC)	—	—	27	35	42
18x18 (2.25 ft ²)	Flow (CFM)	450	900	1200	1800	2200
	Sound (NC)	—	—	28	36	43
36x12, 24x18 (3.00 ft ²)	Flow (CFM)	600	1200	1800	2400	3000
	Sound (NC)	—	—	30	39	45
24x24 (4.00 ft ²)	Flow (CFM)	800	1600	2400	3200	4000
	Sound (NC)	—	21	33	42	48
36x18 (4.50 ft ²)	Flow (CFM)	900	1800	2700	3600	4500
	Sound (NC)	—	22	34	43	49
30x24, 36x20 (5.00 ft ²)	Flow (CFM)	1000	2000	3000	4000	5000
	Sound (NC)	—	23	35	44	50
36x24, 48x18 (6.00 ft ²)	Flow (CFM)	1200	2400	3600	4800	6000
	Sound (NC)	—	24	36	45	52
36x36 (9.00 ft ²)	Flow (CFM)	1800	3600	5400	7200	9000
	Sound (NC)	—	29	41	49	56
40x36 (10.00 ft ²)	Flow (CFM)	2000	4000	6000	8000	10000
	Sound (NC)	—	30	42	50	57
44x36 (11.00 ft ²)	Flow (CFM)	2200	4400	6600	8800	11000
	Sound (NC)	—	31	43	52	59
48x36 (12.00 ft ²)	Flow (CFM)	2400	4800	7200	9600	12000
	Sound (NC)	—	33	45	54	61

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Sq. & Rect. Registers & Grilles