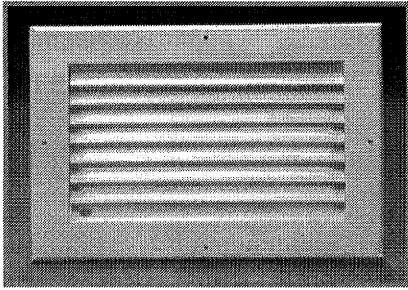


# Steel Louvered Return R&G (RSLA, RTLA)



### Application:

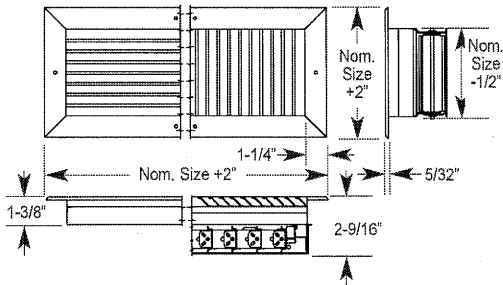
Louvered Returns are used primarily as return or exhaust grilles or registers that match the appearance of louvered supply outlets. They are well suited for locations where the occupant can see into the duct. They can be mounted on the wall or the ceiling.

### Standard Features:

- Steel construction is durable and inexpensive.
- Louvered blades are on 2/3" centers.
- Blades can be aligned horizontally or vertically.
- Minimum Panel Size is 4" x 4".
- Maximum Panel size is 48" x 36" assuming horizontal blade alignment. Panels can be joined for larger sizes (p. A313).
- Register uses Model RXEA opposed blade damper (p. A409).
- Standard finish is electrocoat acrylic baked enamel.
- Standard color is #11 Bright White.

### Optional Features:

- Tamper-proof screws (p. A343).
- Concealed Hangers (p. A344).
- Pull Cord and lever Damper Operator (p. A344).
- Debris Screen (p. A344).
- Unit can be set in T-bar panel (Opt. T), and certain sizes can be sheared (Opt. S) to fit T-bar grids (p. A342).

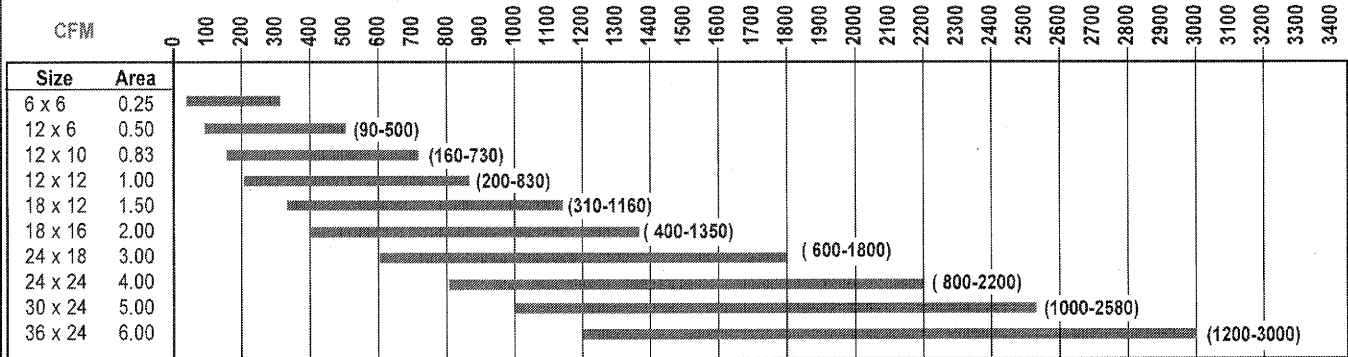


Sq. & Rect. Registers & Grilles

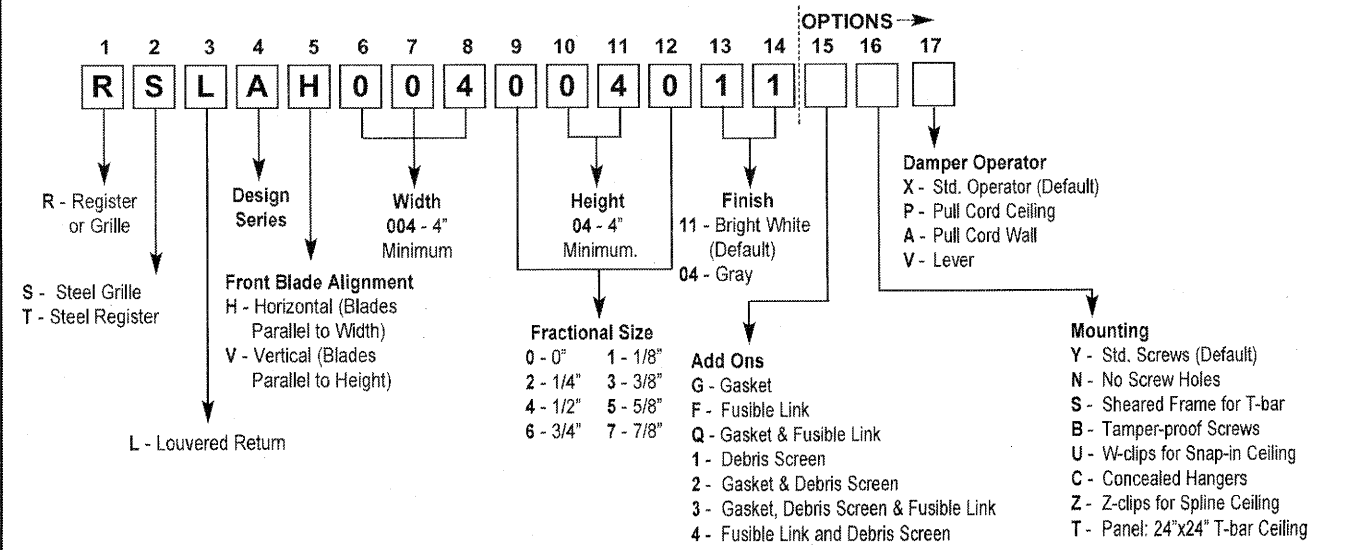
### Quick Select Chart

This shows grilles with:
 

- A maximum sound level of NC of 35.
- A minimum duct velocity of 200 FPM.



### Model Numbering System



## PERFORMANCE DATA - Steel Louvered Return R&G (RSLA, RTLA)

### Correction Factors for Grille Performance

#### Total Pressure (Pt)

- Use the data unchanged from the table.

#### Sound Level (NC)

- Use the table data unchanged.

### Correction Factors for Register Performance

#### Total Pressure (Pt)

- For a wide open damper, multiply the table data by 1.2.

#### Sound Level (NC)

- For a register with a wide open damper, add 2db to the table data.

Duct Velocity (fpm)		200	400	600	800	1000
Total Pressure (w. g.)		0.030	0.090	0.160	0.250	0.350
4x4 (.11 ft <sup>2</sup> )	Flow (CFM)	<b>22</b>	<b>44</b>	<b>66</b>	<b>88</b>	<b>110</b>
	Sound (NC)	—	—	—	—	21
6x6 (.25 ft <sup>2</sup> )	Flow (CFM)	<b>50</b>	<b>100</b>	<b>150</b>	<b>200</b>	<b>250</b>
	Sound (NC)	—	—	—	22	28
8x6 (.33 ft <sup>2</sup> )	Flow (CFM)	<b>65</b>	<b>130</b>	<b>200</b>	<b>270</b>	<b>340</b>
	Sound (NC)	—	—	—	23	29
10x6 (.46 ft <sup>2</sup> )	Flow (CFM)	<b>80</b>	<b>160</b>	<b>240</b>	<b>320</b>	<b>400</b>
	Sound (NC)	—	—	—	25	31
12x6 (.50 ft <sup>2</sup> )	Flow (CFM)	<b>90</b>	<b>180</b>	<b>260</b>	<b>350</b>	<b>440</b>
	Sound (NC)	—	—	20	26	32
14x6 (.58 ft <sup>2</sup> )	Flow (CFM)	<b>110</b>	<b>220</b>	<b>330</b>	<b>440</b>	<b>550</b>
	Sound (NC)	—	—	21	28	34
12x8 (.67 ft <sup>2</sup> )	Flow (CFM)	<b>140</b>	<b>280</b>	<b>400</b>	<b>550</b>	<b>690</b>
	Sound (NC)	—	—	23	30	37
12x10 (.83 ft <sup>2</sup> )	Flow (CFM)	<b>160</b>	<b>320</b>	<b>480</b>	<b>640</b>	<b>800</b>
	Sound (NC)	—	—	23	31	38
12x12 (1.00 ft <sup>2</sup> )	Flow (CFM)	<b>200</b>	<b>400</b>	<b>600</b>	<b>800</b>	<b>1000</b>
	Sound (NC)	—	—	26	34	40
14x14 (1.36 ft <sup>2</sup> )	Flow (CFM)	<b>270</b>	<b>540</b>	<b>820</b>	<b>1090</b>	<b>1360</b>
	Sound (NC)	—	—	28	36	42
18x12 (1.50 ft <sup>2</sup> )	Flow (CFM)	<b>310</b>	<b>620</b>	<b>930</b>	<b>1240</b>	<b>1550</b>
	Sound (NC)	—	—	29	37	44
16x16 (1.77 ft <sup>2</sup> )	Flow (CFM)	<b>360</b>	<b>710</b>	<b>1070</b>	<b>1420</b>	<b>1780</b>
	Sound (NC)	—	—	31	39	46
18x16, 24x12 (2.00 ft <sup>2</sup> )	Flow (CFM)	<b>400</b>	<b>800</b>	<b>1200</b>	<b>1600</b>	<b>2000</b>
	Sound (NC)	—	20	32	40	47
18x18 (2.25 ft <sup>2</sup> )	Flow (CFM)	<b>450</b>	<b>900</b>	<b>1350</b>	<b>1800</b>	<b>2200</b>
	Sound (NC)	—	21	33	41	48
36x12, 24x18 (3.00 ft <sup>2</sup> )	Flow (CFM)	<b>600</b>	<b>1200</b>	<b>1800</b>	<b>2400</b>	<b>3000</b>
	Sound (NC)	—	24	35	44	50
24x24 (4.00 ft <sup>2</sup> )	Flow (CFM)	<b>800</b>	<b>1600</b>	<b>2400</b>	<b>3200</b>	<b>4000</b>
	Sound (NC)	—	26	38	47	53
36x18 (4.50 ft <sup>2</sup> )	Flow (CFM)	<b>900</b>	<b>1800</b>	<b>2700</b>	<b>3600</b>	<b>4500</b>
	Sound (NC)	—	27	39	48	54
30x24, 36x20 (5.00 ft <sup>2</sup> )	Flow (CFM)	<b>1000</b>	<b>2000</b>	<b>3000</b>	<b>4000</b>	<b>5000</b>
	Sound (NC)	—	28	40	49	55
36x24, 48x18 (6.00 ft <sup>2</sup> )	Flow (CFM)	<b>1200</b>	<b>2400</b>	<b>3600</b>	<b>4800</b>	<b>6000</b>
	Sound (NC)	—	29	41	50	57
36x36 (9.00 ft <sup>2</sup> )	Flow (CFM)	<b>1800</b>	<b>3600</b>	<b>5400</b>	<b>7200</b>	<b>9000</b>
	Sound (NC)	20	34	46	54	61
40x36 (10.00 ft <sup>2</sup> )	Flow (CFM)	<b>2000</b>	<b>4000</b>	<b>6000</b>	<b>8000</b>	<b>10000</b>
	Sound (NC)	22	35	47	55	62
44x36 (11.00 ft <sup>2</sup> )	Flow (CFM)	<b>2200</b>	<b>4400</b>	<b>6600</b>	<b>8800</b>	<b>11000</b>
	Sound (NC)	23	37	49	57	64
48x36 (12.00 ft <sup>2</sup> )	Flow (CFM)	<b>2400</b>	<b>4800</b>	<b>7200</b>	<b>9600</b>	<b>12000</b>
	Sound (NC)	24	38	50	59	66

### Performance Data

#### Notes:

- Sound values are given in NC, are based on a room absorption of 10db re 10<sup>-12</sup> 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.