ARNES<sup>®</sup> M-Series Ext. Alum. Louvered Return R&G (RALM, RNLM)

## RETURN GRILLES and REGISTERS

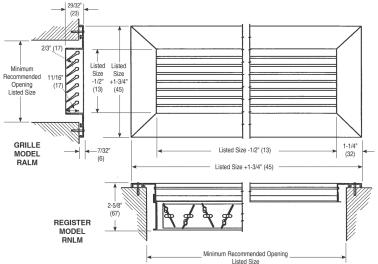
The beautiful designed natural anodize extruded aluminum angle blade return air grille or register incorporates the following features.

- 1. The frame is flat with sharp square edges to harmonize with modern aesthetical designs.
- 2. Angle blades that have clean, sharp lines that can be achieved by extrusions.
- 3. Slightly over lapped blades to practically eliminate seethrough.

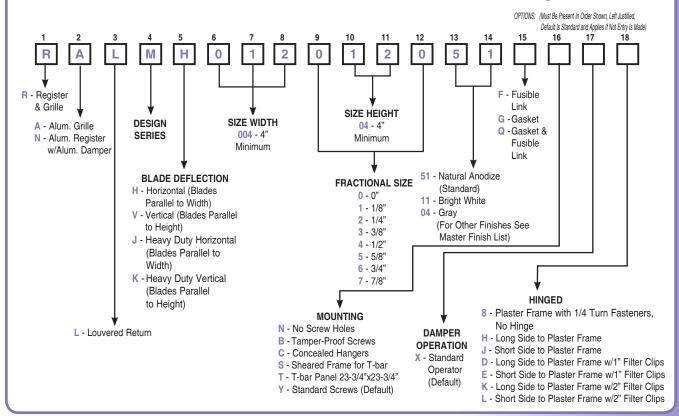
NOTE: The angle blade return is standard with the blades in a horizontal position. It is, however, available with the blades in a vertical position by substituting a "V" at the end of the model number.

Example: RALAV





### **MODEL NUMBERING SYSTEM - M-Series Aluminum Louvered Return Registers and Grilles**



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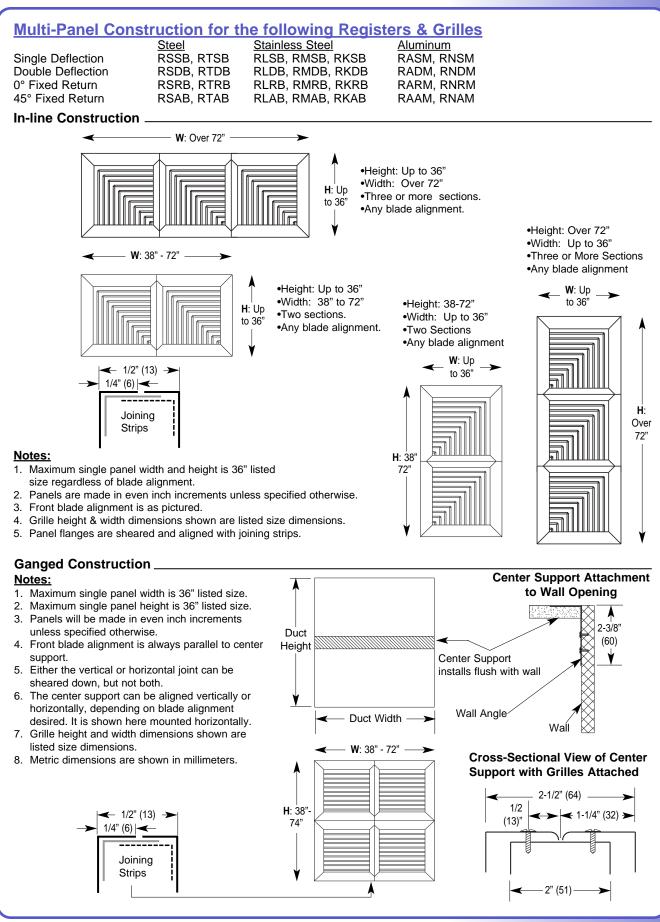
CARNES

MODELS: RALM, RNLM										
	Area*	AIR CAPACITY CFM								
SIZE	Sq.	300	400	500	600	700	800	900		
WxH	Ft.	FPM	FPM	FPM	FPM	FPM	FPM	FPM		
10 x 6	.26	78	104	130	156	182	208	234		
12 x 6	.32	96	128	160	192	224	256	288		
10 x 8	.36	108	144	180	216	252	288	324		
12 x 8	.43	129	172	215	258	301	344	387		
18 x 6	.48	144	192	240	288	336	384	432		
12 x 12	.67	201	268	335	402	469	536	603		
18 x 12	1.02	306	408	510	612	714	816	918		
24 x 12	1.35	405	540	675	810	945	1080	1215		
18 x 18	1.55	465	620	775	930	1085	1240	1395		
30 x 12	1.69	507	676	845	1014	1183	1352	1521		
24 x 18	2.05	615	820	1025	1230	1435	1640	1845		
30 x 18	2.61	783	1044	1305	1566	1827	2088	2349		
24 x 24	2.77	831	1108	1385	1662	1939	2216	2493		
36 x 18	3.13	939	1252	1565	1878	2191	2504	2817		
30 x 24	3.50	1050	1400	1750	2100	2450	2800	3150		
36 x 24	4.21	1263	1684	2105	2526	2947	3368	3789		
36 x 30	5.29	1587	2116	2645	3174	3703	4332	4761		
48 x 24	5.55	1665	2220	2775	3330	3885	4440	4995		
48 x 30	6.98	2094	2792	3490	4188	4886	5584	6282		
48 x 36	8.38	2514	3352	4190	5028	5866	6704	7542		

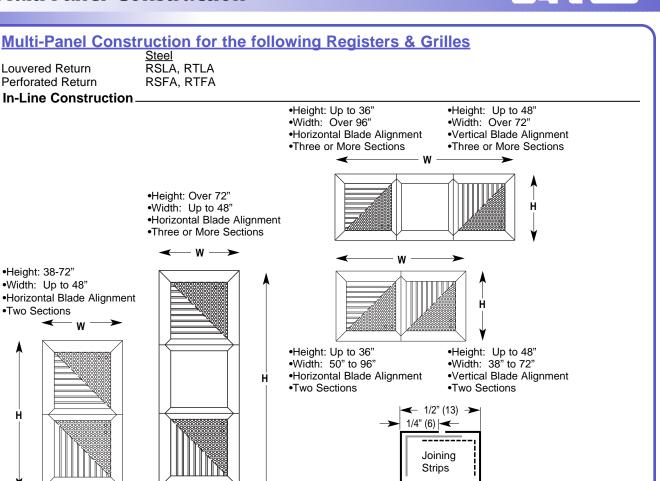
\* "Anemometer Effective Area" — Anemometer held directly against face.



## **Multi-Panel Construction**



## **Multi-Panel Construction**



Notes:

•Height: Over 96"

•Width: Up to 36"

•Vertical Blade Alignment

•Three or more Sections

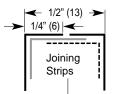
•Height: 50-96"

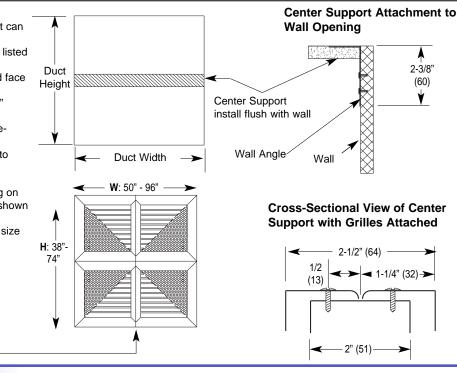
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- •Width: Up to 36" •Vertical Blade Alignment
- Two Sections

#### Ganged Construction \_ Notes:

- 1. Either the vertical or horizontal joint can be sheared down, but not both.
- 2. Maximum single panel width is 48" listed size.
- Maximum blade length on louvered face 3. models is listed size 48".
- 4. Maximum single panel height is 36" listed size.
- 5. Panels are made in even inch increments unless specified otherwise.
- 6. Blade alignment is always parallel to center support.
- 7. The center support can be aligned vertically or horizontally, depending on the blade alignment desired. It is shown here mounted horizontally.
- 8. Grille dimensions shown are listed size dimensions.





1. Panels will be made in even inch increments unless specified otherwise.

2. Dimensions shown are listed size dimensions.

4. Panels are sheared and aligned with joining strips.

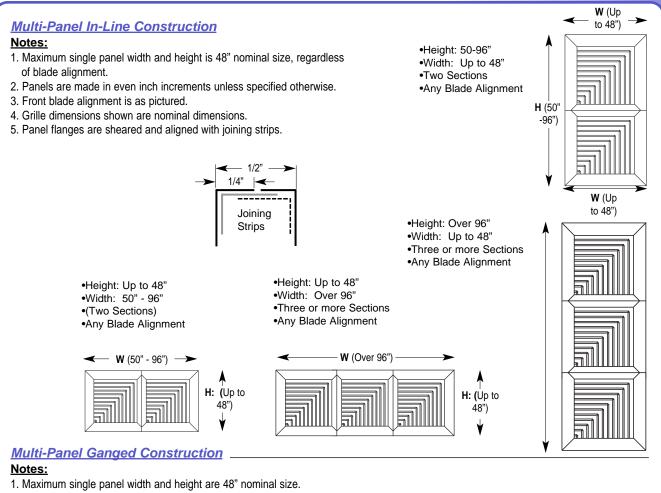
3. Max. blade length on louvered face models is nominal 48".

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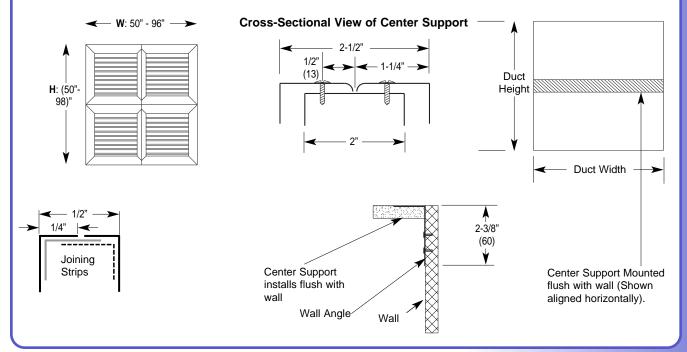
2-3/8"

(60)

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- 2. Panels are made in even inch increments unless specified otherwise.
- 3. Front blade alignment is always parallel to center support.
- 4. Either the vertical or horizontal joint can be sheared down, but not both.
- 5. The center support can be aligned vertically or horizontally, depending on blade alignment desired.
- 6. Grille dimensions shown are nominal dimensions.

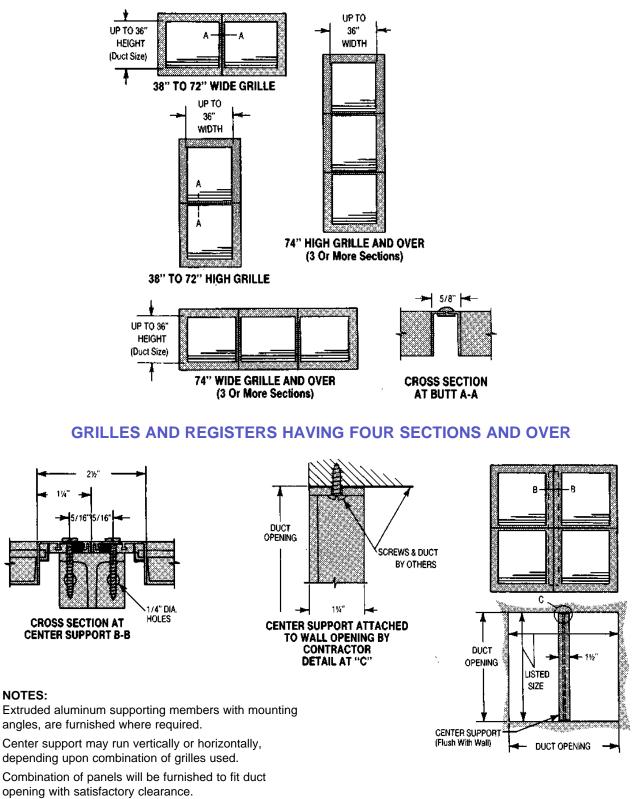


Sq. & Rect. Registers & Grilles

#### All Sections of Butted Grilles or Registers will be made in Listed Sizes as Standard.

#### STANDARD REGISTERS AND GRILLES

Applies to all models except louvered return air registers and grilles and door partition grilles. Registers and grilles over 36" x 36" butting two or more grilles together.



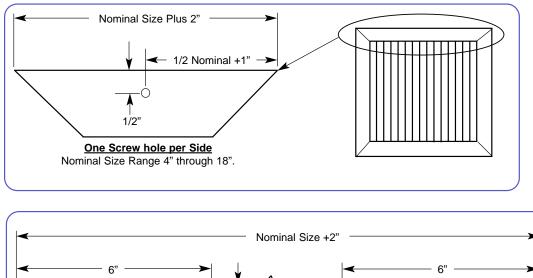
# CARNES<sup>®</sup>

#### Screw Hole Location for the following Registers & Grilles

	<u>Steel</u>	Aluminum	Stainless Steel
Single Deflection	RSSB, RTSB	RASM, RNSM	RLSB, RMSB, RKSB
Double Deflection	RSDB, RTDB	RADM, RNDM	RLDB, RMDB, RKDB
0° Fixed Return	RSRB, RTRB	RARM, RNRM	RLRB, RMRB, RKRB
45° Fixed Return	RSAB, RTAB	RAAM, RNAM	RLAB, RMAB, RKAB
Louvered Return	RSLA, RTLA		
Perforated Return	RSFA, RTFA	RAFM, RNFM	

#### Notes:

- Screw holes on the face are standard on Registers and Grilles.
- Steel R&G can be ordered without screw holes, for use with concealed hangers (Opt. N).
- The screw holes is 5/32" in diameter.
- Each Register or Grille is provided with the appropriate number of screws as standard.
- The standard screw is #8 x 1-1/4" pan head screw, with a flat blade head.
- Tamper-proof screws are available as an option (Opt. B).



#### Two Screw holes per Side Nominal Size Range 19" through 31".

