

**DESCRIPTION:**

RG : Single deflection Grilles, with adjustable horizontal or vertical blades.

RGH: Single deflection Grilles, with adjustable horizontal blades.

RGV: Single deflection Grilles, with adjustable vertical blades.

**MATERIAL :**

Specially extruded from 6063 aluminium profile.

**FUNCTION :**

It is used as air extraction and supply grille in air ventilation systems.

**FINISHING :**

- Standard finishing is durable white powder coat finish
- Standard colours are RAL 9010 and RAL 9016 . Other colours are available.

**INSTALLATION :**

- System with screws is standard.
- System with clips and plate spring is used if no hole is requested on the frame.

**ACCESSORIES:**

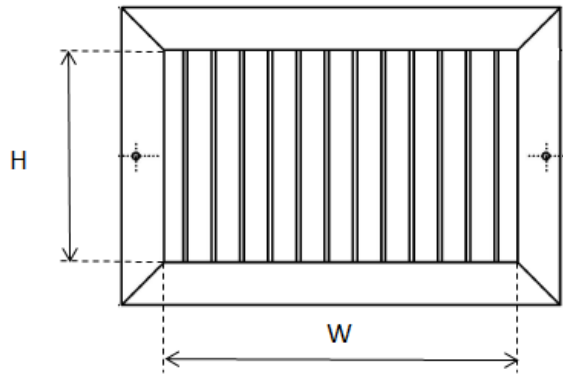
If desired, it is possible to add a damper to adjust the amount of air to be collected.

- Multi-Shutter Damper
- Opposed Blade Damper

PK: Plenum Box



**STANDARD SIZES (in) :**



**AVAILABLE SIZES (in.) - Always width x height**

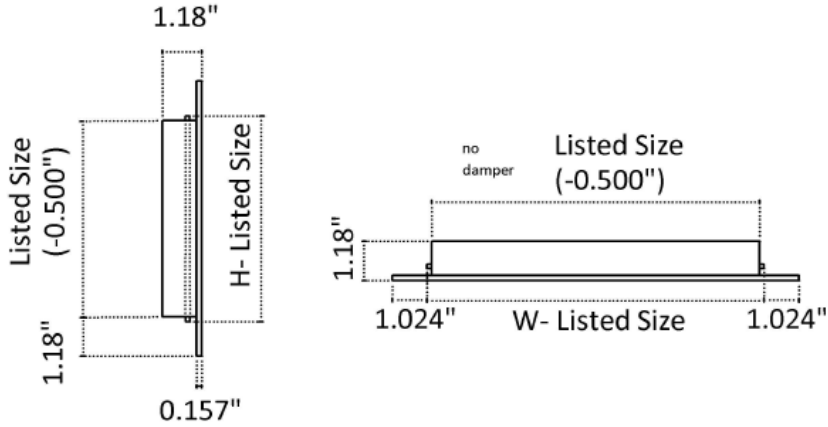
HEIGHT	WIDHT										
	6	8	10	12	14	16	18	20	24	30	36
4	X	X	X	X	X	X	X	X	X	X	
5		X	X	X	X						
6	X	X	X	X	X	X	X	X	X	X	X
8		X	X	X	X	X	X	X	X	X	X
10			X	X	X	X	X	X	X	X	X
12				X	X	X	X	X	X	X	X
14					X	X	X	X	X	X	X
16						X	X	X	X	X	X
18							X	X	X	X	X
20								X	X	X	X
24									X	X	X

\* Any combination of these sizes

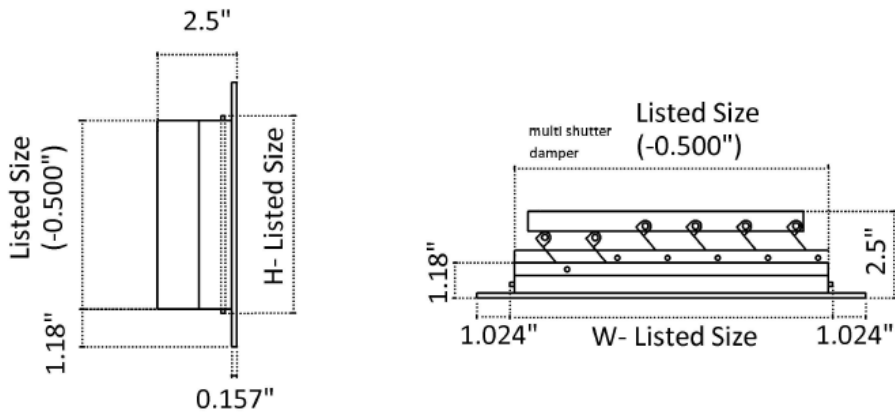


**DRAWINGS:**

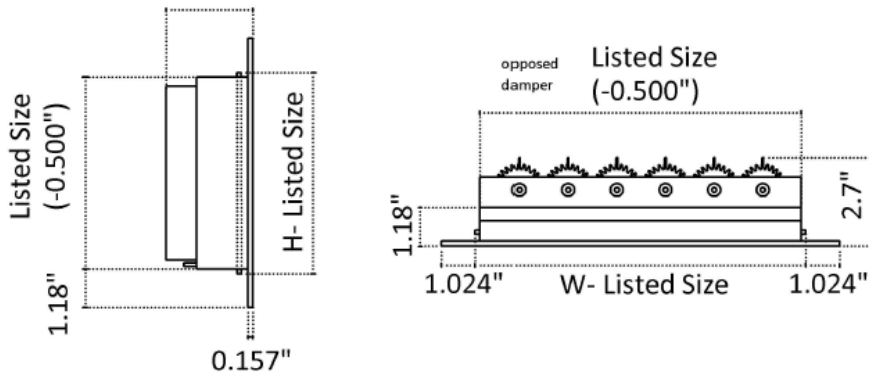
**RG - SINGLE DEFLECTION GRILLES (without damper)**



**RG- MULTI SHUTTER DAMPER**



**RG- OPPOSED BLADE DAMPER**





## PERFORMANCE DATA

Face Jet Velocity	400	500	600	700	800	1000	1200	1400	1800	2000		
Total Pressure Loss	.010	.016	.022	.031	.040	.062	.090	.122	.202	.249		
Size	Free Area											
<b>6x6</b>	<b>25</b>	<b>CFM</b>	<b>72</b>	<b>90</b>	<b>109</b>	<b>127</b>	<b>145</b>	<b>180</b>	<b>215</b>	<b>250</b>	<b>320</b>	<b>354</b>
		Throw	7	9	11	12	14	17	20	24	29	34
	Ak = 0.179	NC	30	30	30	30	35	35	35	40	40	45
<b>8x4</b>	<b>22</b>	<b>CFM</b>	<b>60</b>	<b>80</b>	<b>94</b>	<b>110</b>	<b>124</b>	<b>155</b>	<b>184</b>	<b>220</b>	<b>280</b>	<b>310</b>
		Throw	7	9	10	12	13	16	19	23	29	33
	Ak = 0.156	NC	30	30	30	30	35	35	35	40	40	45
<b>10x4</b>	<b>28</b>	<b>CFM</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>200</b>	<b>240</b>	<b>273</b>	<b>353</b>	<b>393</b>
		Throw	8	10	12	13	15	19	22	26	29	37
	Ak = 0.199	NC	30	30	30	30	35	35	35	40	40	45
<b>10x6</b>	<b>45</b>	<b>CFM</b>	<b>123</b>	<b>153</b>	<b>183</b>	<b>213</b>	<b>250</b>	<b>310</b>	<b>370</b>	<b>433</b>	<b>560</b>	<b>620</b>
		Throw	9	12	14	16	19	23	28	33	42	46
	Ak = 0.310	NC	30	30	30	30	35	35	35	40	40	45
<b>10x8</b>	<b>61</b>	<b>CFM</b>	<b>170</b>	<b>215</b>	<b>258</b>	<b>296</b>	<b>338</b>	<b>424</b>	<b>509</b>	<b>595</b>	<b>766</b>	<b>847</b>
		Throw	10	13	17	18	21	28	31	36	47	52
	Ak = 0.424	NC	30	30	30	30	35	35	35	40	45	45
<b>10X10</b>		<b>CFM</b>	<b>220</b>	<b>273</b>	<b>330</b>	<b>387</b>	<b>440</b>	<b>550</b>	<b>663</b>	<b>775</b>	<b>987</b>	<b>1100</b>
		Throw	11	15	19	20	24	30	36	41	53	59
	Ak = 0.550	NC	30	30	30	30	35	35	35	40	45	45
<b>12x4</b>	<b>34</b>	<b>CFM</b>	<b>95</b>	<b>120</b>	<b>145</b>	<b>170</b>	<b>190</b>	<b>240</b>	<b>290</b>	<b>325</b>	<b>430</b>	<b>480</b>
		Throw	8	10	12	14	16	20	25	28	36	41
	Ak = 0.239	NC	30	30	30	30	35	35	35	40	40	45
<b>12x6</b>	<b>54</b>	<b>CFM</b>	<b>150</b>	<b>190</b>	<b>225</b>	<b>265</b>	<b>305</b>	<b>380</b>	<b>455</b>	<b>430</b>	<b>680</b>	<b>760</b>
		Throw	10	13	15	17	21	26	31	36	46	51
	Ak = 0.371	NC	30	30	30	30	35	35	35	40	40	45
<b>12x8</b>	<b>73</b>	<b>CFM</b>	<b>205</b>	<b>255</b>	<b>305</b>	<b>360</b>	<b>410</b>	<b>510</b>	<b>615</b>	<b>715</b>	<b>920</b>	<b>1025</b>
		Throw	11	15	18	21	24	30	34	39	50	56
	Ak = 0.511	NC	30	30	30	30	35	35	35	40	45	45
<b>12x10</b>	<b>104</b>	<b>CFM</b>	<b>260</b>	<b>325</b>	<b>385</b>	<b>450</b>	<b>515</b>	<b>645</b>	<b>775</b>	<b>905</b>	<b>1160</b>	<b>1290</b>
		Throw	13	18	21	24	28	33	43	47	60	67
	Ak = 0.645	NC	30	30	30	30	35	35	35	40	40	45
<b>12x12</b>	<b>120</b>	<b>CFM</b>	<b>310</b>	<b>385</b>	<b>465</b>	<b>540</b>	<b>615</b>	<b>770</b>	<b>925</b>	<b>1080</b>	<b>1380</b>	<b>1540</b>
		Throw	15	19	23	26	30	38	45	53	68	75
	Ak = 0.771	NC	30	30	30	30	35	35	35	40	45	45
<b>14x4</b>	<b>43</b>	<b>CFM</b>	<b>115</b>	<b>140</b>	<b>170</b>	<b>195</b>	<b>224</b>	<b>280</b>	<b>340</b>	<b>395</b>	<b>510</b>	<b>565</b>
		Throw	9	11	13	15	18	22	27	32	40	44
	Ak = 0.282	NC	30	30	30	30	35	35	35	40	40	45
<b>14x6</b>	<b>64</b>	<b>CFM</b>	<b>180</b>	<b>225</b>	<b>270</b>	<b>310</b>	<b>355</b>	<b>445</b>	<b>535</b>	<b>625</b>	<b>805</b>	<b>890</b>
		Throw	11	14	18	19	22	29	33	39	50	55
	Ak = 0.447	NC	30	30	30	30	35	35	35	40	45	45
<b>14x8</b>	<b>74.52</b>	<b>CFM</b>	<b>212</b>	<b>258</b>	<b>313</b>	<b>368</b>	<b>419</b>	<b>520</b>	<b>626</b>	<b>730</b>	<b>938</b>	<b>1049</b>
		Throw	11	14	18	20	23	29	33	39	50	55
	Ak = 0.522	NC	30	30	30	30	35	35	35	40	45	45
<b>14x12</b>	<b>139.2</b>	<b>CFM</b>	<b>360</b>	<b>447</b>	<b>539</b>	<b>626</b>	<b>713</b>	<b>893</b>	<b>1073</b>	<b>1253</b>	<b>1601</b>	<b>1786</b>
		Throw	16	20	22	27	31	38	46	54	69	77
	Ak = 0.894	NC	30	30	30	30	35	35	35	40	45	45
<b>14x14</b>	<b>155</b>	<b>CFM</b>	<b>430</b>	<b>535</b>	<b>640</b>	<b>745</b>	<b>855</b>	<b>1070</b>	<b>1280</b>	<b>1490</b>	<b>1920</b>	<b>2130</b>
		Throw	17	21	23	30	34	43	51	60	77	85
	Ak = 1.068	NC	30	30	30	30	35	35	35	40	45	45



Face Jet Velocity	400	500	600	700	800	1000	1200	1400	1800	2000		
Total Pressure Loss	.010	.016	.022	.031	.040	.062	.090	.122	.202	.249		
Size	Free Area											
<b>16x4</b>	<b>48.5</b>	<b>CFM</b>	<b>133</b>	<b>165</b>	<b>198</b>	<b>230</b>	<b>265</b>	<b>330</b>	<b>398</b>	<b>413</b>	<b>595</b>	<b>663</b>
		Throw	10	12	14	17	20	24	29	34	43	48
Ak = 0.327		NC	30	30	30	30	35	35	35	40	40	45
<b>16x6</b>	<b>73</b>	<b>CFM</b>	<b>205</b>	<b>255</b>	<b>305</b>	<b>360</b>	<b>410</b>	<b>510</b>	<b>615</b>	<b>715</b>	<b>920</b>	<b>1025</b>
		Throw	11	15	18	21	24	30	34	39	50	56
Ak = 0.511		NC	30	30	30	30	35	35	35	40	45	45
<b>16x8</b>	<b>81</b>	<b>CFM</b>	<b>230</b>	<b>280</b>	<b>340</b>	<b>400</b>	<b>455</b>	<b>565</b>	<b>680</b>	<b>795</b>	<b>1020</b>	<b>1140</b>
		Throw	11	15	18	21	24	30	34	39	50	56
Ak = 0.568		NC	30	30	30	30	35	35	35	40	45	45
<b>16x16</b>	<b>208</b>	<b>CFM</b>	<b>567</b>	<b>709</b>	<b>851</b>	<b>992</b>	<b>1134</b>	<b>1418</b>	<b>1701</b>	<b>1985</b>	<b>2552</b>	<b>2835</b>
		Throw	19	23	27	32	35	45	56	65	85	93
Ak = 1.418		NC	30	30	30	30	35	35	35	40	45	45
<b>18x6</b>	<b>98</b>	<b>CFM</b>	<b>250</b>	<b>310</b>	<b>380</b>	<b>440</b>	<b>500</b>	<b>630</b>	<b>755</b>	<b>895</b>	<b>1120</b>	<b>1250</b>
		Throw	12	16	20	22	25	31	40	46	58	65
Ak = 0.628		NC	30	30	30	30	35	35	35	40	45	45
<b>18x18</b>	<b>255</b>	<b>CFM</b>	<b>713</b>	<b>891</b>	<b>1069</b>	<b>1253</b>	<b>1431</b>	<b>1787</b>	<b>2155</b>	<b>2500</b>	<b>3213</b>	<b>3575</b>
		Throw	21	26	31	37	42	52	63	73	94	104
Ak = 1.787		NC	30	30	30	30	35	35	40	40	45	45
<b>20x6</b>	<b>104</b>	<b>CFM</b>	<b>260</b>	<b>325</b>	<b>385</b>	<b>450</b>	<b>515</b>	<b>645</b>	<b>775</b>	<b>905</b>	<b>1160</b>	<b>1290</b>
		Throw	13	18	21	24	28	33	43	47	60	67
Ak = 0.645		NC	30	30	30	30	35	35	35	40	45	45
<b>20x8</b>	<b>126</b>	<b>CFM</b>	<b>335</b>	<b>440</b>	<b>530</b>	<b>615</b>	<b>705</b>	<b>880</b>	<b>1080</b>	<b>1236</b>	<b>1590</b>	<b>1780</b>
		Throw	17	20	24	28	32	39	47	55	70	78
Ak = 0.880		NC	30	30	30	30	35	35	35	40	45	45
<b>20x20</b>	<b>314</b>	<b>CFM</b>	<b>973</b>	<b>1217</b>	<b>1462</b>	<b>1706</b>	<b>1944</b>	<b>2434</b>	<b>2924</b>	<b>3435</b>	<b>4378</b>	<b>4867</b>
		Throw	24	30	35	41	46	59	70	82	102	116
Ak = 2.436		NC	30	30	30	35	35	35	40	40	45	45
<b>22x12</b>	<b>208</b>	<b>CFM</b>	<b>598</b>	<b>748</b>	<b>898</b>	<b>1048</b>	<b>1195</b>	<b>1495</b>	<b>1795</b>	<b>2093</b>	<b>2690</b>	<b>2990</b>
		Throw	20	26	31	36	41	51	61	72	92	102
Ak = 1.495		NC	30	30	30	30	35	35	35	40	45	45
<b>24x6</b>	<b>120</b>	<b>CFM</b>	<b>310</b>	<b>390</b>	<b>465</b>	<b>545</b>	<b>620</b>	<b>775</b>	<b>930</b>	<b>1090</b>	<b>1400</b>	<b>1555</b>
		Throw	15	18	22	26	28	37	44	51	66	73
Ak = 0.777		NC	30	30	30	30	35	35	35	40	45	45
<b>24x8</b>	<b>151</b>	<b>CFM</b>	<b>425</b>	<b>530</b>	<b>635</b>	<b>740</b>	<b>850</b>	<b>1060</b>	<b>1270</b>	<b>1485</b>	<b>1910</b>	<b>2120</b>
		Throw	17	21	23	30	34	44	51	60	77	85
Ak = 1.060		NC	30	30	30	30	35	35	35	40	45	45
<b>24x10</b>	<b>189</b>	<b>CFM</b>	<b>540</b>	<b>675</b>	<b>810</b>	<b>945</b>	<b>1080</b>	<b>1350</b>	<b>1620</b>	<b>1890</b>	<b>2430</b>	<b>2700</b>
		Throw	19	24	29	34	39	48	58	68	87	97
Ak = 1.350		NC	30	30	30	30	35	35	35	40	45	45
<b>24x12</b>	<b>227</b>	<b>CFM</b>	<b>655</b>	<b>820</b>	<b>985</b>	<b>1150</b>	<b>1310</b>	<b>1640</b>	<b>1970</b>	<b>2295</b>	<b>2950</b>	<b>3280</b>
		Throw	21	27	32	38	43	53	64	75	96	107
Ak = 1.640		NC	30	30	30	30	35	35	40	40	45	45
<b>30x6</b>	<b>140</b>	<b>CFM</b>	<b>390</b>	<b>490</b>	<b>585</b>	<b>685</b>	<b>780</b>	<b>975</b>	<b>1170</b>	<b>1385</b>	<b>1755</b>	<b>1950</b>
		Throw	16	21	25	29	33	41	49	57	74	82
Ak = 0.977		NC	30	30	30	30	35	35	35	40	45	45
<b>30x8</b>	<b>188</b>	<b>CFM</b>	<b>535</b>	<b>670</b>	<b>805</b>	<b>940</b>	<b>1070</b>	<b>1340</b>	<b>1610</b>	<b>1875</b>	<b>2410</b>	<b>2680</b>
		Throw	19	24	29	34	38	48	58	67	87	96
Ak = 1.340		NC	30	30	30	30	35	35	35	40	45	45

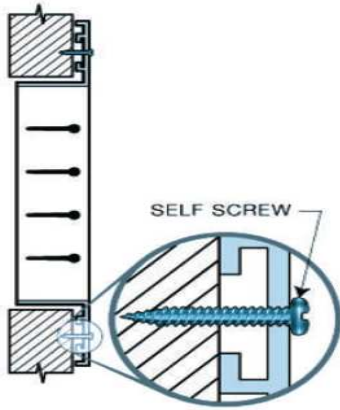
Velocity: The actual velocity of the air through the vanes measured with a velometer or similar device.

Throw : The throws listed in the table is the distance from the register to where the air stream velocity is no less than 75 F.P.M.



**MOUNTING DETAILS**

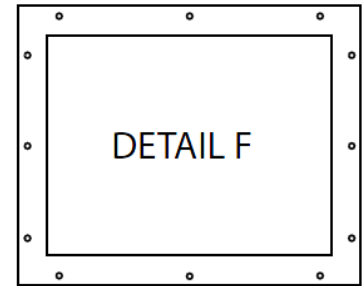
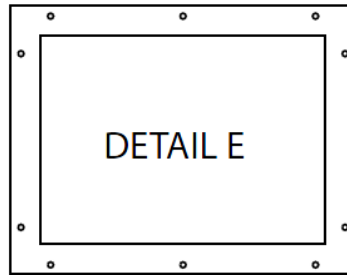
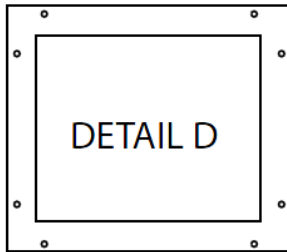
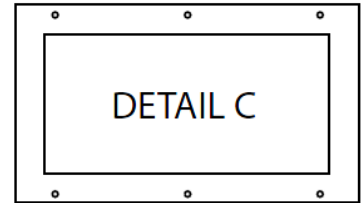
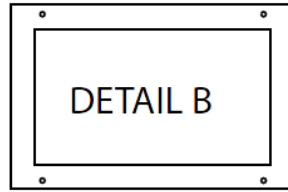
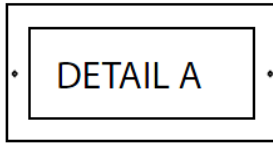
1. Screw Mounting Details



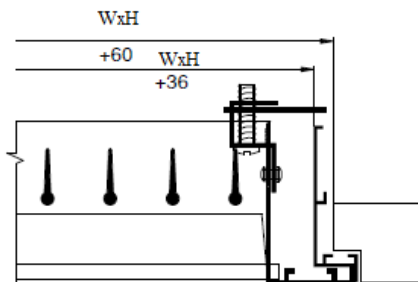
Mounting Hole Guide for Products

The following products in this section have embossed (recessed) mounting holes.

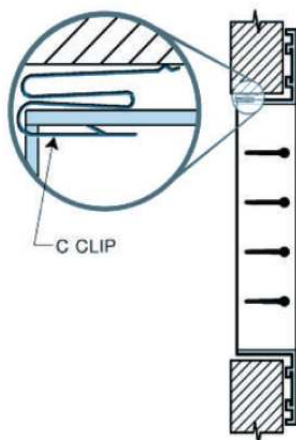
		WIDHT																					
		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	
HEIGHT	4																						
	5																						
	6			<b>A</b>							<b>B</b>												
	8			<b>2 Holes</b>							<b>4 Holes</b>										<b>C</b>		
	10																				<b>6 Holes</b>		
	12																						
	14																						
	16																						
	18																						
	20																						
	22			<b>B</b>								<b>D</b>									<b>E</b>		
	24			<b>4 Holes</b>								<b>8 Holes</b>								<b>10 Holes</b>			
	26																						
	28																						
30																							
32			<b>C</b>								<b>E</b>									<b>F</b>			
34			<b>6 Holes</b>								<b>10 Holes</b>								<b>12 Holes</b>				
36																							
38																							



## 2. Clips Latch Mounting Details



## 3. Clips Spring Mounting Details

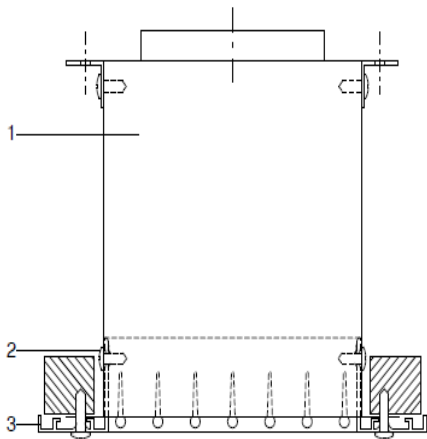




**RETURN GRILLES PLENUM BOX MOUNTING DETAILS**

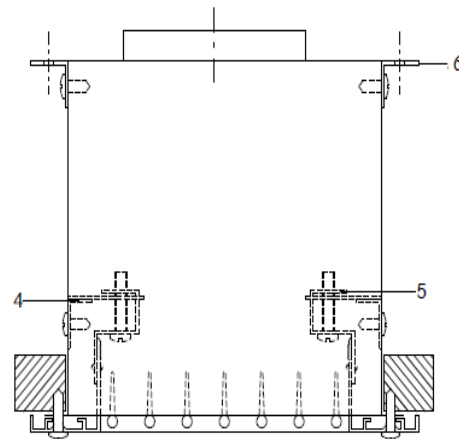
**1 – TOP ENTRY PLENUM BOX MOUNTING DETAILS**

SUPPLY GRILE + PLENUM BOX  
STANDARD MOUNTING



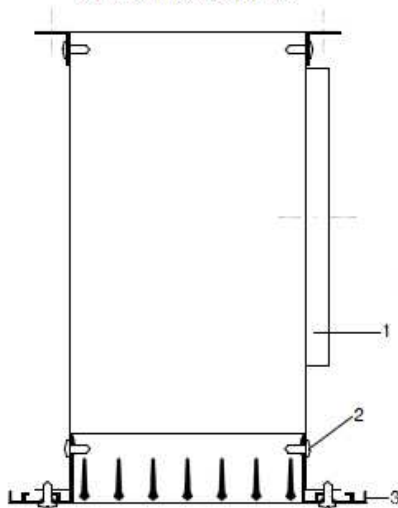
- 1 - Plenum Box
- 2 - Screw
- 3 - Supply Grille
- 4 - Profil for clips
- 5 - Clips
- 6 - Hook Pieces

SUPPLY GRILE + PLENUM BOX  
STANDARD CLIPS MOUNTING



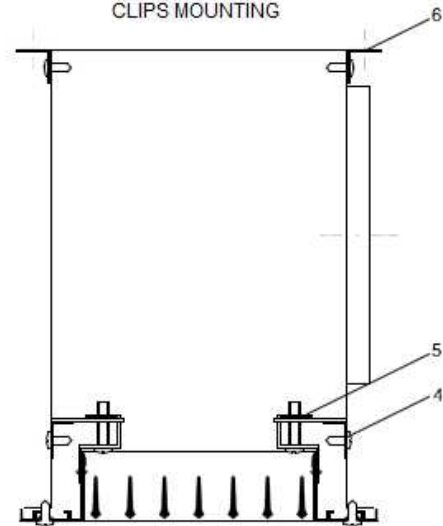
**2 - SID ENTRY PLENUM BOX MOUNTING DETAILS**

SUPPLY GRILE + PLENUM BOX  
STANDARD MOUNTING



- 1 - Plenum Box
- 2 - Screw
- 3 - Supply Grille
- 4 - Profil for Clips
- 5 - Clips
- 6 - Hook Pieces

SUPPLY GRILE + PLENUM BOX  
CLIPS MOUNTING







**FINISHES**



**POWDER COAT**



WHITE



PURE WHITE



OFF WHITE



GREY



SILVER



BLACK

**ANODIZED**



AC ANODIZED CLEAR



ACH ANODIZED  
CHAMPAGNE



ALB ANODIZED  
LIGHT BRONZE



AMB ANODIZED  
MEDIUM  
BRONZE



ADB ANODIZED  
DARK BRONZE



AB ANODIZED BLACK

**OTHER FINISHES**



**MILL**

Available on aluminum products. Untreated from the mill, unpainted.



**CUSTOM**

Custom colors and simulated anodized finishes can be accurately matched to supplied color samples.



**RAL**

RAL Catalog Colors



**ORDER CODES**

RG	V	WD	01	SM	N 300X200
RG-H: Horizontal Blade RG-V: Vertical Blade		WD- WITHOUT DAMPER MD- MULTI SHUTTER DAMPER OD- OPPOSED BLADE DAMPER	01.White - 02.OFF White - 03. Silver 06.Mill Finish (without coating) 04.Anodized Coating - 05.Black 07.Custom-08.RAL Catalog Colors	SM: Screw Mounting CLM: Clips Latch Mounting CSM: Clips Spring Mounting	N: Neck Size Listed Size F: Frame Size