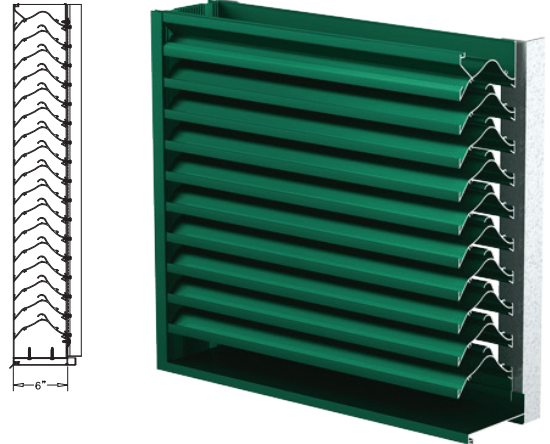
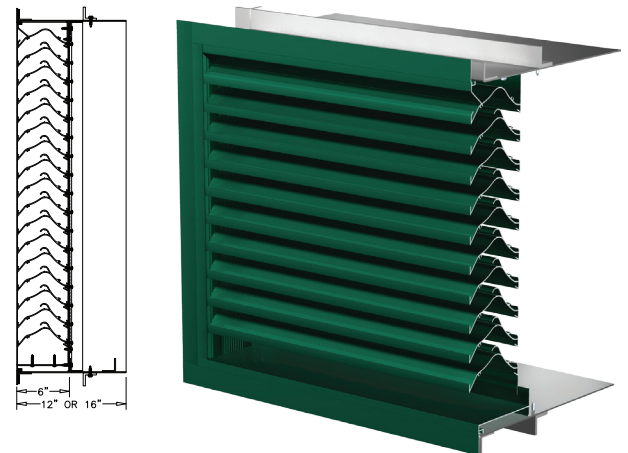


**MIAMI-DADE APPROVED**  
**STORM CLASS<sup>™</sup> LOUVER**

<b>Visible Mullion Louver Type</b> .....	SCH601MD
<b>Material</b> .....	Extruded Aluminum (Alloy 6063-T5)
<b>Exterior Louver Blade &amp; Frame</b> .....	0.081 in. (2.06 mm)
<b>Interior Damper Blade &amp; Frame</b> .....	0.081 in. (2.06 mm)
<b>Louver Depth</b> .....	6 in. (152.4 mm)
<b>Free Area – 4 ft. x 4 ft. Unit</b> .....	7.18 sq. ft. (0.67 m <sup>2</sup> )
<b>Percent Free Area</b> .....	44.9%
<b>Free Area Velocity at Beginning Point of Water Penetration – 0.01 oz H<sub>2</sub>O/sq. ft. Free Area</b> .....	
above 1,250 fpm (6.35 m/s)	
<b>Air Volume Flow Rate at Beginning Point of Water Penetration – 4 ft. x 4 ft. Unit</b> .....	
above 8,975 cfm (4.24 m <sup>3</sup> /s)	
<b>Pressure Drop at Beginning Point of Water Penetration</b> .....	
0.35 in. H <sub>2</sub> O (0.087 kPa)	
<b>Wind-Driven Rain Water Penetration Data</b>	
Exterior Wind Velocity .....	29 mph (13 m/s)
Rainfall Rate .....	.3 in. (75 mm)/hour
Effectiveness .....	.99.0%
Core Ventilation Rate .....	579 fpm (2.9 m/s)
Exterior Wind Velocity .....	50 mph (22 m/s)
Rainfall Rate .....	.8 in. (200 mm)/hour
Effectiveness .....	.99.2%
Core Ventilation Rate .....	291 fpm (1.5 m/s)
<b>Maximum Qualified Wind Design Load</b> .....	
+/- 150 PSF (7.2 kPa)	

**Channel Frame Installation**

**Flange/Sleeve Installation**

**RECOMMENDED SPECIFICATION**
**GENERAL**

Furnish and install where indicated on plans or described in schedules Storm Class<sup>™</sup> Louver Type SCH601MD as designed and manufactured by The Airlite Company LLC, Schofield, Wisconsin. Louvers shall be Florida Building Code approved for use in the High Velocity Hurricane Zone and Miami-Dade approved for installations where the enclosed space is designed to drain or otherwise accommodate water penetration (wet rooms). Louvers shall be furnished with bird screen, insect screen, sill pans, supports, installation hardware and finishes as specified and as required for a complete installation.

**SUBMITTALS**

Manufacturer shall submit shop drawings incorporating key plans, elevations, sections and details showing profiles, angles and spacing of louver blades and frames; unit dimensions related to wall openings and construction; and, anchorage details and locations. For each type of product specified, submit free area, air performance, water penetration and wind-driven rain water penetration ratings determined in accordance with AMCA Standard 500-L and licensed under the AMCA Certified Ratings Program. Include Miami-Dade Notice of Acceptance to demonstrate compliance with applicable code. Provide samples of manufacturer's finish and color charts showing the full range of colors available.

**PRODUCTS**

Louvers shall be Florida Building Code and Miami-Dade Approved Storm Class<sup>™</sup> Louver Type SCH601MD. Louvers shall be 6-inches (152.4 mm) deep and assembled entirely from extruded aluminum

components. Louver blades and frames shall be 0.081-inch (2 mm) thick aluminum, alloy 6063-T5. Blades shall be horizontal, inverted V-type with center hook and spaced 2-inches on center.

**STRUCTURAL DESIGN CRITERIA**

Louvers shall be certified to comply with the requirements of Miami-Dade protocols TAS-201, TAS-202 and TAS-203 and Miami-Dade approved for building envelope protection for single unit sizes up to 6-foot wide x 12-foot high for wet room protection. Louvers shall be tested for wind forces up to 150 psf. Louvers must be secured to a structural substrate in accordance with Dade County Product Approval Drawings. In addition, the structural substrate must be designed to accommodate the point loads transferred by the louvers when subject to the design wind loads. Structural reinforcing members along with any associated installation hardware is not provided by Airlite unless indicated otherwise by Airlite. Options and are not subject to structural analysis unless indicated otherwise by Airlite.

**PERFORMANCE RATINGS**

FREE AREA:	7.18 Square Feet (0.67 m <sup>2</sup> )
MINIMUM FREE AREA VELOCITY at Beginning Point of Water Penetration:	1,250 fpm (6.35 m/s)
MINIMUM AIR VOLUME FLOW RATE at Beginning Point of Water Penetration:	8,975 cfm (4.24 m <sup>3</sup> /s)
MAXIMUM STATIC PRESSURE at Beginning Point of Water Penetration:	0.35 in. H <sub>2</sub> O (0.087 kPa)

See page 2 for complete Wind-driven Rain Performance

# LOUVER TYPE SCH601MD PERFORMANCE RATINGS

## FREE AREA CHART - in square feet

Louver Height Inches	Louver Width in Inches											
	12	18	24	30	36	42	48	54	60	66	72	72.75
7	0.08	0.13	0.19	0.24	0.30	0.34	0.39	0.44	0.50	0.55	0.60	0.61
12	0.23	0.38	0.53	0.69	0.84	0.95	1.10	1.26	1.41	1.56	1.71	1.73
18	0.46	0.75	1.05	1.35	1.65	1.88	2.18	2.48	2.77	3.07	3.37	3.41
24	0.68	1.13	1.57	2.02	2.47	2.80	3.25	3.69	4.14	4.59	5.04	5.09
30	0.90	1.50	2.09	2.69	3.28	3.73	4.32	4.91	5.51	6.10	6.70	6.77
36	1.05	1.75	2.44	3.13	3.82	4.34	5.04	5.73	6.42	7.11	7.81	7.89
42	1.28	2.12	2.96	3.80	4.64	5.27	6.11	6.95	7.79	8.63	9.47	9.57
48	1.50	2.49	3.48	4.46	5.45	6.19	7.18	8.17	9.16	10.14	11.13	11.25
54	1.73	2.86	4.00	5.13	6.27	7.12	8.25	9.39	10.52	11.66	12.79	12.93
60	1.95	3.23	4.52	5.80	7.08	8.04	9.32	10.61	11.89	13.17	14.45	14.61
66	2.17	3.60	5.03	6.46	7.89	8.97	10.40	11.83	13.26	14.69	16.12	16.30
72	2.32	3.85	5.38	6.91	8.44	9.58	11.11	12.64	14.17	15.70	17.22	17.42
78	2.55	4.22	5.90	7.58	9.25	10.51	12.18	13.86	15.54	17.21	18.89	19.10
84	2.77	4.60	6.42	8.24	10.07	11.43	13.26	15.08	16.90	18.73	20.55	20.78
90	3.00	4.97	6.94	8.91	10.88	12.36	14.33	16.30	18.27	20.24	22.21	22.46
96	3.22	5.34	7.46	9.58	11.69	13.28	15.40	17.52	19.64	21.76	23.87	24.14
102	3.37	5.59	7.80	10.02	12.24	13.90	16.12	18.33	20.55	22.77	24.98	25.26
108	3.60	5.96	8.32	10.69	13.05	14.82	17.19	19.55	21.92	24.28	26.64	26.94
114	3.82	6.33	8.84	11.35	13.87	15.75	18.26	20.77	23.28	25.79	28.31	28.62
120	4.04	6.70	9.36	12.02	14.68	16.67	19.33	21.99	24.65	27.31	29.97	30.30
126	4.27	7.07	9.88	12.69	15.49	17.60	20.41	23.21	26.02	28.82	31.63	31.98
132	4.49	7.45	10.40	13.35	16.31	18.52	21.48	24.43	27.39	30.34	33.29	33.66
138	4.64	7.69	10.75	13.80	16.85	19.14	22.19	25.24	28.30	31.35	34.40	34.78
144	4.87	8.07	11.27	14.47	17.67	20.06	23.26	26.46	29.66	32.86	36.06	36.46
144.5	4.87	8.07	11.27	14.47	17.67	20.06	23.26	26.46	29.66	32.86	36.06	36.46



The Airo-lite Company, LLC certifies that Louver Type SCH601MD shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Water Penetration, Air Performance and Wind-driven Rain.



**IMPACT RESISTANT LOUVER**  
Enhanced Protection Level E

See www.AMCA.org for all certified or listed products

This label does not signify AMCA airflow performance certification.

Without factory attached VCD-40 damper



**HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY CLOSED AND IMPACT RESISTANT LOUVER**  
Enhanced Protection Level E

See www.AMCA.org for all certified or listed products

This label does not signify AMCA airflow performance certification.

With factory attached VCD-40 damper in the closed position

The Airo-lite Company LLC certifies that the SCH601MD louvers shown herein are approved to bear the AMCA Listing Label. The Ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program. The AMCA Listing Label applies to Wind Borne Debris Impact Resistant Louvers and (with the optional VCD-40 damper in the closed position) High Velocity Wind Driven Rain Resistant Louvers.

## WATER PENETRATION

(Standard Air - .075 lb./ft.<sup>3</sup>; Test Size - 48 in. x 48 in.; Test Duration - 15 min.)

The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through 0.01 oz. of water (penetration) per sq. ft. of louver free area. These performance ratings do not guarantee a louver to be weather-proof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers. **\*The beginning point of water penetration for Model SCH601MD is above 1,250 fpm (6.35 m/s) free area velocity.**

## WIND-DRIVEN RAIN PERFORMANCE

75mm/h (3 in/hr) Rainfall & 13 m/s (29 mph) Wind Velocity				200mm/h (8 in/hr) Rainfall & 22 m/s (50 mph) Wind Velocity			
Ventilation Air Core Velocity m/s (fpm)	Free Area Velocity m/s (fpm)	Water Penetration Effectiveness %	Water Penetration Classification	Ventilation Air Core Velocity m/s (fpm)	Free Area Velocity m/s (fpm)	Water Penetration Effectiveness %	Water Penetration Classification
0.0 (0)	0.0 (0)		A	0.0 (0)	0.0 (0)		A
0.5 (98)	0.9 (181)		A	0.5 (100)	0.9 (185)	99.2	A
1.0 (197)	1.9 (365)		A	1.0 (194)	1.8 (359)	99.2	A
1.5 (295)	2.8 (546)		A	1.5 (291)	2.7 (539)	99.2	A
1.9 (376)	3.5 (696)	99.9	A	2.0 (401)	3.8 (742)	98.6	B
2.4 (472)	4.4 (874)	99.7	A	2.6 (505)	4.7 (935)	98.2	B
2.9 (579)	5.4 (1072)	99	A	2.9 (573)	5.4 (1061)	97.9	B
3.5 (684)	6.4 (1266)	98.9	B	3.5 (687)	6.5 (1272)	96.3	B
3.9 (769)	7.2 (1423)	98.2	B	4.0 (779)	7.3 (1442)	92.7	C
4.4 (868)	8.2 (1607)	90.2	C	4.4 (874)	8.2 (1618)	86.8	C
5.0 (993)	9.3 (1838)	80.6	C	4.9 (962)	9.0 (1781)	81.2	C

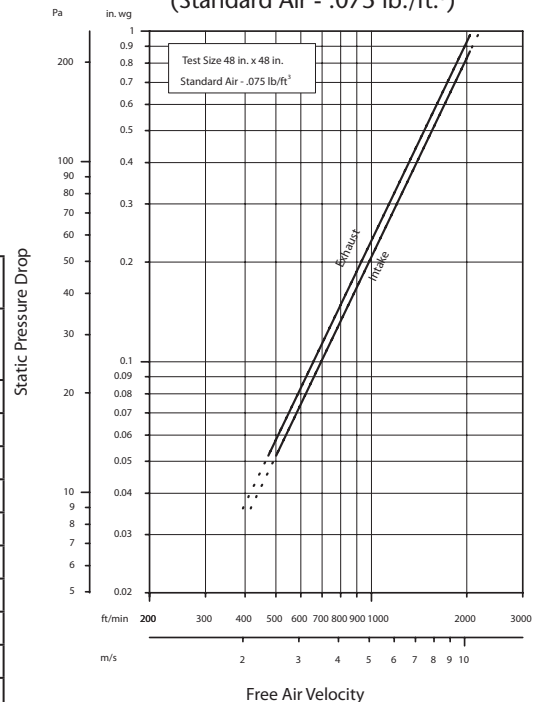
Discharge Loss Coefficient Class (Intake) = 2

Weather louvers shall be classified by their ability to reject simulated rain. The table to the right shows different classifications based on the maximum simulated rain penetration per square meter (square feet) of louver. Water penetration rating at a given louver face velocity is determined by the water penetration while the louver is subjected to a selected simulated rainfall rate and wind velocity. Ratings include the effect of a sill pan.

Discharge Loss Coefficient Classifications	
Class	Discharge Loss Coefficient
1	0.4 and Above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and Below

## AIRFLOW RESISTANCE

(Standard Air - .075 lb./ft.<sup>3</sup>)

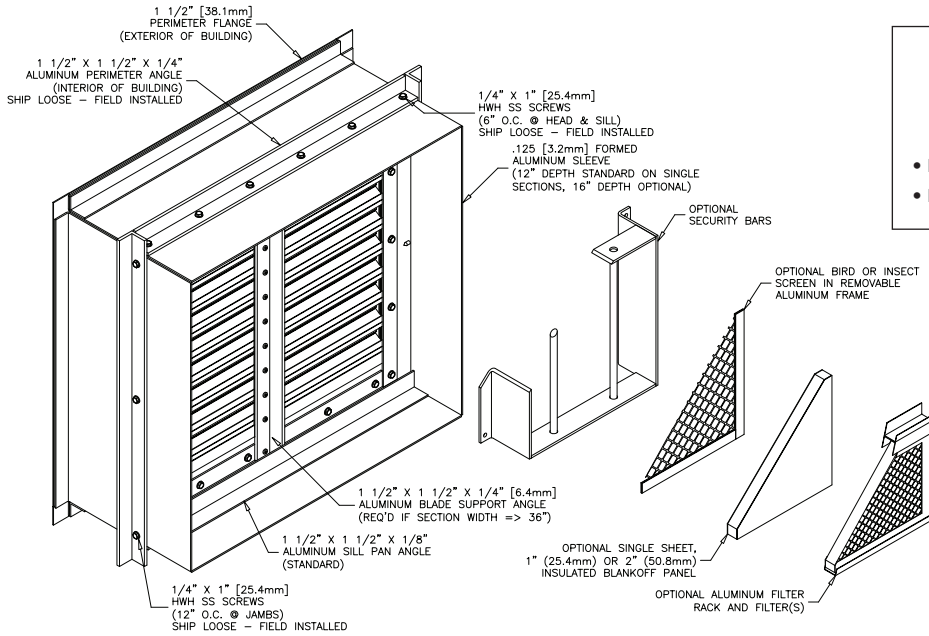


Louver Type SCH601MD resistance to airflow varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than the average velocity through the overall louver size.

Wind-driven Rain Penetration Classes	
Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.80

\* AMCA licensed performance data shown herein pertains only to the louver and does not include effects of the factory attached VCD-40 damper.

# LOUVER TYPE SCH601MD METHOD OF INSTALLATION & ACCESSORY OPTIONS

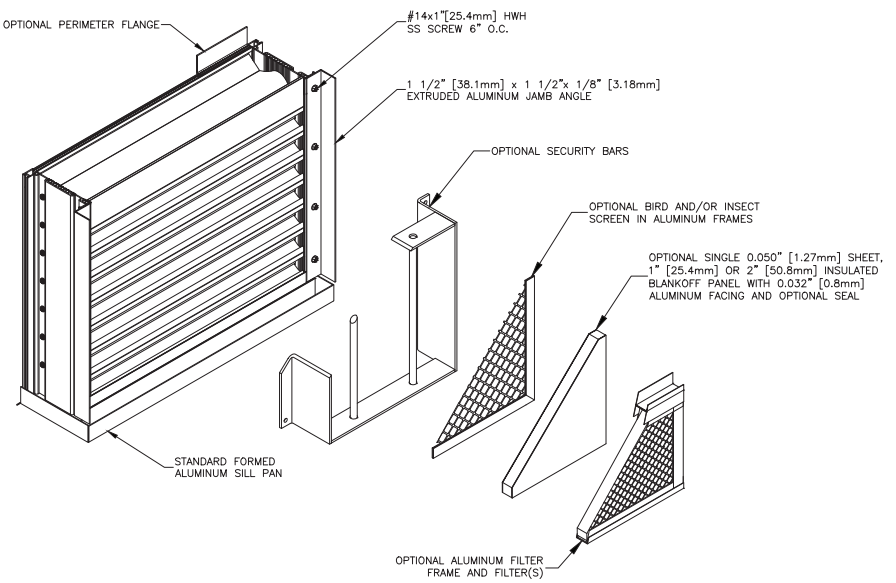


**Single Section Wide Flange/Sleeve Installation**

- Min. structure depth 4 in.
- Max. structure depth 10.5 in. (12 in. sleeve)
- Max. structure depth 14.5 in. (16 in. sleeve)

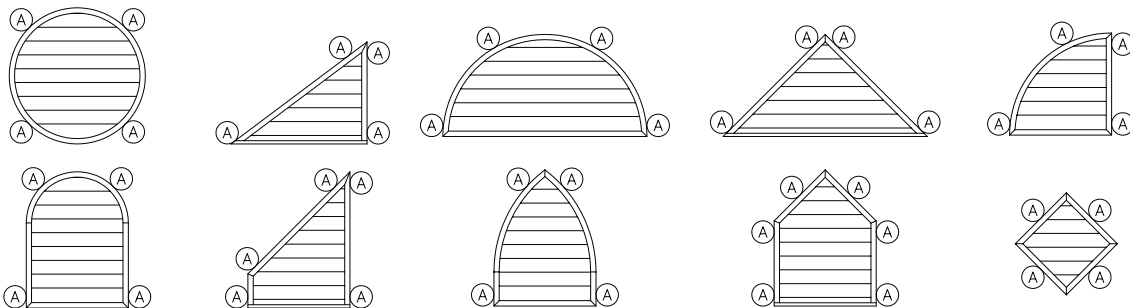
**Single Section Wide Channel Frame Installation**

- Reference the Installation, Operations and Maintenance Instructions (IOM)



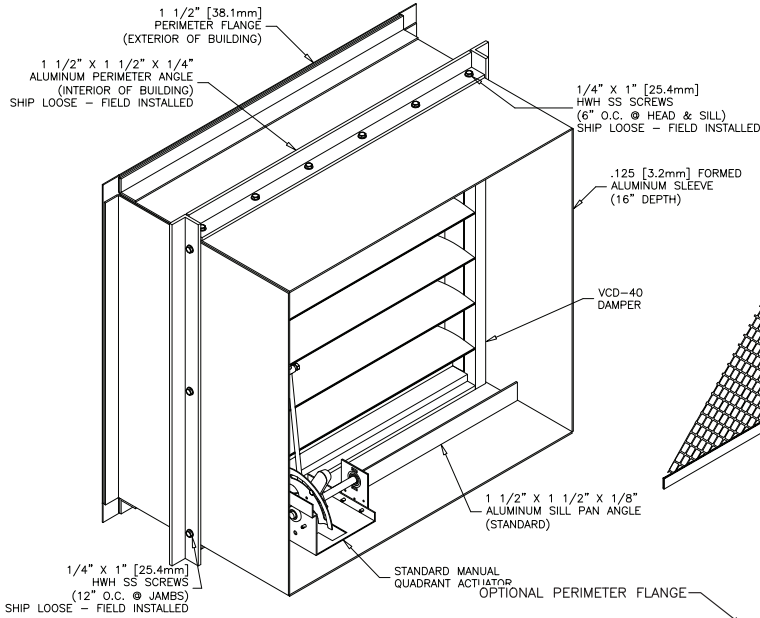
## INSTALLATION DETAILS

- Only available without the damper.
- Only available in single section configurations.
- Anodize finish is not available.
- AMCA licensed performance data is void.



Ⓐ Anchor points

# LOUVER TYPE SCH601MD with VCD-40 METHOD OF INSTALLATION & ACCESSORY OPTIONS

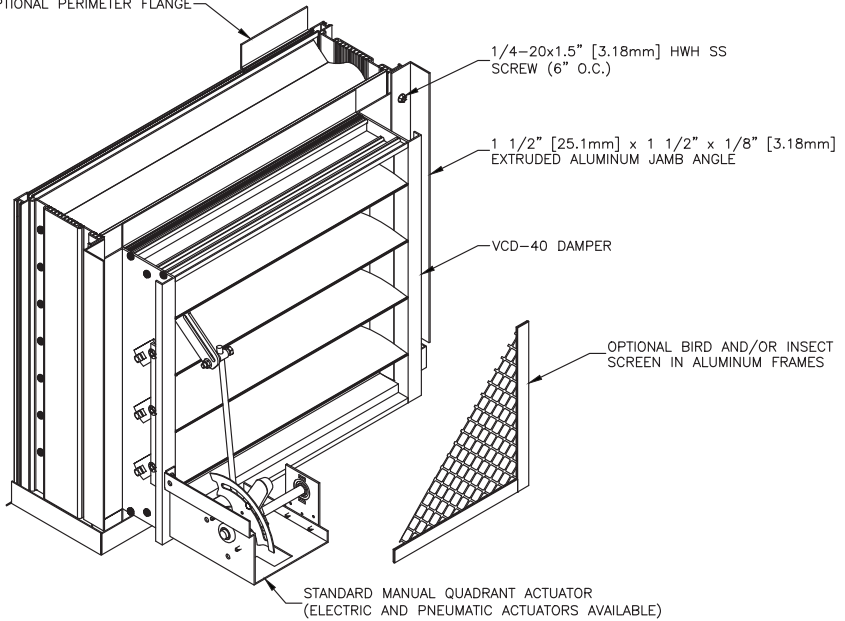


**Single Section Wide Flange/Sleeve Installation with VCD-40 Damper**

- Min. structure depth 4 in.
- Max. structure depth 14.5 in.

**Single Section Wide Channel Frame Installation with VCD-40 Damper**

- Reference the Installation, Operations and Maintenance Instructions (IOM)



## Building Condition/Substrate Limitations

### Flange/Sleeve Installation

- All wood substrate shall be G= 0.55 density or better
- All metal stud substrate should be min. 16 Ga. FY= 50 KSI
- All structural steel substrate shall be min. 0.25 in. thick FY= 36 KSI
- All concrete substrate shall be min. 3000 PSI
- Concrete masonry shall be ASTM C90, Type II, 2000 PSI, grout-filled

### Channel Installation

- All metal stud substrate should be min. 10 Ga. FY= 36 KSI
- All structural steel substrate shall be min. 0.125 in. thick FY= 36 KSI
- All concrete substrate shall be min. 4000 PSI (2000 PSI allowed with SDR)
- Concrete masonry shall be ASTM C90, Type II, 2000 PSI, grout-filled

*For additional information, including multiple section installation details, reference the Installation, Operation and Maintenance (IOM) manuals.*

*\* Damper is supplied mill finish.*



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