



# FORMED STEEL LOUVER 6" (152) DEEP • DRAINABLE BLADE MODEL: 1706SD

Model 1706SD, single drainable blade type formed louver, provides excellent weather protection in a 6" (152) deep frame, with good air performance and pleasing aesthetics that compliment any structure's exterior styling. Suitable for use in exhaust and low to medium velocity intake applications, the drainable blade design utilizes rain gutters that divert collected water down concealed side downspouts and out the sill. Galvanized steel construction is economical, yet durable and the design provides good air performance through it's 50% free area as well as maximum protection against the elements. Model 1706SD is available with channel or flanged type frame to suit most architectural and mechanical installation requirements and is AMCA Licensed.

### STANDARD CONSTRUCTION:

- FRAME:** 6" (152) deep, 18 ga. (1.3) formed galvanized steel.
- BLADES:** 20 ga. (1.0) formed galvanized steel (Drainable style).
- BLADE ANGLE:** Fixed at 45 degrees.
- BLADE SPACING:** Approx. 5 1/2" (140) on centers.
- BLADE SUPPORT BRACKETS:** Concealed type, factory installed on rear of louver on maximum 48" (1219) centers. Reinforced with 1" x 1" (25 x 25) angle (adds approx. 1" (25) to overall louver depth).
- MULLIONS:** Visible type. See Note #1.
- SCREEN:** 1/2" x 1/2" x 19 ga. (13 x 13 x 1.0) galvanized bird screen.
- FINISH:** Mill.
- MINIMUM SIZE:** 12" wide x 12" high (305 x 305).
- MAXIMUM SECTION SIZE:** 60" wide x 96" high (1524 x 2438).

### OPTIONS:

- FL** Flanged Frame.
- BSA** Aluminum Bird Screen.
- ISA** Aluminum Insect Screen.

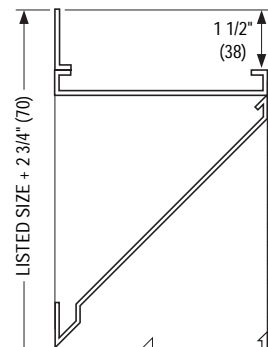
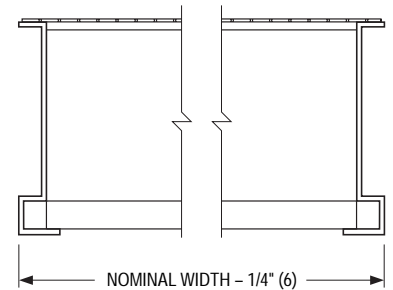
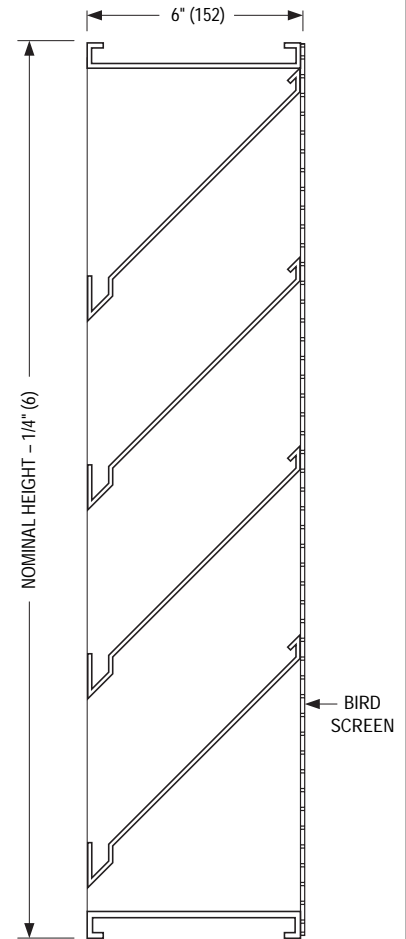
### OPTIONAL FINISHES:

- BE** Baked Enamel. Color: \_\_\_\_\_.
- KY** Kynar 500®/Hylar 5000®. Color: \_\_\_\_\_.
- PCF** Prime Coat.

### NOTES:

1. Sizes larger than maximum section size will be manufactured in multiple equal size panels with visible mullion frames for assembly in the field. Installation of multiple panels may require structural reinforcing (not by Nailor) to provide sufficient support. Standard individual sections are designed to withstand a 25 p.s.f. wind load (100 mph). Contact Nailor for higher wind loads. For additional installation information, see AMCA Publication 501 (Application Manual for Air Louvers).
2. Bird screen adds 3/8" (10) to louver depth.
3. All mounting hardware, clip angles, etc. by others.

Dimensions are in inches (mm).



OPTIONAL FLANGED FRAME (FL)

<b>SCHEDULE TYPE:</b>
<b>PROJECT:</b>
<b>ENGINEER:</b>
<b>CONTRACTOR:</b>

DATE	B SERIES	SUPERSEDES	DRAWING NO.
6 - 3 - 09	1700	4 - 2 - 09	1706SD-1



**FORMED STEEL LOUVER  
6" (152) DEEP • DRAINABLE BLADE  
PERFORMANCE DATA  
MODEL: 1706SD**

**FREE AREA in Square Feet and Square Meters**

		Width in Inches and Meters								
		12	18	24	30	36	42	48	54	60
Height in Inches and Meters	12	0.18	0.28	0.38	0.48	0.59	0.69	0.79	0.89	0.99
	0.30	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.09
	18	0.46	0.73	0.99	1.25	1.52	1.78	2.05	2.31	2.57
	0.46	0.04	0.07	0.09	0.12	0.14	0.17	0.19	0.21	0.24
	24	0.75	1.17	1.60	2.02	2.45	2.88	3.30	3.73	4.15
	0.61	0.07	0.11	0.15	0.19	0.23	0.27	0.31	0.35	0.39
	30	1.03	1.62	2.21	2.79	3.38	3.97	4.56	5.15	5.73
	0.76	0.10	0.15	0.20	0.26	0.31	0.37	0.42	0.48	0.53
	36	1.31	2.06	2.81	3.56	4.31	5.06	5.81	6.56	7.31
	0.91	0.12	0.19	0.26	0.33	0.40	0.47	0.54	0.61	0.68
	42	1.60	2.51	3.42	4.33	5.25	6.16	7.07	7.98	8.89
	1.07	0.15	0.23	0.32	0.40	0.49	0.57	0.66	0.74	0.83
	48	1.88	2.95	4.03	5.10	6.18	7.25	8.05	9.40	10.47
	1.22	0.17	0.27	0.37	0.47	0.57	0.67	0.75	0.87	0.97
	54	2.16	3.40	4.64	5.87	7.11	8.35	9.58	10.82	12.05
	1.37	0.20	0.32	0.43	0.55	0.66	0.78	0.89	1.01	1.12
60	2.45	3.85	5.24	6.64	8.04	9.44	10.84	12.24	13.63	
1.52	0.23	0.36	0.49	0.62	0.75	0.88	1.01	1.14	1.27	
66	2.73	4.29	5.85	7.41	8.97	10.53	12.09	13.65	15.21	
1.68	0.25	0.40	0.54	0.69	0.83	0.98	1.12	1.27	1.41	
72	3.01	4.74	6.46	8.18	9.90	11.63	13.35	15.07	16.79	
1.83	0.28	0.44	0.60	0.76	0.92	1.08	1.24	1.40	1.56	
78	3.30	5.18	7.07	8.95	10.84	12.72	14.61	16.49	18.37	
1.98	0.31	0.48	0.66	0.83	1.01	1.18	1.36	1.53	1.71	
84	3.58	5.63	7.67	9.72	11.77	13.81	15.86	17.91	19.95	
2.13	0.33	0.52	0.71	0.90	1.09	1.28	1.47	1.66	1.85	
90	3.87	6.07	8.28	10.49	12.70	14.91	17.12	19.33	21.53	
2.29	0.36	0.56	0.77	0.97	1.18	1.39	1.59	1.80	2.00	
96	4.15	6.52	8.89	11.26	13.63	16.00	18.37	20.74	23.11	
2.44	0.39	0.61	0.83	1.05	1.27	1.49	1.71	1.93	2.15	

**AIRFLOW/WATER PENETRATION DATA  
for 48" x 48" (1219 x 1219) Louver Size**

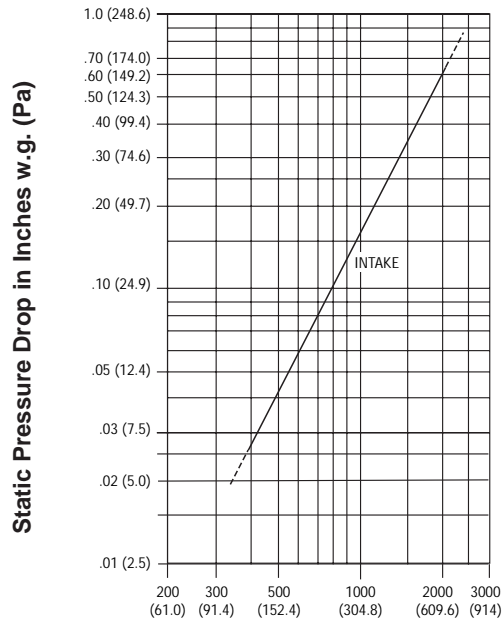
Free Area %	50%
Free Area sq. ft. (sq. m.)	8.05 (0.75)
Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	847 fpm (258 m/min.)
Air Volume at 847 fpm	6818 cfm (3217 l/s)
Free Area Velocity	
Pressure Drop @ 847 fpm	.12 in. w.g. (30 Pa)

**NOTE:** To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the point of beginning water penetration.



Nailor Industries Inc. certifies the Model 1706SD 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. Seal applies to air performance ratings and water penetration ratings.

**PRESSURE DROP**



**Air Velocity in Feet (Meters) Per Minute Through Free Area**  
Louver test size: 48" x 48" (1219 x 1219 mm). Standard air density @ 0.075 lbs/ft<sup>3</sup>.  
Tested to AMCA Fig. 5.5-6.5.

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
6 - 3 - 09	1700	4 - 2 - 09	1706SD-2