



**FORMED STEEL LOUVER**  
**4" (102) DEEP • STANDARD BLADE (J-STYLE)**  
**MODEL: 1704J**

Model 1704J, standard blade type (J-style), is an architecturally styled 4" (102) deep formed louver designed with smooth, clean lines that visually compliment any structure's exterior styling. Galvanized steel construction is economical, yet durable and is available with channel or flanged frame. Suitable for use in exhaust and low to medium velocity intake applications, the blade design features a rear water baffle and provides good protection against general weather conditions, with low pressure drop characteristics and a high free area. Model 1704J is engineered to be architecturally appealing as well as mechanically enduring.

**STANDARD CONSTRUCTION:**

- FRAME:** 4" (102) deep, 18 ga. (1.3) formed galvanized steel.
- BLADES:** 20 ga. (1.0) formed galvanized steel (J-Style).
- BLADE ANGLE:** Fixed at 45 degrees.
- BLADE SPACING:** Approx. 4" (102) 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:**

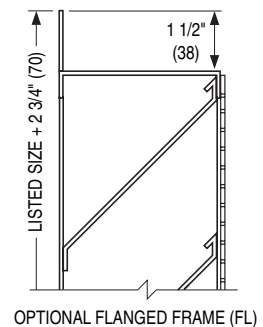
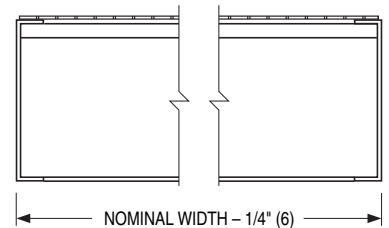
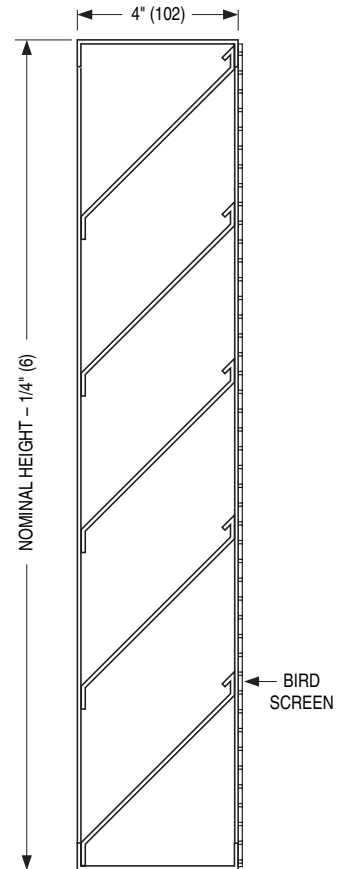
- FL** Flanged Frame.
- BSA** Aluminum Bird Screen.
- ISA** Aluminum Insect Screen.

**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.



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

Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
8 - 25 - 09	1700	NEW	1704J-1



**FORMED STEEL LOUVER**  
**4" (102) DEEP • STANDARD BLADE (J-STYLE)**  
**PERFORMANCE DATA**  
**MODEL: 1704J**

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

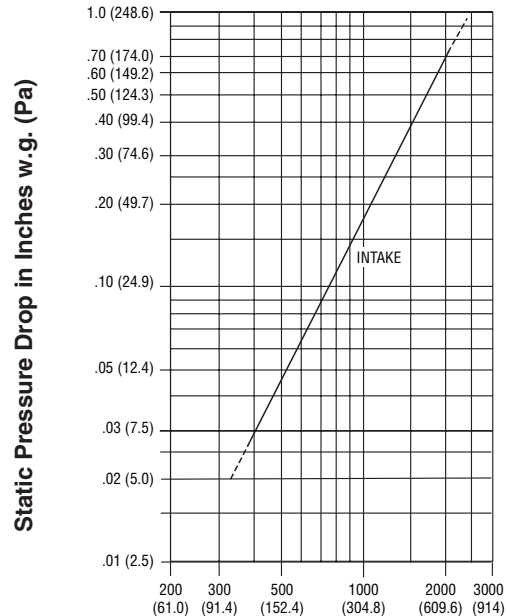
		Width in Inches and Meters								
		12	18	24	30	36	42	48	54	60
Height in Inches and Meters	12	0.30	0.41	0.57	0.71	0.86	1.02	1.16	1.32	1.47
	0.30	0.02	0.04	0.05	0.07	0.08	0.09	0.11	0.12	0.14
	18	0.56	0.87	1.19	1.50	1.82	2.14	2.46	2.78	3.10
	0.46	0.05	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29
	24	0.82	1.29	1.76	2.22	2.70	3.17	3.63	4.11	4.57
	0.61	0.08	0.12	0.16	0.21	0.25	0.29	0.34	0.38	0.42
	30	1.11	1.75	2.39	3.01	3.65	4.29	4.93	5.56	6.19
	0.76	0.10	0.16	0.22	0.28	0.34	0.40	0.46	0.52	0.58
	36	1.40	2.20	3.00	3.81	4.61	5.41	6.22	7.02	7.82
	0.91	0.13	0.20	0.28	0.35	0.43	0.50	0.58	0.65	0.73
	42	1.67	2.62	3.58	4.53	5.48	6.44	7.39	8.35	9.30
	1.07	0.16	0.24	0.33	0.42	0.51	0.60	0.69	0.78	0.86
	48	1.97	3.08	4.20	5.32	6.44	7.56	8.53	9.81	10.93
	1.22	0.18	0.29	0.39	0.49	0.60	0.70	0.79	0.91	1.02
	54	2.22	3.50	4.77	6.04	7.32	8.59	9.86	11.13	12.40
	1.37	0.21	0.33	0.44	0.56	0.68	0.80	0.92	1.03	1.15
60	2.52	3.96	5.39	6.83	8.27	9.71	11.15	12.59	14.03	
1.52	0.23	0.37	0.50	0.63	0.77	0.90	1.04	1.17	1.30	
66	2.79	4.37	5.97	7.55	9.15	10.73	12.33	13.92	15.51	
1.68	0.26	0.41	0.55	0.70	0.85	1.00	1.15	1.29	1.44	
72	3.08	4.83	6.59	8.35	10.10	11.86	13.62	15.37	17.13	
1.83	0.29	0.45	0.61	0.78	0.94	1.10	1.27	1.43	1.59	
78	3.36	5.29	7.21	9.14	11.06	12.99	14.91	16.83	18.76	
1.98	0.31	0.49	0.67	0.85	1.03	1.21	1.39	1.56	1.74	
84	3.63	5.71	7.78	9.86	11.94	14.01	16.08	18.16	20.24	
2.13	0.34	0.53	0.72	0.92	1.11	1.30	1.49	1.69	1.88	
90	3.92	6.16	8.41	10.65	12.89	15.14	17.38	19.62	21.87	
2.29	0.36	0.57	0.78	0.99	1.20	1.41	1.61	1.82	2.03	
96	4.19	6.59	8.97	11.37	13.77	16.16	18.55	20.95	23.34	
2.44	0.39	0.61	0.83	1.06	1.28	1.50	1.72	1.95	2.17	

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

Free Area %	53%
Free Area sq. ft. (sq. m.)	8.53 (0.79)
Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	869 fpm (265 m/min.)
Air Volume at 869 fpm	7413 cfm (3498 l/s)
Free Area Velocity	
Pressure Drop @ 869 fpm	.13 in. w.g. (32 Pa)

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

**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.

<b>SCHEDULE TYPE:</b>				
<b>PROJECT:</b>	Dimensions are in inches (mm).			
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
<b>CONTRACTOR:</b>	8 - 25 - 09	1700	NEW	1704J-2