



FORMED STEEL STATIONARY LOUVER 4" (102) DEEP • J BLADE • DRAINABLE HEAD MODEL: 1704JD (1704SB)

Model 1704JD, incorporating J style blades, 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. The drainable head feature utilizes a top gutter that collects the water running down the building face and channels it out the concealed downspouts in the side frame, thus preventing it from flowing down into the airstream. 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 1704JD is AMCA Licensed and 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. 3.875" (98) on centers.

SCREEN: 1/2" x 1/2" x 19 ga. (13 x 13 x 1.0) galvanized bird screen in removable frame (adds approximately 3/8" [10] to louver depth).

FINISH: Mill.

MINIMUM SIZE: 12" wide x 12" high (305 x 305).

MAXIMUM SINGLE SECTION SIZE: 60" wide x 96" high (1524 x 2438). Larger louvers will require field assembly of smaller sections.

OPTIONS:

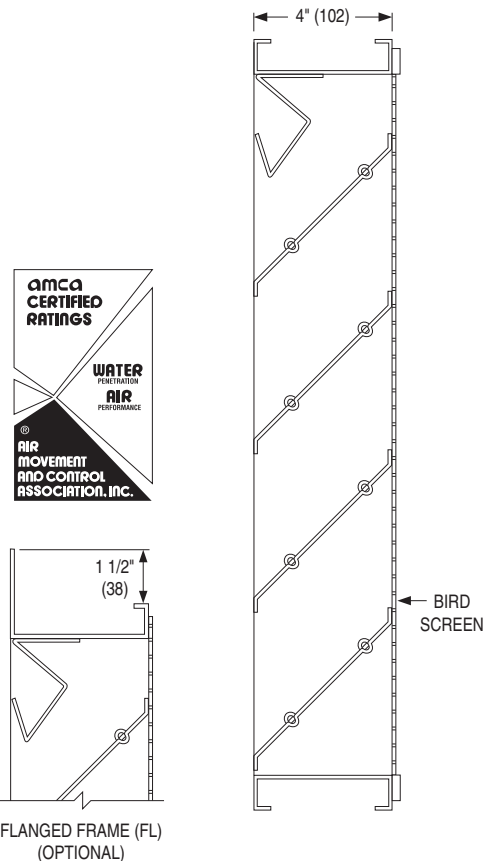
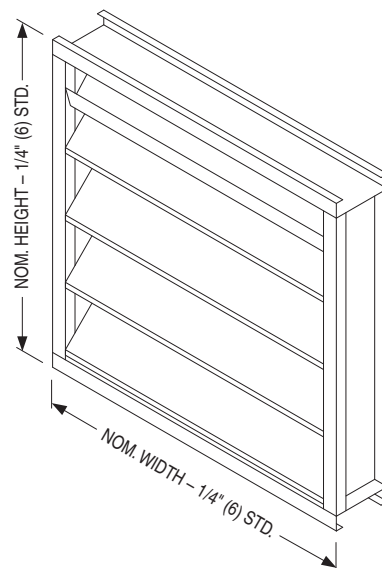
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|---|---|
| ☐ FL Flanged Frame. | ☐ 304 Type 304 S.S. Construction. |
| ☐ BSA Aluminum Bird Screen. | ☐ 316 Type 316 S.S. Construction. |
| ☐ BSSS Type 304 S.S. Bird Screen. | ☐ WE Welded Construction. |
| ☐ BSN No Bird Screen. | ☐ ESI Extended Sill. |
| ☐ ISA Aluminum Insect Screen. | ☐ FR1 1" (25) Filter Rack. |
| ☐ ISSS Type 304 S.S. Insect Screen. | ☐ FR2 2" (51) Filter Rack. |
| ☐ 18GA 18 Gauge Construction. | ☐ PAC Perimeter Anchor Clips. |
| ☐ 16GA 16 Gauge Construction. | |

OPTIONAL FINISHES:

- ☐ **PC3** Powder Coat AAMA 2603. Color: _____.
- ☐ **PC4** High Performance Powder Coat AAMA 2604 (Equivalent to 50% Kynar®). Color: _____.
- ☐ **PC5** Fluoropolymer Powder Coat AAMA 2605 (Equivalent to 70% Kynar®). Color: _____.
- ☐ **PCC** Prime Coat.

OPTIONAL W x H SIZING (1/4" [6.5] Undersize standard):

- ☐ **U00** Exact Size.
- ☐ **U38** Undersize 3/8" (9.5).
- ☐ **U50** Undersize 1/2" (12.7).



FLANGED FRAME (FL)
(OPTIONAL)

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

DATE

B SERIES

SUPERSEDES

DRAWING NO.

8 - 1 - 12

1700

2 - 2 - 11

1704JD

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Dimensions are in inches (mm).



FORMED STEEL STATIONARY LOUVER

4" (102) DEEP • J BLADE • DRAINABLE HEAD

PERFORMANCE DATA

MODEL: 1704JD (1704SB)

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	0.25	0.40	0.56	0.71	0.87	1.02	1.17	1.33	1.48	
	0.30	0.02	0.04	0.05	0.07	0.08	0.09	0.11	0.12	0.14	
	18	0.54	0.87	1.20	1.54	1.87	2.20	2.53	2.87	3.20	
	0.46	0.05	0.08	0.11	0.14	0.17	0.20	0.24	0.27	0.30	
	24	0.77	1.24	1.72	2.19	2.67	3.14	3.61	4.09	4.56	
	0.61	0.07	0.12	0.16	0.20	0.25	0.29	0.34	0.38	0.42	
	30	1.04	1.68	2.32	2.96	3.60	4.24	4.88	5.52	6.16	
	0.76	0.10	0.16	0.22	0.27	0.33	0.39	0.45	0.51	0.57	
	36	1.32	2.13	2.94	3.76	4.57	5.38	6.19	7.01	7.82	
	0.91	0.12	0.20	0.27	0.35	0.42	0.50	0.58	0.65	0.73	
	42	1.57	2.54	3.50	4.47	5.43	6.40	7.37	8.33	9.30	
	1.07	0.15	0.24	0.33	0.42	0.50	0.59	0.68	0.77	0.86	
	48	1.82	2.94	4.06	5.18	6.30	7.42	8.54	9.66	10.78	
	1.22	0.17	0.27	0.38	0.48	0.59	0.69	0.77	0.87	0.97	
	54	2.07	3.34	4.62	5.89	7.17	8.44	9.71	10.99	12.26	
	1.37	0.19	0.31	0.43	0.55	0.67	0.78	0.90	1.02	1.14	
	60	2.34	3.78	5.22	6.66	8.10	9.54	10.98	12.42	13.86	
	1.52	0.22	0.35	0.48	0.62	0.75	0.89	1.02	1.15	1.29	
	66	2.62	4.23	5.84	7.46	9.07	10.68	12.29	13.91	15.52	
	1.68	0.24	0.39	0.54	0.69	0.84	0.99	1.14	1.29	1.44	
	72	2.89	4.67	6.45	8.23	10.00	11.78	13.56	15.34	17.12	
	1.83	0.27	0.43	0.60	0.76	0.93	1.09	1.26	1.43	1.59	
	78	3.15	5.09	7.03	8.97	10.90	12.84	14.78	16.72	18.66	
	1.98	0.29	0.47	0.65	0.83	1.01	1.19	1.37	1.55	1.73	
	84	3.41	5.51	7.61	9.71	11.80	13.90	16.00	18.10	20.20	
	2.13	0.32	0.51	0.71	0.90	1.10	1.29	1.49	1.68	1.88	
	90	3.67	5.93	8.19	10.45	12.70	14.96	17.22	19.48	21.74	
	2.29	0.34	0.55	0.76	0.97	1.18	1.39	1.60	1.81	2.02	
	96	3.91	6.32	8.72	11.13	13.53	15.94	18.35	20.75	23.16	
	2.44	0.36	0.59	0.81	1.03	1.26	1.48	1.70	1.93	2.15	

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

Free Area %	52%
Free Area sq. ft. (sq. m.)	8.38 (0.78)
Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1123 fpm (342 m/min.)
Air Volume at 1123 fpm	9410 cfm (4441 l/s)
Free Area Velocity	9410 cfm (4441 l/s)
Pressure Drop @ 1123 fpm	.22 in. w.g. (55 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 1704JD 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

