

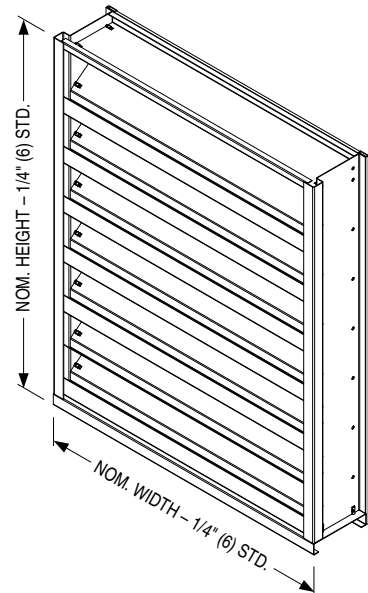


**FORMED STEEL STATIONARY LOUVER**  
**4" (102) DEEP • DRAINABLE BLADE**  
**HIGH PERFORMANCE**  
**MODEL: 1704DHP (1704SDHP)**

Model 1704DHP, high performance drainable blade type formed steel louver, provides excellent weather protection in a 4" (102) deep frame, with superior 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 excellent air performance at higher velocities through it's 53% free area as well as maximum protection against the elements. Model 1704DHP is available with channel or flanged type frame to suit most architectural and mechanical installation requirements.

**STANDARD CONSTRUCTION:**

- FRAME:** 4" (102) deep, 20 ga. (1.0) formed galvanized steel.
- BLADES:** 20 ga. (1.0) formed galvanized steel. Drainable style.
- BLADE ANGLE:** Fixed at 37.5 degrees.
- BLADE SPACING:** Approx. 3 1/2" (89) 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:**

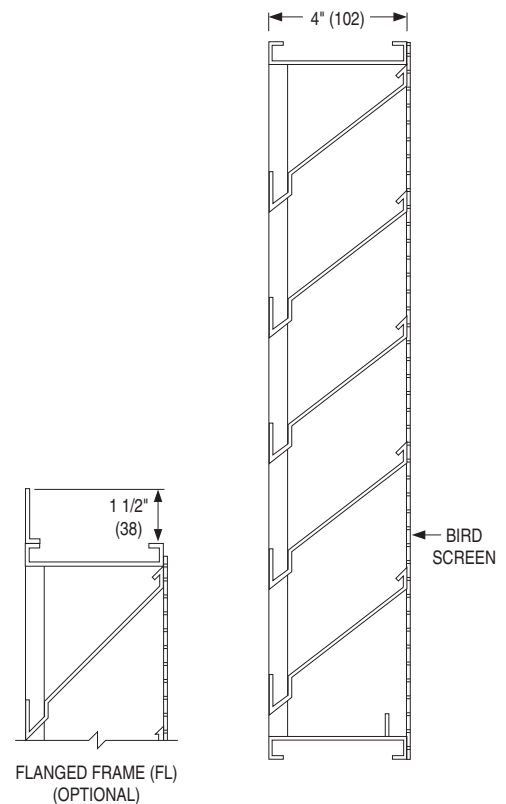
- FL** Flanged Frame.
- BSA** Aluminum Bird Screen.
- BSSS** Type 304 S.S. Bird Screen.
- BSN** No Bird Screen.
- ISA** Aluminum Insect Screen.
- ISSS** Type 304 S.S. Insect Screen.
- 18GA** 18 Gauge Construction.
- 16GA** 16 Gauge Construction.
- 304** Type 304 S.S. Construction.
- 316** Type 316 S.S.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

**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)

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

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 Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
12 - 1 - 10	1700	1704SDHP-1 11 - 16 - 09	1704DHP



**FORMED STEEL STATIONARY LOUVER**  
**4" (102) DEEP • DRAINABLE BLADE**  
**HIGH PERFORMANCE**  
**PERFORMANCE DATA**  
**MODEL: 1704DHP (1704SDHP)**

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

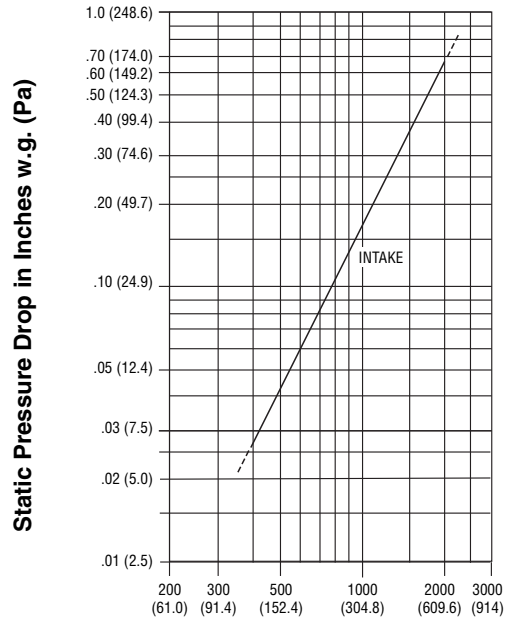
		Width in Inches and Meters								
		12	18	24	30	36	42	48	54	60
Height in Inches and Meters	12	0.31	0.48	0.66	0.83	1.01	1.19	1.36	1.54	1.71
	0.30	0.03	0.04	0.06	0.08	0.09	0.11	0.13	0.14	0.16
	18	0.58	0.91	1.24	1.57	1.90	2.23	2.56	2.89	3.22
	0.46	0.05	0.08	0.12	0.15	0.18	0.21	0.24	0.27	0.30
	24	0.89	1.39	1.90	2.41	2.91	3.42	3.93	4.43	4.94
	0.61	0.08	0.13	0.18	0.22	0.27	0.32	0.36	0.41	0.46
	30	1.16	1.82	2.48	3.14	3.80	4.46	5.13	5.79	6.45
	0.76	0.11	0.17	0.23	0.29	0.35	0.41	0.48	0.54	0.60
	36	1.43	2.24	3.06	3.88	4.69	5.51	6.32	7.14	7.96
	0.91	0.13	0.21	0.28	0.36	0.44	0.51	0.59	0.66	0.74
	42	1.74	2.73	3.72	4.71	5.71	6.70	7.69	8.68	9.68
	1.07	0.16	0.25	0.35	0.44	0.53	0.62	0.71	0.81	0.90
	48	2.01	3.15	4.30	5.45	6.60	7.74	8.85	10.04	11.19
	1.22	0.19	0.29	0.40	0.51	0.61	0.72	0.79	0.93	1.04
	54	2.32	3.64	4.96	6.29	7.61	8.93	10.26	11.58	12.91
	1.37	0.22	0.34	0.46	0.58	0.71	0.83	0.95	1.08	1.20
60	2.59	4.07	5.54	7.02	8.50	9.98	11.46	12.94	14.41	
1.52	0.24	0.38	0.52	0.65	0.79	0.93	1.06	1.20	1.34	
66	2.86	4.49	6.12	7.76	9.39	11.02	12.66	14.29	15.92	
1.68	0.27	0.42	0.57	0.72	0.87	1.02	1.18	1.33	1.48	
72	3.17	4.98	6.79	8.59	10.40	12.21	14.02	15.83	17.64	
1.83	0.29	0.46	0.63	0.80	0.97	1.13	1.30	1.47	1.64	
78	3.44	5.40	7.37	9.33	11.29	13.26	15.22	17.19	19.15	
1.98	0.32	0.50	0.68	0.87	1.05	1.23	1.41	1.60	1.78	
84	3.75	5.89	8.03	10.17	12.31	14.45	16.59	18.73	20.87	
2.13	0.35	0.55	0.75	0.94	1.14	1.34	1.54	1.74	1.94	
90	4.02	6.31	8.61	10.90	13.20	15.49	17.79	20.08	22.38	
2.29	0.37	0.59	0.80	1.01	1.23	1.44	1.65	1.87	2.08	
96	4.29	6.74	9.19	11.64	14.09	16.54	18.99	21.44	23.89	
2.44	0.40	0.63	0.85	1.08	1.31	1.54	1.76	1.99	2.22	

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

Free Area %	53%
Free Area sq. ft. (sq. m.)	8.55 (0.76)
Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	896 fpm (273 m/min.)
Air Volume at 896 fpm	7661 cfm (3615 l/s)
Free Area Velocity	
Pressure Drop @ 896 fpm	.14 in. w.g. (35 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.

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Dimensions are in inches (mm).

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<b>PROJECT:</b>				
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
<b>CONTRACTOR:</b>	12 - 1 - 10	1700	1704SDHP-2 11 - 16 - 09	1704DHP