

DESIGN DATA:

For a 4 Foot by 4 Foot Unit. Tested with mill finish.

- Free area = 7.79 ft² (0.724 m²)
- Percent Free Area = 48.7%
- Free area velocity at the point of beginning water penetration (@0.01 oz./ft² of free area based on a 15 minute interval test) = 1040 FPM (5.28 m/s)
- Maximum recommended air intake velocity = 840 FPM (4.27 m/s)
 Air Volume @ 840 FPM free area velocity = 6543 CFM (3.08 m³/s)
 Pressure drop @ 840 FPM intake velocity = 0.17 in. H₂O (42.2 Pa)
- Maximum recommended air exhaust velocity = 1380.0 FPM (7.01 m/s)



DADE COUNTY PROTOCOLS:

- TAS-201:** Large and small missile impact
- TAS-202:** Criteria for testing impact and not impact resistant building envelope components using static uniform air pressure
- TAS-203:** Criteria for testing products subject to cyclic wind pressure

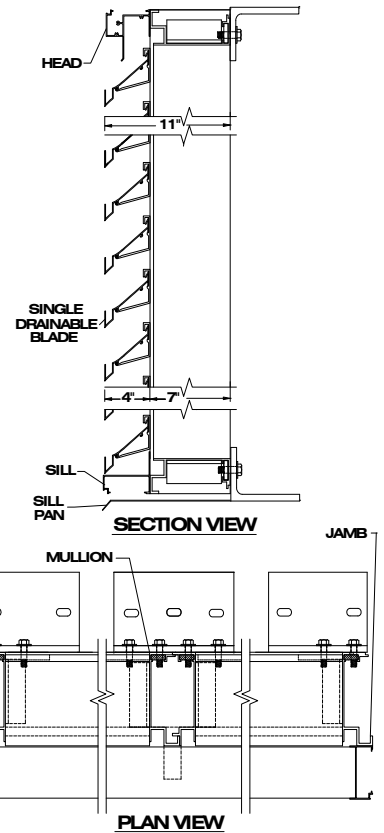
SUGGESTED SPECIFICATIONS:

GENERAL: Furnish and install where indicated on the drawings C/S 11" (279.4 mm) DADE COUNTY HURRICANE LOUVER **MODEL DC-7044/A4097** as manufactured by Construction Specialties, Inc., Cranford, NJ; Mississauga, Ontario. Complete details shall be submitted to the architect for approval prior to fabrication. The supplier must be a member of AMCA or BSRIA.

MATERIAL: The structural frame consists of the head, sill and jambs to be one piece structural aluminum sections with minimum 0.125" (3.18 mm) thick walls. The front unit consists of heads, jambs, sills and mullions to be one piece structural aluminum members with integral caulking slot and retaining beads. Mullions shall be sliding interlock with internal drains. Blades to be one piece aluminum extrusions with gutter(s) designed to catch and direct water to jamb and mullion drains. Closed cell compression gaskets shall be provided between bottom of mullion or jamb and top of sill to insure leak tight connections. Material thickness to be as follows: Heads, sills, jambs and blade mullions: 0.081" (2.06 mm). Fixed blades 0.081 (2.06 mm)

STRUCTURAL DESIGN: Louvers must be tested in accordance with Dade county protocols TAS-201, TAS-202 and TAS-203. Louvers shall be Dade County approved for open structure building envelope protection (including missile), for single unit sizes up to 4 feet wide by 10 feet high; and for allowable design wind loading up to 160 psf. To maintain Dade County product approval status, the louvers must be attached to a structural substrate in accordance with the Dade County Product Approval Drawings. In addition, the structural substrate to which the louvers are attached must be designed to withstand the point loads transferred by the louvers when subjected to the design wind loads.

FINISH: All louvers shall be finished with C/S Powder Coat, a coating to be 1.5 to 3 mil. thick full strength **100% resin Fluoropolymer coating. Finish to allow zero VOCs** to be emitted into facility of application. Finish to adhere to a 4H Hardness rating. All finishing procedures shall be one continuous operation in the plant of the manufacturer. **The coating shall meet or exceed all requirements of AAMA specification 2605-5** "Voluntary Specification for High Performance Organic Coatings on Architectural extrusions and Panels." The louver manufacturer shall supply an industry standard **20-year limited warranty against failure or excessive fading** of the Fluoropolymer Powder Coat finish. This limited warranty shall begin on the date of material shipment.



TEST DATA:

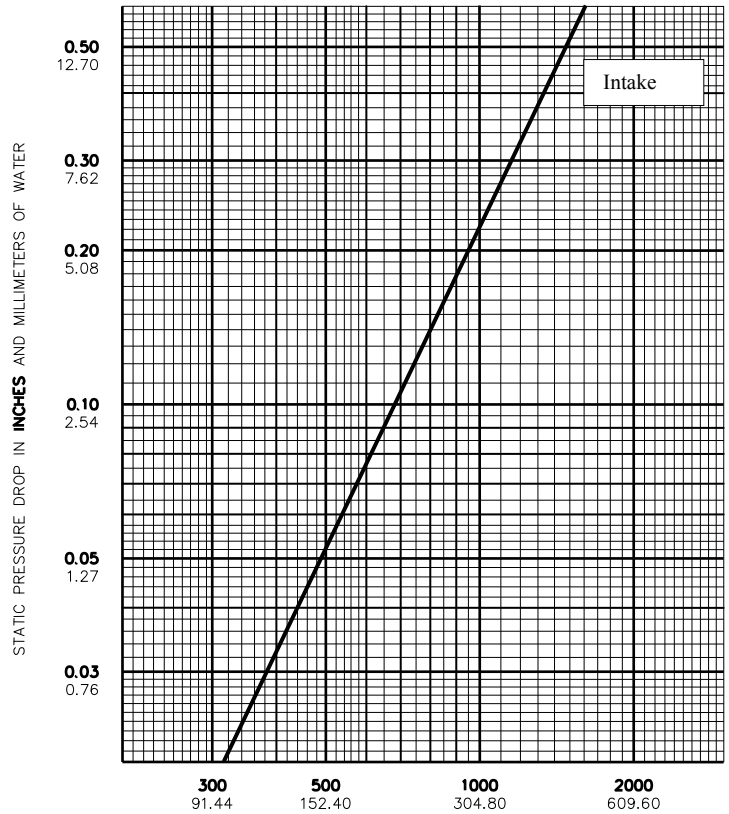
Free area:	7.79 ft ² (0.724 m ²)
Free area velocity at point of beginning water penetration (0.01 oz./ft ²):	1040 FPM (5.28 m/s)
Intake pressure drop at 0.01 oz./ft ² free area velocity:	0.28 in. H ₂ O (69.5 Pa)
Exhaust pressure drop at 1000 FPM free area velocity (305m/min):	0.26 in. H ₂ O (64.6 Pa)

PERFORMANCE DATA MODEL DC-7044/A4097

Width in Inches and Meters

Height in Inches and Meters	Width in Inches and Meters							
	12	18	24	30	36	42	48	
	0.30	0.46	0.61	0.76	0.91	1.07	1.22	
24	0.60	1.13	1.66	2.19	2.73	3.26	3.79	
0.61	0.06	0.11	0.15	0.20	0.25	0.30	0.35	
30	0.73	1.38	2.03	2.68	3.34	3.99	4.64	
0.76	0.07	0.13	0.19	0.25	0.31	0.37	0.43	
36	0.96	1.82	2.67	3.53	4.38	5.24	6.09	
0.91	0.09	0.17	0.25	0.33	0.41	0.49	0.57	
42	1.10	2.07	3.04	4.02	4.99	5.97	6.94	
1.07	0.10	0.19	0.28	0.37	0.46	0.55	0.64	
48	1.33	2.51	3.68	4.86	6.04	7.22	7.79	
1.22	0.12	0.23	0.34	0.45	0.56	0.67	0.78	
54	1.46	2.76	4.06	5.35	6.65	7.95	9.25	
1.37	0.14	0.26	0.38	0.50	0.62	0.74	0.86	
60	1.69	3.19	4.70	6.20	7.70	9.20	10.70	
1.52	0.16	0.30	0.44	0.58	0.72	0.85	0.99	
66	1.82	3.45	5.07	6.69	8.31	9.93	11.55	
1.68	0.17	0.32	0.47	0.62	0.77	0.92	1.07	
72	2.05	3.88	5.71	7.53	9.36	11.18	13.01	
1.83	0.19	0.36	0.53	0.70	0.87	1.04	1.21	
78	2.19	4.13	6.08	8.02	9.97	11.91	13.86	
1.98	0.20	0.38	0.56	0.75	0.93	1.11	1.29	
84	2.42	4.57	6.72	8.87	11.02	13.17	15.31	
2.13	0.22	0.42	0.62	0.82	1.02	1.22	1.42	
90	2.55	4.82	7.09	9.36	11.63	13.89	16.16	
2.29	0.24	0.45	0.66	0.87	1.08	1.29	1.50	
96	2.78	5.25	7.73	10.20	12.67	15.15	17.62	
2.44	0.26	0.49	0.72	0.95	1.18	1.41	1.64	
102	2.92	5.51	8.10	10.69	13.28	15.88	18.47	
2.59	0.27	0.51	0.75	0.99	1.23	1.47	1.72	
108	3.15	5.94	8.74	11.54	14.33	17.13	19.92	
2.74	0.29	0.55	0.81	1.07	1.33	1.59	1.85	
114	3.28	6.20	9.11	12.03	14.94	17.86	20.77	
2.90	0.30	0.58	0.85	1.12	1.39	1.66	1.93	
120	3.51	6.63	9.75	12.87	15.99	19.11	22.23	
3.05	0.33	0.62	0.91	1.20	1.49	1.78	2.07	

Upper Numerals English Units/Lower Numerals Metric Units



AIR VELOCITY IN FEET AND METERS PER MINUTE THROUGH FREE AREA

For a 48" X 48" sized louver

Construction Specialties, Inc.
Manufacturing & Sales Location
www.c-sgroup.com

Cranford, New Jersey
 49 Meeker Avenue 07016
 Telephone: (800) 631-7379
 Fax: (908) 272-2920

Mississauga, Ontario
 895 Lakefront Promenade L5E 2C2
 Telephone: (888) 895-8955
 Fax: (905) 274-6241

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