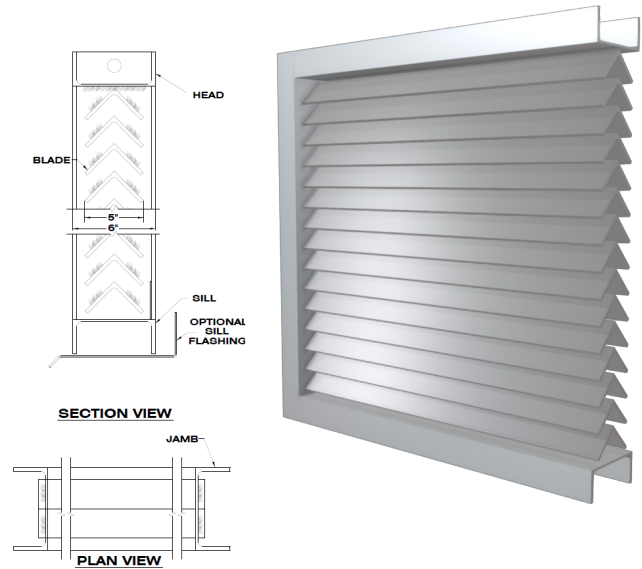


Model EW-5210

5" (127.0 mm) FEMA Extreme Weather Louver

Material:

Material:	6061-T6 Alloy
Nominal Thickness (heads, sills, jambs, & mullions):	0.170" (4.32 mm)
Nominal Blade Thickness:	0.250" (6.35 mm)
Furnished With:	Birdscreen: ½" (12.7mm) intercrimp aluminum mesh, 0.063" (1.60 mm) diameter wire removeable aluminum bird screen in an aluminum frame
Additional Options (at additional cost):	Insect screen (in lieu of bird screen), Continuous clip angles for attachment Sheet blank off, Insulated blank off Sill pans, Flange frames, Integrated glazing frames



Test Summary:
For a 4 Foot by 4 Foot Unit.

Tested with mill finish and no screen

- Free area = 7.22 ft² (0.67 m²)
- Percent free area = 45.1%
- Free area velocity at the point of beginning water penetration (@ 0.01oz. / ft² of free area based on a 15 minute interval test) = 525 FPM (2.7 m/s)
- Intake pressure drop at 0.01 oz. / ft² free area velocity =
- 0.10 in H2O (25.3 Pa)

Discharge Coefficient
 Intake Cd = 0.23 (Class 3)
 AMCA certifies the coefficient class only

Construction Specialties Inc. certifies that the louver model EW-5210 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. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings.

Application and Design

EW-5210 is tested in accordance with AMCA 500-L Air Performance and Water Penetration. EW-5210 is tested to FEMA 361 and ICC 500 for use in Tornado and Hurricane Safe Rooms as well as ASTM E 330 for structural performance by uniform static air pressure difference. This model passes ICC 500 debris impact standard of a 15 lb. wood 2 x 4 traveling at 100 mph. Units up to 4' x 4' are tested to 300 PSF wind loads, units larger than 4' x 4' and up to a maximum size of 6' 6" x 7' 6" are tested to 250 PSF wind load.

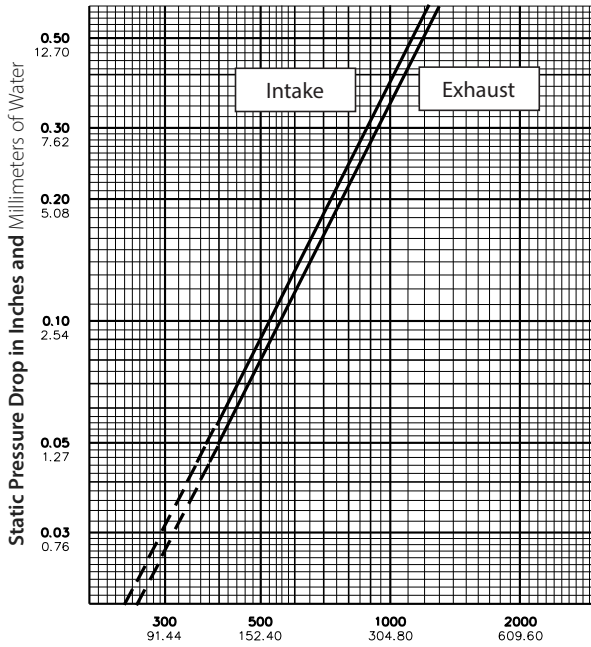


Model EW-5210

5" (127.0 mm) FEMA Extreme Weather Louver

Water Penetration Statement

AMCA defines the point of beginning water penetration as the free area velocity at which the AMCA water test has yielded 0.01 or less ounces of water per square foot of louver free area during a 15-minute test period.



Air Velocity in Feet and Meters per Minute Through Free Area

Data corrected to standard air density.
48" x 48" (121.92cm x 121.92cm) louver tested to figure 5.5.

Free Area Table (Free area in sq. feet and sq. meters)

For additional sizes, please visit:

<https://www.c-sgroup.com/louvers-airflow-tool>

Width in Inches and Meters

	18	24	30	36	42	48	54	60	66	72	78
	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98
18	0.61	0.89	1.17	1.45	1.73	2.01	2.29	2.57	2.85	3.13	3.41
0.46	0.06	0.08	0.11	0.13	0.16	0.19	0.21	0.24	0.26	0.29	0.32
24	0.92	1.35	1.77	2.20	2.62	3.05	3.48	3.90	4.33	4.75	5.18
0.61	0.09	0.13	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48
30	1.24	1.81	2.38	2.95	3.52	4.09	4.66	5.24	5.81	6.38	6.95
0.76	0.11	0.17	0.22	0.27	0.33	0.38	0.43	0.49	0.54	0.59	0.65
36	1.55	2.27	2.99	3.70	4.42	5.14	5.85	6.57	7.29	8.00	8.72
0.91	0.14	0.21	0.28	0.34	0.41	0.48	0.54	0.61	0.68	0.74	0.81
42	1.87	2.73	3.59	4.45	5.32	6.18	7.04	7.90	8.77	9.63	10.49
1.07	0.17	0.25	0.33	0.41	0.49	0.57	0.65	0.73	0.81	0.89	0.97
48	2.18	3.19	4.20	5.21	6.21	7.22	8.23	9.24	10.24	11.25	12.26
1.22	0.20	0.30	0.39	0.48	0.58	0.67	0.76	0.86	0.95	1.05	1.14
54	2.50	3.65	4.80	5.96	7.11	8.26	9.42	10.57	11.72	12.88	14.03
1.37	0.23	0.34	0.45	0.55	0.66	0.77	0.87	0.98	1.09	1.20	1.30
60	2.81	4.11	5.41	6.71	8.01	9.31	10.61	11.90	13.20	14.50	15.80
1.52	0.26	0.38	0.50	0.62	0.74	0.86	0.99	1.11	1.23	1.35	1.47
66	3.13	4.57	6.02	7.46	8.91	10.35	11.79	13.24	14.68	16.13	17.57
1.68	0.29	0.42	0.56	0.69	0.83	0.96	1.10	1.23	1.36	1.50	1.63
72	3.44	5.03	6.62	8.21	9.80	11.39	12.98	14.57	16.16	17.75	19.34
1.83	0.32	0.47	0.62	0.76	0.91	1.06	1.21	1.35	1.50	1.65	1.80
78	3.76	5.50	7.23	8.97	10.70	12.44	14.17	15.91	17.64	19.38	21.11
1.98	0.35	0.51	0.67	0.83	0.99	1.16	1.32	1.48	1.64	1.80	1.96
84	4.08	5.96	7.84	9.72	11.60	13.48	15.36	17.24	19.12	21.00	22.88
2.13	0.38	0.55	0.73	0.90	1.08	1.25	1.43	1.60	1.78	1.95	2.13
90	4.39	6.42	8.44	10.47	12.50	14.52	16.55	18.57	20.60	22.63	24.65
2.29	0.41	0.60	0.78	0.97	1.16	1.35	1.54	1.73	1.91	2.10	2.29

Height in Inches and Meters

Upper Numerals English Units/Lower Numerals Metric Units