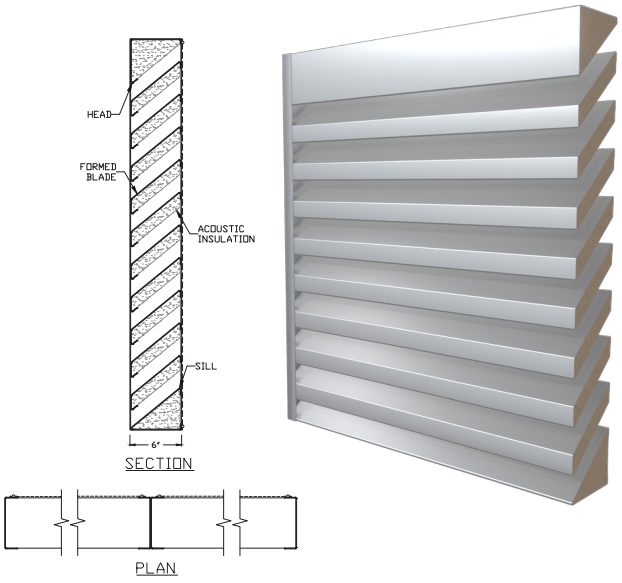
Model A6390 (A6390F & A6390R)
6" (152.4 mm) Standard Fixed Acoustical Louver

Material:

Material:	3003 Aluminum Alloy, Fiberglass or Mineral Wool Insulation protected by woven (self-extinguishing)100% Polyester sheeting
Nominal Thickness (heads, sills, jambs, & mullions):	0.080" (2.03 mm)
Nominal Blade Thickness:	0.080" (2.03 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 = 5.32 ft² (0.49 m²)
- Percent free area = 33.3%
- Free area velocity at the point of beginning water penetration (@ 0.01oz. / ft² of free area based on a 15 minute interval test) = 869 FPM (4.41 m/s)
- Intake pressure drop at 1000 FPM free area velocity = 0.093 in. H2O (23.1 Pa)

Acoustical Data: Fiberglass Insulation (A6390F)

The louver manufacturer shall submit test data from an accredited acoustical laboratory in accordance with ASTM Standard E90-09. The minimum acceptable performance through all octave bands for fiberglass insulation is STC = 10

Frequency (hz)	125	250	500	1000	2000	4000	8000
Transmission Loss	5	2	5	11	14	12	11
Noise Reduction	11	8	11	17	20	18	17

Acoustical Data: Mineral Wool Insulation (A6390R)

The louver manufacturer shall submit test data from an accredited acoustical laboratory in accordance with ASTM Standard E90-09. The minimum acceptable performance through all octave bands for mineral wool insulation is STC = 9

Frequency (hz)	125	250	500	1000	2000	4000	8000
Transmission Loss	5	2	4	8	16	13	9
Noise Reduction	11	8	10	14	22	19	15

Construction Specialties Inc. certifies that the louver model A6390 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 Water Penetration Ratings, Sound, and Air Performance ratings.

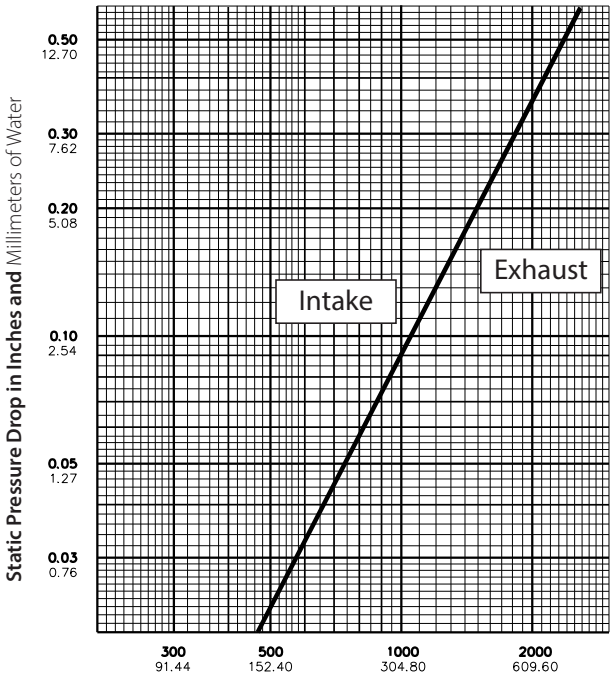
Application and Design

A6390 is tested in accordance with AMCA 500-L Water Penetration, Sound, and Air Performance. A6390F is intended for typical in-wall louver applications within building openings. It is not approved for applications where the back of the louver is exposed to weather elements. A6390R is intended for applications where the back of the louver is fully exposed to outdoor elements, such as rooftop screen walls, open mechanical equipment enclosures, and generator screening.

Model A6390 (A6390F & A6390R)
6" (152.4 mm) Standard Fixed Acoustical 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/architectural-louvers/louvers-airflow-tool

Width in Inches and Meters

Height in Inches and Meters

	18	24	30	36	42	48	54	60
	0.46	**0.61**	**0.76**	**0.91**	**1.07**	**1.22**	**1.37**	**1.52**
18	0.46	0.66	0.86	1.06	1.25	1.45	1.65	1.85
0.46	**0.04**	**0.06**	**0.08**	**0.10**	**0.12**	**0.13**	**0.15**	**0.17**
24	0.77	1.10	1.43	1.76	2.09	2.42	2.75	3.08
0.61	**0.07**	**0.10**	**0.13**	**0.16**	**0.19**	**0.22**	**0.26**	**0.29**
30	0.92	1.32	1.72	2.11	2.51	2.90	3.30	3.69
0.76	**0.09**	**0.12**	**0.16**	**0.20**	**0.23**	**0.27**	**0.31**	**0.34**
36	1.23	1.76	2.29	2.81	3.34	3.87	4.40	4.93
0.91	**0.11**	**0.16**	**0.21**	**0.26**	**0.31**	**0.36**	**0.41**	**0.46**
42	1.39	1.98	2.57	3.17	3.76	4.35	4.95	5.54
1.07	**0.13**	**0.18**	**0.24**	**0.29**	**0.35**	**0.40**	**0.46**	**0.51**
48	1.69	2.42	3.14	3.87	4.60	5.32	6.05	6.77
1.22	**0.16**	**0.22**	**0.29**	**0.36**	**0.43**	**0.49**	**0.56**	**0.63**
54	1.85	2.64	3.43	4.22	5.01	5.81	6.60	7.39
1.37	**0.17**	**0.25**	**0.32**	**0.39**	**0.47**	**0.54**	**0.61**	**0.69**
60	2.15	3.08	4.00	4.93	5.85	6.77	7.70	8.62
1.52	**0.20**	**0.29**	**0.37**	**0.46**	**0.54**	**0.63**	**0.71**	**0.80**
66	2.31	3.30	4.29	5.28	6.27	7.26	8.25	9.24
1.68	**0.21**	**0.31**	**0.40**	**0.49**	**0.58**	**0.67**	**0.77**	**0.86**
72	2.62	3.74	4.86	5.98	7.10	8.22	9.35	10.47
1.83	**0.24**	**0.35**	**0.45**	**0.56**	**0.66**	**0.76**	**0.87**	**0.97**
78	2.77	3.96	5.15	6.33	7.52	8.71	9.90	11.08
1.98	**0.26**	**0.37**	**0.48**	**0.59**	**0.70**	**0.81**	**0.92**	**1.03**
84	3.08	4.40	5.72	7.04	8.36	9.68	10.99	12.31
2.13	**0.29**	**0.41**	**0.53**	**0.65**	**0.78**	**0.90**	**1.02**	**1.14**
90	3.23	4.62	6.00	7.39	8.77	10.16	11.54	12.93
2.29	**0.30**	**0.43**	**0.56**	**0.69**	**0.82**	**0.94**	**1.07**	**1.20**
96	3.54	5.06	6.57	8.09	9.61	11.13	12.64	14.16
2.44	**0.33**	**0.47**	**0.61**	**0.75**	**0.89**	**1.03**	**1.17**	**1.32**
102	3.69	5.28	6.86	8.44	10.03	11.61	13.19	14.78
2.59	**0.34**	**0.49**	**0.64**	**0.78**	**0.93**	**1.08**	**1.23**	**1.37**
108	4.00	5.72	7.43	9.15	10.86	12.58	14.29	16.01
2.74	**0.37**	**0.53**	**0.69**	**0.85**	**1.01**	**1.17**	**1.33**	**1.49**
114	4.16	5.94	7.72	9.50	11.28	13.06	14.84	16.62
2.90	**0.39**	**0.55**	**0.72**	**0.88**	**1.05**	**1.21**	**1.38**	**1.54**
120	4.46	6.38	8.29	10.20	12.12	14.03	15.94	17.85
3.05	**0.41**	**0.59**	**0.77**	**0.95**	**1.13**	**1.30**	**1.48**	**1.66**
126	4.62	6.60	8.58	10.55	12.53	14.51	16.49	18.47
3.20	**0.43**	**0.61**	**0.80**	**0.98**	**1.16**	**1.35**	**1.53**	**1.72**
132	4.93	7.04	9.15	11.26	13.37	15.48	17.59	19.70
3.35	**0.46**	**0.65**	**0.85**	**1.05**	**1.24**	**1.44**	**1.63**	**1.83**
138	5.08	7.26	9.43	11.61	13.79	15.96	18.14	20.32
3.51	**0.47**	**0.67**	**0.88**	**1.08**	**1.28**	**1.48**	**1.69**	**1.89**
144	5.39	7.70	10.00	12.31	14.62	16.93	19.24	21.55
3.66	**0.50**	**0.71**	**0.93**	**1.14**	**1.36**	**1.57**	**1.79**	**2.00**

Upper Numerals English Units/Lower Numerals Metric Units

