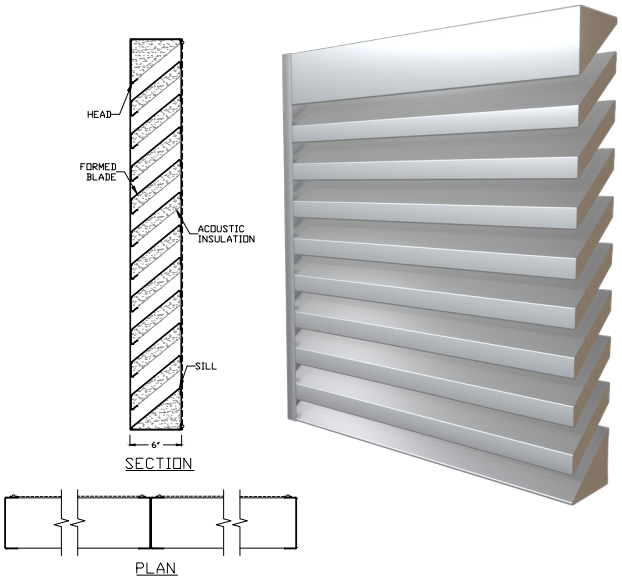
Model A6390 (A6390F & A6390R)

6" (152.4 mm) Standard Fixed Acoustical Louvre

Material:

Material:	5005-H34 or 6063-T6 Aluminium Alloy, Fibreglass 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)
Additional Options (at additional cost):	Birdscreen: 0.5" (12.7 mm) welded stainless steel G304 mesh. 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 (1219mm x 1219mm).

Tested with mill finish and no screen

- Free (throat) area = 5.32 ft² (0.49 m²)
- Percent free (throat) area = 33.3%
- Free (throat) area velocity at the point of beginning water penetration (@ 0.01oz. / ft² of free (throat) area based on a 15 minute interval test) = 869 FPM (4.41 m/s)
- Intake pressure drop at 1000 FPM free (throat) area velocity = 0.093 in. H2O (23.1 Pa)

A6390F Acoustic Data

Sound Transmission Class (STC): 10

Octave Band Center Frequency (Hz)	125	250	500	1000	2000	4000	8000
Transmission Loss (dB)*	5	2	5	11	14	12	11
Free Field Noise Reduction (dB)	11	8	11	17	20	18	17

**Transmission Loss tested in accordance with ASTM E90.*

A6390R Acoustic Data

Sound Transmission Class (STC): 9

Octave Band Center Frequency (Hz)	125	250	500	1000	2000	4000	8000
Transmission Loss (dB)*	5	2	4	8	16	13	9
Free Field Noise Reduction (dB)	11	8	10	14	22	19	15

**Transmission Loss tested in accordance with ASTM E90.*

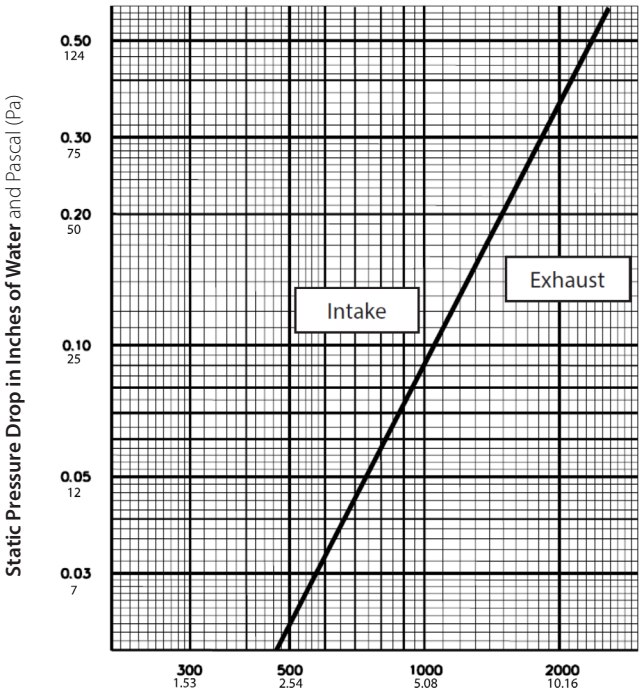
Application and Design

A6390F is intended for typical in-wall louvre applications within building openings. It is not approved for applications where the back of the louvre is exposed to weather elements. A6390R is intended for applications where the back of the louvre is fully exposed to outdoor elements, such as rooftop screen walls, open mechanical equipment enclosures, and generator screening.

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Model A6390 (A6390F & A6390R)

6" (152.4 mm) Standard Fixed Acoustical Louvre



Static Pressure Drop in Inches of Water and Pascal (Pa)

Free Air Velocity in Feet per minute and Metre per Second (m/s)

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

Free (throat) area Table (Free (throat) area in **sq. feet** and sq. metres)

For additional sizes, please visit:

Width in Inches and Metres

Height in Inches and Metres	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

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