Model A8370

8" (203.2 mm) Standard Fixed Acoustical Louvre

Material:

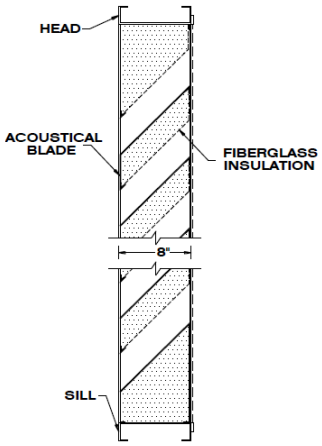
Material:	5005-H34 or 6063-T6 Aluminium Alloy, Fibreglass Insulation protected by woven (self-extinguishing)100% Polyester sheeting
Nominal Thickness (heads, sills, jambs, & mullions):	0.081" (2.06 mm)
Nominal Blade Thickness:	0.081" (2.06 mm)
Additional Options (at additional cost):	Birdscreen: 0.5" (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



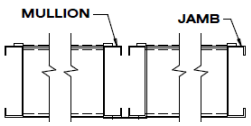
Test Summary:
For a 4 Foot by 4 Foot Unit (1219mm x 1219mm).

Tested with mill finish and no screen

- Free (throat) area = 3.68 ft² (0.34 m²)
- Percent free (throat) area = 23.0%
- 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) = 942 FPM (4.79 m/s)
- Intake pressure drop at 742 FPM free (throat) area velocity = 0.05in H_2O (12.4 Pa)



SECTION VIEW



Acoustical Data:

The louvre manufacturer shall submit test data from an accredited acoustical laboratory in accordance with ASTM Standard E90-90. The minimum acceptable performance through all octave bands is as follows: STC = 15

Frequency (hz)	63	125	250	500	1000	2000	4000	8000
Transmission Loss	9	7	7	11	18	19	14	13
Noise Reduction	15	13	13	17	24	25	20	19

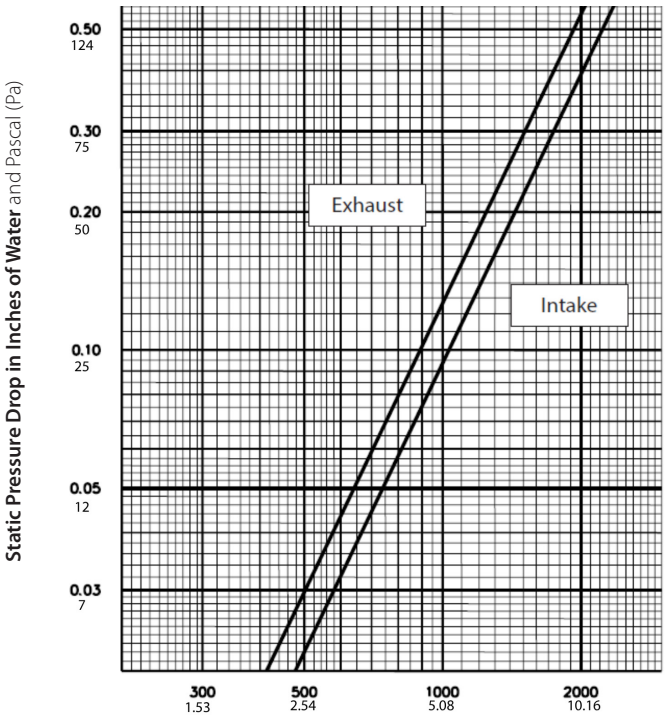
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Model A8370

8" (203.2 mm) Standard Fixed Acoustical Louvre

Water Penetration Statement

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



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:

Height in Inches and Metres

	Width in Inches and Metres								
	12	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**
	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52
18	**0.17**	**0.29**	**0.42**	**0.54**	**0.67**	**0.79**	**0.92**	**1.05**	**1.17**
0.46	0.02	0.03	0.04	0.05	0.06	0.07	0.09	0.10	0.11
24	**0.33**	**0.59**	**0.84**	**1.09**	**1.34**	**1.59**	**1.84**	**2.09**	**2.34**
0.61	0.03	0.05	0.08	0.10	0.12	0.15	0.17	0.19	0.22
30	**0.33**	**0.59**	**0.84**	**1.09**	**1.34**	**1.59**	**1.84**	**2.09**	**2.34**
0.76	0.03	0.05	0.08	0.10	0.12	0.15	0.17	0.19	0.22
36	**0.50**	**0.88**	**1.25**	**1.63**	**2.01**	**2.38**	**2.76**	**3.14**	**3.51**
0.91	0.05	0.08	0.12	0.15	0.19	0.22	0.26	0.29	0.33
42	**0.67**	**1.17**	**1.67**	**2.17**	**2.68**	**3.18**	**3.68**	**4.18**	**4.68**
1.07	0.06	0.11	0.16	0.20	0.25	0.30	0.34	0.39	0.43
48	**0.67**	**1.17**	**1.67**	**2.17**	**2.68**	**3.18**	**3.68**	**4.18**	**4.68**
1.22	0.06	0.11	0.16	0.20	0.25	0.30	0.34	0.39	0.43
54	**0.84**	**1.46**	**2.09**	**2.72**	**3.34**	**3.97**	**4.60**	**5.23**	**5.85**
1.37	0.08	0.14	0.19	0.25	0.31	0.37	0.43	0.49	0.54
60	**1.00**	**1.76**	**2.51**	**3.26**	**4.01**	**4.77**	**5.52**	**6.27**	**7.02**
1.52	0.09	0.16	0.23	0.30	0.37	0.44	0.51	0.58	0.65
66	**1.17**	**2.05**	**2.93**	**3.80**	**4.68**	**5.56**	**6.44**	**7.32**	**8.19**
1.68	0.11	0.19	0.27	0.35	0.43	0.52	0.60	0.68	0.76
72	**1.17**	**2.05**	**2.93**	**3.80**	**4.68**	**5.56**	**6.44**	**7.32**	**8.19**
1.83	0.11	0.19	0.27	0.35	0.43	0.52	0.60	0.68	0.76
78	**1.34**	**2.34**	**3.34**	**4.35**	**5.35**	**6.35**	**7.36**	**8.36**	**9.36**
1.98	0.12	0.22	0.31	0.40	0.50	0.59	0.68	0.78	0.87
84	**1.51**	**2.63**	**3.76**	**4.89**	**6.02**	**7.15**	**8.28**	**9.41**	**10.54**
2.13	0.14	0.24	0.35	0.45	0.56	0.66	0.77	0.87	0.98
90	**1.51**	**2.63**	**3.76**	**4.89**	**6.02**	**7.15**	**8.28**	**9.41**	**10.54**
2.29	0.14	0.24	0.35	0.45	0.56	0.66	0.77	0.87	0.98
96	**1.67**	**2.93**	**4.18**	**5.43**	**6.69**	**7.94**	**9.20**	**10.45**	**11.71**
2.44	0.16	0.27	0.39	0.50	0.62	0.74	0.85	0.97	1.09
102	**1.84**	**3.22**	**4.60**	**5.98**	**7.36**	**8.74**	**10.12**	**11.50**	**12.88**
2.59	0.17	0.30	0.43	0.56	0.68	0.81	0.94	1.07	1.20
108	**2.01**	**3.51**	**5.02**	**6.52**	**8.03**	**9.53**	**11.04**	**12.52**	**14.05**
2.74	0.19	0.33	0.47	0.61	0.75	0.89	1.03	1.16	1.31
114	**2.01**	**3.51**	**5.02**	**6.52**	**8.03**	**9.53**	**11.04**	**12.52**	**14.05**
2.90	0.19	0.33	0.47	0.61	0.75	0.89	1.03	1.16	1.31
120	**2.17**	**3.80**	**5.43**	**7.07**	**8.70**	**10.33**	**11.96**	**13.59**	**15.22**
3.05	0.20	0.35	0.50	0.66	0.81	0.96	1.11	1.26	1.41
126	**2.34**	**4.10**	**5.85**	**7.61**	**9.36**	**11.12**	**12.88**	**14.63**	**16.39**
3.20	0.22	0.38	0.54	0.71	0.87	1.03	1.20	1.36	1.52
132	**2.34**	**4.10**	**5.85**	**7.61**	**9.36**	**11.12**	**12.88**	**14.63**	**16.39**
3.35	0.22	0.38	0.54	0.71	0.87	1.03	1.20	1.36	1.52
138	**2.51**	**4.39**	**6.27**	**8.15**	**10.03**	**11.91**	**13.80**	**15.68**	**17.56**
3.51	0.23	0.41	0.58	0.76	0.93	1.11	1.28	1.46	1.63
144	**2.68**	**4.68**	**6.69**	**8.70**	**10.70**	**12.71**	**14.72**	**16.72**	**18.73**
3.66	0.25	0.43	0.62	0.81	0.99	1.18	1.37	1.55	1.74
150	**2.68**	**4.68**	**6.69**	**8.70**	**10.70**	**12.71**	**14.72**	**16.72**	**18.73**
3.81	0.25	0.43	0.62	0.81	0.99	1.18	1.37	1.55	1.74
156	**2.84**	**4.97**	**7.11**	**9.24**	**11.37**	**13.50**	**15.64**	**17.77**	**19.90**
3.96	0.26	0.46	0.66	0.86	1.06	1.25	1.45	1.65	1.85
162	**3.01**	**5.27**	**7.53**	**9.78**	**12.04**	**14.30**	**16.56**	**18.81**	**21.07**
4.11	0.28	0.49	0.70	0.91	1.12	1.33	1.54	1.75	1.96
168	**3.18**	**5.56**	**7.94**	**10.33**	**12.71**	**15.09**	**17.47**	**19.86**	**22.24**
4.27	0.30	0.52	0.74	0.96	1.18	1.40	1.62	1.85	2.07
174	**3.18**	**5.56**	**7.94**	**10.33**	**12.71**	**15.09**	**17.47**	**19.86**	**22.24**
4.42	0.30	0.52	0.74	0.96	1.18	1.40	1.62	1.85	2.07
180	**3.34**	**5.85**	**8.36**	**10.87**	**13.38**	**15.89**	**18.39**	**20.90**	**23.41**
4.57	0.31	0.54	0.78	1.01	1.24	1.48	1.71	1.94	2.17
186	**3.51**	**6.15**	**8.78**	**11.41**	**14.05**	**16.68**	**19.31**	**21.95**	**24.58**
4.72	0.33	0.57	0.82	1.06	1.31	1.55	1.79	2.04	2.28
192	**3.51**	**6.15**	**8.78**	**11.41**	**14.05**	**16.68**	**19.31**	**21.95**	**24.58**
4.88	0.33	0.57	0.82	1.06	1.31	1.55	1.79	2.04	2.28

Upper Numerals English Units/Lower Numerals Metric Units

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