Model A12350

12" (304.8 mm) Sightproof Fixed Acoustical Louver

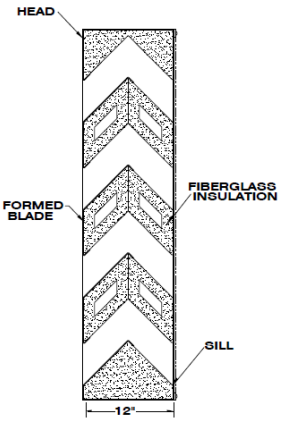
Material:

Material:	1100 Aluminum Alloy, Fiberglass 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)
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

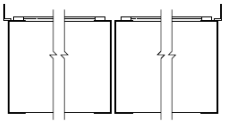


Test Summary:
For a 4 Foot by 4 Foot Unit.
Tested with mill finish and no screen

- Free area = 3.73 ft² (0.35 m²)
- Percent free area = 23.3%
- Free area velocity at the point of beginning water penetration (@ 0.01oz. / ft² of free area based on a 15 minute interval test) = 1096 FPM (5.57 m/s)
- Intake pressure drop at 1096 FPM free area velocity = 0.256 in H_2O (63.7 Pa)



SECTION VIEW



PLAN VIEW

Acoustical Data:

The louver 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 = 19

Frequency (hz)	63	125	250	500	1000	2000	4000	8000
Transmission Loss	9	7	10	14	22	24	23	22
Noise Reduction	15	13	16	20	28	30	29	28

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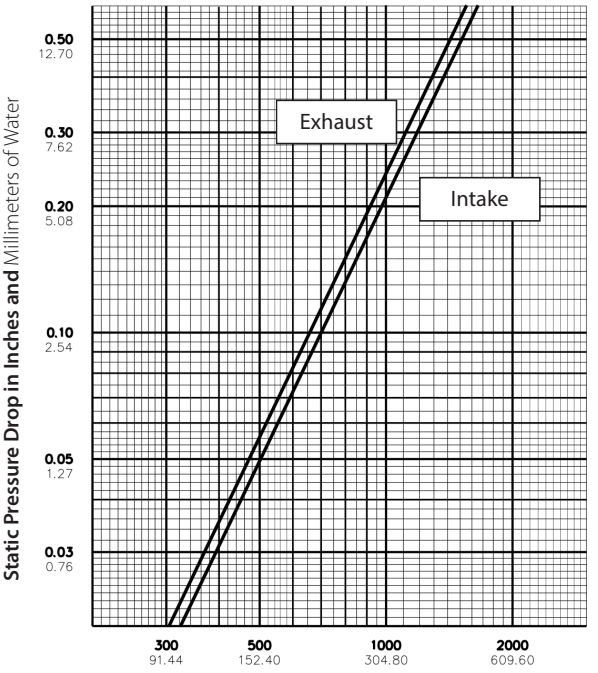
Water Penetration Statement

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

Height in Inches and Meters

	12 0.30	18 0.46	24 0.61	30 0.76	36 0.91	42 1.07	48 1.22	54 1.37	60 1.52
18	**0.23**	**0.40**	**0.57**	**0.73**	**0.90**	**1.07**	**1.24**	**1.41**	**1.58**
0.46	0.02	0.04	0.05	0.07	0.08	0.10	0.12	0.13	0.15
24	**0.23**	**0.40**	**0.57**	**0.73**	**0.90**	**1.07**	**1.24**	**1.41**	**1.58**
0.61	0.02	0.04	0.05	0.07	0.08	0.10	0.12	0.13	0.15
30	**0.45**	**0.79**	**1.13**	**1.47**	**1.81**	**2.15**	**2.49**	**2.83**	**3.17**
0.76	0.04	0.07	0.10	0.14	0.17	0.20	0.23	0.26	0.29
36	**0.45**	**0.79**	**1.13**	**1.47**	**1.81**	**2.15**	**2.49**	**2.83**	**3.17**
0.91	0.04	0.07	0.10	0.14	0.17	0.20	0.23	0.26	0.29
42	**0.68**	**1.19**	**1.70**	**2.20**	**2.71**	**3.22**	**3.73**	**4.24**	**4.75**
1.07	0.06	0.11	0.16	0.20	0.25	0.30	0.35	0.39	0.44
48	**0.68**	**1.19**	**1.70**	**2.20**	**2.71**	**3.22**	**3.73**	**4.24**	**4.75**
1.22	0.06	0.11	0.16	0.20	0.25	0.30	0.35	0.39	0.44
54	**0.90**	**1.58**	**2.26**	**2.94**	**3.62**	**4.30**	**4.97**	**5.65**	**6.33**
1.37	0.08	0.15	0.21	0.27	0.34	0.40	0.46	0.52	0.59
60	**0.90**	**1.58**	**2.26**	**2.94**	**3.62**	**4.30**	**4.97**	**5.65**	**6.33**
1.52	0.08	0.15	0.21	0.27	0.34	0.40	0.46	0.52	0.59
66	**1.13**	**1.98**	**2.83**	**3.67**	**4.52**	**5.37**	**6.22**	**7.07**	**7.91**
1.68	0.10	0.18	0.26	0.34	0.42	0.50	0.58	0.66	0.73
72	**1.13**	**1.98**	**2.83**	**3.67**	**4.52**	**5.37**	**6.22**	**7.07**	**7.91**
1.83	0.10	0.18	0.26	0.34	0.42	0.50	0.58	0.66	0.73
78	**1.36**	**2.37**	**3.39**	**4.41**	**5.43**	**6.44**	**7.46**	**8.48**	**9.50**
1.98	0.13	0.22	0.31	0.41	0.50	0.60	0.69	0.79	0.88
84	**1.36**	**2.37**	**3.39**	**4.41**	**5.43**	**6.44**	**7.46**	**8.48**	**9.50**
2.13	0.13	0.22	0.31	0.41	0.50	0.60	0.69	0.79	0.88
90	**1.58**	**2.77**	**3.96**	**5.14**	**6.33**	**7.52**	**8.71**	**9.89**	**11.08**
2.29	0.15	0.26	0.37	0.48	0.59	0.70	0.81	0.92	1.03
96	**1.81**	**3.17**	**4.52**	**5.88**	**7.24**	**8.59**	**9.95**	**11.31**	**12.66**
2.44	0.17	0.29	0.42	0.55	0.67	0.80	0.92	1.05	1.18
102	**1.81**	**3.17**	**4.52**	**5.88**	**7.24**	**8.59**	**9.95**	**11.31**	**12.66**
2.59	0.17	0.29	0.42	0.55	0.67	0.80	0.92	1.05	1.18
108	**2.03**	**3.56**	**5.09**	**6.61**	**8.14**	**9.67**	**11.19**	**12.72**	**14.24**
2.74	0.19	0.33	0.47	0.61	0.76	0.90	1.04	1.18	1.32
114	**2.03**	**3.56**	**5.09**	**6.61**	**8.14**	**9.67**	**11.19**	**12.72**	**14.24**
2.90	0.19	0.33	0.47	0.61	0.76	0.90	1.04	1.18	1.32
120	**2.26**	**3.96**	**5.65**	**7.35**	**9.04**	**10.74**	**12.44**	**14.13**	**15.83**
3.05	0.21	0.37	0.52	0.68	0.84	1.00	1.16	1.31	1.47
126	**2.26**	**3.96**	**5.65**	**7.35**	**9.04**	**10.74**	**12.44**	**14.13**	**15.83**
3.20	0.21	0.37	0.52	0.68	0.84	1.00	1.16	1.31	1.47
132	**2.49**	**4.35**	**6.22**	**8.08**	**9.95**	**11.81**	**13.68**	**15.55**	**17.41**
3.35	0.23	0.40	0.58	0.75	0.92	1.10	1.27	1.44	1.62
138	**2.49**	**4.35**	**6.22**	**8.08**	**9.95**	**11.81**	**13.68**	**15.55**	**17.41**
3.51	0.23	0.40	0.58	0.75	0.92	1.10	1.27	1.44	1.62
144	**2.71**	**4.75**	**6.78**	**8.82**	**10.85**	**12.89**	**14.92**	**16.96**	**18.99**
3.66	0.25	0.44	0.63	0.82	1.01	1.20	1.39	1.58	1.76
150	**2.71**	**4.75**	**6.78**	**8.82**	**10.85**	**12.89**	**14.92**	**16.96**	**18.99**
3.81	0.25	0.44	0.63	0.82	1.01	1.20	1.39	1.58	1.76
156	**2.94**	**5.14**	**7.35**	**9.55**	**11.76**	**13.96**	**16.17**	**18.37**	**20.58**
3.96	0.27	0.48	0.68	0.89	1.09	1.30	1.50	1.71	1.91
162	**2.94**	**5.14**	**7.35**	**9.55**	**11.76**	**13.96**	**16.17**	**18.37**	**20.58**
4.11	0.27	0.48	0.68	0.89	1.09	1.30	1.50	1.71	1.91
168	**3.17**	**5.54**	**7.91**	**10.29**	**12.66**	**15.04**	**17.10**	**19.78**	**22.16**
4.27	0.29	0.51	0.73	0.96	1.18	1.40	1.59	1.84	2.06
174	**3.17**	**5.54**	**7.91**	**10.29**	**12.66**	**15.04**	**17.10**	**19.78**	**22.16**
4.42	0.29	0.51	0.73	0.96	1.18	1.40	1.59	1.84	2.06
180	**3.99**	**5.94**	**8.48**	**11.02**	**13.57**	**16.11**	**18.65**	**21.20**	**23.74**
4.57	0.37	0.55	0.79	1.02	1.26	1.50	1.73	1.97	2.21
186	**3.99**	**5.94**	**8.48**	**11.02**	**13.57**	**16.11**	**18.65**	**21.20**	**23.74**
4.72	0.37	0.55	0.79	1.02	1.26	1.50	1.73	1.97	2.21
192	**3.62**	**6.33**	**9.04**	**11.76**	**14.47**	**17.18**	**19.90**	**22.61**	**25.32**
4.88	0.34	0.59	0.84	1.09	1.34	1.60	1.85	2.10	2.35

Upper Numerals English Units/Lower Numerals Metric Units

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