Model—AC-1220V

322mm DEEP CHEVRON BLADE HIGH FREE AREA ACOUSTIC LOUVER

"Ontario Specialty Architectural Products FZE certifies that the Storm Resistant Model "AC-1220V" 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 and Water Penetration ratings Only."

PERFORMANCE:

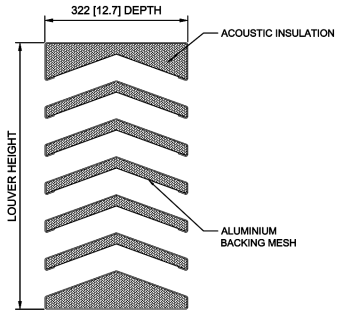
- Free Area is **54%** based on a test sample of 48in (1219mm) x 48in (1219mm)
- Free Area is **56%** based on a louver size of 48in (1219mm) x 96in (2438mm)
- Free Area Velocity at Beginning Point of Water Penetration: **727.5 fpm (3.70 m/s)**
- Intake pressure drop @ 1,000 fpm free area velocity—**0.10 in. wg (25 Pa)**
- Air Volume Flow Rate at Beginning Point of Water Penetration: **6,079 cfm (2.87 m^3/s)**

ACOUSTICAL PERFORMANCE:

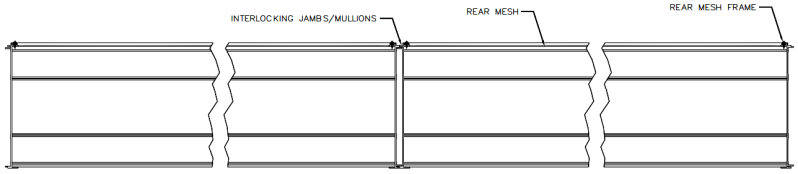
The acoustical performance reported in this document was conducted by a third party independent laboratory which conformed explicitly with **ASTM E90-09**: *"Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements."* The single number rating of the specimen was calculated according to **ASTM E413-10**: *"Classification for Rating Sound Insulation."*

- *TL Value as per ASTM standard E90-09*
- *STC Value as per ASTM standard E413-87(94)*

1/3 OCTAVE BAND AS PER ANSI S1.6								
OCTAVE BANDS (Hz)	**63**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**
Transmission Loss (dB)	7	6	4	7	13	19	14	13
Noise Reduction (dB)	13	12	10	13	19	25	20	19
STC = 12								
OITC = 8								



SECTION



PLAN

Suggested Specifications:
General: Furnish and install where indicated on drawings 12" (322mm) High Performance Acoustic Louver Model as manufactured by Ontario Specialty Architectural Products.

System Description:
OSA Acoustical louvers series; extruded aluminum construction; frame with channel profile and mechanically fastened, with continuous recessed caulking channel each side; tested to ASTM E90-09. STC 12 and OITC 10.

Material & Finishes:

1. AC-1220V comprises 12.8" formed / extruded blades and frames
2. Blades: Horizontal CHEVRON, with woven glass fiber acoustic infill
3. Frame depth: 12.8 inches (326 mm) deep
2. Metal Thickness: Frame 0.125 inch (3 mm); blades 0.067 (1.7 mm)
3. Finish: PE-SDF / PVDF / Anodize after fabrication
4. Color: As scheduled.
5. Mullions: Exposed.
6. Screens: Bird mesh / Insect mesh
7. Screen location: Interior
8. Screening Material: Aluminum / Stainless Steel

Louver Construction:

1. Wind Load Resistance: Design to resist +ve and –ve wind load of ___ psf (___kPa) without damage or permanent deformation.
2. Blades, Frames: Formed and piece extrusions with reinforcing bosses, supported and lined up with heavy-gage aluminum braces, mechanically secured aluminum and stainless steel fastenings.
3. Exposed edges and ends of metal dressed smooth, free from sharp edges.
4. Exposed connections and joints constructed to exclude water.

Optional Accessories:

- Extended Sill Flashing
- Insulated and Non-insulated Bank-off Panels
- Sub-frames
- Visible Mullions
- Invisible mullions for continuous blade and appearance.

Warranty:
OSA louvers warranted for 2 years against defective material and workmanship, and 20 Years for Finishes.

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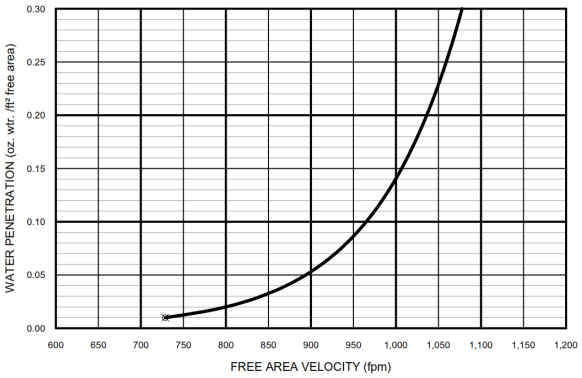
322mm DEEP CHEVRON BLADE HIGH FREE AREA ACOUSTIC LOUVER

HEIGHT (IN & *mm*)	FREE AREA (ft² and *m²*) — WIDTH (IN & *mm*)									
	12	**24**	**36**	**48**	**60**	**72**	**84**	**96**	**108**	**120**
	305	*610*	*914*	*1219*	*1524*	*1829*	*2134*	*2438*	*2743*	*3048*
12	**0.30**	**0.64**	**0.98**	**1.33**	**1.67**	**2.01**	**2.35**	**2.69**	**3.03**	**3.38**
305	*0.03*	*0.06*	*0.09*	*0.12*	*0.16*	*0.19*	*0.22*	*0.25*	*0.28*	*0.31*
24	**0.75**	**1.61**	**2.46**	**3.31**	**4.17**	**5.02**	**5.88**	**6.73**	**7.59**	**8.44**
610	*0.07*	*0.15*	*0.23*	*0.31*	*0.39*	*0.47*	*0.55*	*0.63*	*0.71*	*0.78*
36	**1.20**	**2.57**	**3.94**	**5.30**	**6.67**	**8.04**	**9.41**	**10.77**	**12.14**	**13.50**
914	*0.11*	*0.24*	*0.37*	*0.49*	*0.62*	*0.75*	*0.87*	*1.00*	*1.13*	*1.26*
48	**1.96**	**4.18**	**6.39**	**8.62**	**10.84**	**13.06**	**15.28**	**17.50**	**19.72**	**21.94**
1219	*0.18*	*0.39*	*0.59*	*0.801*	*1.01*	*1.21*	*1.42*	*1.63*	*1.83*	*2.04*
60	**2.41**	**5.14**	**7.87**	**10.61**	**13.34**	**16.08**	**18.81**	**21.54**	**24.27**	**27.01**
1524	*0.22*	*0.48*	*0.73*	*0.99*	*1.24*	*1.49*	*1.75*	*2.00*	*2.26*	*2.51*
72	**3.01**	**6.43**	**9.84**	**13.26**	**16.68**	**20.10**	**23.51**	**26.92**	**30.34**	**33.76**
1829	*0.28*	*0.60*	*0.91*	*1.23*	*1.55*	*1.87*	*2.19*	*2.50*	*2.82*	*3.14*
84	**3.46**	**7.39**	**11.31**	**15.25**	**19.18**	**23.11**	**27.04**	**30.96**	**34.89**	**38.82**
2134	*0.32*	*0.69*	*1.05*	*1.42*	*1.78*	*2.15*	*2.51*	*2.88*	*3.24*	*3.61*
96	**4.06**	**8.68**	**13.28**	**17.90**	**22.51**	**27.13**	**31.74**	**36.35**	**40.96**	**45.58**
2438	*0.38*	*0.81*	*1.23*	*1.66*	*2.09*	*2.52*	*2.95*	*3.38*	*3.81*	*4.24*
108	**4.52**	**9.65**	**14.76**	**19.89**	**25.01**	**30.14**	**35.27**	**40.38**	**45.51**	**50.64**
2743	*0.42*	*0.90*	*1.37*	*1.85*	*2.33*	*2.80*	*3.28*	*3.75*	*4.23*	*4.71*
120	**5.12**	**10.93**	**16.72**	**22.54**	**28.35**	**34.16**	**39.97**	**45.77**	**51.58**	**57.39**
3048	*0.48*	*1.02*	*1.55*	*2.09*	*2.64*	*3.18*	*3.72*	*4.25*	*4.79*	*5.33*

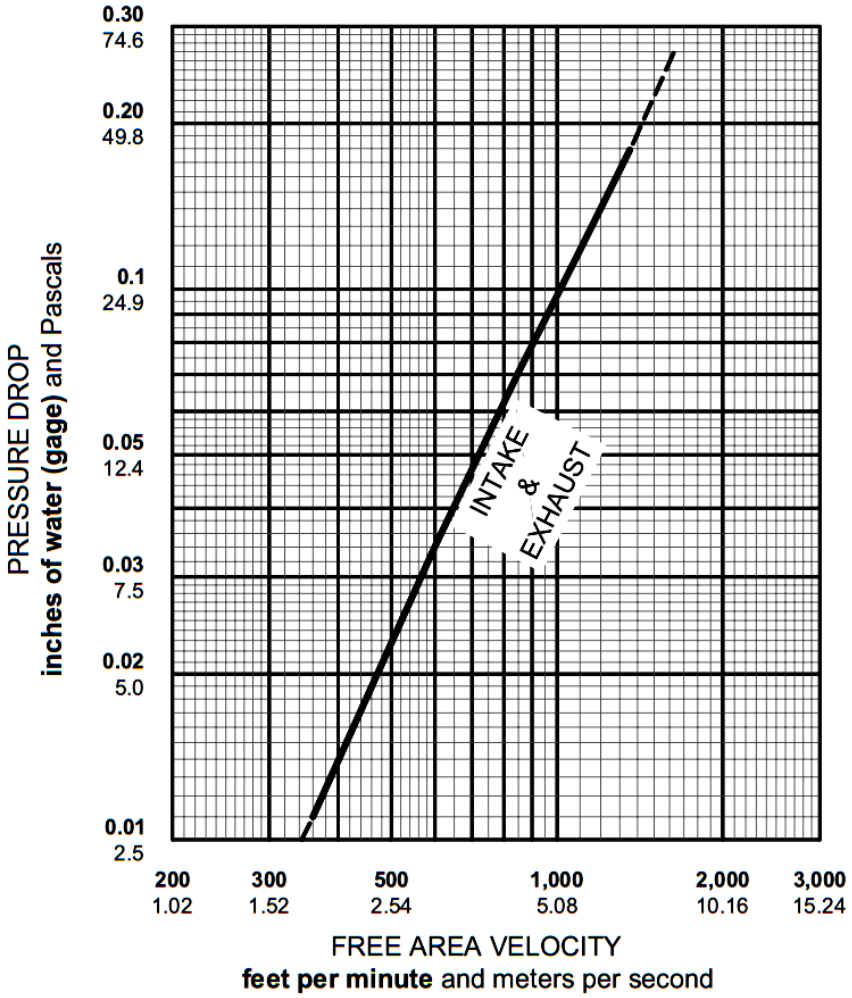
Free Area for 48in (1219mm) Width X 96in (2438mm) Height

WATER PENETRATION

Standard Air = 0.75 lb. / ft³



The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The point of zero water penetration is defined as that velocity where the water penetration curve projects through .01 oz of water penetration per sq. ft. of louver area. **The beginning point of water penetration for AC-1220V is 727.5 fpm free area velocity**.



Test Data

- Published data is in accordance with ANSI/AMCA 500-L, Figure 5.5. The AMCA Certified Ratings Seal applies to Air Performance in the intake & exhaust airflow directions. Data corrected to standard air density. Test Sample Size 48”x48”.