

Acoustic Louver - AL

B-30 Series

Models : AL-AB-30-100A

Single Bank Depth (D): 100 to 450 mm

Type : A - Hole Perforations 3 mm*; B - Hole Perforations 5 mm

BETEC CAD. B-30 Series Acoustic louvers design provides least air resistance and significant attenuation to the openings or enclosures with less pressure drop.

Standard Construction

Frame

1.2 mm aluminium sheet.

Blade

Double skin blade type with outer face 0.7 mm aluminium sheet and Inner perforated face 0.9 mm galvanized steel sheet .

Acoustic infill

48 kg/m³ density rockwool covered with black glass tissue

Finish

Mill finish

Optional Fittings

Perforated sheet

Aluminium 0.9 mm thick

Insulation

Fiberglass with 48 kg/m³ density with 50 mm thickness

Screen

G.I Steel 0.4 mm thick.

S-3 SS Bird screen

S-10 SS Fly screen

Finish

Available with RAL powder coating, please specify colour

Supports

G.I / Al angles.

Optional Construction

Frame : Thickness up to 2 mm

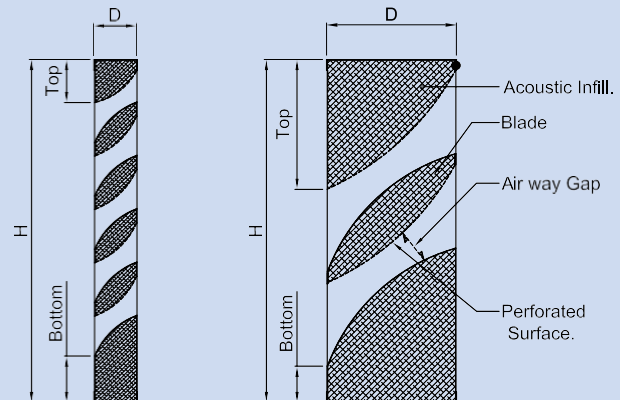
Blade : Thickness up to 2 mm

BETEC CAD. Industries FZC certifies that model **AL-AB-30-100/300A** acoustic louver is licensed to bear the **AMCA** seal. The ratings shown are based on tests and procedures performed in accordance with the requirements of the **AMCA** Certified Ratings Program. The **AMCA** seal applies to air performance and Sound.



Construction Details of B-30 Series Louvers

Single Bank Louver



AL-GB-30-100A

AL-GB-30-600A

B -30 Series Model Details (Single Bank)

Model	Frame		Blade	
	Material	Thick	Material	Thick
AL-AB-30-100	AL	1.2 mm	AL	0.9 mm
AL-AB-30-200	AL	1.2 mm	AL	0.9 mm
AL-AB-30-300	AL	1.2 mm	AL	0.9 mm
AL-AB-30-450	AL	1.5 mm	AL	1.2 mm
AL-AB-30-600	AL	1.5 mm	AL	1.2 mm
AL-GB-30-100	GI	0.9 mm	GI	0.7 mm
AL-GB-30-200	GI	0.9 mm	GI	0.7 mm
AL-GB-30-300	GI	0.9 mm	GI	0.7 mm
AL-GB-30-450	GI	1.2 mm	GI	0.9 mm
AL-GB-30-600	GI	1.2mm	GI	0.9 mm

Module Details

Module	Width x Height (mm)
Single Section Minimum	300 x 300 mm
Single Section Maximum	2.2 Mtrs x 2.2 Mtrs
Multiple	Contact BETEC CAD.

Note : Please contact **BETEC CAD.** for customized design & additional information.

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.

Engineering And Performance Data -AL

B-30 Series

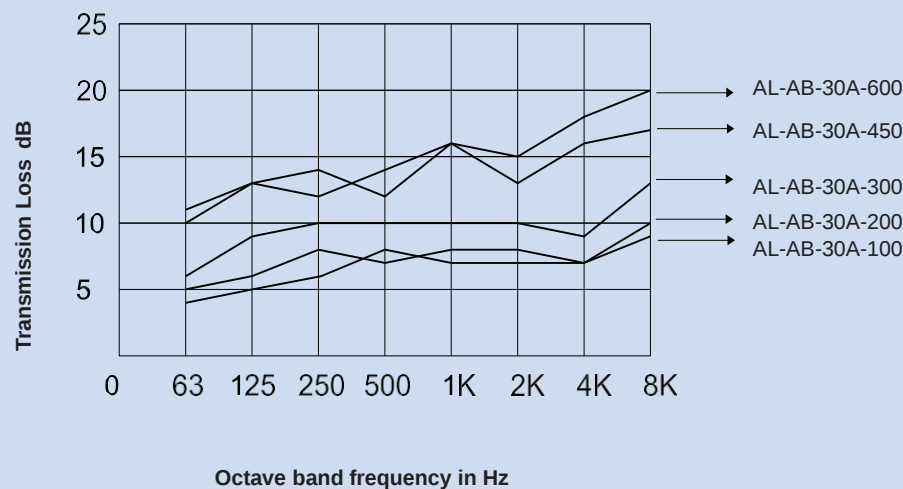
Selection Graph for Acoustic Louvers based on Free Area Vs Passage Velocity / Face Velocity.

AcousticLouver Model :AL-AB-30-100/200/300/450/600A



AMCA Tested Models :AL-AB-30-100/300A

B-30 Series - Single Bank Acoustic Louver															
Depth	Model	Octave Band Transmission Loss (dB)								Free Area %	Free Area Velocity (fpm)				
											400	600	800	1600	2000
		63	125	250	500	1000	2000	4000	8000		Pressure Drop (in. w.g)				
100	AL-AB-30-100A	4	5	6	8	7	7	7	9	29.2	0.009	0.02	0.039	0.13	0.22
200	AL-AB-30-200A	5	6	8	7	8	8	7	10	23	0.009	0.019	0.04	0.12	0.23
300	AL-AB-30-300A	6	9	10	10	10	10	9	13	20	0.0085	0.018	0.032	0.11	0.2
450	AL-AB-30-450A	10	13	12	14	16	13	16	17	16	0.0089	0.02	0.0315	0.13	0.23
600	AL-AB-30-600A	11	13	14	12	16	15	18	20	13	0.009	0.019	0.04	0.14	0.24



Noise Reduction

The free field noise reduction of an acoustic panel is the difference, in decibels, between the sound pressure level by the noise generating source and radiated sound power levels, by the walls and the surrounding structure, measured at actual levels.

Acoustic Panels Test Method

The sound power levels have been derived based on Test methods used are in accordance with 1987 ASHRAE HVAC Systems and applications Hand Book Chapter 52,

Accuracy: This is a prediction method based on an accepted method, which has demonstrated satisfactory results in field applications. However field test results may generate sound pressure levels which differ from these predicted values, as the current state of the art in determining sound power varies in accuracy from 2 dB in mid range 250 to 4K Hz bands, 3 to 4 dB in 125 and 8K Hz bands and up to 6 to 8 dB in 63 Hz band

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Engineering And Performance Data - AL

B-30 Series

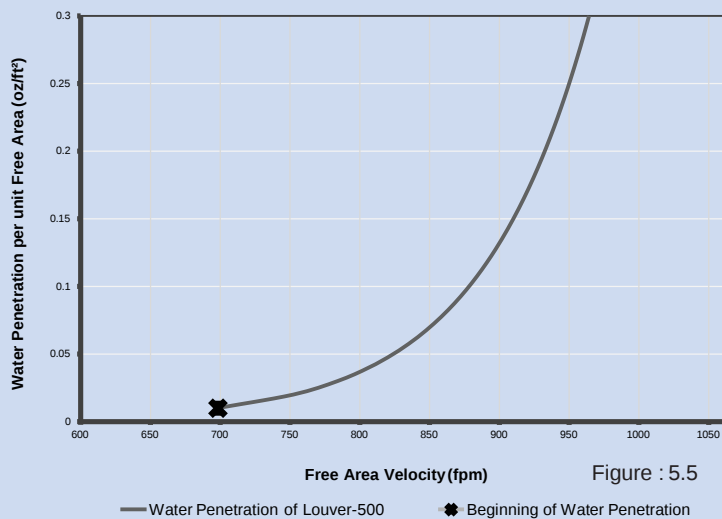
Selection Graph for Acoustic Louvers based on Free Area Vs Passage Velocity / Face Velocity.

AcousticLouver Model :AL-AB-30-100/200/300/450/600A

Water Penetration V/S Free Area Velocity graph

Model: AL-AB-30-100A ; Size: 48" x 48"

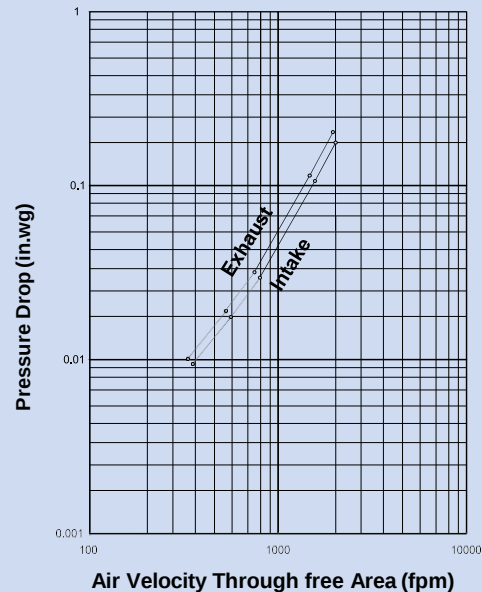
Water Penetration of Louver-500



AMCA Standard 500-L-07 Water Penetration Test (15 minutes test duration) The beginning point of water penetration is greater than 698.5fpm.

Pressure Drop V/S Free Area Velocity graph

Model: AL-AB-30-100A ; Size: 48" x 48"

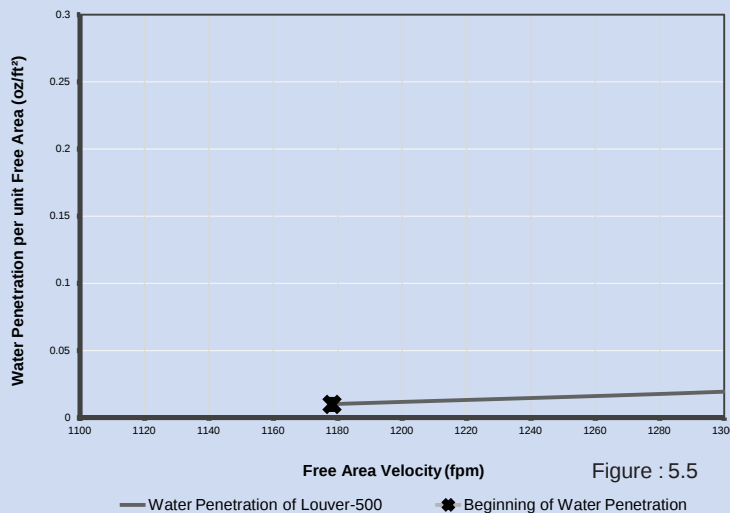


AMCA Standard 500-L-12 Pressure Drop Test. Data is corrected to standard air density.

Water Penetration V/S Free Area Velocity graph

Model: AL-AB-30-300A ; Size: 48" x 48"

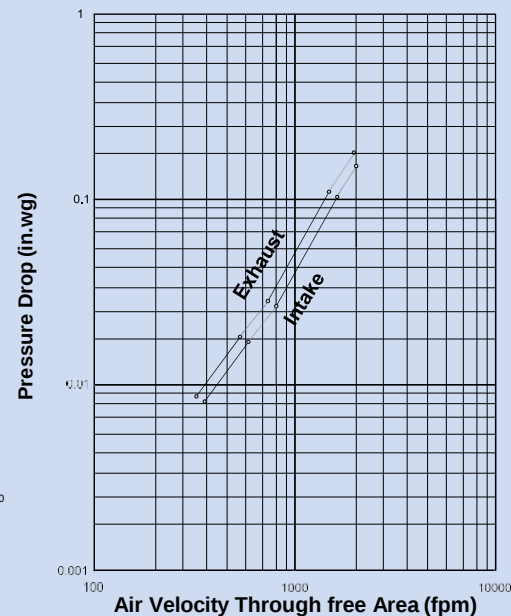
Water Penetration of Louver-500



AMCA Standard 500-L-07 Water Penetration Test (15 minutes test duration) The beginning point of water penetration is greater than 1177.4 fpm.

Pressure Drop V/S Free Area Velocity graph

Model: AL-AB-30-300A ; Size: 48" x 48"



AMCA Standard 500-L-12 Pressure Drop Test. Data is corrected to standard air density.

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