

AMCA500-L Tested Weather Louver

B-30 Series

Wind Driven Rain Louver

Model : WL-AB-32C

Type : C - Flush Mounted

BETEC CAD. Manufactures Model WL AB 32C weather louver which are designed for both intake and exhaust air applications, with and without damper combinations. These louvers have been designed for minimum pressure loss and low self-generated aerodynamic noise.

Standard Construction

Frame Material

120 mm deep, 2 mm thick extruded aluminum.

Blade Material

2 mm extruded aluminum.

Blade Orientation

Horizontal.

Blade Type

Fixed.

Finish

Mill finish.

Optional Fittings

Screen

Galvanized Steel 0.4mm Thick

S-3 SS Bird screen

S-10 SS Fly screen

Finish

Available with RAL Powder coating, please specify color.



BETEC CAD. Industries (FZC) Certifies Model **WL-AB-32C** Weather Louvers 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, wind-driven rain and water penetration ratings for Aluminum louvers only.

Features

- Closely spaced horizontal blades minimize the penetration of wind-driven rain, reducing damage and additional operating expenses.
- Excellent pressure drop performance.
- Free area - 38.8%
- Performance as per AMCA 500 - L
- Aluminum construction for low maintenance and high resistance to corrosion.

AB-30Series Model Details				
Meterial Construction				
Model	Frame		Blade	
	Material	Thick	Material	Thick
WL-AB-32C	AL	2mm	AL	2mm

• Alphabet indicates the type of installation

C - Flush Mounted

Any Combination of W x H										
WL-AB-32C										
Width in Inches	4"	6"	10"	12"	16"	20"	30"	36"	48"	96"
Height in inches	4"	6"	10"	12"	16"	20"	30"	36"	48"	96"

Note: Maximum single module Construction - 2 x 2 meters
Multiple module available with mullion.

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.

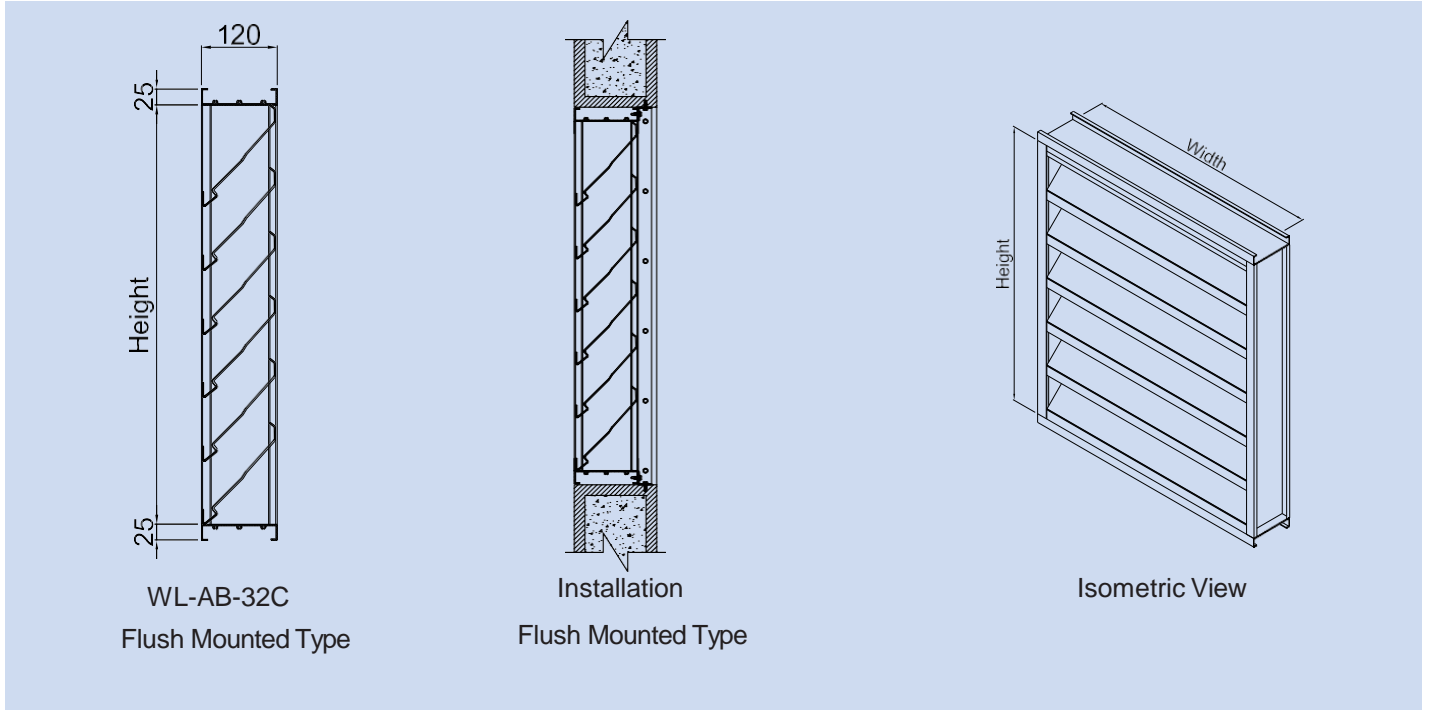


AMCA500-L Tested Weather Louver Constructional Details

B-30 Series

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AMCA500-L Tested Weather Louver
B-30 Series
Engineering and Performance Data

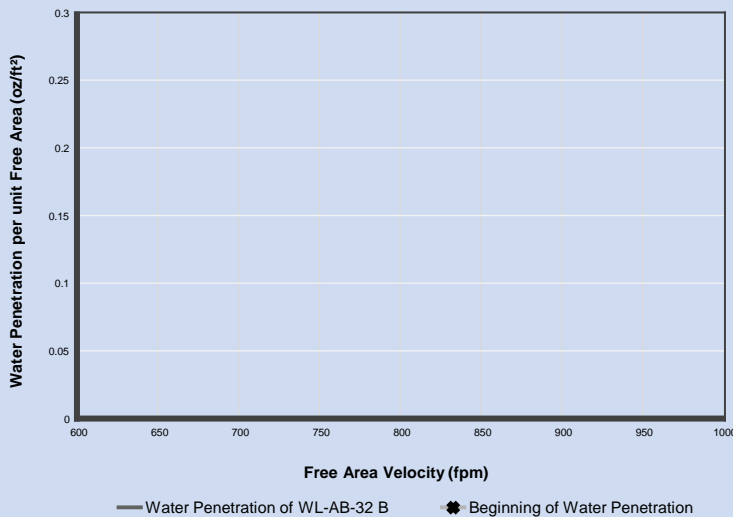
Louver Free Area Model : WL-AB-32C

Free area in sq. meters											
W/H	300	450	600	750	900	1050	1200	1500	1800	2100	2400
300	0.011	0.028	0.047	0.064	0.080	0.099	0.116	0.152	0.187	0.223	0.256
450	0.020	0.049	0.083	0.111	0.140	0.174	0.203	0.265	0.328	0.391	0.448
600	0.029	0.070	0.118	0.159	0.200	0.249	0.290	0.379	0.469	0.558	0.641
750	0.037	0.091	0.153	0.207	0.261	0.323	0.377	0.493	0.609	0.725	0.833
900	0.046	0.112	0.189	0.255	0.321	0.398	0.464	0.607	0.750	0.893	1.025
1050	0.054	0.133	0.224	0.302	0.381	0.472	0.551	0.721	0.890	1.060	1.217
1200	0.063	0.154	0.259	0.350	0.441	0.547	0.638	0.834	1.031	1.227	1.409
1500	0.080	0.195	0.330	0.446	0.561	0.696	0.812	1.062	1.312	1.562	1.794
1800	0.097	0.237	0.401	0.541	0.682	0.845	0.985	1.289	1.593	1.897	2.178
2100	0.114	0.279	0.472	0.637	0.802	0.994	1.159	1.517	1.874	2.232	2.563
2400	0.131	0.321	0.542	0.732	0.922	1.143	1.333	1.744	2.155	2.567	2.947

Water Penetration V/S Free Area Velocity Graph

Model : WL-AB-32C; Size : 48" x 48"

Water Penetration of WL-AB-32 B



AMCA Standard 500-L Water Penetration Test (15 minutes test duration)
The beginning point of water penetration is greater than 1250 fpm.

* Test data that goes above 1250 fpm, is beyond the limitations of chamber / software and is considered excellent as far as a "beginning point of water penetration".

Water Penetration V/S Free Area Velocity Graph

Model : WL-AB-32C; Size : 48" x 48"

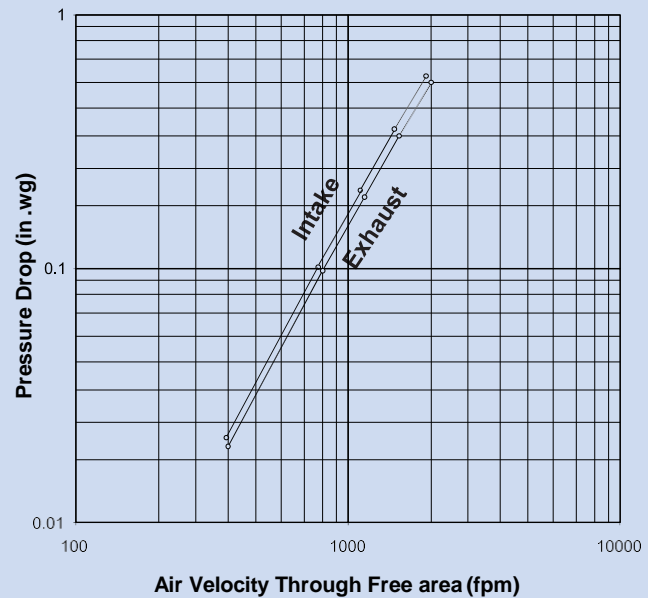


Fig 5.5

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

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B-30 Series
Wind - Driven Rain Performance

Test size is 39.375" x 39.375" Core area

29 mph (46 kph) wind & 3" per hour rain condition			
Ventilation Air Velocity (fpm)	Ventilation Air Flow (cfm)	Water Penetration Effectiveness %	Water Penetration Classification
0	0	98.3	B
136	1463	97.3	B
196	2112	97.2	B
279	3003	96.9	B
375	4040	96.9	B
466	5016	95.7	B
584	6293	93.5	C
682	7346	93.1	C
782	8417	91.2	C
864	9307	78.2	D
991	10668	58.7	D

NOTES

1. Wind Driven Rain Penetration Classes:

Class Effectiveness

A	1 to .99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

2. Intake Discharge Loss Class 2

Discharge Loss Coefficient is calculated by dividing a louvers' actual airflow rate vs. a theoretical airflow for the opening. It provides an indication of the louvers' airflow characteristics.

Discharge Loss Classes:
Class Discharge Loss Coefficient:

1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and below

(The higher the coefficient, the less resistance to airflow.)

3. The AMCA Wind Driven Rain Test is performed in a laboratory environment and incorporates controlled wind, water and system airflow effects. In actual field installations, storms may create conditions not considered by the AMCA test.

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