

BC 07



BETEC CAD.

Weather Louvers



WL-AB-40C

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



Globally Recognized. Industry Respected.

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Weather Louver - WL

Weather Louvers

BETEC CAD. manufactures weather louver, which are designed for both intake and exhaust air applications. These weather louvers have been designed to ensure that the basic parameters of minimum pressure loss, low self-generated aerodynamic noise, minimum water ingress and aesthetical appearance are satisfied.



WL-AB-31A

Standard Types and Models				
Item	Series	Model	Specification	Construction
WL	B - 10	1	Light Duty Louvers	Aluminium*
				Galvanized
				Stainless Steel
	B - 20	1 2	Non - Drainable Louvers Aerofoil Blade Louvers	Aluminium*
				Galvanized
				Stainless Steel
	BC - 30	1 2	Stationary Louvers (Heavy Duty) Wind Driven Rain Louvers	Aluminium*
				Aluminium*
MWL	B-50	1 2	Motorized Single Skin Blade - Louvers Motorized Aerofoil Blade - Louvers	Aluminium*
				Galvanized
				Stainless Steel

Material Details

All types and models of Weather Louvers are available in Galvanized Steel, Stainless Steel & Aluminium according to the design and application.

Sheet Metal Galvanized Steel (GI)

Zinc coating Z-22 to Z-27 as per **ASTM-A653** Standards.

Sheet Metal Aluminium (AL)

Aluminium Sheet as per Alloy **A1100** Standards.
Extruded aluminium as per Alloy **6063 A** Standards.

Sheet Metal Stainless Steel (SS)

Stainless steel **304 / 316L**.

Applications:

GI Construction : For **HVAC** commercial, Residential etc.

AL Construction: For Hospitals, Labs, Green Building etc.

SS Construction: For Offshore, Oil & Gas etc.

The respective alphabet indicates the type of material.

G - Galvanized steel (**GI**)

S - Stainless steel (**SS**)

A - Aluminum (**AL**)

Alphabet indicates the type of installation.

A - Wall Mounted.

B - Duct Mounted.

C - Flush Mounted.

BETEC CAD's Weather Louvers are manufactured as per international standards and confirmed to **ADC 1062 ; GRD 84 and AMCA standards 500-83.**

Note: * Indicates **BETEC CAD's** Standard Construction.

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AMCA500-L Tested Weather Louver

Light Duty Non-Drainable Louver

Model : WL-AB-11A/B/C

Type : **A*** - Wall Mounted; **B** - Duct Mounted; **C** - Flush Mounted

BETEC CAD. Manufactures Model WL AB 11 A/B/C weather louver to suit various ventilation applications.

Weather louvers B-10 series is light duty model construction, suitable for the duct or wall mounting applications in **HVAC** systems, for air ventilation i.e, intake or exhaust these louvers are available with filters and dampers suitable for AHU's fresh air intake.

Standard Construction

Frame

45 mm deep, 1mm thick extruded aluminum.

Blades

1.2 mm thick extruded aluminum.

Blade Orientation

Horizontal.

Blade Type

Fixed.

Blade Angle

45° Degree

Finish :

Mill finish

Optional Fittings

Screen

Galvanized Steel 0.4mm thick

S-3 SS Bird screen

S-10 SS Fly screen

Filter

13 / 25 mm thick aluminum filter

Damper

Control Damper

Finish

Available with RAL Powder coating, please specify color.

Optional Construction Details

Frame : Thickness up to 4 mm

Blade : Thickness up to 4 mm

Note :

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



BETEC CAD. Industries FZC. certifies that model WL-AB-11A/B/C Weather 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 water penetration for Weather louvers only.

Features

- Closely spaced horizontal blades minimize the penetration of wind-driven rain, reducing damage and additional operating expenses.
- Free Area - 41.8%
- Performance as per AMCA 500 - L
- Excellent pressure drop performance.
- Aluminum construction for low maintenance and high resistance to corrosion.

B10 Series Models details				
Material Construction				
Model	Frame		Blade	
	Material	Thick	Material	Thick
WL-AB-11A/B/C	AL	1 mm	AL	1.2 mm
WL-GB-11A/B/C	GI	0.9 mm	GI	1.2 mm
WL-SB-11A/B/C	SS	0.9 mm	SS	1.2 mm

Alphabet indicates the type of installation

A - Wall Mounted

B - Duct Mounted

C - Flush Mounted

Any Combination of W x H										
WL-AB-11A/B/C										
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 - 1200 x 1200 mm

Multiple module available with mullion.

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

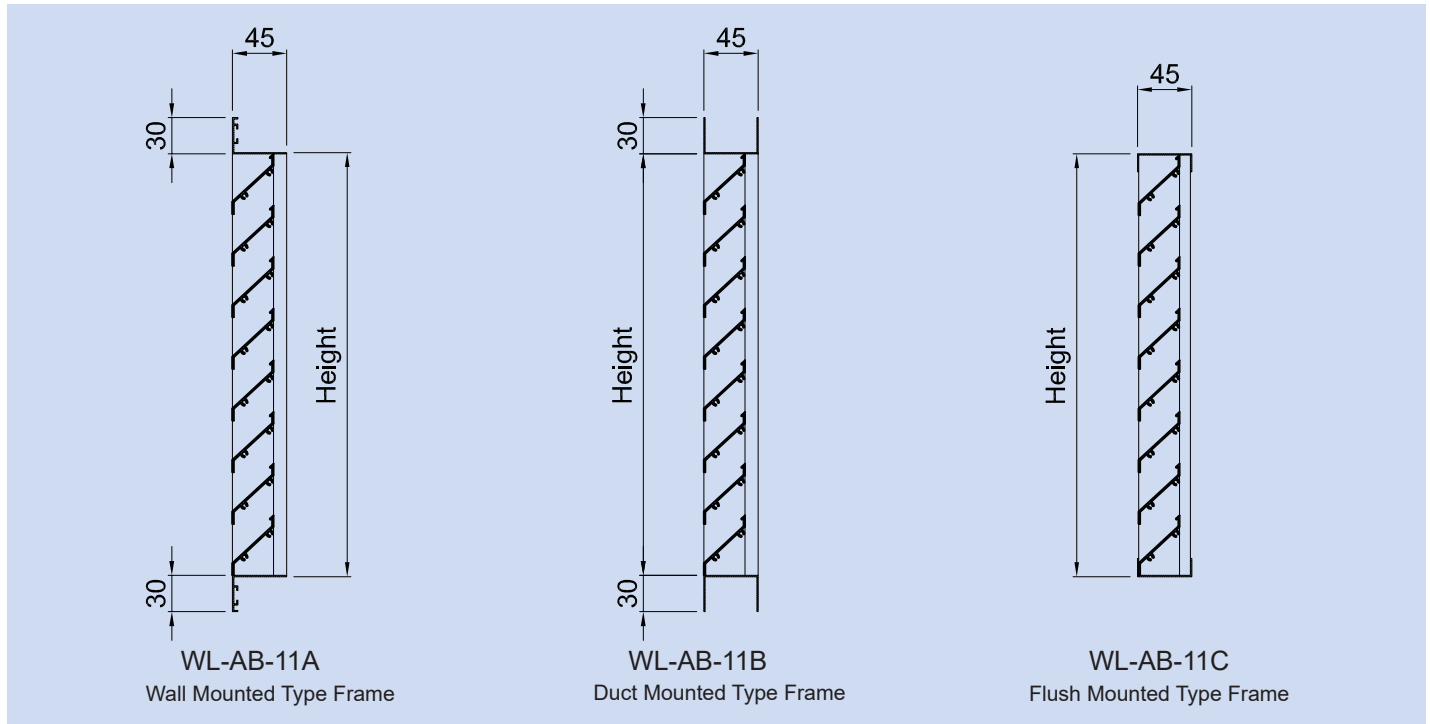


AMCA500-L Tested Weather Louver Constructional Details

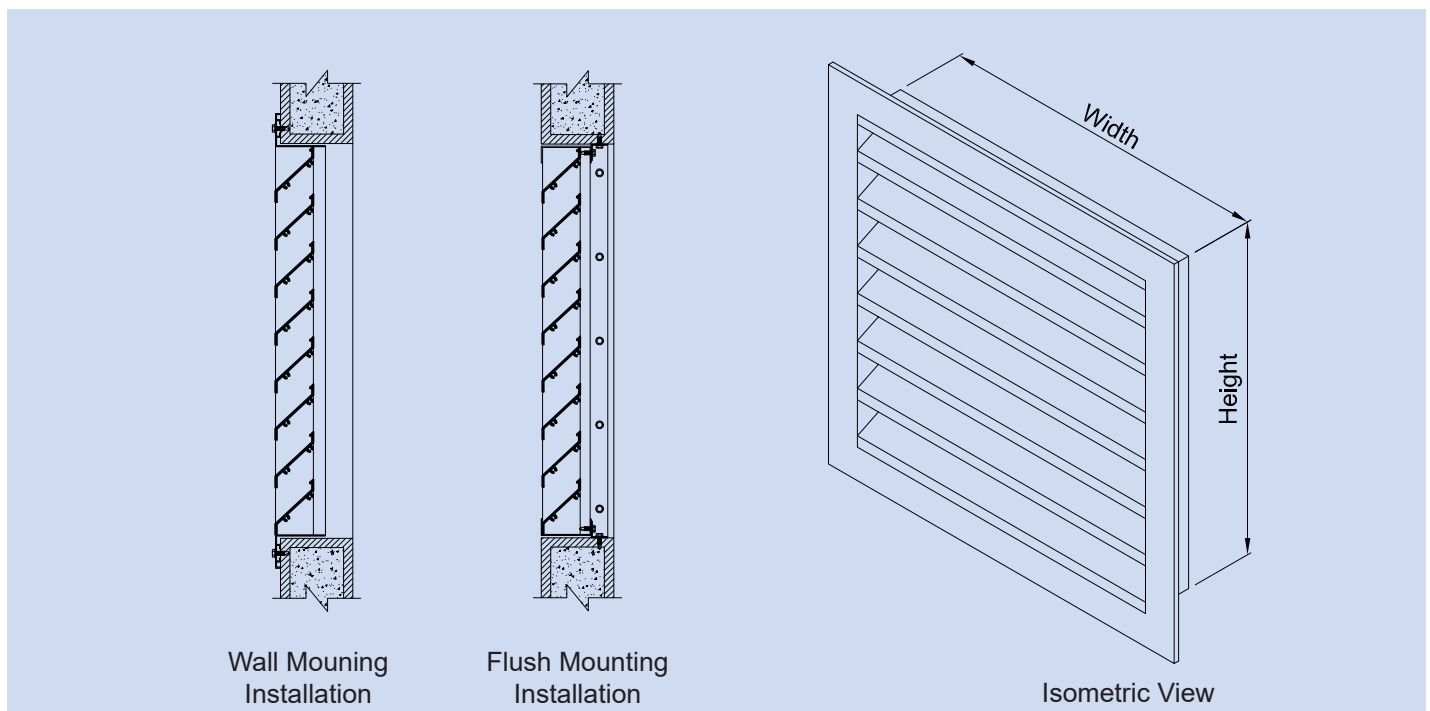
B-10 Series

Model : WL-AB-11A/B/C

A* - Wall Mounted; B - Duct Mounted; C - Flush Mounted



Installation Details



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

AMCA500-L Tested Weather Louver

B-10 Series

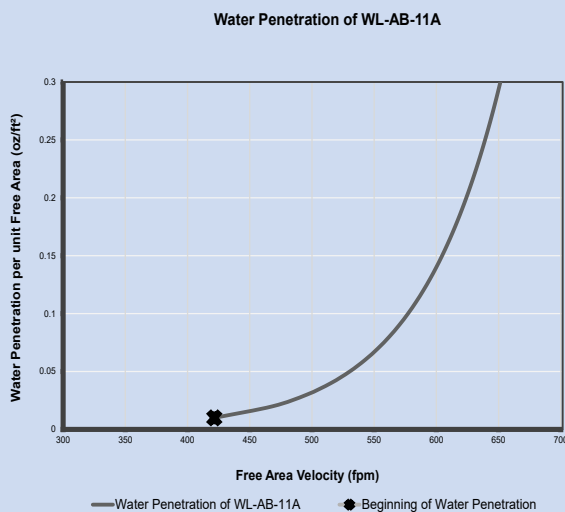
Engineering and Performance Data

Louver Free Area(m²) **Model : WL-AB-11A/B/C**

Height	Width																		
		300	450	600	750	900	1050	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
	300	0.02	0.04	0.06	0.08	0.09	0.11	0.15	0.16	0.18	0.20	0.22	0.23	0.25	0.27	0.29	0.30	0.32	0.34
	450	0.04	0.07	0.10	0.13	0.16	0.18	0.24	0.27	0.30	0.33	0.36	0.39	0.41	0.44	0.47	0.50	0.53	0.56
	600	0.06	0.10	0.14	0.18	0.22	0.26	0.34	0.38	0.42	0.46	0.50	0.54	0.58	0.62	0.66	0.70	0.74	0.78
	750	0.07	0.13	0.18	0.23	0.28	0.33	0.43	0.49	0.54	0.59	0.64	0.69	0.74	0.79	0.85	0.90	0.95	1.00
	900	0.09	0.15	0.22	0.28	0.34	0.40	0.53	0.59	0.66	0.72	0.78	0.84	0.91	0.97	1.03	1.10	1.16	1.22
	1050	0.11	0.18	0.25	0.33	0.40	0.48	0.63	0.70	0.77	0.85	0.92	1.00	1.07	1.15	1.22	1.29	1.37	1.44
	1350	0.14	0.24	0.33	0.43	0.53	0.62	0.82	0.91	1.01	1.11	1.21	1.30	1.40	1.50	1.59	1.69	1.79	1.88
	1500	0.15	0.26	0.37	0.48	0.59	0.70	0.91	1.02	1.13	1.24	1.35	1.45	1.56	1.67	1.78	1.89	2.00	2.10
	1650	0.17	0.29	0.41	0.53	0.65	0.77	1.01	1.13	1.25	1.37	1.49	1.61	1.73	1.85	1.97	2.09	2.21	2.33
	1800	0.19	0.32	0.45	0.58	0.71	0.84	1.10	1.24	1.37	1.50	1.63	1.76	1.89	2.02	2.15	2.28	2.42	2.55
	1950	0.21	0.35	0.50	0.64	0.79	0.93	1.22	1.37	1.51	1.66	1.81	1.95	2.10	2.24	2.39	2.53	2.68	2.82
	2100	0.22	0.38	0.54	0.69	0.85	1.01	1.32	1.48	1.63	1.79	1.95	2.10	2.26	2.42	2.57	2.73	2.89	3.04
	2250	0.24	0.41	0.58	0.74	0.91	1.08	1.42	1.58	1.75	1.92	2.09	2.26	2.42	2.59	2.76	2.93	3.10	3.26
	2400	0.26	0.44	0.61	0.79	0.97	1.15	1.51	1.69	1.87	2.05	2.23	2.41	2.59	2.77	2.95	3.13	3.31	3.48
	2550	0.27	0.46	0.65	0.84	1.04	1.23	1.61	1.80	1.99	2.18	2.37	2.56	2.75	2.94	3.13	3.32	3.51	3.71
	2700	0.29	0.49	0.69	0.89	1.10	1.30	1.70	1.91	2.11	2.31	2.51	2.71	2.92	3.12	3.32	3.52	3.72	3.93
	2850	0.30	0.52	0.73	0.95	1.16	1.37	1.80	2.01	2.23	2.44	2.65	2.87	3.08	3.29	3.51	3.72	3.93	4.15
	3000	0.32	0.55	0.77	1.00	1.22	1.45	1.89	2.12	2.34	2.57	2.79	3.02	3.24	3.47	3.69	3.92	4.14	4.37

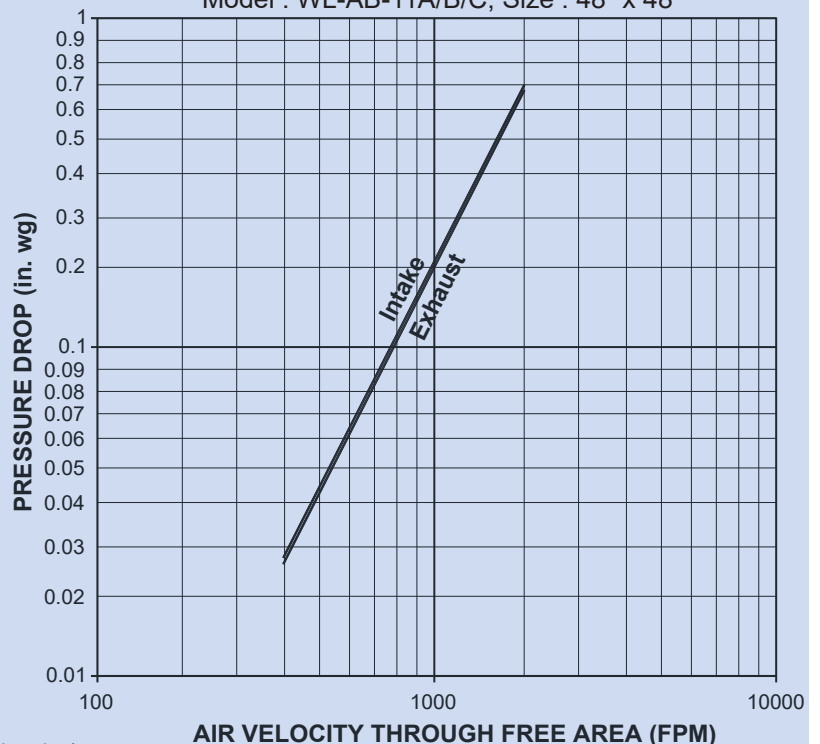
Water Penetration V/S Free Area Velocity Graph

Model : WL-AB-11A/B/C; Size : 48" x 48"



AMCA Standard 500-L Water Penetration Test (15 minutes test duration)
The beginning point of water penetration @ 425 fpm.

Water Penetration V/S Free Area Velocity Graph
Model : WL-AB-11A/B/C; Size : 48" x 48"



AMCA Standard 500-L Pressure Drop Test.

Data is corrected to standard air density.

BETEC CAD. Industries FZC. certifies that model **WL-AB-11A/B/C** Weather 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 water penetration for Weather louvers only.



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AMCA500-L Tested Weather Louver

B-20 Series

Heavy Duty Non-Drainable Louver

Model : WL-AB-21A/B/C

Type : **A*** - Wall Mounted; **B** - Duct Mounted; **C** - Flush Mounted

BETEC CAD. Manufactures Model WL AB 21A/B/C weather louver with and without damper combinations, which are designed for both intake and exhaust air applications. These louvers have been designed for minimum pressure loss and low self-generated aerodynamic noise.

Standard Construction

Frame Material

70 mm deep 2mm thick extruded aluminum angle.

Blade Material

1.5 mm thick extruded aluminum.

Blade Orientation

Horizontal.

Blade Type

Fixed.

Blade Angle

45° Degree.

Finish

Mill finish.

Optional Fittings

Screen

Galvanized Steel 0.4mm thick

S-3 SS Bird screen

S-10 SS Fly screen

Filter

13 / 25 mm thick aluminum filter

Damper

Control Damper.

Finish

Available with RAL Powder coating, please specify color.

Optional Construction Details

Frame : Thickness up to 4 mm

Blade : Thickness up to 4 mm

Note :

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



BETEC CAD. Industries FZC. certifies that model **WL-AB-21A/B/C** Weather 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 water penetration for Weather louvers only.

Features

- Closely spaced horizontal blades minimize the penetration of wind-driven rain, reducing damage and additional operating expenses.
- Free Area 45.4%
- Performance as per AMCA 500 - L
- Excellent pressure drop performance.
- Aluminum construction for low maintenance and high resistance to corrosion.

B-20 Series Models details				
Material Construction				
Model	Frame		Blade	
	Material	Thick	Material	Thick
WL-AB-21A/B/C	AL	2 mm	AL	1.5 mm
WL-GB-21A/B/C	GI	1.5 mm	GI	1.2 mm
WL-SB-21A/B/C	SS	1.5 mm	SS	1.2 mm

Alphabet indicates the type of installation

A - Wall Mounted

B - Duct Mounted

C - Flush Mounted

Any Combination of W x H										
WL-AB-21A/B/C										
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 1.5 meters.

Multiple module available with mullion.

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

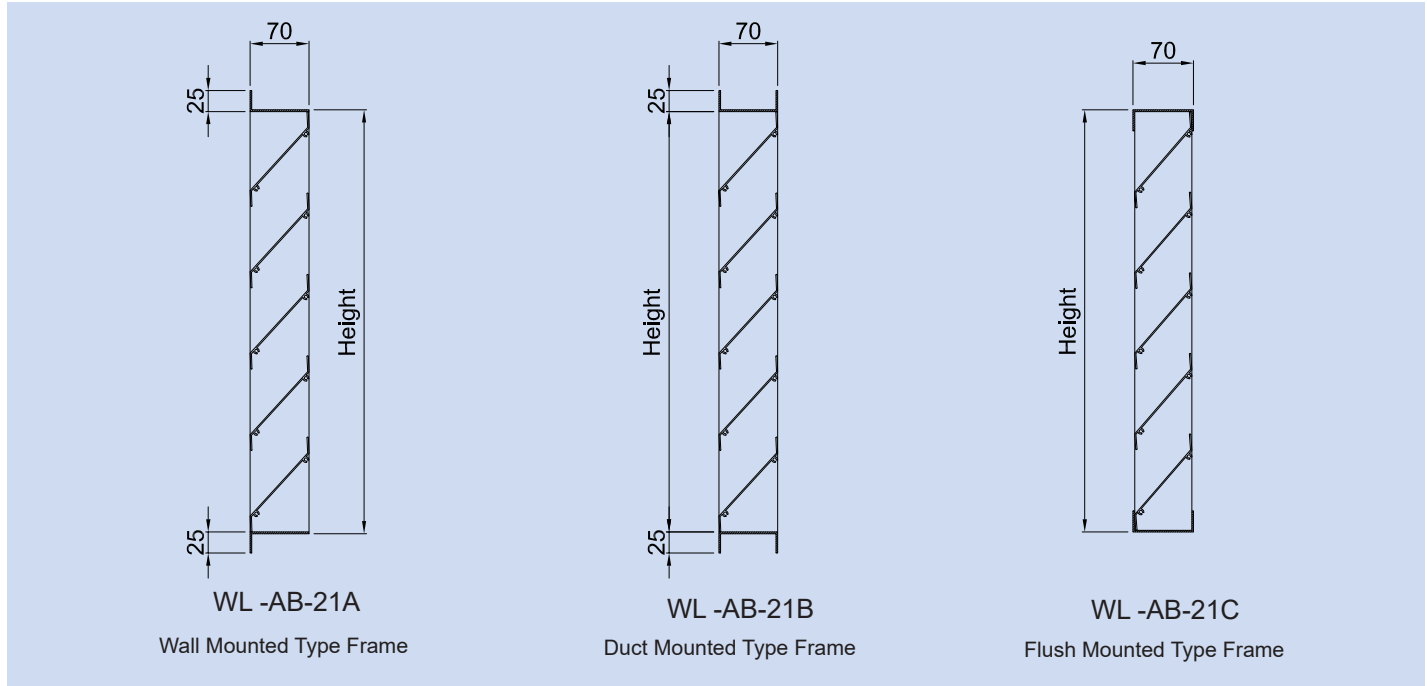


AMCA500-L Tested Weather Louver Constructional Details

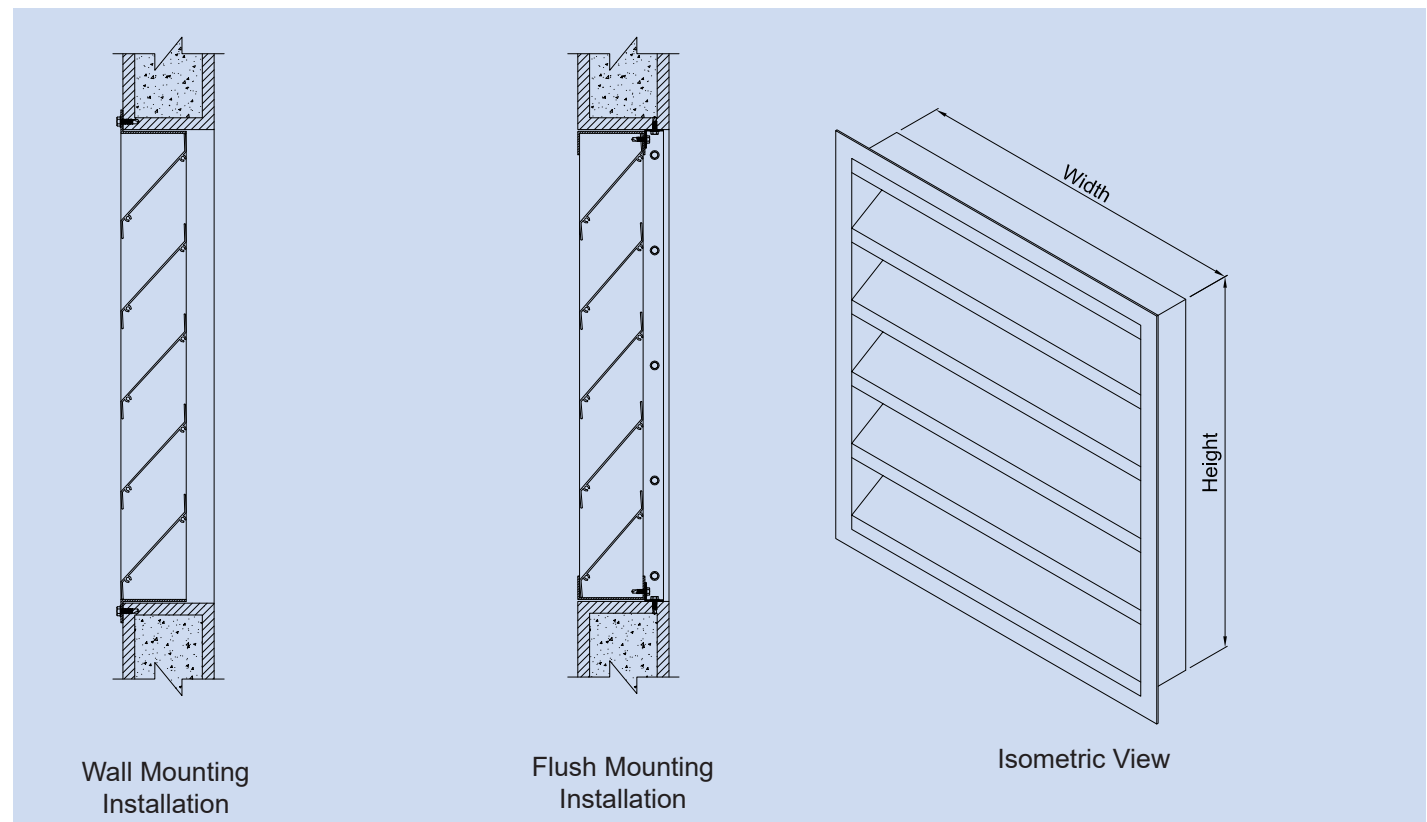
B-20 Series

Model : WL-AB-21A/B/C

A* - Wall Mounted; B - Duct Mounted; C - Flush Mounted



Installation Details



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

AMCA500-L Tested Weather Louver

B-20 Series

Engineering and Performance Data

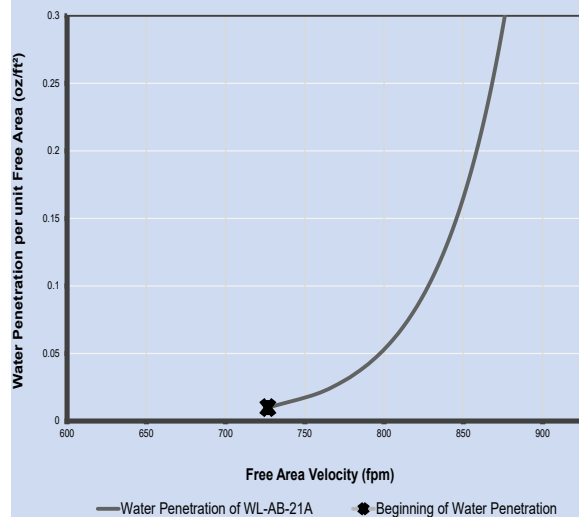
Louver Free Area(m²) **Model : WL- AB-21A/B/C**

Height	Width																	
	300	450	600	750	900	1050	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
300	0.02	0.04	0.05	0.06	0.08	0.09	0.12	0.13	0.15	0.16	0.18	0.19	0.21	0.22	0.23	0.25	0.26	0.28
450	0.04	0.06	0.08	0.11	0.13	0.16	0.20	0.23	0.25	0.28	0.30	0.32	0.35	0.37	0.39	0.42	0.44	0.47
600	0.06	0.10	0.14	0.18	0.22	0.26	0.34	0.38	0.42	0.46	0.50	0.54	0.58	0.62	0.66	0.70	0.74	0.78
750	0.07	0.12	0.17	0.22	0.27	0.32	0.42	0.47	0.52	0.57	0.62	0.67	0.72	0.77	0.82	0.87	0.92	0.97
900	0.09	0.15	0.21	0.27	0.33	0.39	0.51	0.57	0.63	0.68	0.74	0.80	0.86	0.92	0.98	1.04	1.10	1.16
1050	0.10	0.17	0.24	0.31	0.38	0.45	0.59	0.66	0.73	0.80	0.87	0.94	1.00	1.07	1.14	1.21	1.28	1.35
1350	0.14	0.24	0.33	0.43	0.52	0.62	0.81	0.90	1.00	1.09	1.19	1.28	1.38	1.48	1.57	1.67	1.76	1.86
1500	0.16	0.26	0.37	0.47	0.58	0.68	0.89	1.00	1.10	1.21	1.31	1.42	1.52	1.63	1.73	1.84	1.94	2.05
1650	0.18	0.30	0.42	0.54	0.67	0.79	1.03	1.15	1.27	1.39	1.51	1.63	1.76	1.88	2.00	2.12	2.24	2.36
1800	0.20	0.33	0.46	0.59	0.72	0.85	1.11	1.24	1.37	1.50	1.63	1.77	1.90	2.03	2.16	2.29	2.42	2.55
1950	0.21	0.35	0.49	0.63	0.77	0.91	1.19	1.33	1.48	1.62	1.76	1.90	2.04	2.18	2.32	2.46	2.60	2.74
2100	0.22	0.37	0.53	0.68	0.83	0.98	1.28	1.43	1.58	1.73	1.88	2.03	2.18	2.33	2.48	2.63	2.78	2.93
2250	0.25	0.41	0.58	0.75	0.91	1.08	1.41	1.58	1.75	1.91	2.08	2.25	2.41	2.58	2.75	2.91	3.08	3.25
2400	0.26	0.44	0.62	0.79	0.97	1.14	1.50	1.67	1.85	2.03	2.20	2.38	2.55	2.73	2.91	3.08	3.26	3.44
2550	0.28	0.46	0.65	0.84	1.02	1.21	1.58	1.77	1.95	2.14	2.32	2.51	2.70	2.88	3.07	3.25	3.44	3.63
2700	0.30	0.50	0.71	0.91	1.11	1.31	1.72	1.92	2.12	2.32	2.53	2.73	2.93	3.13	3.33	3.54	3.74	3.94
2850	0.32	0.53	0.74	0.95	1.16	1.38	1.80	2.01	2.22	2.44	2.65	2.86	3.07	3.28	3.49	3.71	3.92	4.13
3000	0.33	0.55	0.77	1.00	1.22	1.44	1.88	2.10	2.33	2.55	2.77	2.99	3.21	3.43	3.66	3.88	4.10	4.32

Water Penetration V/S Free Area Velocity Graph

Model : WL-AB-21A/B/C; Size : 48" x 48"

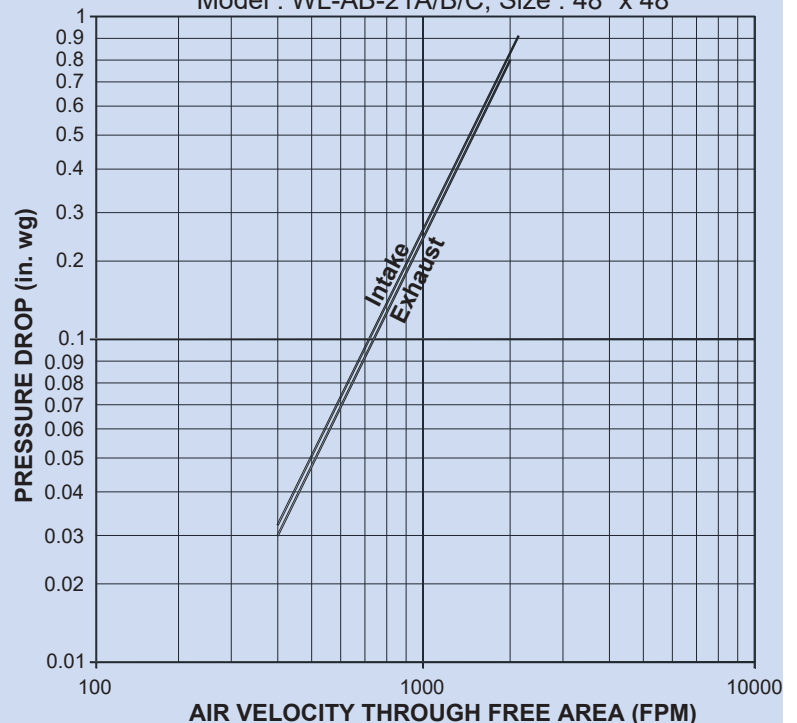
Water Penetration of WL-AB-21A



AMCA Standard 500-L Water Penetration Test (15 minutes test duration)
The beginning point of water penetration @ 725 fpm.

Water Penetration V/S Free Area Velocity Graph

Model : WL-AB-21A/B/C; Size : 48" x 48"



AIR VELOCITY THROUGH FREE AREA (FPM)

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

BETEC CAD. Industries FZC. certifies that model **WL-AB-21A/B/C** Weather 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 water penetration for Weather louvers only.



AMCA500 - L Tested Weather Louvers

B-20 Series

Heavy Duty Non-Drainable Louver

Model : WL-AB-22A/A/B/C

Type : A* - Wall Mounted; **B** - Duct Mounted; **C** - Flush Mounted

BETEC CAD. Manufactures Model WL AB 22A/B/C Aerofoil blade weather louver which are designed for both intake and exhaust air applications. These louvers have been designed to ensure to meet minimum pressure loss and water ingress with high free area.

Aerofoil blade design ensure less pressure drop at high air volume & velocity.

Standard Construction

Frame Material

100 mm deep, 3 mm thick extruded aluminum.

Blade Material

2 mm thick Aerofoil extruded aluminum.

Blade Orientation

Horizontal.

Blade Type

Fixed.

Blade Angle

45° Degree.

Finish

Mill finish.

Optional Fittings

Screen

Galvanized Steel 0.4mm thick

S-3SS Bird screen

S-10 SS Fly screen

Filter

13 / 25 mm thick aluminum filter.

Damper

Control Damper.

Finish

Available with RAL Powder coating, please specify color.

Note :

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



BETEC CAD. Industries FZC. certifies that model **WL-AB-22A/B/C** Weather 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 water penetration for Weather louvers only.

Features

- Low pressure drop performance with high free area.
- Aluminum construction for low maintenance and high resistance to corrosion.
- Free Area - 34.1%
- Performance as per AMCA 500 - L
- Excellent pressure drop performance.

B-20 Series Model Details				
Material Construction				
Model	Frame		Blade	
	Material	Thick	Material	Thick
WL-AB-22A/B/C	AL	3 mm	AL	2 mm

- Alphabet indicates the type of installation

A - Wall Mounted

B - Duct Mounted

C - Flush Mounted

Any Combination of W x H										
WL-AB-22A/B/C										
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.

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



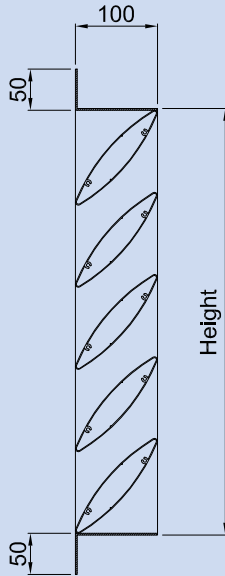
AMCA500 - L Tested Weather Louvers

B-20 Series

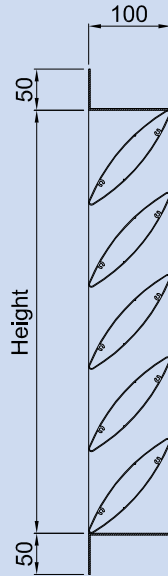
Constructional Details

Model : WL-AB-22A/B/C

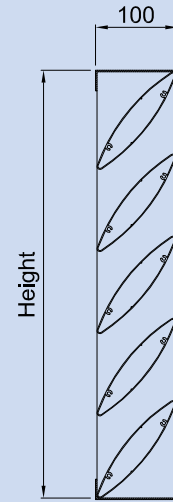
A* - Wall Mounted; B - Duct Mounted; C - Flush Mounted



WL -AB-22A
Wall Mounted

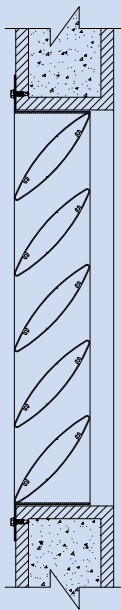


WL -AB-22B
Duct Mounted

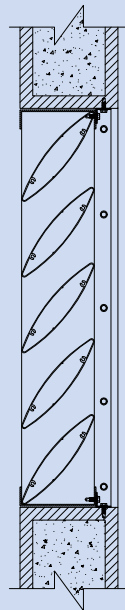


WL -AB-22C
Flush Mounted

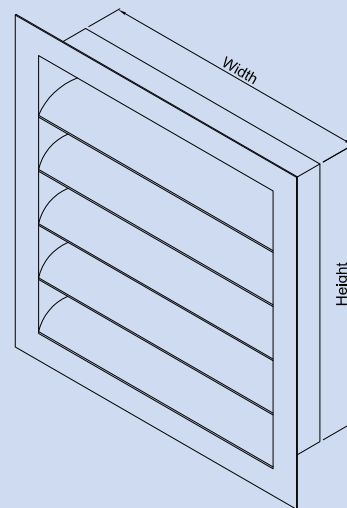
Installation Details



Wall Mounting
Installation



Flush Mounting
Installation



Isometric View

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

AMCA500-L Tested Weather Louver

B-20 Series

Engineering and Performance Data

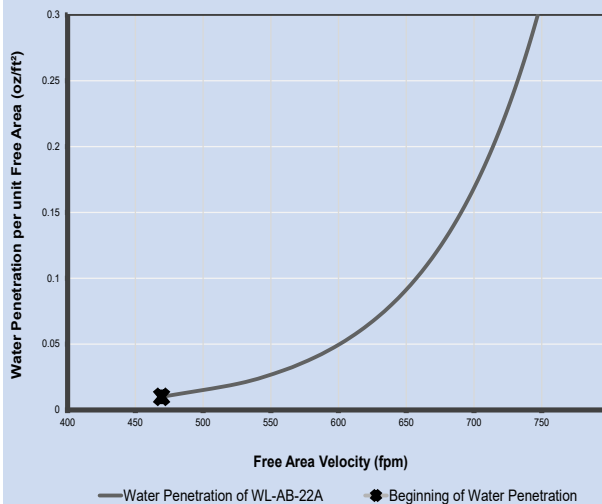
Louver Free Area (m²) Model : WL-AB-22A/B/C

Height	Width											
	L --->	300	450	600	750	900	1050	1200	1500	1800	2100	2400
Height	300	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.08
	450	0.03	0.04	0.06	0.08	0.10	0.12	0.14	0.18	0.22	0.26	0.29
	600	0.03	0.06	0.08	0.11	0.13	0.15	0.18	0.23	0.27	0.32	0.37
	750	0.05	0.09	0.13	0.16	0.20	0.24	0.28	0.36	0.43	0.51	0.58
	900	0.06	0.10	0.14	0.19	0.23	0.27	0.32	0.40	0.49	0.58	0.66
	1050	0.06	0.11	0.16	0.21	0.26	0.31	0.35	0.45	0.55	0.64	0.74
	1200	0.08	0.14	0.21	0.27	0.33	0.39	0.46	0.58	0.70	0.83	0.95
	1500	0.11	0.19	0.27	0.35	0.43	0.51	0.59	0.76	0.92	1.08	1.24
	1800	0.12	0.21	0.30	0.40	0.49	0.58	0.67	0.85	1.03	1.22	1.40
	2100	0.15	0.26	0.37	0.48	0.59	0.70	0.81	1.03	1.25	1.47	1.69
	2400	0.17	0.30	0.43	0.56	0.69	0.82	0.95	1.20	1.46	1.72	1.98

Water Penetration V/S Free Area Velocity Graph

Model : WL-AB-22A/B/C; Size : 48" x 48"

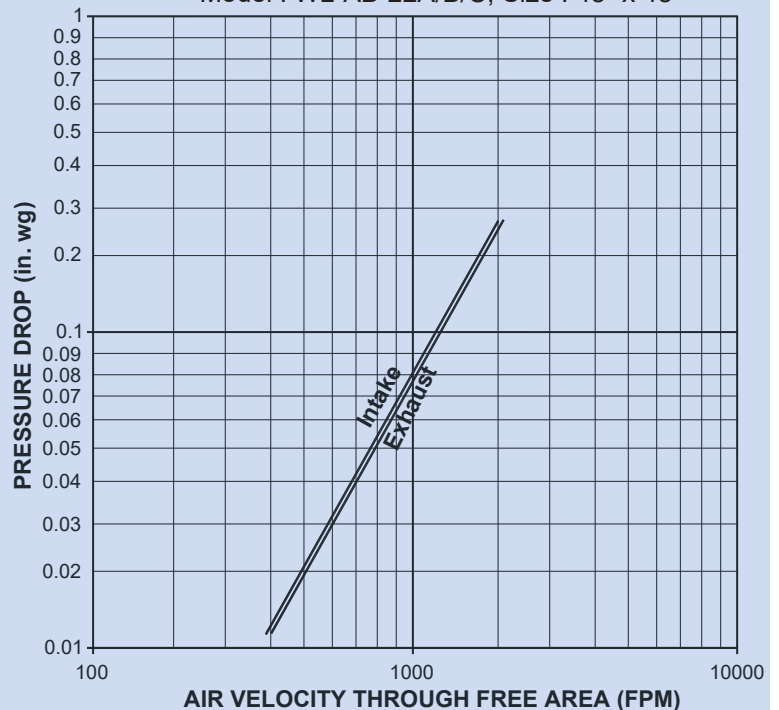
Water Penetration of WL-AB-22A



AMCA Standard 500-L Water Penetration Test (15 minutes test duration)
The beginning point of water penetration @ 460 fpm.

Water Penetration V/S Free Area Velocity Graph

Model : WL-AB-22A/B/C; Size : 48" x 48"



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

BETEC CAD. Industries FZC. certifies that model **WL-AB-22A/B/C** Weather 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 water penetration for Weather louvers only.

Note:

Exhaust pressure drop graph not tested with **AMCA**.



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



AMCA500-L Tested Weather Louver

B-30 Series

Heavy duty **Stationary** Louver

Model : WL-AB-31A/B/C

Type : **A*** - Wall Mounted; **B** - Duct Mounted; **C** - Flush Mounted

BETEC CAD. Manufactures Model WL AB 31 A/B/C 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 and water penetration ratings for Aluminum louvers only.

Standard Construction

Frame Material

100 mm deep, 3 mm thick extruded aluminum.

Blade Material

2 mm thick extruded aluminum.

Blade Orientation

Horizontal.

Blade Type

Fixed.

Blade Angle

45° Degree

Finish

Mill finish

Optional Fittings

Screen

Galvanized Steel 0.4mm thick

S-3 SS Bird screen

S-10 SS Fly screen

Filter

13 / 25 mm thick aluminum filter

Damper

Control Damper.

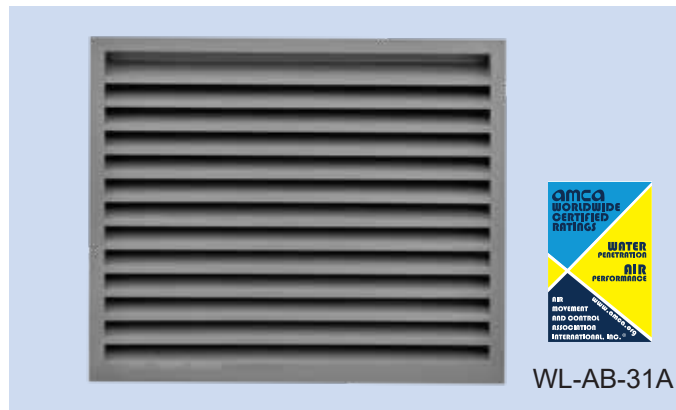
Finish

Available with RAL Powder coating, please specify color.

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.



BETEC CAD. Industries (FZC) Certifies Model **WL-AB-31A/B/C** 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 and water penetration ratings for Aluminum louvers only.

Features

- Performance as per AMCA 500 - L
- Excellent pressure drop performance.
- Aluminum construction for low maintenance and high resistance to corrosion.
- Heavy duty durable construction.
- Free area - 52%
- Beginning of water Penetration @ fpm 1045

B-30 Series Model Details				
Material Construction				
Model	Frame		Blade	
	Material	Thick	Material	Thick
WL-BC-31A/B/C	AL	3 mm	AL	2 mm

Alphabet indicates the type of installation

A - Wall Mounted

B - Duct Mounted

C - Flush Mounted

Any Combination of W x H										
WL-AB-31A/B/C										
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 1.5 meters.

Multiple module available with mullion.

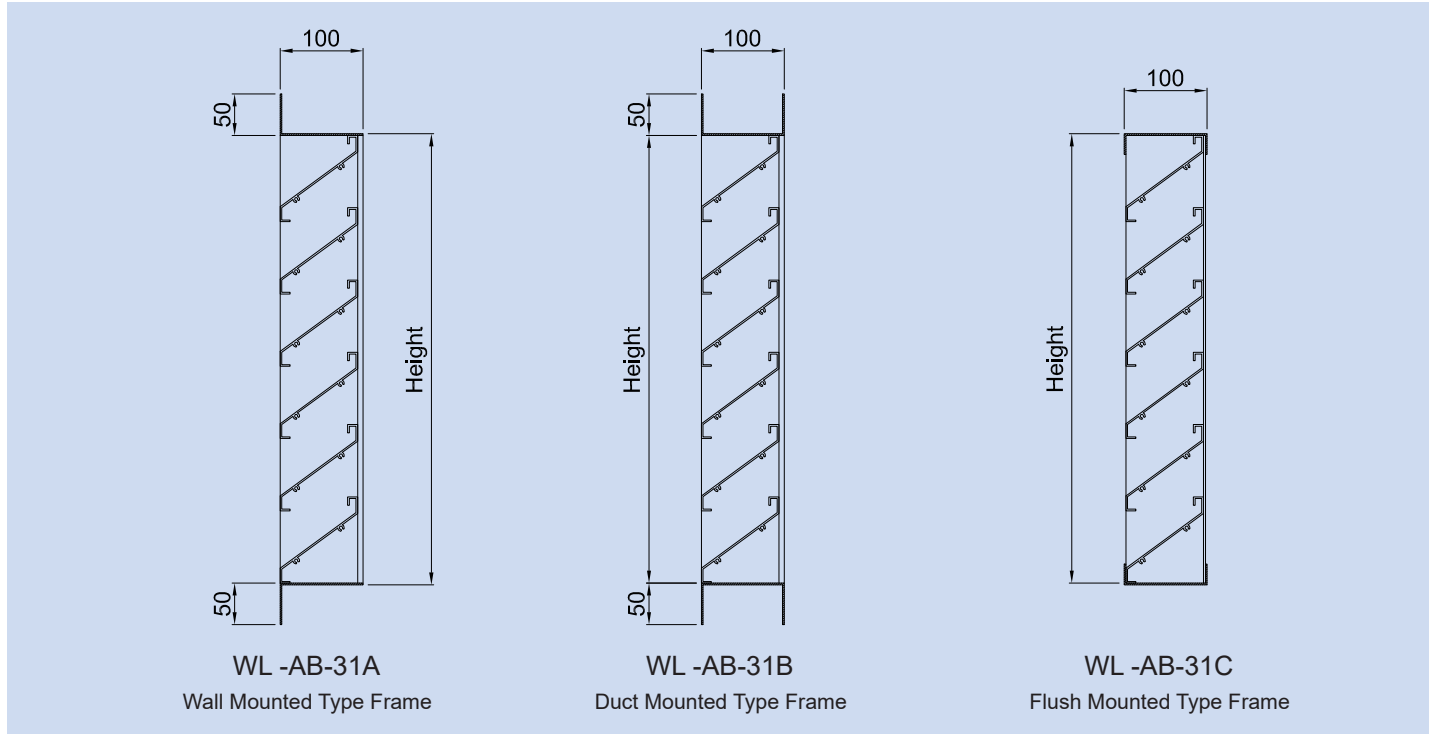
AMCA500-L Tested Weather Louver

B-30 Series

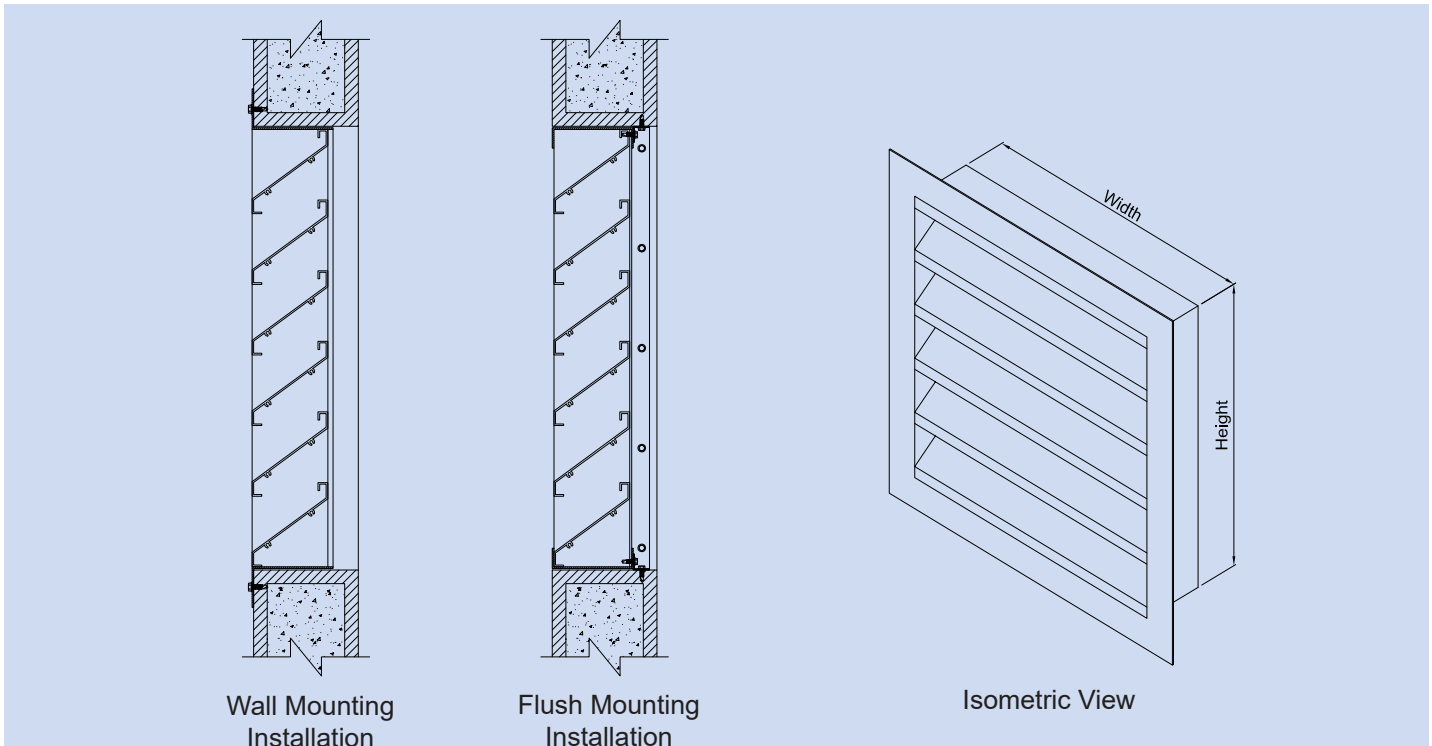
Constructional Details

Model : WL-AB-31A/B/C

A* - Wall Mounted; B - Duct Mounted; C - Flush Mounted



Installation Details :



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

AMCA500-L Tested Weather Louver

B-30 Series

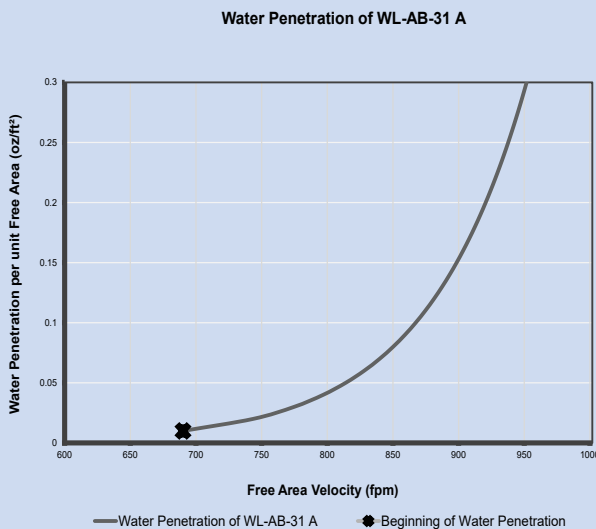
Engineering and Performance Data

Louver Free Area (m²) Model : WL-AB-31A/B/C

Height	Width																	
	300	450	600	750	900	1050	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
300	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
450	0.04	0.06	0.09	0.12	0.14	0.17	0.22	0.25	0.27	0.30	0.33	0.35	0.38	0.41	0.43	0.46	0.49	0.51
600	0.05	0.09	0.12	0.16	0.20	0.24	0.31	0.35	0.38	0.42	0.46	0.50	0.53	0.57	0.61	0.64	0.68	0.72
750	0.06	0.11	0.16	0.21	0.26	0.30	0.40	0.45	0.50	0.54	0.59	0.64	0.69	0.73	0.78	0.83	0.88	0.93
900	0.09	0.15	0.21	0.28	0.34	0.41	0.54	0.60	0.67	0.73	0.79	0.86	0.92	0.99	1.05	1.12	1.18	1.25
1050	0.10	0.18	0.25	0.33	0.40	0.48	0.63	0.70	0.78	0.85	0.93	1.00	1.08	1.15	1.23	1.30	1.38	1.45
1350	0.14	0.24	0.34	0.44	0.55	0.65	0.85	0.95	1.06	1.16	1.26	1.36	1.47	1.57	1.67	1.77	1.88	1.98
1500	0.15	0.26	0.38	0.49	0.60	0.72	0.94	1.05	1.17	1.28	1.39	1.51	1.62	1.73	1.84	1.96	2.07	2.18
1650	0.17	0.30	0.43	0.56	0.69	0.82	1.08	1.21	1.34	1.47	1.60	1.73	1.86	1.99	2.11	2.24	2.37	2.50
1800	0.19	0.33	0.47	0.61	0.75	0.89	1.17	1.31	1.45	1.59	1.73	1.87	2.01	2.15	2.29	2.43	2.57	2.71
1950	0.21	0.37	0.52	0.68	0.84	0.99	1.31	1.46	1.62	1.78	1.93	2.09	2.25	2.40	2.56	2.72	2.87	3.03
2100	0.22	0.39	0.56	0.73	0.89	1.06	1.39	1.56	1.73	1.90	2.06	2.23	2.40	2.57	2.73	2.90	3.07	3.24
2250	0.24	0.42	0.59	0.77	0.95	1.13	1.48	1.66	1.84	2.02	2.20	2.37	2.55	2.73	2.91	3.08	3.26	3.44
2400	0.26	0.45	0.65	0.84	1.04	1.23	1.62	1.82	2.01	2.20	2.40	2.59	2.79	2.98	3.18	3.37	3.57	3.76
2550	0.27	0.48	0.68	0.89	1.09	1.30	1.71	1.92	2.12	2.33	2.53	2.74	2.94	3.15	3.35	3.56	3.76	3.97
2700	0.29	0.50	0.72	0.94	1.15	1.37	1.80	2.01	2.23	2.45	2.66	2.88	3.09	3.31	3.53	3.74	3.96	4.17
2850	0.31	0.54	0.77	1.01	1.24	1.47	1.94	2.17	2.40	2.63	2.87	3.10	3.33	3.56	3.80	4.03	4.26	4.49
3000	0.32	0.57	0.81	1.05	1.30	1.54	2.03	2.27	2.51	2.75	3.00	3.24	3.48	3.73	3.97	4.21	4.46	4.70

Water Penetration V/S Free Area Velocity Graph

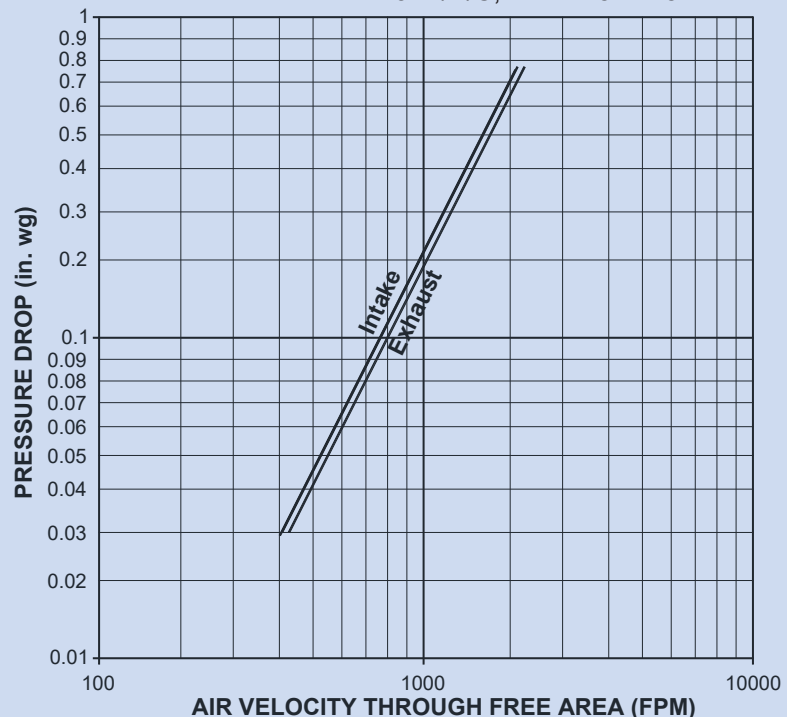
Model : WL-AB-31A/B/C; Size : 48" x 48"



AMCA Standard 500-L Water Penetration Test (15 minutes test duration)
The beginning point of water penetration @ 694.1 fpm.

Water Penetration V/S Free Area Velocity Graph

Model : WL-AB-31A/B/C; Size : 48" x 48"



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

BETEC CAD. Industries (FZC) Certifies Model **WL-AB-31A** 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 and water penetration ratings for Aluminum louvers only.

Note:

Exhaust pressure drop graph not tested with **AMCA**.



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				
Material Construction				
Model	Frame		Blade	
	Material	Thick	Material	Thick
WL-AB-32C	AL	2 mm	AL	2 mm

- 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.

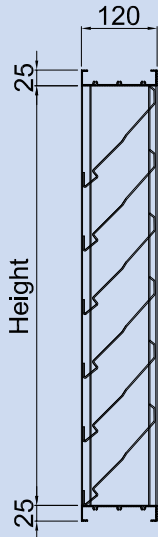


AMCA500-L Tested Weather Louver Constructional Details

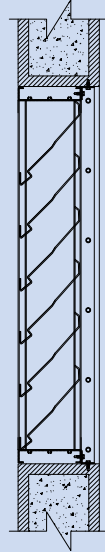
B-30 Series

Model : WL-AB-32C

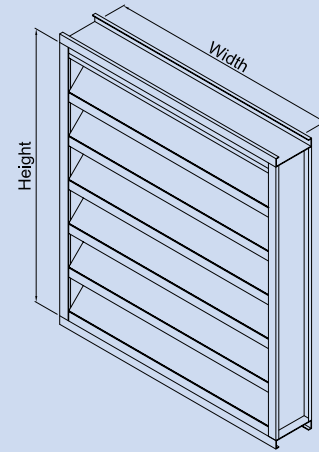
Type : C* - Flush Mounted



WL-AB-32C
Flush Mounted Type



Installation
Flush Mounted Type



Isometric View

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



AMCA500-L Tested Weather Louver

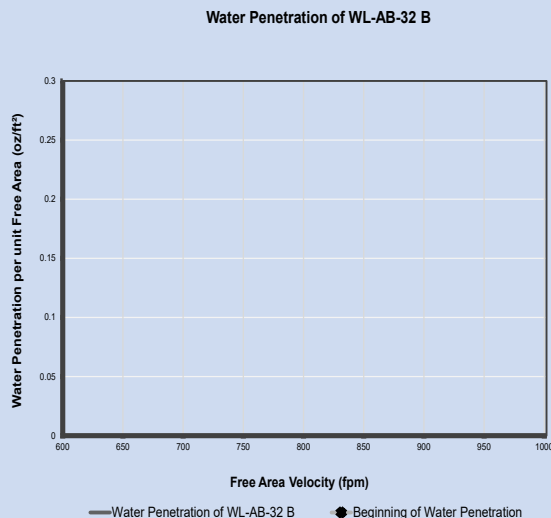
B-30 Series

Engineering and Performance Data

Louver Free Area(m²) Model : WL-AB-32C

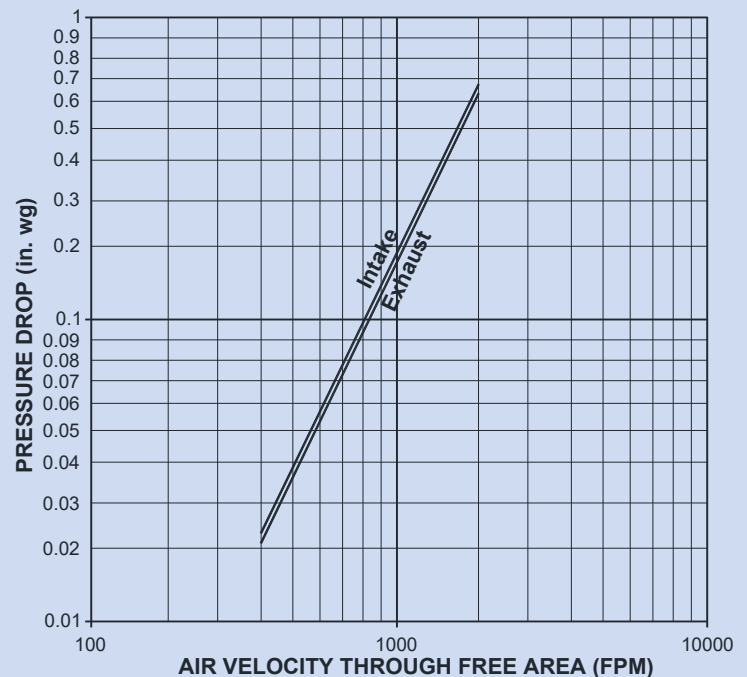
Height (mm)	Width (mm)																		
	300	450	600	750	900	1050	1219	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
300	0.022	0.035	0.048	0.062	0.075	0.089	0.103	0.115	0.129	0.142	0.155	0.169	0.182	0.195	0.209	0.222	0.236	0.249	0.262
450	0.027	0.044	0.061	0.078	0.094	0.111	0.130	0.145	0.161	0.178	0.195	0.212	0.229	0.245	0.262	0.279	0.296	0.312	0.329
600	0.048	0.078	0.108	0.138	0.167	0.197	0.230	0.256	0.286	0.316	0.346	0.375	0.405	0.435	0.464	0.494	0.524	0.554	0.583
750	0.070	0.112	0.155	0.198	0.240	0.283	0.331	0.368	0.411	0.454	0.496	0.539	0.582	0.624	0.667	0.710	0.752	0.795	0.838
900	0.091	0.146	0.202	0.258	0.313	0.369	0.431	0.480	0.536	0.591	0.647	0.702	0.758	0.814	0.869	0.925	0.981	1.036	1.092
1050	0.096	0.155	0.214	0.273	0.332	0.391	0.457	0.509	0.568	0.627	0.686	0.745	0.805	0.864	0.923	0.982	1.041	1.100	1.159
1219	0.116	0.187	0.259	0.330	0.401	0.473	0.552	0.615	0.686	0.758	0.829	0.900	0.971	1.043	1.114	1.185	1.257	1.328	1.399
1350	0.138	0.223	0.308	0.393	0.478	0.563	0.658	0.733	0.818	0.903	0.988	1.073	1.158	1.243	1.327	1.412	1.497	1.582	1.667
1500	0.144	0.232	0.321	0.409	0.497	0.586	0.684	0.762	0.851	0.939	1.027	1.116	1.204	1.292	1.381	1.469	1.557	1.646	1.734
1650	0.165	0.266	0.368	0.469	0.570	0.672	0.785	0.874	0.975	1.077	1.178	1.279	1.381	1.482	1.583	1.684	1.786	1.887	1.988
1800	0.186	0.300	0.415	0.529	0.643	0.757	0.885	0.986	1.100	1.214	1.329	1.443	1.557	1.671	1.786	1.900	2.014	2.128	2.243
1950	0.207	0.334	0.462	0.589	0.716	0.843	0.985	1.098	1.225	1.352	1.479	1.606	1.734	1.861	1.988	2.115	2.242	2.370	2.497
2100	0.213	0.343	0.474	0.605	0.735	0.866	1.012	1.127	1.258	1.388	1.519	1.649	1.780	1.911	2.041	2.172	2.302	2.433	2.564
2250	0.234	0.377	0.521	0.665	0.808	0.952	1.112	1.239	1.382	1.526	1.669	1.813	1.957	2.100	2.244	2.387	2.531	2.674	2.818
2400	0.255	0.412	0.568	0.725	0.881	1.038	1.212	1.351	1.507	1.664	1.820	1.977	2.133	2.290	2.446	2.603	2.759	2.916	3.072
2550	0.261	0.420	0.580	0.740	0.900	1.060	1.239	1.380	1.540	1.700	1.860	2.020	2.180	2.339	2.499	2.659	2.819	2.979	3.139
2700	0.282	0.455	0.627	0.800	0.973	1.146	1.339	1.492	1.665	1.837	2.010	2.183	2.356	2.529	2.702	2.875	3.048	3.220	3.393
2850	0.303	0.489	0.674	0.860	1.046	1.232	1.439	1.604	1.789	1.975	2.161	2.347	2.533	2.718	2.904	3.090	3.276	3.462	3.647
3000	0.324	0.523	0.721	0.920	1.119	1.318	1.540	1.715	1.914	2.113	2.312	2.510	2.709	2.908	3.107	3.305	3.504	3.703	3.902

Water Penetration V/S Free Area Velocity Graph
Model : WL-AB-32C; Size : 48" x 48"



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

Water Penetration V/S Free Area Velocity Graph
Model : WL-AB-32C; Size : 48" x 48"



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

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.

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



AMCA500-L Tested Weather Louver
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.

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



AMCA500-L Tested Weather Louver

Wind Driven Rain Louver

Model : WL-AB-40C

Type : C* - Flush Mounted

BETEC CAD. Manufactures Model WL AB 40C 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, water penetration and wind-driven rain ratings for Aluminum louvers only.

Standard Construction

Frame Material

120 mm deep, 2 mm thick extruded aluminum.

Blade Material

2 mm thick extruded aluminum.

Blade Orientation

Horizontal.

Blade Type

Fixed.

Finish

Mill finish.

Optional Fittings

drain sill.

Screen

Galvanized Steel 0.4mm Thick

S-3 SS Bird screen

S-10 SS Fly screen

Finish

Available with Powder coating , please specify color.

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.



B-40 Series



BETEC CAD. Industries (FZC) Certifies Model WL-BC-40C 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.
- Performance as per AMCA 500 - L
- Excellent pressure drop performance.
- Aluminum construction for low maintenance and high resistance to corrosion.
- Free area - 65.8%
- Beginning of water penetration @ 892.9 fpm

AB-40 Series Model Details				
Material Construction				
Model	Frame		Blade	
	Material	Thick	Material	Thick
WL-AB-40C	AL	2 mm	AL	2 mm

Alphabet indicates the type of installation

C - Flush Mounted

Any Combination of W x H										
WL-AB-40C										
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"

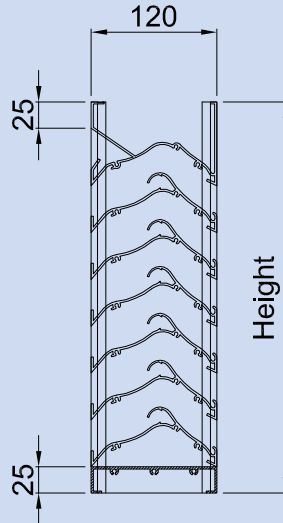
Note: Maximum single module Construction - 2 x 2 meters
Multiple module available with mullion.

AMCA500-L Tested Weather Louvers Constructional Details

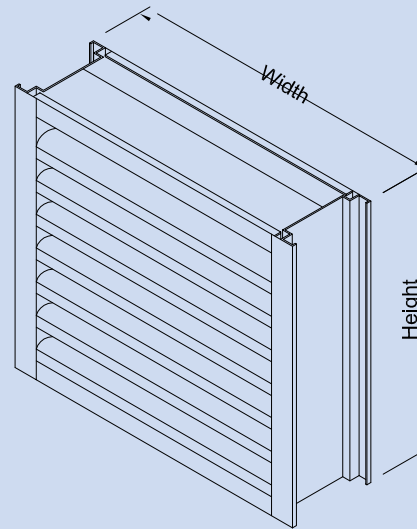
B-40 Series

Model : WL-AB-40C

Type : C* - Flush Mounted

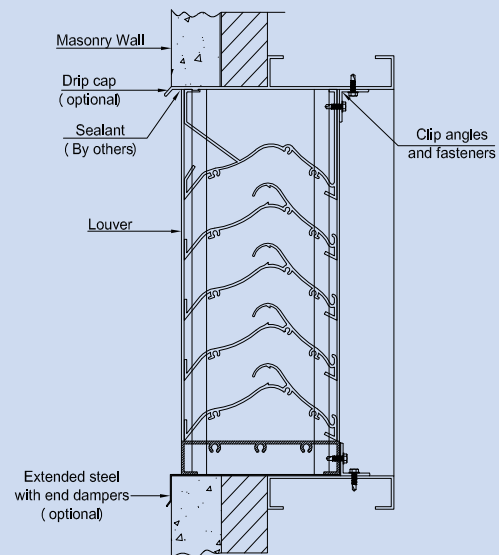
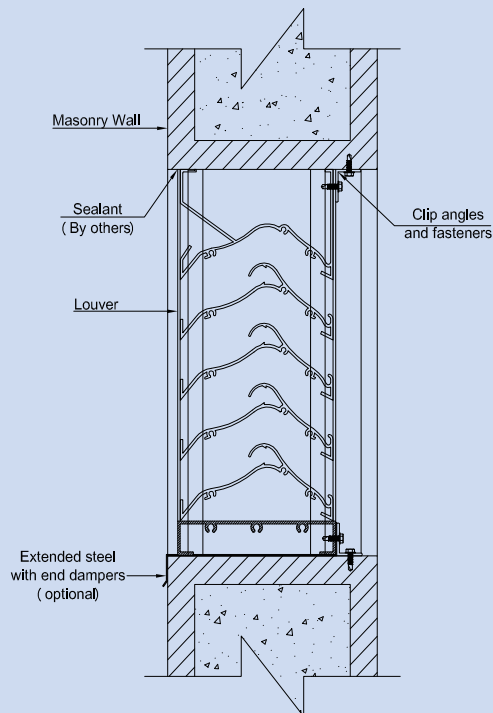


WL-AB-40C
Flush Mounted Type



Isometric View

Installation Details



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



AMCA500-L Tested Weather Louver

B-40 Series

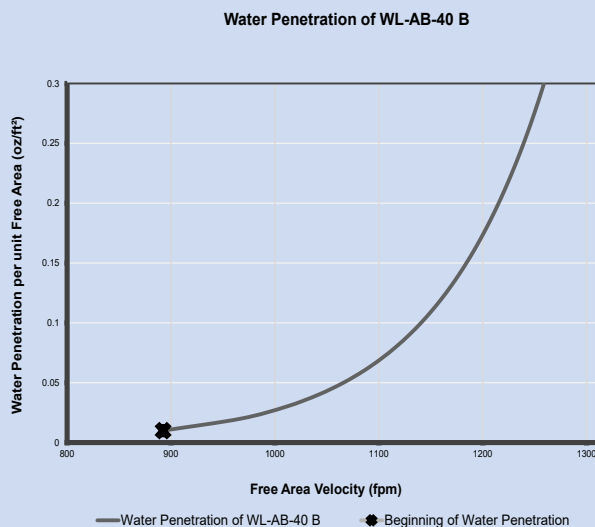
Engineering and Performance Data

Louver Free Area(m²) Model : WL-AB-40C

Height	Width																		
		300	450	600	750	900	1050	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
	300	0.03	0.05	0.07	0.09	0.11	0.13	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.35	0.37	0.39
	450	0.06	0.09	0.13	0.16	0.20	0.24	0.31	0.34	0.38	0.41	0.45	0.48	0.52	0.56	0.59	0.63	0.66	0.70
	600	0.08	0.13	0.18	0.23	0.28	0.33	0.43	0.48	0.53	0.58	0.63	0.69	0.74	0.79	0.84	0.89	0.94	0.99
	750	0.10	0.17	0.23	0.29	0.36	0.42	0.55	0.61	0.67	0.73	0.80	0.86	0.92	0.99	1.05	1.11	1.18	1.24
	900	0.13	0.21	0.29	0.36	0.44	0.52	0.68	0.76	0.83	0.91	0.99	1.07	1.15	1.23	1.31	1.38	1.46	1.54
	1050	0.15	0.25	0.34	0.43	0.53	0.62	0.81	0.90	1.00	1.09	1.18	1.28	1.37	1.47	1.56	1.65	1.75	1.84
	1350	0.20	0.32	0.44	0.57	0.69	0.81	1.05	1.18	1.30	1.42	1.54	1.66	1.78	1.91	2.03	2.15	2.27	2.39
	1500	0.23	0.36	0.50	0.64	0.77	0.91	1.19	1.32	1.46	1.60	1.73	1.87	2.01	2.15	2.28	2.42	2.56	2.69
	1650	0.25	0.40	0.56	0.71	0.86	1.01	1.32	1.47	1.62	1.78	1.93	2.08	2.23	2.39	2.54	2.69	2.84	3.00
	1800	0.27	0.44	0.60	0.77	0.93	1.10	1.43	1.59	1.76	1.93	2.09	2.26	2.42	2.59	2.75	2.92	3.08	3.25
	1950	0.30	0.48	0.66	0.84	1.02	1.20	1.56	1.74	1.92	2.10	2.28	2.46	2.65	2.83	3.01	3.19	3.37	3.55
	2100	0.32	0.52	0.71	0.91	1.11	1.30	1.69	1.89	2.09	2.28	2.48	2.67	2.87	3.07	3.26	3.46	3.65	3.85
	2250	0.34	0.55	0.76	0.97	1.18	1.39	1.80	2.01	2.22	2.43	2.64	2.85	3.06	3.27	3.48	3.68	3.89	4.10
	2400	0.37	0.59	0.82	1.04	1.26	1.49	1.94	2.16	2.39	2.61	2.83	3.06	3.28	3.51	3.73	3.95	4.18	4.40
	2550	0.39	0.63	0.87	1.11	1.35	1.59	2.07	2.31	2.55	2.79	3.03	3.27	3.51	3.75	3.98	4.22	4.46	4.70
	2700	0.41	0.67	0.92	1.17	1.42	1.68	2.18	2.43	2.69	2.94	3.19	3.44	3.69	3.95	4.20	4.45	4.70	4.96
	2850	0.44	0.71	0.97	1.24	1.51	1.78	2.31	2.58	2.85	3.12	3.38	3.65	3.92	4.19	4.45	4.72	4.99	5.26
	3000	0.46	0.75	1.03	1.31	1.60	1.88	2.44	2.73	3.01	3.29	3.58	3.86	4.14	4.43	4.71	4.99	5.27	5.56

Water Penetration V/S Free Area Velocity Graph

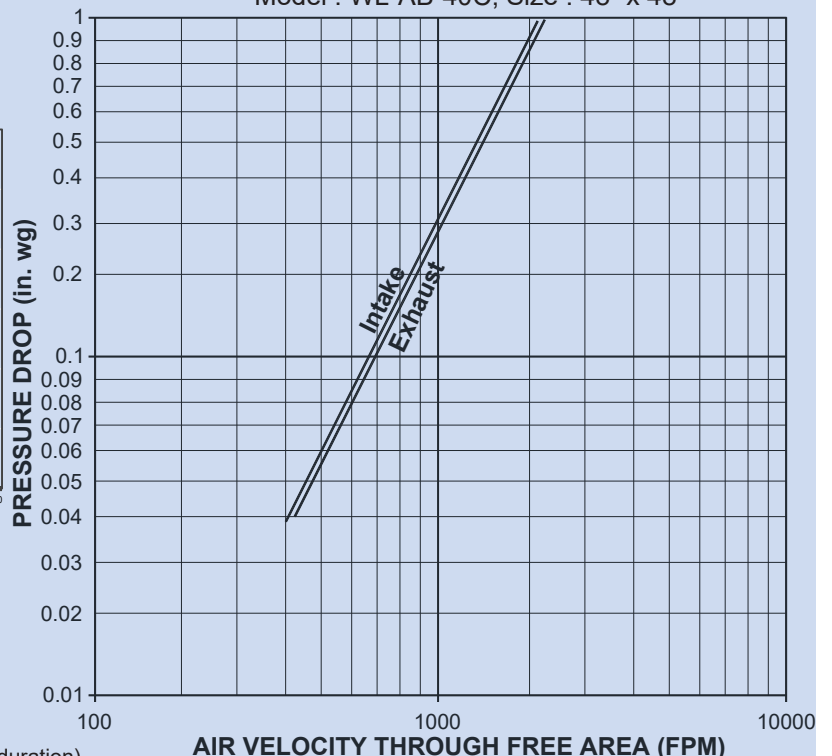
Model : WL-AB-40C; Size : 48" x 48"



AMCA Standard 500-L Water Penetration Test (15 minutes test duration)
The beginning point of water is 892.9 fpm.

Water Penetration V/S Free Area Velocity Graph

Model : WL-AB-40C; Size : 48" x 48"



AMCA Standard 500-L Pressure Drop Test.

Data is corrected to standard air density.

BETEC CAD. Industries (FZC) Certifies Model **WL-AB-40A/B/C** 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.

Note:

Exhaust pressure drop graph not tested with **AMCA**.

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



AMCA500 - L Tested Weather Louvers
B-40 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		
126	1355	99.4	A
188	2021	99.3	A
286	3082	99	A
382	4108	98.6	B
469	5047	88.8	C
582	6271	72.6	D
685	7379	50.2	D
765	8238	38.4	D
866	9323	22.1	D
985	10604	10.9	D

50 mph (80 kph) wind & 8" per hour rain conditions			
Ventilation Air Velocity (fpm)	Ventilation Air Flow (cfm)	Water Penetration Effectiveness %	Water Penetration Classification
0	0	96.10	B
99	1062	93.60	C
198	2130	92.30	C
284	3055	90.70	C
407	4387	88.10	C
488	5252	85.80	C
578	6225	85.20	C
673	7242	78.20	D
783	8432	73.20	D
888	9560	67.60	D
970	10448	63.80	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.

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



Motorized Weather Louver - MWL

B-50 Series

Type : Motorized Louver

Model : MWL-GB-51A; Galvanized Construction.

Blade Type : Single skin - 3V Blades

BETEC CAD. manufactures Motorized weather louvers are square and rectangular type with parallel operation having single skin blade design. These louvers are subjected to medium pressure applications to achieve low leakage efficient operation.

The square and rectangular type Motorized louvers are designed for handling maximum air capacities at minimum pressure drop.

Louver Performance Ratings

Operating Pressure - 4" wg (1000Pa) Max

Velocity - 1500 fpm (7.5 m/s)

Standard Construction

Frame

5.1"x 1" x 18 gauge (130 x 28 x 1.2 mm) roll formed galvanized steel 'C' Channel.

Blades

6" (152mm) wide, 1.5 mm thick (16 gauge) galvanized steel 3V type roll formed .

Bushes

Bronze.

Mechanical Linkage

Galvanized steel linkages concealed within the frame.

Axles

12mm square galvanized steel.

Gasket

Foam gasket.

Motor

On/Off

Finish

Mill finish.

Optional Fittings

Screen

Galvanized steel 0.4mm Thick

S-3 SS Bird screen

S-10 SS fly screen

Motor

Modulate / Spring Return

Finish

Available with RAL Powder coating, please specify color.



MWL-GB-51A

Features

- Side jambseal provides tight closure.
- AMCA 500 - L
- Low pressure drop.
- Aluminum construction for low maintenance and high resistance to corrosion.
- Linkage concealed within the frame not exposed to weather conditions.

Optional Construction Details

Frame : Thickness up to 3 mm

Frame Depth : Up to 150 mm

Blade : Thickness up to 2 mm

Blade width : Up to 150 mm

B- 50 Series Single skin Blade Model details			
Material Construction			
Model	Frame	Blade	Actuator
MWL-GB-51	GI	GI	On / Off 230V*
MWL-GSB-51	GI	SS	On / Off 230V*
MWL-SB-51	SS	SS	On / Off 230V*

Any Combination of W x H									
MWL-B-51									
Width in Inches	4"	6"	10"	12"	16"	20"	30"	36"	48"
Height in inches	4"	6"	10"	12"	16"	20"	30"	36"	40"

Note: Maximum single module construction - 48" x 40"
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.



Motorized Weather Louver - MWL

B-50 Series

Type : Motorized Louver

Model : MWL-GB-52A; Galvanized Construction.

Blade Type : Aerofoil

BETEC CAD. Manufactures motorized weather louvers are square and rectangular type with parallel operation having Aerofoil type double skin blade design. These louvers are subjected to medium pressure applications to achieve low leakage and uniform air distribution.

The square and rectangular type Motorized louvers are designed for handling maximum air capacities at minimum pressure drop.

Louver Performance Ratings

Operating Pressure - 4" wg (1000Pa) Max

Velocity - 1500 fpm (7.5 m/s)

Standard Construction

Frame

5.1"x 1" x 18 gauge (130 x 28 x 1.2 mm) rollformed galvanized steel 'C' Channel.

Blades

6" (152mm) wide, 1 mm thick (20 gauge) aluminium extruded.

Bushes

Bronze.

Mechanical Linkage

Galvanized steel linkages concealed within the frame.

Axles

12mm square galvanized steel.

Gasket

Foam gasket.

Motor

On/Off

Finish

Mill finish.

Optional Fittings

Screen

Galvanized steel 0.4mm Thick

S-3 SS Bird screen

S-10 SS fly screen

Motor

Modulate / Spring Return

Finish

Available with RAL Powder coating, please specify color.



MWL-GB-52A

Features

- Side jambseal provides tight closure.
- AMCA 500 - L
- Low pressure drop.
- Aluminum construction for low maintenance and high resistance to corrosion.
- Linkage concealed within the frame not exposed to weather conditions.

Optional Construction Details

Frame : Thickness up to 3 mm

Frame Depth : Up to 150 mm

Blade : Thickness up to 2 mm

Blade width : Up to 150 mm

B-50 Series Aerofoil Blade Models details			
Material Construction			
Model	Frame	Blade	Actuator
MWL-GB-52	GI	GI	On / Off 230V*
MWL-GAB-52	GI	AL	On / Off 230V*
MWL-SB-52	SS	SS	On / Off 230V*

Any Combination of W x H									
MWL-B-52									
Width in Inches	4"	6"	10"	12"	16"	20"	30"	36"	48"
Height in inches	4"	6"	10"	12"	16"	20"	30"	36"	40"

Note: Maximum single module construction - 48" x 40"
Multiple module available with mullion.

Note :

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

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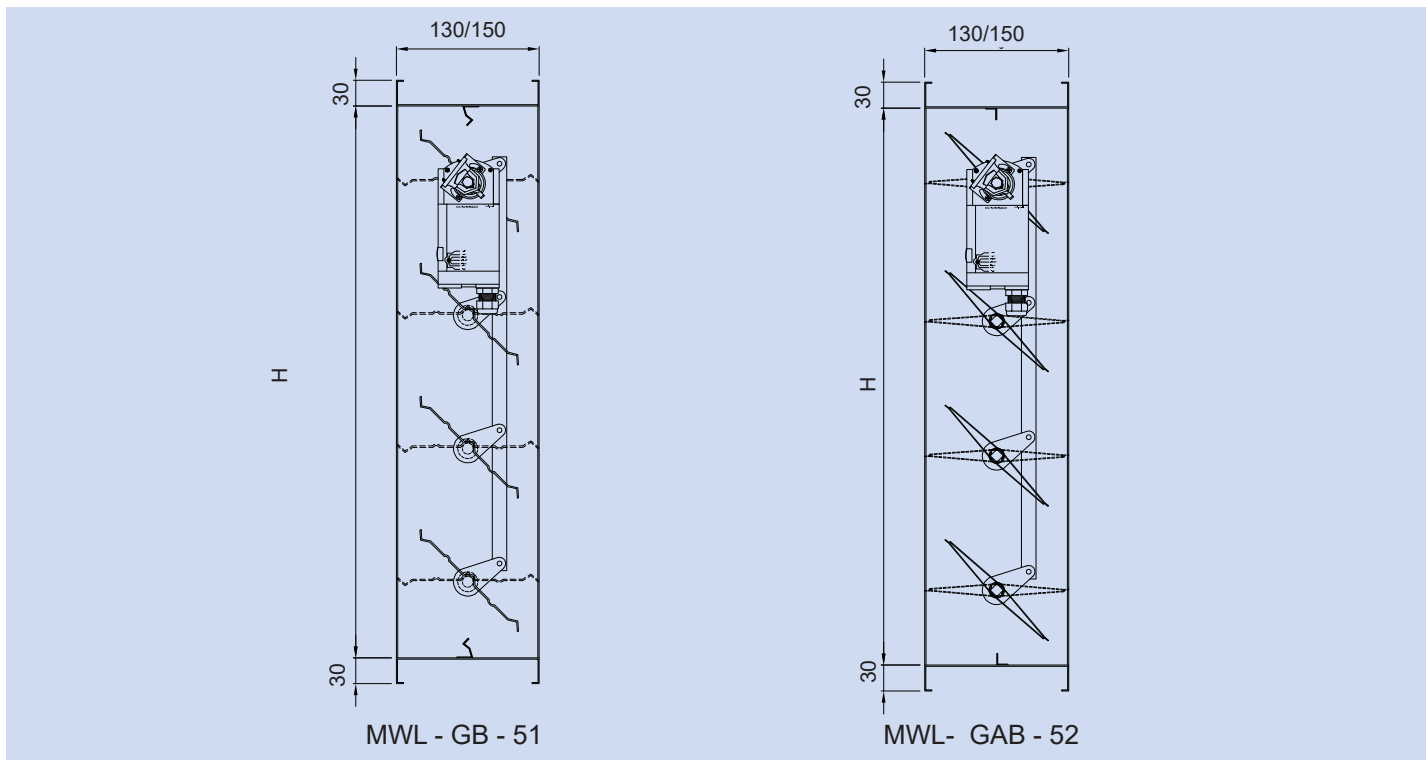


Motorized Weather Louver - MWL

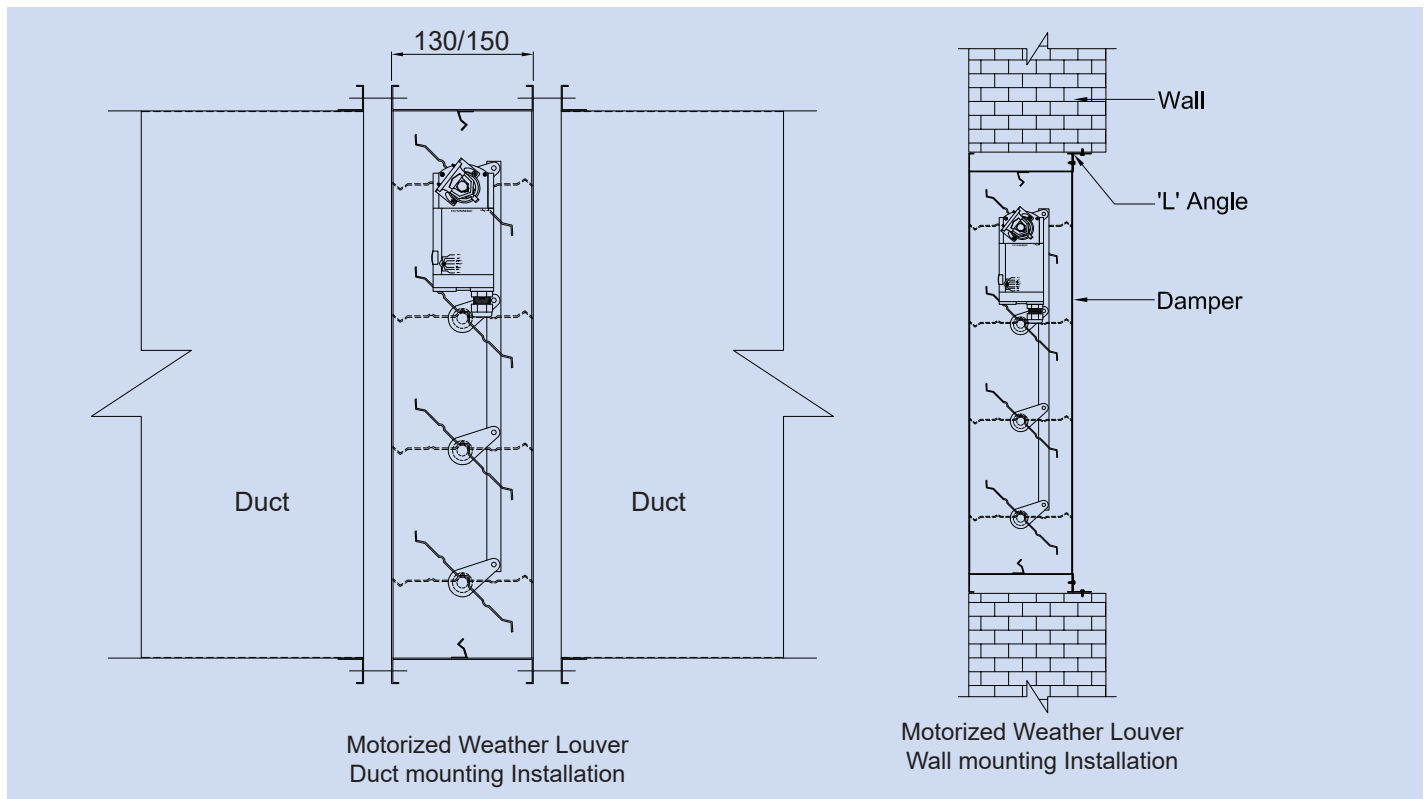
B-50 Series

Constructional Details

Models : MWL-GB-51 / MWL-GB-52



Installation Details



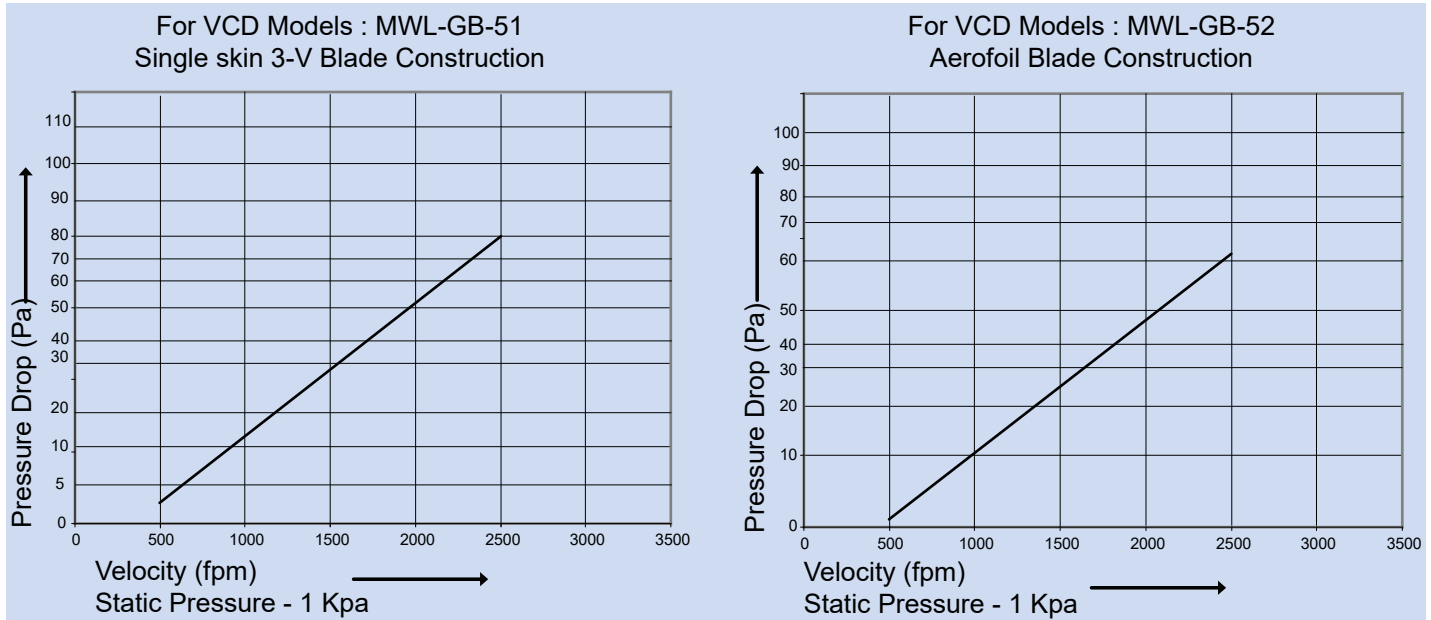
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Motorized Weather Louver - MWL Engineering And Performance Data

B-50 Series

Models : MWL-GB-51/52A

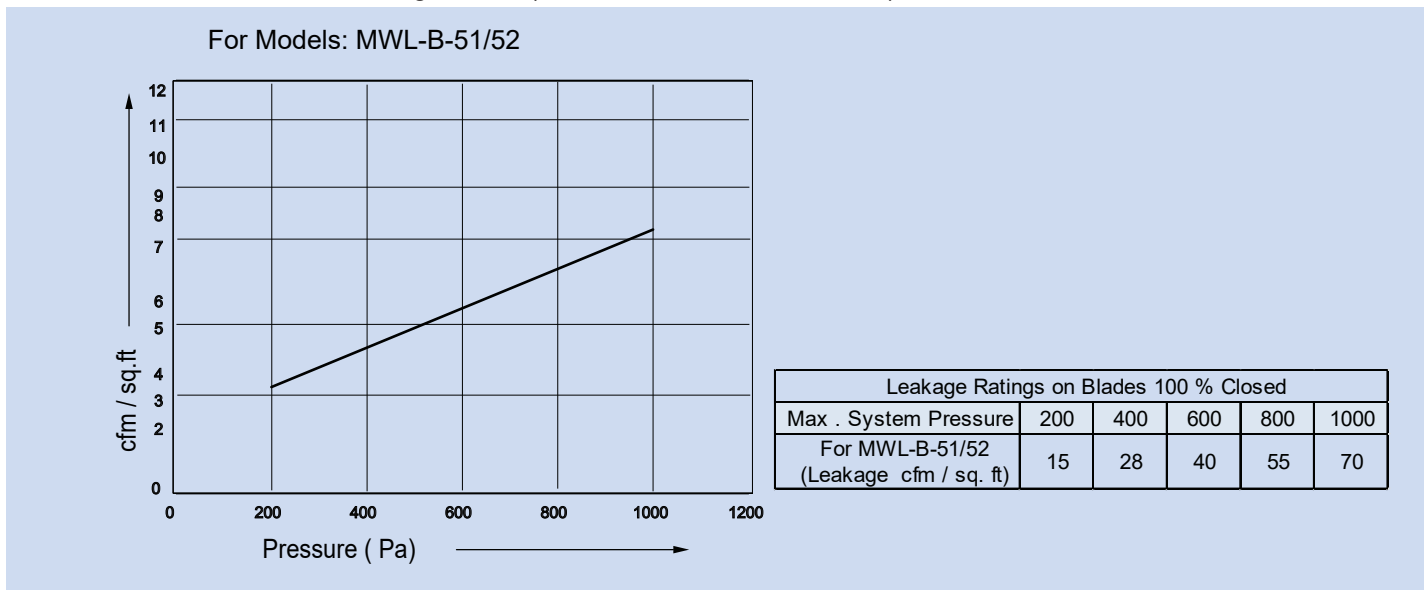
Pressure Losses Vs Face Velocity



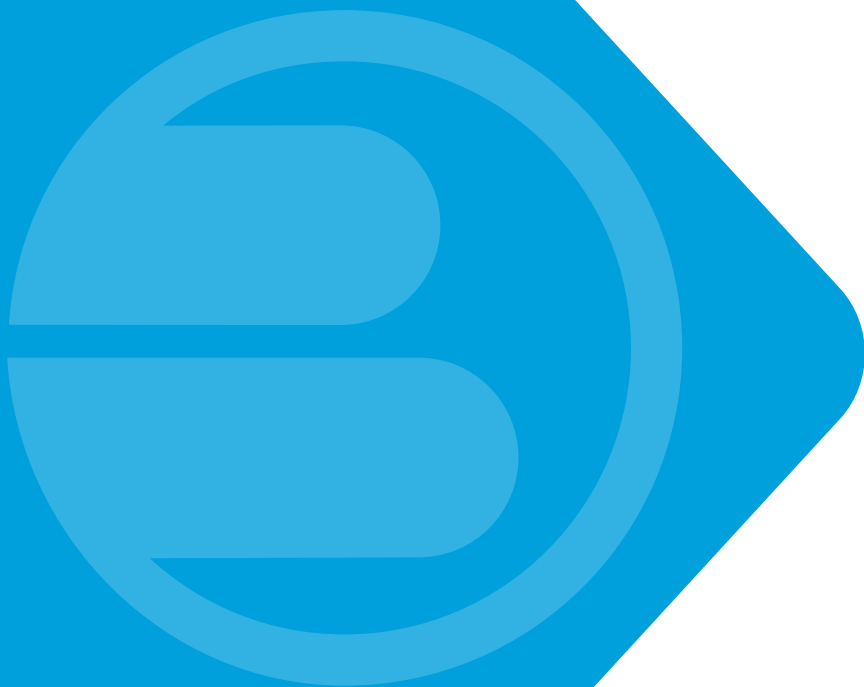
Airflow V/S Pressure Damper 100 % (full) open.					
Max. System Pressure 1000-Pa					
Air Velocity (fpm)	500	1000	1500	2000	2500
MWL-B51-A (3-V Blade single skin) Pressure drop (Pa)	3.2	12.8	28.8	51.2	80
MWL-B52 -A (Aerofoil Blade) Pressure drop (Pa)	2.8	11	25	46	63

Leakage Characteristics

Models : MWL-GB-51/52 - Leakage Curve (Blades 100% Closed Position)



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