

Extruded Aluminum Louver

JH-LV-01

5" Deep, Horizontal Fixed Drainable Blade, Wind Driven Rain Louver

STANDARD MATERIALS AND CONSTRUCTION

HEAD: .08"(2mm)thick:extruded 6063-T6 aluminum

SILL: .08"(2mm)thick:extruded 6063-T6 aluminum

JAMBS: .08"(2.0mm)thick:extruded 6063-T6 aluminum

BLADES: .06"(1.55mm)thick:extruded 6063-T6 aluminum

ASSEMBLY: Mechanical fastened

BLADES SPACING: 2" (51mm)

OPTIONS

*Variety of bird and insect screen

*Flange frame

*Blank-off panels

*Clip angles

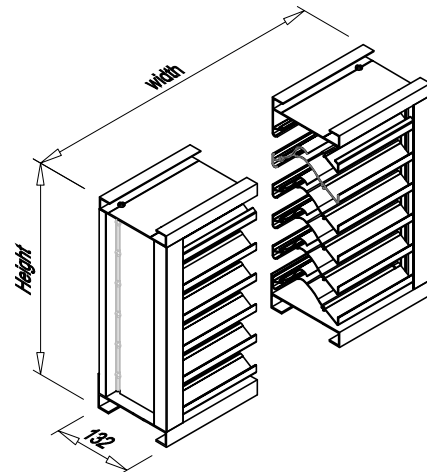
*Factory finish:

PVDF coating;

Powder coating;

Anodize;

Polyester coating;



LOUVER SIZES

Minimum Panel Size: 12" x 12" (305mm x305 mm)

Maximum Panel Size: W 120" x H120" (3050mm x3050 mm)

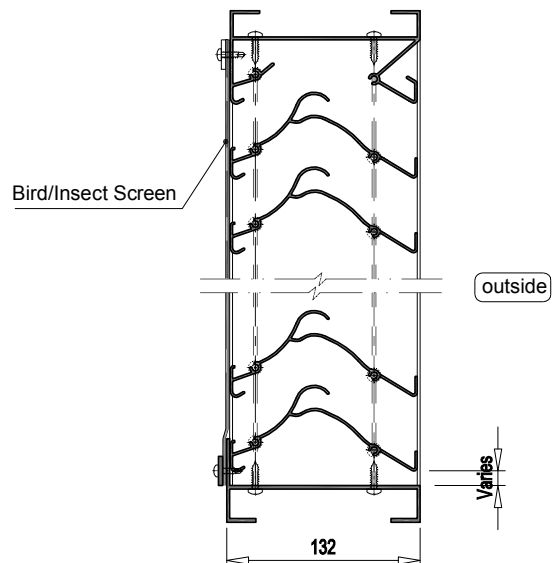
Windload requirments may limit panel sizes

NOTES

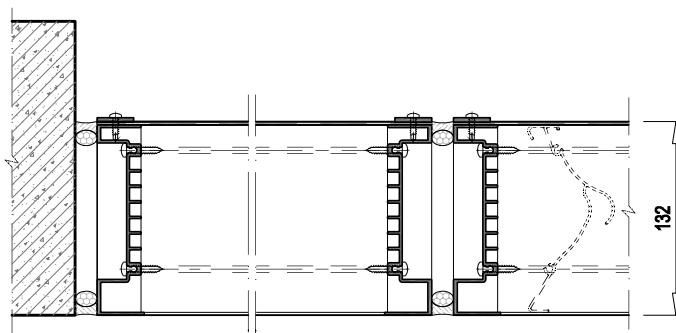
1: "A" width and "B" height are opening dimensions.

Louvers are provided approximately 1/2" undersize.

2. Shipping weight approximately 25 kg/m²



VERTICAL SECTION



STANDARD HORIZONTAL SECTION



JANGHO certifies that the model JH-LV-01 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with the AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. applies to Air Performance, Water Penetration, and Wind Driven Rain Ratings only.

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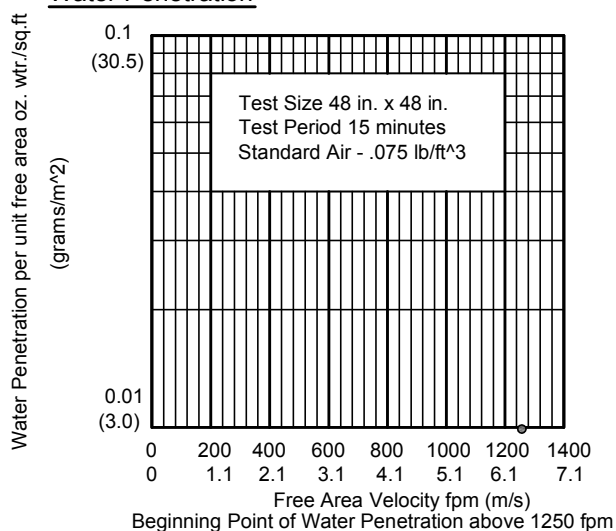
Pressure Drop: 0.25 in.wg(62.3Pa) at 1200 fpm(6.1m/s) and 9507cfm(4.5m³/s)

Free Area: 7.92 sq.ft.(0.735 sq.m) = 50% for 48"W x 48"H (1220m x 1220m) test size

Wind-Driven Rain Performance

75mm/h (3in./hr) Rainfall & 13m/s (29 mph) Wind Velocity						Rainfall 202mm/h (8in./hr) & 22m/s (50 mph) Wind Velocity					
Free Area Ventilation		Ventilation Air Core Velocity		Water Penetration		Free Area Ventilation		Ventilation Air Core Velocity		Water Penetration	
(fpm)	(m/s)	(fpm)	(m/s)	Class	Effective	(fpm)	(m/s)	(fpm)	(m/s)	Class	Effective
0	0	0	0	A	100%	0	0	0	0	B	96.5%
246	1.3	139	0.7	A	100%	175	0.9	101	0.5	B	95.9%
351	1.8	197	1.0	B	98.9%	352	1.8	203	1.0	C	95.7%
527	2.7	288	1.5	A	99.0%	527	2.7	285	1.5	C	94.1%
668	3.4	367	1.9	C	91.0%	703	3.6	390	2.0	C	93.9%
808	4.1	459	2.3	C	91.3%	879	4.5	495	2.5	C	90.6%
1055	5.4	584	3.0	C	90.2%	1181	5.4	576	3.0	C	91.3%
1230	6.3	686	3.5	C	87.8%	1055	6.3	690	3.5	C	87.5%
1406	7.1	777	4.0	D	79.4%	1406	7.1	782	4.0	C	84.1%
1582	8.0	888	4.5	D	77.2%	1582	8.0	885	4.5	D	76.2%
1758	9.0	980	5.0	D	75.9%	1758	9.0	975	5.0	D	70.0%

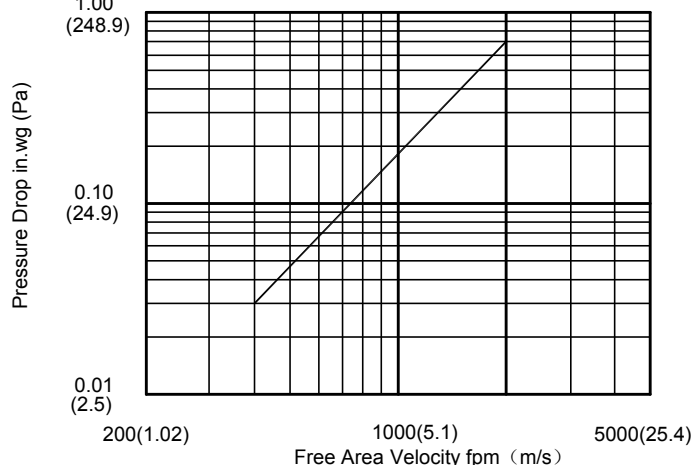
Water Penetration



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 beginning point of water penetration is defined as that velocity where the water penetration curve projects through 0.01 oz. of water (penetration) per sq. ft. of louver free area. *The beginning point of water penetration for Model JH-LV-01 is above 1250 fpm free area velocity. These performance ratings do not guarantee a louver to be weather-proof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.

Air Performance-Intake

Test based on a 48"x48" test size per AMCA Standard 511 Figure 5.5
Ratings do not include the effect of birdscreen
Standard Air - .075 lb/ft³



Discharge Loss Coefficient Class(intake)=2

Discharge Loss Coefficient Classes		Wind-Driven Rain Penetration Classes	
Class	Coefficient	Class	Effectiveness
1	0.4 and Above	A	100%-99%
2	0.3-0.399	B	98.9%-95%
3	0.2-0.299	C	94.9%-80%
4	0.199 and Below	D	Below 80%

1. Core Area is the front opening of a louver assembly with the blades removed.
2. Core Area Velocity is the airflow rate through the louver divided by the core area (39.375"x39.375").
3. Free Area is the minimum area through which air can pass. It is determined by multiplying the sum of the minimum distances between intermediate blades, top blade, and head, bottom blade and sill, by the minimum distance between jambs.
4. Discharge Loss Coefficient is calculated by dividing a louver actual airflow rate vs. a theoretical airflow for the opening. Providing an indication of the louver air flow characteristics.

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FREE AREA CHART sq.ft (sq.m)

Louver Width	Louver Height										
	Inches (mm)	12 (305)	24 (610)	36 (914)	48 (1219)	60 (1524)	72 (1829)	84 (2134)	96 (2438)	108 (2743)	120 (3084)
	12 (305)	0.30 (0.028)	0.75 (0.070)	1.20 (0.112)	1.65 (0.153)	2.10 (0.195)	2.55 (0.237)	3.00 (0.278)	3.44 (0.320)	3.89 (0.362)	4.34 (0.403)
	24 (610)	0.69 (0.064)	1.71 (0.159)	2.72 (0.253)	3.74 (0.347)	4.75 (0.442)	5.877 (0.536)	6.79 (0.631)	7.80 (0.725)	8.82 (0.820)	9.86 (0.913)
	36 (914)	1.07 (0.099)	2.66 (0.247)	4.24 (0.394)	5.82 (0.541)	7.40 (0.688)	8.98 (0.835)	10.57 (0.982)	12.15 (1.128)	13.73 (1.276)	15.31 (1.422)
	48 (1219)	1.45 (0.135)	3.62 (0.336)	5.76 (0.535)	7.92 (0.735)	10.06 (0.934)	12.21 (1.134)	14.36 (1.334)	16.50 (1.533)	18.66 (1.734)	20.80 (1.932)
	60 (1524)	1.84 (0.170)	4.57 (0.425)	7.28 (0.677)	10.00 (0.929)	12.71 (1.181)	15.43 (1.434)	18.15 (1.686)	20.86 (1.938)	23.59 (2.192)	26.29 (2.443)
	72 (1829)	2.22 (0.206)	5.53 (0.513)	8.81 (0.818)	12.08 (1.123)	15.37 (1.428)	18.66 (1.733)	21.94 (2.039)	25.22 (2.343)	28.52 (2.649)	31.78 (2.953)
	84 (2134)	2.60 (0.242)	6.48 (0.602)	10.33 (0.960)	14.17 (1.317)	18.03 (1.675)	21.88 (2.033)	25.74 (2.391)	29.58 (2.748)	33.44 (3.107)	37.28 (3.463)
	96 (2438)	2.98 (0.277)	7.43 (0.690)	11.84 (1.100)	16.25 (1.510)	20.67 (1.921)	25.09 (2.331)	29.52 (2.742)	33.92 (3.151)	38.36 (3.563)	42.75 (3.972)
	108 (2743)	3.37 (0.313)	8.39 (0.779)	13.37 (1.242)	18.34 (1.704)	23.33 (2.167)	28.32 (2.631)	33.31 (3.094)	38.28 (3.556)	43.28 (4.021)	48.24 (4.482)
	120 (3084)	3.75 (0.348)	9.34 (0.868)	14.89 (1.383)	20.43 (1.898)	25.99 (2.414)	31.54 (2.930)	37.10 (3.447)	42.64 (3.961)	48.21 (4.479)	53.74 (4.992)

CORE AREA CHART sq.ft (sq.m)

Louver Width	Louver Height										
	Inches (mm)	12 (305)	24 (610)	36 (914)	48 (1219)	60 (1524)	72 (1829)	84 (2134)	96 (2438)	108 (2743)	120 (3084)
	12 (305)	0.56 (0.052)	1.27 (0.118)	1.98 (0.184)	2.70 (0.251)	3.41 (0.317)	4.12 (0.383)	4.83 (0.449)	5.54 (0.515)	6.25 (0.581)	6.97 (0.647)
	24 (610)	1.35 (0.126)	3.07 (0.285)	4.78 (0.444)	6.49 (0.603)	8.20 (0.762)	9.92 (0.921)	11.63 (1.080)	13.34 (1.239)	15.05 (1.398)	16.76 (1.557)
	36 (914)	2.14 (0.199)	4.85 (0.451)	7.56 (0.702)	10.27 (0.954)	12.98 (1.206)	15.69 (1.458)	18.40 (1.710)	21.10 (1.961)	23.82 (2.213)	26.53 (2.464)
	48 (1219)	2.93 (0.273)	6.65 (0.617)	10.35 (0.961)	14.06 (1.306)	17.77 (1.651)	21.49 (1.996)	25.20 (2.341)	28.90 (2.685)	32.61 (3.030)	36.32 (3.375)
	60 (1524)	3.72 (0.346)	8.44 (0.784)	13.14 (1.221)	17.85 (1.658)	22.57 (2.096)	27.28 (2.534)	31.99 (2.972)	36.69 (3.409)	41.41 (3.847)	46.12 (4.285)
	72 (1829)	4.52 (0.420)	10.23 (0.951)	15.93 (1.480)	21.64 (2.011)	27.36 (2.542)	33.07 (3.073)	38.79 (3.604)	44.49 (4.133)	50.20 (4.664)	55.92 (5.195)
	84 (2134)	5.31 (0.493)	12.02 (1.117)	18.72 (1.739)	25.44 (2.363)	32.15 (2.987)	38.87 (3.611)	45.59 (4.235)	52.28 (4.857)	59.00 (5.481)	65.71 (6.105)
	96 (2438)	6.10 (0.566)	13.81 (1.283)	21.50 (1.997)	29.21 (2.714)	36.93 (3.431)	44.64 (4.148)	52.36 (4.864)	60.05 (5.579)	67.76 (6.295)	75.48 (7.012)
	108 (2743)	6.89 (0.640)	15.60 (1.450)	24.29 (2.257)	33.01 (3.066)	41.72 (3.876)	50.44 (4.686)	59.15 (5.496)	67.84 (6.303)	76.56 (7.112)	85.27 (7.922)
	120 (3084)	7.68 (0.713)	17.40 (1.616)	27.08 (2.516)	36.80 (3.419)	46.52 (4.321)	56.23 (5.224)	65.95 (6.127)	75.64 (7.027)	85.35 (7.930)	95.07 (8.832)