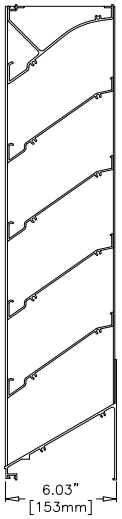
K6746HP

Stationary Louver | Drainable Louver | Extruded Aluminum

Standard Construction

Frame	Heavy gauge extruded 6063-T5 aluminum, 6 in. (152 mm) x 0.081 in. (2 mm) nominal wall thickness
Blades	Drainable design, heavy gauge extruded 6063-T5 aluminum, 0.081 in. (2 mm) nominal wall thickness, positioned 37° on approximately 4.25 in. (108 mm) centers
Louver Depth	6 in. (152 mm)
Construction	Mechanically fastened
Finish	Mill
Minimum Size	12 in. W x 12 in. H (305 mm W x 305 mm H)
Maximum Single Section Size	48 in. W x 48 in. H (1219 mm W x 1219 mm H)
Wind Load	25 PSF (1.2 kPa)



Performance Ratings

Airolite certifies that the K6746HP louvers shown herein are 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 Water Penetration and Air Performance ratings.

Louvers are tested in accordance with AMCA Standard 500-L.

Performance of 48 in. x 48 in. (1219 mm x 1219 mm) Louver

Free Area	
Area	9.84 sq. ft. (0.914 sq. m)
Percent	61.5%
Performance at Beginning Point of Water Penetration	
Free Area Velocity	910 fpm (4.621 m/s)
Max Intake Volume	8954 cfm (4.226 m^3/s)
Performance at 6,000 CFM (2.832 m^3/s) Intake	
Pressure Drop	0.056 in. wg (0.014 kPa)

Options and Accessories

- Bird Screen
- Blank Off Panels
- Extended Sill
- Filter Rack/Filter
- Flange Frame
- Glazing Frame
- Insect Screen
- Mounting Angles
- Security Bars
- Variety of Architectural Finishes
- Welded Construction

Standard Details

K6746HP Standard Details

Structural reinforcing members may be required to adequately support and install multiple louver sections within a large opening. Structural reinforcing members along with any associated installation hardware is not provided by Airolite unless indicated otherwise by Airolite. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blank off panels are not subject to structural analysis unless indicated otherwise by Airolite.

Document Links

- Architectural Louvers Catalog
- Finishes & Colors
- Qwik Ship Guide
- Airolite Warranty Statement

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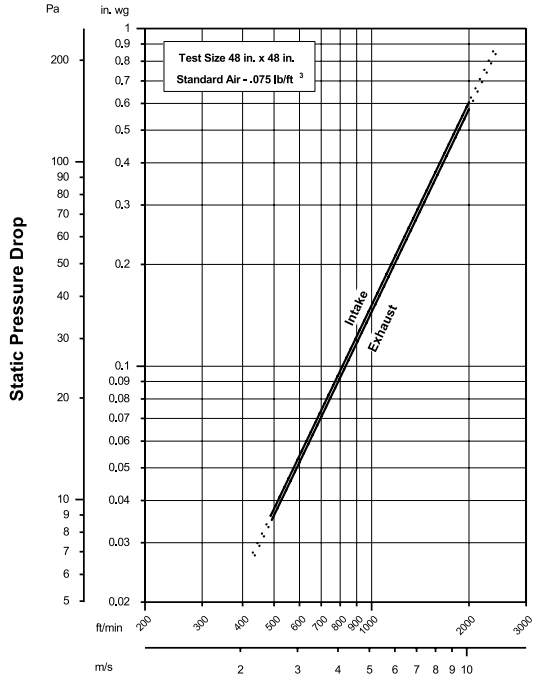
Louver Height Inches (Meters)	Louver Width in Inches (Meters)						
	12	18	24	30	36	42	48
	0.30	0.46	0.61	0.76	0.91	1.07	1.22
12	**0.27**	**0.44**	**0.60**	**0.76**	**0.92**	**1.08**	**1.24**
0.30	0.03	0.04	0.06	0.07	0.09	0.10	0.12
18	**0.60**	**0.96**	**1.32**	**1.67**	**2.03**	**2.38**	**2.74**
0.46	0.06	0.09	0.12	0.16	0.19	0.22	0.25
24	**0.89**	**1.42**	**1.94**	**2.47**	**2.99**	**3.52**	**4.04**
0.61	0.08	0.13	0.18	0.23	0.28	0.33	0.38
30	**1.22**	**1.94**	**2.66**	**3.38**	**4.10**	**4.81**	**5.53**
0.76	0.11	0.18	0.25	0.31	0.38	0.45	0.51
36	**1.56**	**2.47**	**3.39**	**4.31**	**5.22**	**6.14**	**7.05**
0.91	0.14	0.23	0.31	0.40	0.48	0.57	0.65
42	**1.84**	**2.93**	**4.01**	**5.10**	**6.18**	**7.27**	**8.35**
1.07	0.17	0.27	0.37	0.47	0.57	0.68	0.78
48	**2.17**	**3.45**	**4.73**	**6.01**	**7.28**	**8.56**	**9.84**
1.22	0.20	0.32	0.44	0.56	0.68	0.80	0.91

Airflow Resistance

Standard Air - 0.075 lb/ft³ (1.2 kg/m³)

Test size 48 in. x 48 in. (1219 mm x 1219 mm)

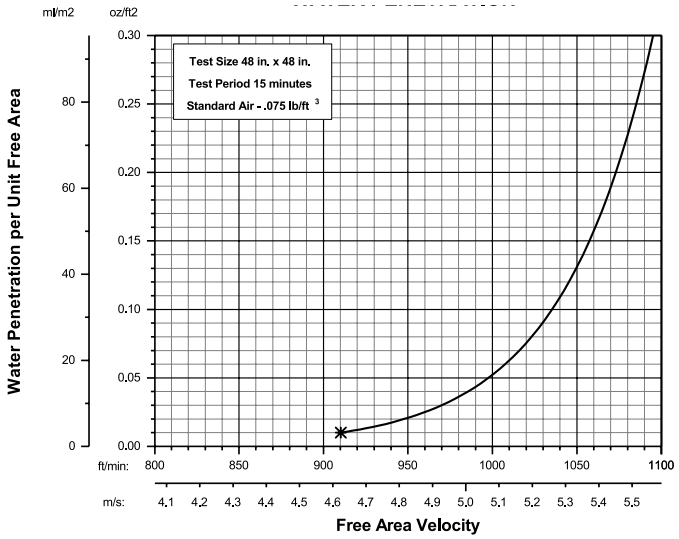


Model K6746HP resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information. (Test Figure 5.5-6.5)

Water Penetration

Standard Air - 0.075 lb/ft³ (1.2 kg/m³)

Test size 48 in. x 48 in. (1219 mm x 1219 mm) Test duration of 15 min.



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. (3 g) of water (penetration) per sq. ft. (m^2) of louver free area. ⋆**The beginning point of water penetration for Model K6746HP is 910 fpm (4.621 m/s) free area velocity.** These performance ratings do not guarantee a louver to be weatherproof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.

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