Model—HPD-435HD

102 mm DEEP HEAVY DUTY HORIZONTAL DRAINABLE BLADE LOUVER

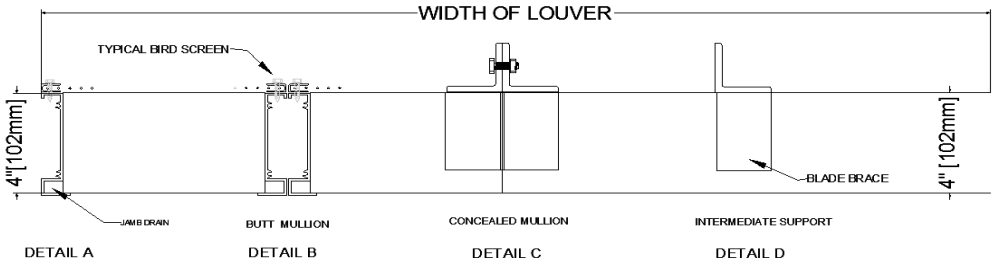
McGill Architectural Products certifies that the Rain Defense Louver Model "HPD 435HD" is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings seal applies to water penetration and air performance ratings Only."

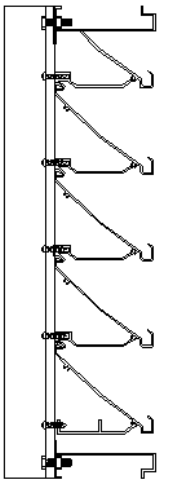
WATER PENETRATION PERFORMANCE

* Free Area Velocity at Beginning Point of Water Penetration: 1,131.7 fpm (5.75 m/s)
* Air Volume Flow Rate at Beginning Point of Water Penetration — 48in x 48in unit: 8,657.7 cfm (4.09 m^3/s)
* Pressure Drop at Beginning Point of Water Penetration: 0.15 in. H_2O (38 Pa)

AIRFLOW PERFORMANCE

* Free Area: 51% , based on a test sample of 48in (1219.2mm) x 48in (1219.2mm)
* Airflow Classification—Class 2





System Description:

OSA Rain high performance series; extruded aluminum construction; frame with channel profile; corner joints mitered and mechanically fastened, with continuous recessed caulking channel each side; intermediate mullions matching frame; gutters; rated for an air performance and water penetration maintained effectiveness rate tested in accordance with AMCA 500-L.

Material & Finishes:

1. HPD-435HD comprises
   a. Blades: 4" deep HEAVY DUTY Horizontal Drainable Blade
   b. Frame depth: 4" inches (102 mm)
2. Metal Thickness: Frame 0.125 inch (3 mm); blades 0.125 inch (3 mm).
3. Finish: PE-SDF / PVDF / Anodize after fabrication
4. Color: As scheduled.
5. Mullions: Concealed or Exposed.
6. Screens: Bird mesh / Insect mesh
7. Screen location: Interior
8. Screening Material: Aluminium / Stainless Steel

Louver Construction:

1. Wind Load Resistance: Design to resist +ve and –ve wind load of ___ psf (___kPa) without damage or permanent deformation.
2. Blades: One piece extrusions with reinforcing bosses, supported and lined up with heavy-gage extruded aluminum blade braces, positively interlocked to each blade and mechanically secured to structure by aluminum and stainless steel fastenings.
3. Exposed edges and ends of metal dressed smooth, free from sharp edges.
4. Exposed connections and joints constructed to exclude water.

Warranty:

OSA-McGill louvers warranted for 2 years against defective material and workmanship, and 20 Years for Finishes.

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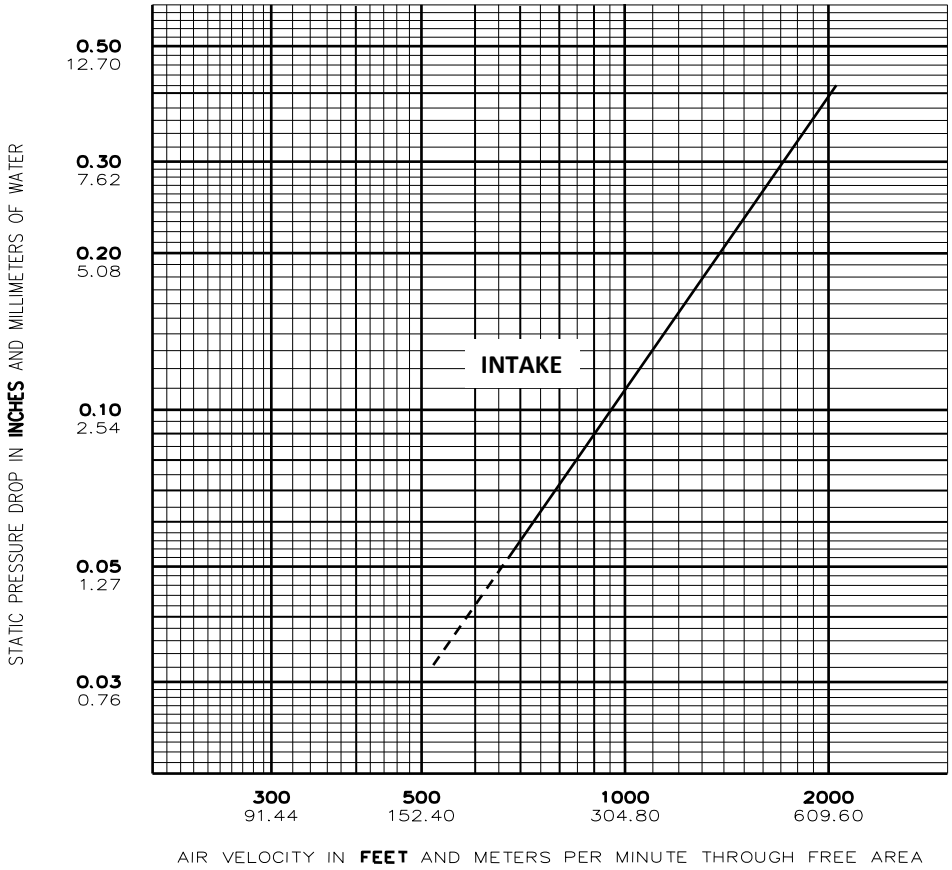
Model—HPD-435HD

102 mm DEEP HEAVY DUTY HORIZONTAL DRAINABLE BLADE LOUVER

FREE AREA IN FT² & *M²*

WIDTH (IN & *mm*)

HEIGHT (IN & *mm*)	**12**	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**	**78**	**84**
	304.8	*457.2*	*609.6*	*762*	*914.4*	*1066.8*	*1219.2*	*1371.6*	*1524*	*1676.4*	*1828.8*	*1981.2*	*2133.6*
12	**0.32**	**0.51**	**0.71**	**0.90**	**1.09**	**1.28**	**1.48**	**1.67**	**1.86**	**2.05**	**2.25**	**2.44**	**2.63**
304.8	*0.03*	*0.05*	*0.07*	*0.08*	*0.10*	*0.12*	*0.14*	*0.15*	*0.17*	*0.19*	*0.21*	*0.23*	*0.24*
18	**0.55**	**0.88**	**1.21**	**1.54**	**1.86**	**2.19**	**2.52**	**2.85**	**3.18**	**3.51**	**3.84**	**4.17**	**4.50**
457.2	*0.05*	*0.08*	*0.11*	*0.14*	*0.17*	*0.20*	*0.23*	*0.26*	*0.30*	*0.33*	*0.36*	*1.00*	*0.42*
24	**0.77**	**1.22**	**1.68**	**2.14**	**2.60**	**3.06**	**3.52**	**3.98**	**4.44**	**4.90**	**5.36**	**5.81**	**6.27**
609.6	*0.07*	*0.11*	*0.16*	*0.20*	*0.24*	*0.28*	*0.33*	*0.37*	*0.41*	*0.45*	*0.50*	*0.54*	*0.58*
30	**1.04**	**1.66**	**2.28**	**2.90**	**3.52**	**4.14**	**4.77**	**5.39**	**6.01**	**6.63**	**7.25**	**7.87**	**8.50**
762	*0.10*	*0.15*	*0.21*	*0.27*	*0.33*	*0.39*	*0.44*	*0.50*	*0.56*	*0.62*	*0.67*	*0.73*	*0.79*
36	**1.30**	**2.08**	**2.86**	**3.64**	**4.41**	**5.19**	**5.97**	**6.75**	**7.53**	**8.31**	**9.09**	**9.87**	**10.65**
914.4	*0.12*	*0.19*	*0.27*	*0.34*	*0.41*	*0.48*	*0.55*	*0.63*	*0.70*	*0.77*	*0.84*	*0.92*	*0.99*
42	**1.52**	**2.42**	**3.33**	**4.24**	**5.15**	**6.06**	**6.97**	**7.88**	**8.79**	**9.70**	**10.61**	**11.51**	**12.42**
1066.8	*0.14*	*0.23*	*0.31*	*0.39*	*0.48*	*0.56*	*0.65*	*0.73*	*0.82*	*0.90*	*0.99*	*1.07*	*1.15*
48	**1.75**	**2.80**	**3.85**	**4.90**	**5.95**	**7.01**	**8.06**	**9.11**	**10.16**	**11.21**	**12.26**	**13.31**	**14.36**
1219.2	*0.16*	*0.26*	*0.36*	*0.46*	*0.55*	*0.65*	*0.75*	*0.85*	*0.94*	*1.04*	*1.14*	*1.24*	*1.33*
54	**2.04**	**3.26**	**4.48**	**5.71**	**6.93**	**8.15**	**9.37**	**10.60**	**11.82**	**13.04**	**14.26**	**15.49**	**16.71**
1371.6	*0.19*	*0.30*	*0.42*	*0.53*	*0.64*	*0.76*	*0.87*	*0.98*	*1.10*	*1.21*	*1.33*	*1.44*	*1.55*
60	**2.27**	**3.62**	**4.98**	**6.34**	**7.70**	**9.06**	**10.42**	**11.78**	**13.14**	**14.50**	**15.86**	**17.21**	**18.57**
1524	*0.21*	*0.34*	*0.46*	*0.59*	*0.72*	*0.84*	*0.97*	*1.09*	*1.22*	*1.35*	*1.47*	*1.60*	*1.73*
66	**2.48**	**3.97**	**5.46**	**6.95**	**8.44**	**9.93**	**11.42**	**12.90**	**14.39**	**15.88**	**17.37**	**18.86**	**20.35**
1676.4	*0.23*	*0.37*	*0.51*	*0.65*	*0.78*	*0.92*	*1.06*	*1.20*	*1.34*	*1.48*	*1.61*	*1.75*	*1.89*



Test Data

Published data is in accordance with ANSI/ AMCA 500-L, Figure 5.5. Data corrected to standard air density. Test Sample Size 48”x48”

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 point of zero water penetration is defined as that velocity where the water penetration curve projects through .01 oz of water penetration per sq. ft. of louver area.

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