

MODEL H4451 STORMPROOF LOUVER

PERFORMANCE

Performance Rating Standard	AMCA Standard 500L		
Louver Type	Mullion or Continuous Line Construction		
Louver Depth	4" (102 mm)		
Blade Angle	450		
Free Area – 4'x4' Unit	8.12 sq.ft. (0.755 m ²)		
Percentage Free Area	51%		
Free Area Velocity at Beginning Point of Water	GEQ FDM (2.24 m/s)		
Penetration (0.01 oz / ft²)	658 FPM (3.34 m/s)		
Air Volume at Beginning Point of Water Penetration	5343 CFM (2.52 m³/s)		
4' x 4' Unit (test duration of 15 minutes)			
Pressure Drop at Beginning Point of Water	.077 in. H₂O (19.18 Pa)		
Penetration			
Notes	Tested without bird screens		



Where indicated on drawings, supply and install 4" (102 mm) deep louver Model H4451 with stormproof blades, mullions and jambs as manufactured by Ten Plus Architectural Products Ltd. Submit all details to consultant for approval prior to fabrication. Head, sill, jambs and mullions shall have a minimum thickness of 0.080" (2.0 mm) 6063-T52 aluminum alloy.

Blades shall be continuous, 0.080" (2.0 mm) 6063-T52 aluminum alloy with a storm hook design. Louvers shall be supplied with a 1/2" (12 mm), 19 gauge (1 mm) welded and regalvanized wire mesh in a mill finish, aluminum frame. Fasteners shall be standard zinc plated steel or stainless steel.

Structural supports shall be designed and furnished by the louver manufacturer to support a wind load of 20 psf (955 Pa), unless specified otherwise. Any louver opening greater that 10' (3 m) high, will require a horizontal girt, at mid span by others.

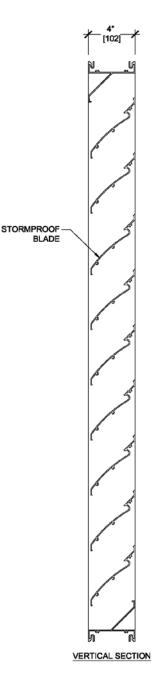
The louver manufacturer shall submit data, on a 4' x 4' (1.2 x1.2 m) unit, showing that the louver performs to the following criteria, based on tests & procedures performed in accordance with the AMCA Publication 511, and comply with the "Certified Ratings Program" licensed to bear the AMCA seal:

Free area = 8.12 sq. ft. (0.755 m^2) Free area velocity at point of beginning water penetration = 658 FPM (3.34 m/s) Intake pressure drop at beginning point of water penetration = 0.077 in. H₂O (19.18 Pa)

Louvers shall be fabricated with mill finish aluminum and the finish shall be applied after assembly. Select desired finish from the following: fluoropolymer resin with a two or three coat application; thermosetting acrylic; Clear Anodic; Color Anodic or Prime Coat for field painting.







PERFORMANCE RATINGS – LOUVER MODEL H4451

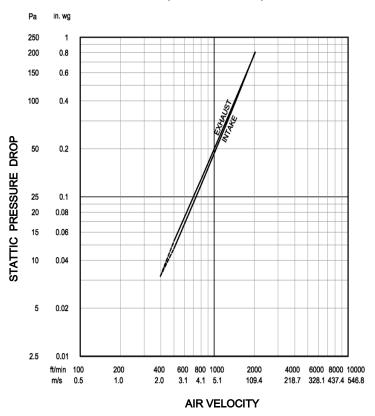
FREE AREA CHART

LOUVER WIDTH

	INCHES	12	24	36	48	60	
	ММ	305				1524	
	FREE AREA COULARS SEET / COULARS METERS						
LOUVER HEIGHT	12	0.33	0.73	1.13	1.53	1.92	
	305	0.03	0.07	0.10	0.14	0.18	
	24	0.74	1.62	2.51	3.40	4.28	
	610	0.07	0.15	0.23	0.32	0.40	
	36		2.83				
	914	0.12	0.26	0.41	0.55	0.69	
	48	1.78	3.92	6.05	8.12	10.32	
	1219	0.17	0.36	0.56	0.75	0.96	
	60		4.93				
	1524	0.21	0.46	0.71	0.96	1.21	
	72	2.79	6.14	9.49	12.84	16.19	
	1829	0.26	0.57	0.88	1.19	1.50	
	84		7.60				
	2134	0.32	0.71	1.09	1.48	1.86 21.73	
	96	3.75	8.24	12.74	17.23	21.73	
	2438	0.35	0.77	1.18	1.60	2.02	
	108		9.14				
	2743	0.39	0.85	1.31	1.78	2.24 27.27	
	120						
	3048		0.96				
	132		11.55				
	3353	0.49	1.07 12.44	1.66	2.24	2.83	
	144	5.66	12.44	19.23	26.02	32.81	
	3658	0.53	1.16	1.79	2.42	3.05	

AIR FLOW RESISTANCE

(TEST SIZE OF 4' X 4')





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Ten Plus Architectural Products Ltd. certifies that louver model H4451 shown herein 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 only to Air Performance and Water Penetration ratings.

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Ten Plus Architectural Products Ltd. reserves the right to make design changes or to withdraw product without notice.