

Page 1

STANDARD CONSTRUCTION

FRAME:	.081" thk. (nominal) extruded aluminum, 6063-T52/T6 alloy.
BLADE:	.081" thk. (nominal) extruded aluminum, 6063-T52/T6 alloy.
	Blades approximately 2" on centers.
LOUVER FACE:	Head and blades are contained within jambs, sill contains
	jambs.
SCREENS:	(When indicated, in a removable frame.)
	$\frac{1}{2}$ " flattened aluminum (.051" thick),
-or-	1/2" sq. mesh, intermediate double-crimped aluminum
	wire, .063" dia.,
-or-	¹⁸ / ₁₆ mesh, .011" dia. aluminum wire, insect screen.
FINISH:	Mill

OPTIONS

Finish - Baked Enamel, Kynar, Anodize

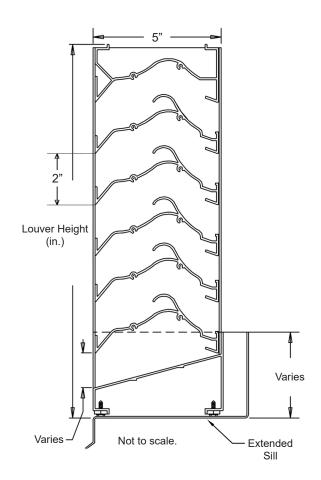
NOTES

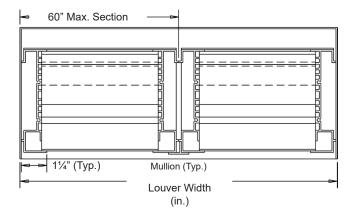
1. 1/2" nominal deduction will be made to the opening size given.

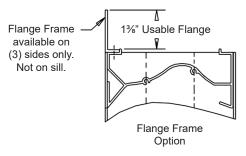
2. Louvers larger than the maximum factory assembled size will require field assembly of smaller louver sections.

3. Approximate shipping weight is 5.5 lbs./sq.ft.

LOUVER SIZES							
Min Panel	Max Single Panel						
12"W x 12"H	40 sq. ft.						







Thom #	0	Width	Height	Width	Height	Mullion	Туре	Location		OD OT	
Item #	item # Qty Opening Size		ng Size	Louver Size		Mullion	Screens			<u>Union Made</u>	
Arch. /	Eng. :					EDR:		ECN:	Job:		
Contra	Contractor:										
Pr	oject:					Date:		DWN:	DWG:		
In the interest of n	the interest of product development Louvers & Dampers reserves the right to make changes without notice										

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Page 2

Severe Weather Louver • 5" Deep • Chevron Drainable Blades • Stationary • Channel Type • Sightproof

PERFORMANCE DATA

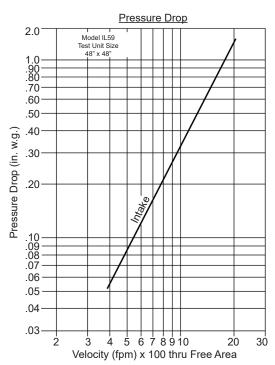
Beginning Point of Water Penetration:

Pressure Drop: Free Area: .32 in. w.g. at 1000 fpm (intake)

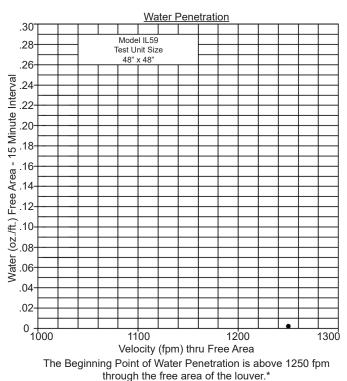
7.08 sq.ft. = 44.3% for 48"W x 48"H sample tested in accordance with AMCA Standard 500-L. Over 1250 fpm

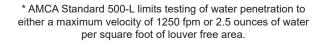
Class "A" Rating with 99.0% efficiency at 3 in. rain fall at intake velocity of 1133 fpm (8,022 cfm) at wind speed of 29 mph. Class "B" Rating with 95.7% efficiency at 8 in. rain fall at intake velocity of 1307 fpm (9,254 cfm) at wind speed of 50 mph. Testing based on 48" x 48" based on AMCA Standard 500-L.

Ratings do not include effects of a screen.



Intake air converted to standard air density. Tested to AMCA Standard 500-L, Figure 5.5.





Free Area (sa	. ft.))

			Width (in.)										
		12"	24"	36"	48"	60"	72"	84"	96"	108"	120"		
	12"	.21	.49	.76	1.04	1.31	1.58	1.86	2.13	2.40	2.68		
	24"	.63	1.43	2.24	3.04	3.85	4.65	5.46	6.26	7.07	7.87		
	36"	1.04	2.38	3.72	5.05	6.39	7.73	9.06	10.40	11.73	13.07		
	48"	1.46	3.33	5.19	7.08	8.93	10.80	12.67	14.53	16.40	18.27		
it (in.)	60"	1.88	4.27	6.67	9.07	11.47	13.87	16.27	18.67	21.07	23.46		
Height	72"	2.29	5.22	8.15	11.08	14.01	16.94	19.87	22.80	25.73	28.66		
Ξ	84"	2.71	6.17	9.63	13.09	16.55	20.01	23.47	26.93	30.40	33.86		
	96"	3.12	7.11	11.11	15.10	19.09	23.08	27.08	31.07	35.06	39.05		
	108"	3.54	8.06	12.58	17.11	21.63	26.16	30.68	35.20	39.73	44.25		
	120"	3.95	9.01	14.06	19.12	24.17	29.23	34.28	39.34	44.39	49.45		

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Model IL59

SD-IL59-19.10

Page 3

Severe Weather Louver • 5" Deep • Chevron Drainable Blades • Stationary • Channel Type • Sightproof

WIND DRIVEN RAIN

Wind Driven Rainwater Penetration Test Conducted to AMCA Standard 500-L.

Test size 1m x 1m (39.7" x 39.7") core area, 41.87" x 42.77" nominal.

Louver Free Area 5.54 square feet.

Core Ventilation (m/s)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Rain Fall / MPH
FPM	0	0	0	0	385	474	583	682	771	866	981	
Free Area Ventilation (cfm)	-	-	-	-	4,143	5,108	6,276	7,347	8,303	9,321	10,560	3 in. / hr. rain fall
Free Area Velocity (fpm)	-	-	-	-	748	922	1,133	1,326	1,499	1,682	1,906	and
Effective Rating Class	А	Α	Α	Α	A	Α	Α	В	В	С	С	29 mph Velocity
Effectiveness Ratio (%)	-	-	-	-	99.8	99.6	99.0	97.1	95.1	90.6	89.3	velocity
FPM	0	122	190	285	390	481	569	673	773	884	945	
Free Area Ventilation (cfm)	-	1,313	2,049	3,071	4,202	5,179	6,129	7,243	8,324	9,521	10,174	8 in. / hr. rain fall
Free Area Velocity (fpm)	-	237	370	554	758	935	1,106	1,307	1,503	1,719	1,836	and
Effective Rating Class	В	В	В	В	В	В	В	В	С	С	С	50 mph Velocity
Effectiveness Ratio (%)	98.3	98.2	98.1	97.9	97.7	97.9	97.6	95.7	93.9	89.8	85.8	velocity

Wind Driven Rain Penetration Classifications

Effectiveness %
100 to 99%
98.9% to 95%
94.9% to 80%
Below 80%

Discharge Loss Coefficient Classifications

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

Discharge Coefficient

Intake Cd= 0.29 (Class 3)

Class 1 Loss Coefficient has the least resistance to airflow.

- 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 (39.37" x 39.37").
- Free area is the minimum area through which air can pass. It is determined by multiplying the sum of the minimum distance between intermediate blades, top blade and head, bottom blade and sill, by the minimum distance between jambs.
- 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.



Louvers & Dampers certifies that the Model IL59 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 to Water Penetration, Air Performance, and Wind Driven Rain Ratings only.

