

Wind Driven Rain Louver

Aluminum Construction • 6" Deep • Architectural Storm Louver

IL61/2/3

STANDARD CONSTRUCTION

- HEAD: .093" thick 6063-T5 extruded aluminum alloy  
SILL: .093" thick 6063-T5 extruded aluminum alloy  
JAMBS: .093" thick 6063-T5 extruded aluminum alloy  
BLADES: .24" thick at edges, reducing to .063" thickness at midpoint of profile 6063-T5 extruded aluminum alloy  
BLADE SPACING: IL61 - 1" (25.4mm)  
IL62 - 1.25" (31.8mm)  
IL63 - 1.5" (38.1mm)  
ASSEMBLY: Mechanically Fastened  
FINISH: Mill  
SCREEN: None  
MULLIONS: 1.75" x .08" 6063-T5 extruded aluminum exposed vertical cover; .08" sill plate exposed horizontal.

OPTIONS

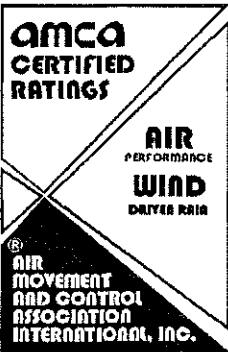
- Baked Enamel Finish  
Kynar Finish  
Anodize Finish  
Variety of bird and insect screens  
Welded Construction  
Flange Frame  
Extended Sill

NOTES

1. "A" width and "B" height are opening dimensions. Louvers are provided approximately 1/4" undersize.  
2. Panels over 60" wide will have a 1.5" x 1.5" x .125" (38.1mm x 38.1mm x 3.18mm) 6063-T5 aluminum support angle mounted vertically on interior approximately at the midpoint.

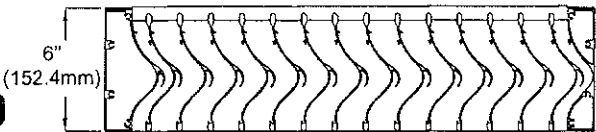
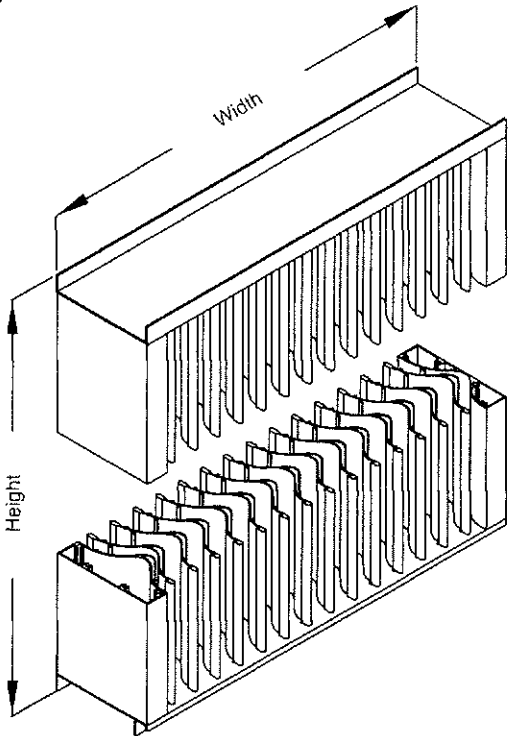
DAMPER SIZES

Orientation	Vertical Mount	
Panels	Minimum Panel	Maximum Panel
IL61 (1" blade spacing)	12"W x 12"H	96"W x 60"H 60"W x 96"H
IL62 (1.25" blade spacing)	12"W x 12"H	96"W x 60"H 60"W x 96"H
IL63 (1.5" blade spacing)	12"W x 12"H	96"W x 60"H 60"W x 96"H

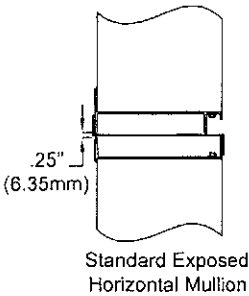
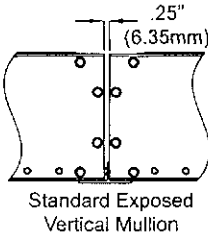
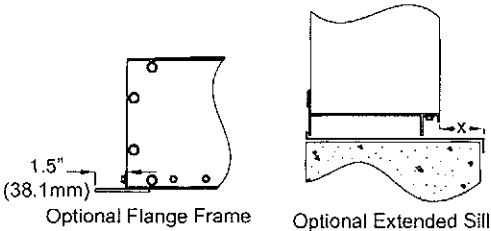


Louvers & Dampers certifies that the models IL61 and IL63 louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Performance and Wind Driven Rain Performance Ratings only.

\*The AMCA Certified Ratings Seal does not apply to 1.25" blade spacing (Model IL62).



IL6



Louvers **LD** Dampers

SD-IL6-08.05

P.O. Box 606 • 7435 Industrial Rd • Florence, KY 41042 • Phone (859) 647-2299 • Fax (859) 647-7810

May 2008

# IL61/2/3

## Wind Driven Rain Louver

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1. Test size in 48"W x 48"H (1.2m x 1.2m)
2. Ratings do not include the effect of a screen
3. Data is at standard air density.

### Water Penetration:

Not AMCA Certified

### Air Performance:

- 1" Blade Spacing (IL61) - 0.10 in.wg (24.8 Pa) at 1250 fpm (6.4 m/s) and 7638 scfm (3.6 scm/s)
- 1.25" Blade Spacing (IL62) - Not AMCA Certified
- 1.5" Blade Spacing (IL63) - 0.15 in.wg (37.2 Pa) at 1250 fpm (6.4 m/s) and 9700 scfm (4.6 scm/s)

### Free Area:

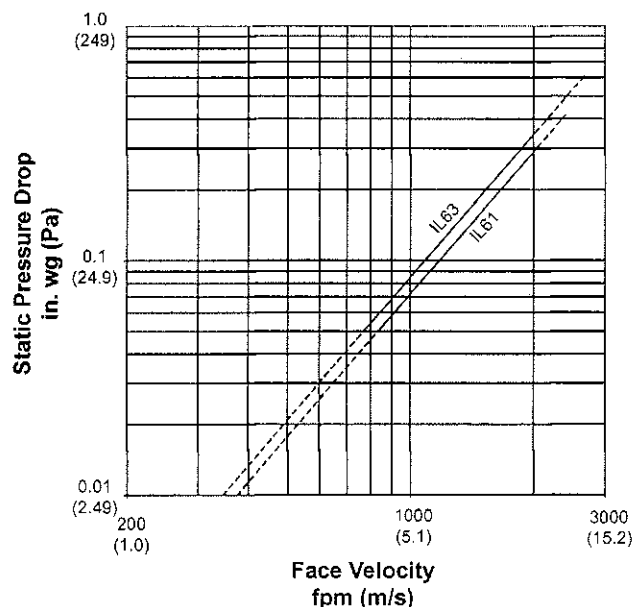
- 1" Blade Spacing (IL61) - 6.314 sqft (0.58 sqm) = 39.5%
- 1.25" Blade Spacing (IL62) - Not AMCA Certified
- 1.5" Blade Spacing (IL63) - 7.611 sqft (0.71 sqm) = 47.6%

### Wind Driven Rain:

1. Test size in 48"W x 48"H (1.2m x 1.2m)
2. Core velocity is the air velocity through the core area of the louver, which is the louver face area less the louver frames.
3. Discharge Loss Coefficient is calculated by dividing a louver's actual airflow rate by the theoretical airflow rate for the opening. A higher coefficient indicates less resistance to airflow.

Blade Spacing	Rainfall Rate	Wind Velocity	Core Velocity	Airflow	Free Area Velocity	Water Penetration Effectiveness	Discharge Loss Coefficient
1.0" (25.4mm) IL61	8 in/hr (200 mm/hr)	50 mph (22 m/s)	691 fpm (3.5 m/s)	10121 cfm (4.8 cm/s)	1656 fpm (8.4 m/s)	100% - Class A	≥ 0.3 - Class 2
1.5" (38.1mm) IL63	3 in/hr (75 mm/hr)	29 mph (13 m/s)	691 fpm (3.5 m/s)	10121 cfm (4.8 cm/s)	1299 fpm (6.6 m/s)	100% - Class A	≥ 0.4 - Class 1
1.5" (38.1mm) IL63	8 in/hr (200 mm/hr)	50 mph (22 m/s)	691 fpm (3.5 m/s)	10121 cfm (4.8 cm/s)	1330 fpm (6.8 m/s)	99.5% - Class A	≥ 0.4 - Class 1

### Pressure Drop:



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In the interest of product development, Louvers & Dampers reserves the right to make changes without notice.

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Free Areas in sq.ft (sq.m)

		Nominal Width in Inches (mm)							
		12	24	36	48	60	72	84	96
		305	610	914	1219	1524	1829	2134	2438
A6SA (1 inch blade spacing)									
Nominal Height in Inches (mm)	12	.23	.55	.87	1.19	1.51	1.83	2.15	2.47
	305	.021	.051	.081	.111	.140	.170	.200	.230
	24	.56	1.32	2.09	2.85	3.62	4.39	5.15	5.92
	610	.052	.123	.194	.265	.337	.408	.479	.551
	36	.88	2.09	3.30	4.52	5.73	6.94	8.15	9.36
	914	.082	.194	.307	.420	.532	.645	.757	.870
	48	1.21	2.86	4.52	6.18	7.83	9.49	11.14	12.80
	1219	.112	.266	.420	.574	.727	.882	1.035	1.190
	60	1.53	3.63	5.73	7.84	9.94	12.04	14.14	16.24
	1524	.142	.337	.532	.728	.923	1.119	1.314	1.509
1 Section	72	1.86	4.40	6.95	9.50	12.04	13.84	16.29	18.72
	1829	.173	.409	.646	.883	1.119	1.286	1.513	1.739
	84	2.18	5.17	8.17	11.16	14.15	16.42	19.29	22.16
	2134	.203	.480	.759	1.037	1.315	1.525	1.792	2.059
	96	2.51	5.94	9.38	12.82	16.26	18.98	22.40	25.6
	2438	.233	.552	.871	1.191	1.511	1.763	2.071	2.378
	1 Section				2 Sections wide x				
	12	24	36	48	60	72	84	96	
	305	610	914	1219	1524	1829	2134	2438	
	A6SC (1.5 inch blade spacing)								
1 Section	12	.28	.67	1.06	1.45	1.84	2.23	2.61	3.00
	305	.026	.062	.098	.135	.171	.207	.242	.279
	24	.67	1.6	2.52	3.45	4.37	5.3	6.22	7.15
	610	.062	.149	.234	.321	.406	.492	.578	.664
	36	1.06	2.53	3.99	5.45	6.91	8.37	9.83	11.29
	914	.098	.235	.371	.506	.642	.778	.913	1.049
	48	1.46	3.45	5.45	7.44	9.44	11.44	13.43	15.45
	1219	.136	.321	.506	.691	.877	1.063	1.248	1.435
	60	1.85	4.38	6.91	9.44	11.98	14.51	17.04	19.57
	1524	.172	.407	.642	.877	1.113	1.348	1.583	1.818
1 Section high	72	2.24	5.31	8.37	11.44	14.51	16.73	19.66	22.58
	1829	.208	.493	.778	1.062	1.348	1.554	1.826	2.098
	84	2.63	6.23	9.84	13.44	17.04	19.8	23.26	26.72
	2134	.244	.579	.914	1.249	1.583	1.840	2.161	2.482
	96	3.02	7.16	11.30	15.44	19.58	22.88	26.87	30.86
	2438	.281	.665	1.050	1.434	1.819	2.126	2.496	2.867
	1 Section				2 Sections wide x				
	12	24	36	48	60	72	84	96	
	305	610	914	1219	1524	1829	2134	2438	

		Nominal Width in Inches (mm)							
		12	24	36	48	60	72	84	96
		305	610	914	1219	1524	1829	2134	2438
A6SB (1.25 inch blade spacing)									
Nominal Height in Inches (mm)	12	.27	.63	1.0	1.36	1.73	2.1	2.46	2.83
	305	.025	.059	.093	.126	.161	.195	.229	.263
	24	.64	1.52	2.4	3.28	4.15	5.04	5.92	6.80
	610	.060	.141	.223	.305	.386	.468	.550	.632
	36	1.00	2.37	3.74	5.11	6.48	7.85	9.22	10.59
	914	.093	.220	.347	.475	.602	.729	.857	.984
	48	1.36	3.22	5.08	6.94	8.80	10.66	12.52	14.38
	1219	.126	.299	.472	.645	.818	.990	1.163	1.336
	60	1.73	4.11	6.48	8.85	11.23	13.6	15.89	18.36
	1524	.161	.382	.602	.822	1.043	1.263	1.484	1.705
1 Section	72	2.09	4.95	7.82	10.68	13.55	15.70	18.44	21.18
	1829	.194	.460	.727	.992	1.259	1.459	1.713	1.968
	84	2.46	5.84	9.22	12.60	15.98	18.51	21.74	24.97
	2134	.229	.543	.857	1.171	1.485	1.720	2.020	2.320
	96	2.82	6.69	10.56	14.43	18.29	21.31	25.04	28.76
	2438	.262	.622	.981	1.341	1.700	1.980	2.326	2.672
	1 Section				2 Sections wide x				
	12	24	36	48	60	72	84	96	
	305	610	914	1219	1524	1829	2134	2438	

**Free Area:**  
To determine minimum free area required for louver:  
**Step #1:** Divide the required CFM flow by the maximum recommended free area velocity.  
**Step #2:** Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.  
**Step #3:** Compare specified performance to the certified wind driven rain and air performance ratings.

**Step #1:** Given 15,000 CFM design flow.  
**Step #2:** Min. free area =  $\frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}$   
$$= \frac{15,000}{1250} = 12.00\text{sqft.}$$
  
**Step #3:** From the free area table, the approximate louver size is 72"W x 60"H for an IL61.



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A Weber Company

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