

MODEL XSD-130

HIGH PERFORMANCE SIGHT PROOF FIXED LOUVER

STANDARD CONSTRUCTION:

FRAME:

.081 Extruded Aluminum 5.1" (129.5mm) Deep

BLADES:

.063" (1.6mm) Extruded Aluminum on approximately 2" (51mm) centers.

BIRDSCREEN:

0.50" x 0.050" [12.70mm x 1.27mm] Flattened Aluminum in removable frame. Screen is mounted as standard on inside (rear) as looking from exterior of building.

FINISH:

Mill Aluminum (Std)

MINIMUM SIZE:

12"w x 12"h (305mm x 305mm)

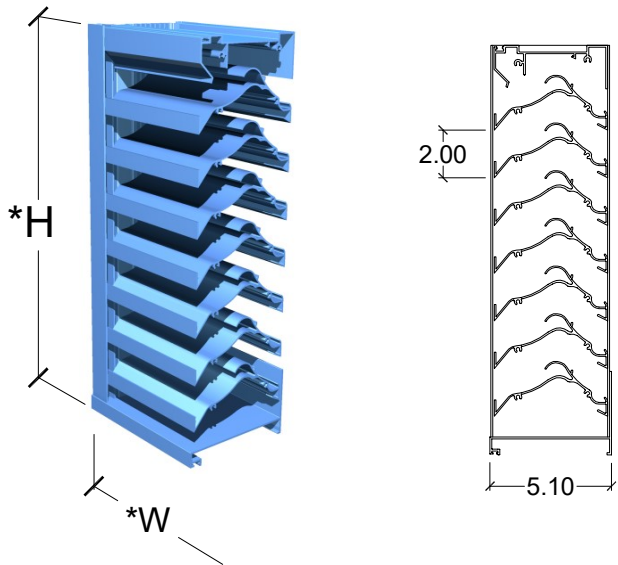
MAXIMUM SIZE:

Factory Assembled 120"w x 84"h or 84"w x 120"h (3048mm x 2134mm or 2134mm x 3048mm)

Note: Drainable blade louvers should be limited to 10' maximum section widths (no more than 10' between vertical downspouts) to enable the drainable design to function effectively.

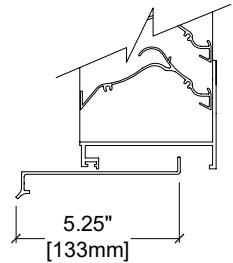
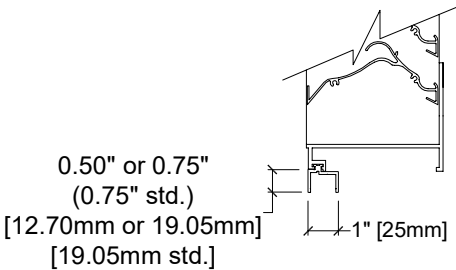
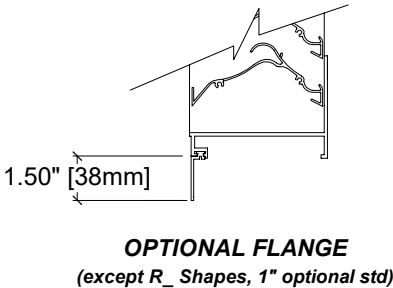
OPTIONS:

- Flanged Frame (1.50" std. [38mm]), (1" std. [25mm] for shapes R_)
- Custom Flange (1", 2" , or 3" [25mm, 51mm, or 76mm), (1.5", 2", or 3" for shapes R_)
- Extended Sill [38mm, 51mm, 76mm]
- Glazing Adapter (.50" or .75") [12.7mm or 19.1mm]
- Insect Screen (Other Screens Available, See Screen Page)
- Filter Racks (no screen)
- Security Bars
- Hinged Sub Frame
- Welded Construction (Wind Load +/- 50 psf)
- Blank-off, Alum., non-insulated, no screen, non-removeable
- Blank-off, Alum., non-insulated, with bird screen or insect screen
- Blank-off, Alum., insulated double wall, with bird screen, removable
- Blank-off, Alum., insulated double wall, no screen, non-removeable




AVAILABLE FINISHES:

- Durable Polyester (AAMA 2604)
- 70% PVDF Fluoropolymer (AAMA 2605)
- Yellow Primer
- Clear Anodize
- Dark Bronze Anodize



*Width and Height dimensions are approximately 1/4" (6mm) under listed size.

Due to continuing research, United Enertech reserves the right to change specifications without notice.

		3005 South Hickory Street Chattanooga, Tennessee 37407 Tel: (423) 698-7715 Fax: (423) 698-6629 www.unitedenertech.com			
		MODEL XSD-130 (Multiple-Series Drain Wind Driven Rain Louver)			
DRAWN BY:	DATE:	REV. DATE:	REV. NO.	APPROVED BY:	DWG. NO.:
CLJ	September 2013	April 2014	3	BGT	A-16a

Performance Data

Test size 1m x 1m (39"x39") core
41-5/8"w x 41-7/8"h Nominal (1.057m x 1.063m)

Wind Driven Rain Penetration Classes	
Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

* Discharge Loss Intake		
Wind Velocity (mph)	Class	
	Intake	Exhaust
29	2	3
50	2	3

* Discharge loss coefficient is the theoretical air flow of an opening divided by the actual flow rate of a louver the same size.

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	.0199 and below

(the higher the coefficient, the less resistance to airflow.)

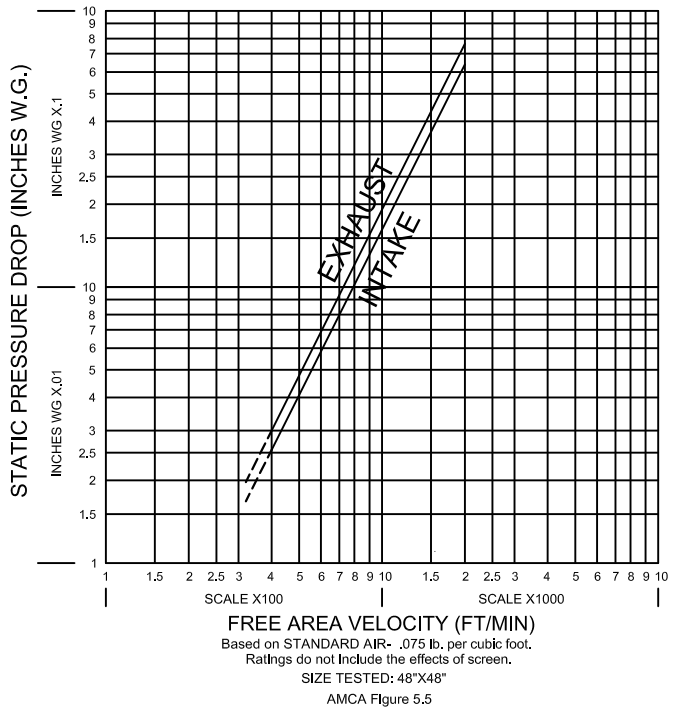
XSD-130 Specifications

Furnish and install louver as hereinafter specified where shown on plans or as described in schedules. Louver shall be stationary type with horizontal rain resistant style blades positioned on approximately 2" centers within 5" deep frame. Louver frame materials to be .081" thick 6063-T5 extruded aluminum. Louver blade materials to be .063" thick 6063-T5 extruded aluminum. Sections up to max of 84" w x 120" h shall withstand wind loading of 30 lbs/sq. ft. (110 mph wind equivalent). Consult factory for welded construction and higher wind speeds. Louver shall have a minimum free area of 7.38 sq. ft. based on the standard 48" w x 48" h test specimen. Louver shall have a maximum static pressure drop of 0.17" (intake) & 0.19" (exhaust) water gage based on 1000 FPM free area velocity. Louver shall carry a Class A water penetration classification based on a ventilation air core velocity of 472 FPM at a rainfall rate of 3" per hour and a 29 mph simulated wind velocity.

75 mm/h (3 in/h) Rainfall & 13 m/s (29 mph) Wind Velocity				
Core Velocity fpm (m/s)	Ventilation Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)	100.0	A
132 (0.7)	1421 (0.67)	258 (1.3)	100.0	A
197 (1.0)	2121 (1.00)	386 (2.0)	100.0	A
287 (1.5)	3089 (1.46)	562 (2.9)	100.0	A
382 (1.9)	4112 (1.94)	748 (3.8)	100.0	A
468 (2.4)	5038 (2.38)	916 (4.7)	99.2	A
583 (3.0)	6275 (2.96)	1141 (5.8)	97.9	B
678 (3.4)	7298 (3.44)	1327 (6.7)	96.1	B

202.4 mm/h (8 in/h) Rainfall & 22 m/s (50 mph) Wind Velocity				
Core Velocity fpm (m/s)	Ventilation Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)	97.4	B
85 (0.4)	915 (0.43)	166 (0.8)	96.9	B
187 (0.9)	2013 (0.95)	366 (1.9)	96.6	B
285 (1.4)	3068 (1.45)	558 (2.8)	97.2	B
396 (2.0)	4263 (2.01)	775 (3.9)	96.8	B
493 (2.5)	5307 (2.50)	965 (4.9)	96.5	B
572 (2.9)	6157 (2.91)	1119 (5.7)	96.3	B
674 (3.4)	7255 (3.42)	1319 (6.7)	95.7	B

Air Flow Resistance



XSD-130 FREE AREA IN SQ. FT.

Louver Height Inches	Width - Inches																Louver Height Inches			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102		108	114	120
12	0.31	0.50	0.68	0.87	1.06	1.25	1.44	1.63	1.82	2.01	2.20	2.39	2.57	2.76	2.95	3.14	3.33	3.52	3.71	12
18	0.48	0.77	1.06	1.35	1.65	1.94	2.23	2.52	2.82	3.11	3.40	3.70	3.99	4.28	4.57	4.87	5.16	5.45	5.74	18
24	0.67	1.08	1.49	1.91	2.32	2.73	3.14	3.55	3.97	4.38	4.79	5.20	5.61	6.03	6.44	6.85	7.26	7.68	8.09	24
30	0.97	1.56	2.15	2.75	3.34	3.93	4.53	5.12	5.72	6.31	6.90	7.50	8.09	8.69	9.28	9.87	10.47	11.06	11.66	30
36	1.13	1.83	2.53	3.23	3.92	4.62	5.32	6.02	6.72	7.41	8.11	8.81	9.51	10.20	10.90	11.60	12.30	12.99	13.69	36
42	1.40	2.27	3.13	4.00	4.86	5.72	6.59	7.45	8.32	9.18	10.04	10.91	11.77	12.64	13.50	14.36	15.23	16.09	16.96	42
48	1.57	2.54	3.51	4.48	5.44	6.41	7.38	8.35	9.31	10.28	11.25	12.22	13.19	14.15	15.12	16.09	17.06	18.02	18.99	48
54	1.77	2.85	3.94	5.03	6.11	7.20	8.29	9.38	10.46	11.55	12.64	13.72	14.81	15.90	16.99	18.07	19.16	20.25	21.33	54
60	2.06	3.33	4.60	5.87	7.14	8.41	9.68	10.94	12.21	13.48	14.75	16.02	17.29	18.56	19.83	21.10	22.37	23.63	24.90	60
66	2.23	3.60	4.98	6.35	7.72	9.09	10.47	11.84	13.21	14.59	15.96	17.33	18.70	20.08	21.45	22.82	24.19	25.57	26.94	66
72	2.42	3.92	5.41	6.90	8.39	9.89	11.38	12.87	14.36	15.85	17.35	18.84	20.33	21.82	23.31	24.81	26.30	27.79	29.28	72
78	2.72	4.39	6.07	7.74	9.42	11.09	12.76	14.44	16.11	17.79	19.46	21.13	22.81	24.48	26.16	27.83	29.50	31.18	32.85	78
84	2.89	4.67	6.44	8.22	10.00	11.78	13.56	15.33	17.11	18.89	20.67	22.44	24.22	26.00	27.78	29.55	31.33	33.11	34.89	84
90	3.08	4.98	6.88	8.77	10.67	12.57	14.47	16.36	18.26	20.16	22.05	23.95	25.85	27.74	29.64	31.54	33.44	35.33	37.23	90
96	3.38	5.46	7.54	9.62	11.69	13.77	15.85	17.93	20.01	22.09	24.17	26.25	28.33	30.40	32.48	34.56	36.64	38.72	40.80	96
102	3.55	5.73	7.91	10.10	12.28	14.46	16.64	18.83	21.01	23.19	25.37	27.56	29.74	31.92	34.10	36.29	38.47	40.65	42.84	102
108	3.74	6.04	8.35	10.65	12.95	15.25	17.55	19.86	22.16	24.46	26.76	29.06	31.37	33.67	35.97	38.27	40.57	42.88	45.18	108
114	4.04	6.52	9.00	11.49	13.97	16.46	18.94	21.42	23.91	26.39	28.88	31.36	33.84	36.33	38.81	41.30	43.78	46.26	48.75	114
120	4.21	6.79	9.38	11.97	14.56	17.14	19.73	22.32	24.91	27.49	30.08	32.67	35.26	37.85	40.43	43.02	45.61	48.20	50.78	120



United Enertech Corp. certifies that the louver XSD-130 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 rating seal applies to air performance and wind driven rain.