SUBMITTAL DATA

MODEL XSD-55

2" DEEP WIND DRIVEN RAIN FIXED LOUVER

STANDARD CONSTRUCTION:

Frame: .060 Extruded Aluminum, 2.16" Deep

Blade: .060 Extruded Aluminum on approximately 0.938" centers.

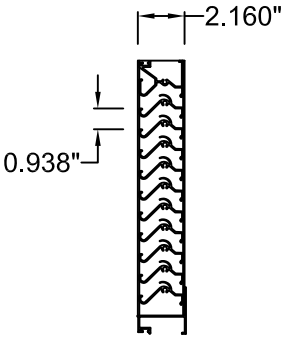
Birdscreen: .75" x .051" Flattened Aluminum in removable frame. Screen is mounted as standard on inside (rear) as looking from exterior of building.

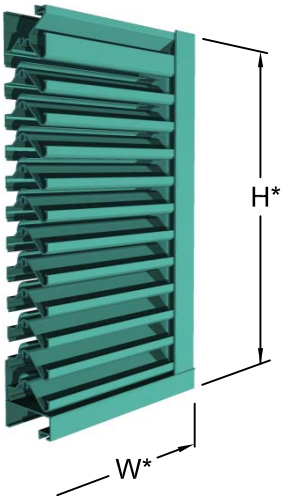
Finish: Mill Aluminum (Std.)

Minimum Size: 12 x12

Maximum Single Section: 120"w x 84"h or 84"w x 120"h

Note: 10' max width





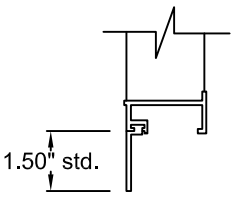
OPTIONS:

- ☐ Flanged Frame (1.50" std.), (1" std for shapes R_)
- ☐ Custom Flange (1", 2" , or 3"), (1.5", 2", or 3" for shapes R_)
- ☐ Extended Sill
- ☐ Glazing Adapter (.50" or .75")
- ☐ 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-removable

AVAILABLE FINISHES:

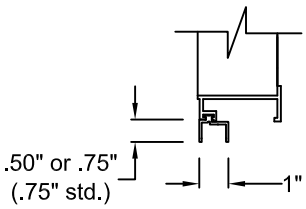
- ☐ **Powder Polyester TGIC** (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2603 Standards
- ☐ **Powder Super durable polyester** (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2604-05 Standards
- ☐ **Acrylic baked enamel** (ACRA-BOND® ULTRA) by AkzoNobel baked on at 350°F, 0.8 to 1.2 mils dry Meets AAMA-2603 Standards
- ☐ **Kynar**® (ALUM*A*STAR®) 2 coats by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry Meets AAMA-2604-04 Standards
- ☐ **Kynar 500**® or HYLAR® 5000 70% TRINAR® (2 coats) by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry, Meets AAMA-2605-05 Standards
- ☐ **Kynar 500**® or HYLAR® 5000 (70% Tri-Escent II) (2 coats) by AkzoNobel, a superior finish to other metallic or anodized finishes. A blend of mica, ceramic, and inorganic pigments creates subtle yet dazzling design that goes beyond metallic color without the requirement of a clear coat. 14 standard colors - custom colors available. Baked on at 415°F, 1.4 to 1.8 mils dry, meets AAMA 2605-05.
- ☐ **Clear Anodize** 204 R-1 Class II (AA-C22A31)(0.4 to 0.7 mil)
- ☐ **Clear Anodize** 215 R-1 Class I (AA-C22A41)(>0.7 mil)
- ☐ **Integral Color Anodize** (AA-C22A42)(>0.7 mil)

- Clear coat available for all above finishes.
- Hylar® 5000 is a registered trademark of Solvay Solexis, Inc.
- Kynar® 500 is a registered trademark of Arkema.
- ALUM*A*STAR® 50 and TRINAR® are registered trademarks of AkzoNobel
- ACRA-BOND® ULTRA is a registered trademark of AkzoNobel

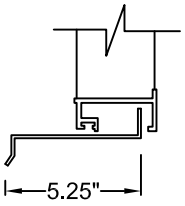


OPTIONAL FLANGE

(except R_ Shapes, 1" optional std)



OPTIONAL
GLAZING ADAPTER



OPTIONAL
EXTENDED SILL

*Width and Height dimensions are approximately 1/4" under listed size.

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

United Enertech

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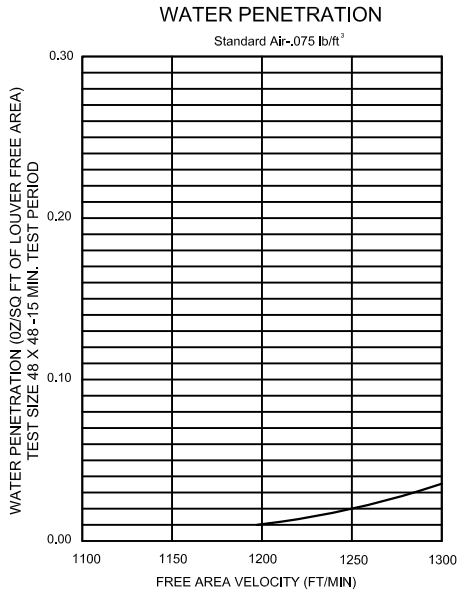
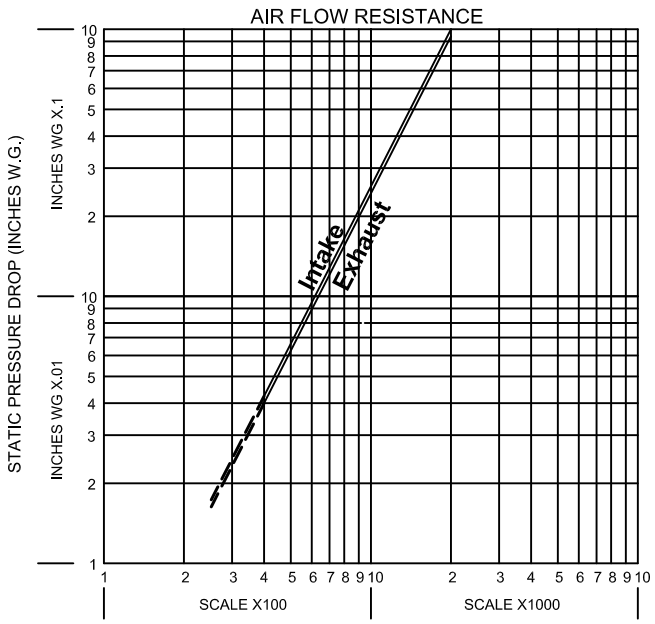
MODEL XSD-55 (2" Deep Wind-Driven Rain Louver)

DRAWN BY:	DATE:	REV. DATE:	REV. NO.	APPROVED BY:	DWG. NO.:
CLJ	November 2017			MD	A-16b

PERFORMANCE DATA



Beginning point of WATER PENETRATION
is
1195 fpm
free area velocity at .01 oz. of water penetration



Based on STANDARD AIR- .075 lb. per cublc foot.
Ratings do not include the effects of screen.

Test Figure 5.5
Test size 48" x 48"

XSD-55 FREE AREA IN SQ. FT.
Width - Inches

Louver Height Inches	Width 12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	Louver Height Inches
12	0.24	0.43	0.59	0.76	0.92	1.09	1.25	1.42	1.58	1.74	1.91	2.07	2.24	2.40	2.56	2.73	2.89	3.06	3.22	12
18	0.46	0.75	1.03	1.31	1.60	1.88	2.16	2.45	2.73	3.02	3.30	3.58	3.87	4.15	4.44	4.72	5.00	5.29	5.57	18
24	0.65	1.05	1.45	1.85	2.26	2.66	3.06	3.46	3.86	4.26	4.66	5.06	5.46	5.87	6.27	6.67	7.07	7.47	7.87	24
30	0.84	1.35	1.87	2.38	2.90	3.42	3.93	4.45	4.96	5.48	5.99	6.51	7.03	7.54	8.06	8.57	9.09	9.60	10.12	30
36	1.04	1.67	2.31	2.95	3.59	4.23	4.86	5.50	6.14	6.78	7.42	8.06	8.69	9.33	9.97	10.61	11.25	11.88	12.52	36
42	1.23	1.99	2.75	3.50	4.26	5.02	5.78	6.54	7.29	8.05	8.81	9.57	10.33	11.08	11.84	12.60	13.36	14.11	14.87	42
48	1.40	2.26	3.12	3.97	4.83	5.69	**6.55**	7.41	8.27	9.13	9.99	10.85	11.71	12.57	13.43	14.29	15.15	16.01	16.87	48
54	1.61	2.60	3.59	4.58	5.57	6.56	7.55	8.54	9.52	10.51	11.50	12.49	13.48	14.47	15.46	16.45	17.44	18.43	19.42	54
60	1.78	2.87	3.96	5.06	6.15	7.25	8.34	9.43	10.53	11.62	12.71	13.81	14.90	16.00	17.09	18.18	19.28	20.37	21.46	60
66	2.00	3.23	4.47	5.70	6.93	8.16	9.39	10.62	11.86	13.09	14.32	15.55	16.78	18.01	19.25	20.48	21.71	22.94	24.17	66
72	2.16	3.49	4.82	6.15	7.49	8.82	10.15	11.48	12.81	14.14	15.47	16.80	18.13	19.46	20.79	22.12	23.45	24.78	26.12	72
78	2.38	3.84	5.31	6.77	8.23	9.70	11.16	12.62	14.09	15.55	17.01	18.48	19.94	21.40	22.87	24.33	25.79	27.26	28.72	78
84	2.55	4.12	5.68	7.25	8.82	10.39	11.95	13.52	15.09	16.66	18.22	19.79	21.36	22.93	24.50	26.06	27.63	29.20	30.77	84
90	2.77	4.48	6.18	7.89	9.59	11.30	13.01	14.71	16.42	18.12	19.83	21.53	23.24							
96	2.93	4.74	6.54	8.35	10.15	11.96	13.76	15.57	17.37	19.17	20.98	22.78	24.59							
102	3.15	5.09	7.02	8.96	10.90	12.84	14.77	16.71	18.65	20.59	22.52	24.46	26.40							
108	3.32	5.36	7.40	9.44	11.48	13.53	15.57	17.61	19.65	21.69	23.73	25.78	27.82							
114	3.54	5.72	7.90	10.08	12.26	14.44	16.62	18.80	20.98	23.16	25.34	27.52	29.70							
120	3.70	5.98	8.26	10.54	12.82	15.10	17.37	19.65	21.93	24.21	26.49	28.77	31.05							

amca WORLDWIDE CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE
WIND DRIVEN RAIN
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.®
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United Enertech certifies that the XSD-55 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications 511 and comply with the requirments of the AMCA Certified Ratings Program. The AMCA certified rating seal applies to air performance ratings, water penetration, and wind driven rain ratings.

WIND-DRIVEN RAIN

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)	98.1	B
99 (0.5)	1066 (0.50)	194 (1.0)	95.2	B
196 (1.0)	2110 (1.00)	384 (1.9)	92.4	C
291 (1.5)	3132 (1.48)	570 (2.9)	89.8	C
395 (2.0)	4252 (2.01)	773 (3.9)	85.1	C

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)	87.8	C
94 (0.5)	1012 (0.48)	184 (0.9)	86.0	C
196 (1.0)	2110 (1.00)	384 (1.9)	83.9	C
298 (1.5)	3208 (1.51)	583 (3.0)	82.3	C

Test size 1m x 1m (39"x39")core
41-5/8"w x 41-13/16"h Nominal (1.057m x 1.062m)

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	3	3
50	3	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	0.199 and below

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