XP500WD

Wind Driven Rain Louver FEMA P-361 (2015) and ICC 500 (2014) Compliant UL Listed

APPLICATION

The XP500WD has a 5 1/2" deep frame with a double drainable sightproof blade design specifically built to meet the ICC500 (2014) impact requirements for tornado shelters. It is the first louver to provide both FEMA impact protection and Class A wind-driven rain protection. With a unique patented blade design, this louver is one product that does the work of two.

STANDARD CONSTRUCTION

Frame	5 1/2" (140) deep by x 3/16" (4.7) thick extruded aluminum with end caps.
Blades	4.8" (121) 6063T6 extruded aluminum 3/16" (4.7) nominal wall thickness. Double drainable blades are sightproof.
Bird Screen	$5/8" \times .040"$ (16 x 1.) expanded flattened aluminum bird screen in removable frame. Screen adds approximately $1/2"$ (13) to louver depth. Screen required to meet spawlling component to FEMA 361 standards.
Finish	Mill.
Minimum Size	12"w x 12"h (305 x 305)
Approximate Shipping Weight	13 lbs. per sq. ft. (193.5 kg/m²)
Maximum Shipping Section Size	48″w x 96″h (1220 x 2439) or 72″w x 60″h (1829 x 1524)
Maximum Overall Assembly Size	96"h (2439) x Unlimited Wide 72"w (1829) x Unlimited High

FEATURES

- Tested to ICC500 (2014), FEMA Guideline P-361 (2015), FEMA Guideline P-320 (2014)
- Design Pressure +/-300 PSF
- Louver complies with FEMA 361 Design and Construction for Community Shelters, Zone IV criteria, 250 MPH wind, 15 lb. 2 x 4 impact at 100 mph for Tornadoes
- Published performance rating based on testing in accordance with AMCA Publication 511
- > Aluminum construction for low maintenance and high resistance to corrosion
- Louver mounted externally in combination with wall louver or by itself internally (See attached)
- 27% Free Area
- Optional finishes available at additional cost: prime coat and 70% PVDF (modified fluoropolymer), epoxy, Acrodize
- > This product is Listed to applicable UL Standards and Requirements





VARIATIONS

Variations to the basic design of this louver are available at additional cost. They include:

- Optional finishes available at additional cost: Prime coat, 50% and 70% PVDF (modified fluoropolymer), Epoxy, Acrodize
- This product is listed to applicable UL standards and requirements
- Extended sill
- Blank off panels
- Universal sleeve
- Frame caps
- Optional finishes available at additional cost. Please see <u>Paint Finishes and Color Guide</u> and <u>Finish Type Model Chart</u> for more details. Contact louversales@ruskin.com with questions

Consult Ruskin for other special requirements.

NOTES:

- Dimensions in inches, parenthesis () indicate millimeters

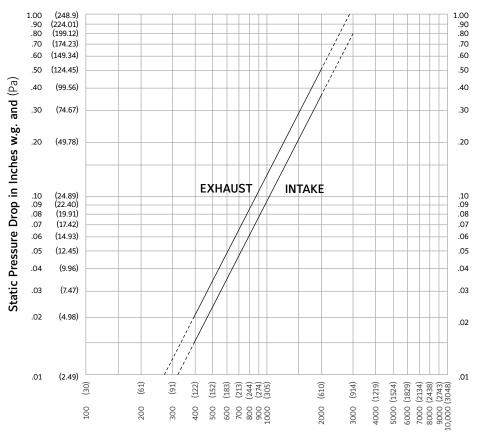
- Units can be furnished actual size or with size deducts.

Free Area Guide shows free area in ft ² and m ² for various sizes of XP500WD	Free A	Area (Guide	shows	free	area	in ft ²	² and	m ²	for	various	sizes	of	XP500WD
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	12	18	24	30	36	42	48	54	60	66	72
	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.65	1.80
12	0.08	017	0.26	0.35	0.44	0.53	0.62	0.71	0.80	0.89	0.99
0.30	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.08	0.09
18	0.17	0.35	0.53	0.71	0.89	1.07	1.25	1.43	1.61	1.79	1.97
0.45	0.02	0.03	0.05	0.07	0.08	0.10	0.12	0.13	0.15	0.17	0.18
24	0.25	0.52	0.79	1.06	1.33	1.60	1.87	2.14	2.41	2.68	2.96
0.60	0.02	0.05	0.07	0.10	0.12	0.15	0.17	0.20	0.22	0.25	0.27
30	0.33	0.69	1.05	1.41	1.77	2.14	2.50	2.86	3.22	3.58	3.94
0.75	0.03	0.06	0.10	0.13	0.17	0.20	0.23	0.27	0.30	0.33	0.37
36	0.41	0.86	1.32	1.77	2.22	2.67	3.12	3.57	4.02	4.47	4.93
0.90	0.04	0.08	0.12	0.16	0.21	0.25	0.29	0.33	0.37	0.42	0.46
42	0.50	1.04	1.58	2.12 0.20	2.66	3.20	3.75	4.29	4.83	5.37	5.91
1.05	0.05	0.10	0.15		0.25	0.30	0.35	0.40	0.45	0.50	0.55
48	0.58	1.21	1.84	2.47	3.11	3.74	4.37	5.00	5.63	6.26	6.90
1.20	0.05	0.11	0.17	0.23	0.29	0.35	0.41	0.47	0.52	0.58	0.64
54	0.66	1.38	2.11	2.83	3.55	4.27	4.99	5.72	6.44	7.16	7.88
1.35	0.06	0.13	0.20	0.26	0.33	0.40	0.46	0.53	0.60	0.67	0.73
60	0.74	1.56	2.37	3.18	3.99	4.81	5.62	6.43	7.24	8.05	8.87
1.50	0.07	0.14	0.22	0.30	0.37	0.45	0.52	0.60	0.67	0.75	0.82
66	0.83	1.73	2.63	3.53	4.44	5.34	6.24	7.14	8.05	8.95	9.85
1.65	0.08	0.16	0.24	0.33	0.41	0.50	0.58	0.66	0.75	0.83	0.92
72	0.91	1.90	2.90	3.89	4.88	5.87	6.87	7.86	8.85	9.84	10.84
1.80	0.08	0.18	0.27	0.36	0.45	0.55	0.64	0.73	0.82	0.92	1.01
78	0.99	2.08	3.16	4.24	5.32	6.41	7.49	8.57	9.66	10.74	11.82
1.95	0.09	0.19	0.29	0.39	0.50	0.60	0.70	0.80	0.90	1.00	1.10
84	1.08	2.25	3.42	4.60	5.77	6.94	8.11	9.29	10.46	11.63	12.81
2.10	0.10	0.21	0.32	0.43	0.54	0.65	0.75	0.86	0.97	1.08	1.19
90	1.16	2.42	3.69	4.95	6.21	7.48	8.74	10.00	11.27	12.53	13.79
2.25	0.11	0.23	0.34	0.46	0.58	0.70	0.81	0.93	1.05	1.17	1.28
96	1.24	2.59	3.95	5.30	6.66	8.01	9.36	10.72	12.07	13.42	14.78
2.40	0.12	0.24	0.37	0.49	0.62	0.74	0.87	1.00	1.12	1.25	1.37
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Width – Inches and Meters

PRESSURE DROP





Ruskin Company certifies that the louver 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 air performance ratings, water penetration ratings and wind driven rain ratings only.

Water penetration Test size 48" w X 48" h (1219×1219) Beginning point of water penetration at .01 oz./sq. ft. is 1250 fpm (381 m/min).

Air Velocity in feet (meters) per minute through Free Area (Data corrected to standard air density and AMCA figure or figures tested to 5.5)

WIND-DRIVEN RAIN PERFORMANCE

Test size is 1M x 1M (39.375" x 39.375") core area, 1.06m x 1.06m (42" x 42") nominal.

Wind Velocity	Rain fall Rate	Core Velocity	Airflow	Free Area Velocity ₂	Effectiveness	Class _{3, 4}	Discharge
mph (kph)	In./hr. (mm/hr.)	fpm (m/s¹)	cfm (m³/min)	fpm (m/s)	Ratio		Loss Class ₅ Intake
29 (46.4)	3 (76)	489 (2.4)	5,263 (149)	1,644 (8.4)	99.8%	А	1

NOTES:

- 1. Core area is the open area of the louver face (face area less louver frames). Core Velocity is the airflow velocity through the Core Area of the louver. 5 m/s is the maximum core velocity utilized in this test.
- 2. Free Area of test size is calculated per AMCA standard 500-L.

3. Wind Driven Rain Penetration Classes:

Class Effectiveness

A	1 to .99
В	0.989 to 0.95
C	0 0 4 0 to 0 90

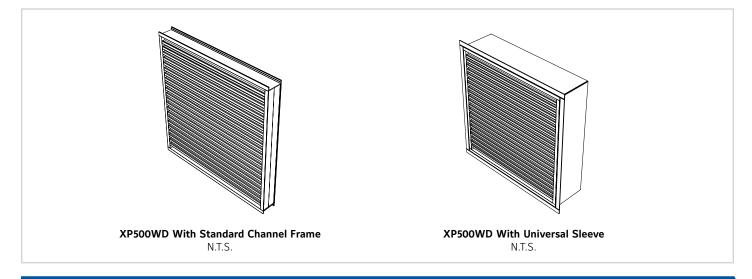
- C 0.949 to 0.80 D Below 0.8
- D Below 0.8

 Discharge Loss Coefficient is calculated by dividing a louvers actual airflow rate vs. a theoretical airflow for the opening. It provides an indication of the louvers' airflow characteristics.

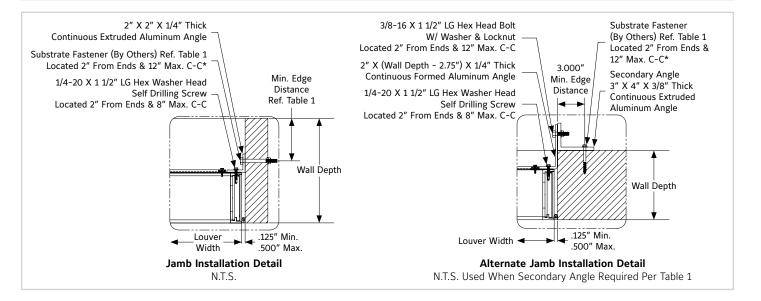
Discharge Loss Classes:

- 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.)

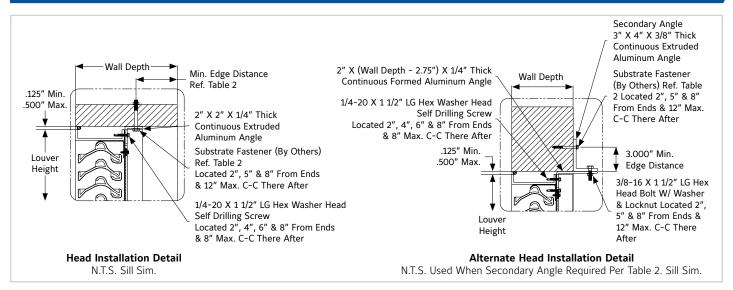
XP500WD INSTALLATION



JAMB ANGLE INSTALLATION



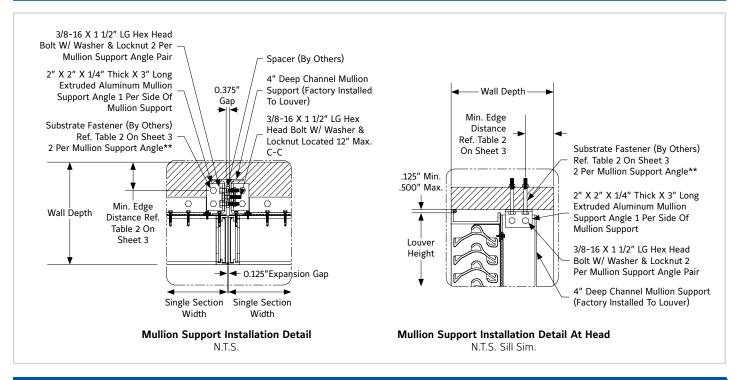
HEAD/SILL ANGLE INSTALLATION



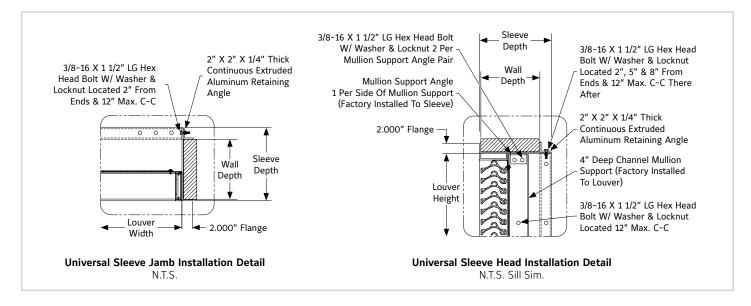
XP500WD-1122/Replaces XP500WD-0521

ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.

HEAD/SILL ANGLE INSTALLATION @ MULLIONS (CONT'D)



UNIVERSAL SLEEVE INSTALLATION



1 LINKS TO IMPORTANT DOCUMENTS

Document Title

Paint Finishes and Color Guide

Limited Warranty Document

RUSKIN[®] AUTHORITY IN AIR CONTROL

3900 Doctor Greaves Road Grandview, MO 64030 Website: www.ruskin.com Phone: (816) 761-7476

XP500WD-1122/Replaces XP500WD-0521