



MODEL VS51T

STANDARD CONSTRUCTION

- **Material:** Extruded Aluminum 6005A-T5
- **Frame:** 5 3/8" (137 mm) Deep, 0.125" (3.2 mm) Wall Thickness
- **Blade:** 5" (127 mm) Deep, 0.125" (3.2 mm) Wall Thickness
- **Blade Spacing:** 1.625" (41 mm) On Center
- **Sill Flashing:** 0.063" (1.6 mm) Formed Aluminum W/ End Dams

OPTIONAL ACCESSORIES

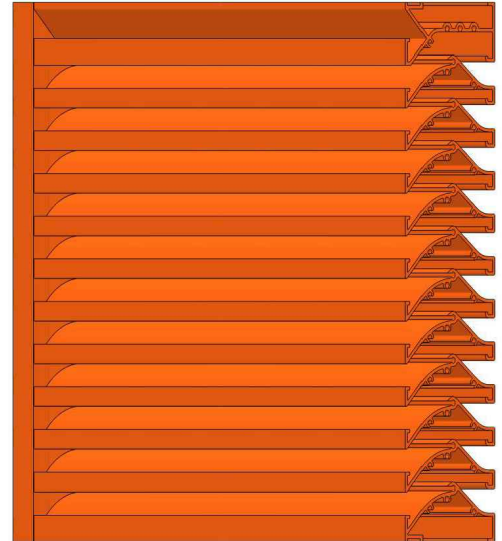
- Bird Screen
- Insect Screen
- Extended Sill Flashing
- Insulated & Non-Insulated Blank Off Panels
- Visible Mullions
- Invisible Mullions for Continuous Blade Appearance

FINISHES

- **2-Coat Fluoropolymer:** Fluropon Pure® 70% PVDF (AAMA 2605)*
- **3-Coat Fluoropolymer:** Fluropon Pure® 70% PVDF (AAMA 2605)*
- **Anodic Finishes:** Class I & Class II, Clear & Bronze Spectrum
- **Prime Coat:** Recommended When Field Painting
 - *Custom Colors Available

SUGGESTED SPECIFICATIONS

- **General:** Furnish and install where indicated on drawings 5 3/8" (137 mm) Storm Performance Louver Model VS51T as manufactured by Industrial Louvers, Inc. Delano, MN. Louvers shall be tested, listed, and labeled in accordance with ICC-500. Testing criteria shall show resistance to impacts corresponding to a design tornado speed of 250 mph, a design tornado pressure of no less than ± 300 psf, and a design wind pressure of no less than ± 150 psf.
- **Material:** Extruded aluminum frames and blades shall be one piece 6005A-T5 alloy, designed to collect and drain water to the exterior at the sill by means of integral gutters in the blades and jamb frames. Frame and blades shall have a material thickness of 0.125" (3.2 mm). Frames and blades shall be joined by stainless steel fasteners.



REV: JANUARY 2025



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PERFORMANCE

- Free Area = 7.28 ft² (45.5%)
 - Beginning of Water Penetration = 1135 fpm / 8262 cfm
 - Intake Airflow @ ΔP of 0.15" Water = 930 fpm / 6770 cfm
 - Exhaust Airflow @ ΔP of 0.15" Water = 1009 fpm / 7345 cfm
- *All Ratings Based on 48" x 48" Test Specimen
 *Ratings Include the Effect of a Sill Pan

STRUCTURAL AND IMPACT TESTING

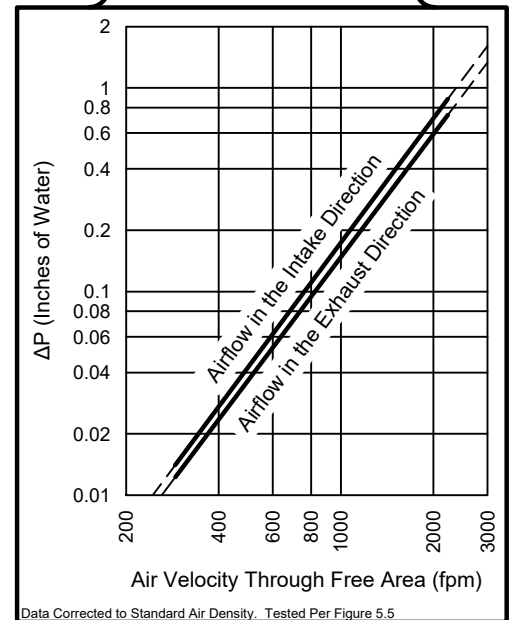
- FEMA P-320 (2021) Compliant
- FEMA P-361 (2021) Compliant
- ICC 500-2023 Compliant
 - Hurricane and Tornado Shelters
 - Impact Rating: 15lb missile, 100 mph velocity
 - Design Tornado Pressure: ±300 psf
 - Design Wind Pressure: ±150 psf

FREE AREA (ft²)

Louver Height	120 in	3.26	8.48	13.48	18.70	-	-
	108 in	2.95	7.67	12.19	16.91	-	-
	96 in	2.60	6.75	10.74	14.89	-	-
	84 in	2.25	5.84	9.28	12.88	-	-
	72 in	1.93	5.03	7.99	11.09	14.05	17.14
	60 in	1.58	4.11	6.54	9.07	11.50	14.03
	48 in	1.27	3.30	5.25	7.28	9.23	11.26
	36 in	0.92	2.39	3.79	5.26	6.67	8.14
	24 in	0.57	1.47	2.34	3.25	4.12	5.02
	12 in	0.25	0.66	1.05	1.46	1.85	2.25
Louver Width	12 in	24 in	36 in	48 in	60 in	72 in	

- Effects of blade stiffeners or additional bracing has not been considered.
- Effects of screen or other accessories has not been considered.
- Contact Industrial Louvers for free area of other sizes.
- 1 in = 25.4 mm
- 10.76 ft² = 1 m²

AIR PERFORMANCE



WIND DRIVEN RAIN

	Ventilation Air Velocity	0.0 m/s	0.5 m/s	1.0 m/s	1.5 m/s	2.0 m/s	2.5 m/s	3.0 m/s	3.5 m/s
Rainfall Rate: 3 in/hr	Core Velocity	14 fpm	97 fpm	193 fpm	293 fpm	395 fpm	486 fpm	588 fpm	687 fpm
Wind Velocity: 29 mph	Effectiveness	99.4%	98.9%	98.0%	97.5%	94.5%	91.2%	88.8%	74.2%
	Penetration Class	A	B	B	B	C	C	C	D
Rainfall Rate: 8 in/hr	Core Velocity	14 fpm	94 fpm	192 fpm	291 fpm	380 fpm	473 fpm	576 fpm	656 fpm
Wind Velocity: 50 mph	Effectiveness	96.6%	94.7%	91.3%	85.3%	77.2%	70.8%	61.7%	54.3%
	Penetration Class	B	C	C	C	D	D	D	D



Industrial Louvers, Inc. certifies that the Model VS51T 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.

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