

5500 Reflections

TESTING DATA

Air, Water, Operating Force and Structural Performance

Type	Size ¹	Reinforcement Code	Air Infiltration ²	Operating Force ³	Water Penetration ⁴	Water	Uniform Load ⁵	Structural	Overall Rating	Report Number
Awning	53 x 26	00	0.08 scfm/ft ²	4 lbf	8.25 psf	R55	± 82.5 psf	R55	AP-R55	80610.01
Awning	60 x 36	00	0.08 scfm/ft ²	4 lbf	7.50 psf	R50	± 75.0 psf	R50	AP-R50	80610.01
Colonial Awning	53 x 26	00	0.08 scfm/ft ²	4 lbf	8.25 psf	R55	± 82.5 psf	R55	AP-R55	80610.01
Colonial Awning	60 x 36	00	0.08 scfm/ft ²	4 lbf	7.50 psf	R50	± 75.0 psf	R50	AP-R50	80610.01
Casement	30 x 65	00	0.01 scfm/ft ²	N/A	8.25 psf	R55	± 82.5 psf	R55	C-R55	83465.01
Casement	36 x 50	00	0.01 scfm/ft ²	10 lbf	8.25 psf	R55	± 82.5 psf	R55	C-R55	83465.01
Casement	36 x 72	00	0.02 scfm/ft ²	10 lbf	8.25 psf	R55	± 60.0 psf	R40	C-R40	73757.01
Casement	36 x 72	00	0.03 scfm/ft ²	7 lbf	8.25 psf	R55	± 82.5 psf	R55	C-R55	94530.01
Casement	36 x 80	00	0.03 scfm/ft ²	7 lbf	7.50 psf	R50	± 75.0 psf	R50	C-R50	94530.01
Casement T-Mull (Triple)*	101 x 63	00	0.09 scfm/ft ²	3 lbf	7.50 psf	R50	± 75.0 psf	R50	C-R50	78261.01
Casement T-Mull (Triple)*	105 x 51	00	0.07 scfm/ft ²	7 lbf	7.50 psf	R50	± 75.0 psf	R50	C-R50	93354.01
Casement T-Mull (Triple)*	107 x 72	00	0.09 scfm/ft ²	5 lbf	6.75 psf	R45	± 67.5 psf	R45	C-R45	89919.01
Colonial Casement	30 x 65	00	0.01 scfm/ft ²	N/A	8.25 psf	R55	± 82.5 psf	R55	C-R55	83465.01
Colonial Casement	36 x 50	00	0.01 scfm/ft ²	10 lbf	8.25 psf	R55	± 82.5 psf	R55	C-R55	83465.01
Colonial Casement	36 x 72	00	0.02 scfm/ft ²	10 lbf	8.25 psf	R55	± 60.0 psf	R40	C-R40	73757.01
Colonial Casement	36 x 72	00	0.03 scfm/ft ²	7 lbf	8.25 psf	R55	± 82.5 psf	R55	C-R55	94530.01
Colonial Casement	36 x 80	00	0.03 scfm/ft ²	7 lbf	7.50 psf	R50	± 75.0 psf	R50	C-R50	94530.01
Colonial Casement T-Mull (Triple)*	101 x 63	00	0.09 scfm/ft ²	3 lbf	7.50 psf	R50	± 75.0 psf	R50	C-R50	78261.01
Colonial Casement T-Mull (Triple)*	105 x 51	00	0.07 scfm/ft ²	7 lbf	7.50 psf	R50	± 75.0 psf	R50	C-R50	93354.01
Colonial Casement T-Mull (Triple)*	107 x 72	00	0.09 scfm/ft ²	5 lbf	6.75 psf	R45	± 67.5 psf	R45	C-R45	89919.01
Double Hung	36 x 63	00	0.17 scfm/ft ²	18 lbf	7.50 psf	R50	± 75.0 psf	R50	H-R50	91634.01
Double Hung	36 x 63	00	0.19 scfm/ft ²	19 lbf	0.00 psf	LC50	± 0.0 psf	LC50	H-LC50	93345.01
Double Hung	36 x 72	A2	0.26 scfm/ft ²	19 lbf	8.25 psf	R55	± 82.5 psf	R55	H-R55	93345.01
Double Hung	36 x 74	A2	0.17 scfm/ft ²	24 lbf	7.50 psf	R50	± 75.0 psf	R50	*H-LC50	88530.01
Double Hung	37 x 76	A9	0.14 scfm/ft ²	29 lbf	9.75 psf	R65	± 97.5 psf	R65	H-R65	95262.01

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Double Hung	37 x 84	A9	0.14 scfm/ft ²	28 lbf	9.00 psf	R60	± 90.0 psf	R60	H-R60	93347.02
Double Hung	42 x 64	E9	0.15 scfm/ft ²	28 lbf	7.50 psf	R50	± 75.0 psf	R50	H-R50	90223.01
Double Hung	47 x 71	A4	0.15 scfm/ft ²	28 lbf	7.50 psf	R50	± 75.0 psf	R50	H-R50	94522.01
Double Hung	48 x 80	00	0.14 scfm/ft ²	18 lbf	3.75 psf	R25	± 37.5 psf	R25	H-R25	91634.01
Double Hung	48 x 80	A2	0.13 scfm/ft ²	21 lbf	5.25 psf	R35	± 52.5 psf	R35	H-R35	95263.01
Double Hung	48 x 80	00	0.13 scfm/ft ²	19 lbf	0.00 psf	LC25	± 0.0 psf	LC25	H-LC25	91631.01
Double Hung	52 x 71	A2	0.15 scfm/ft ²	22 lbf	5.25 psf	R35	± 52.5 psf	R35	H-R35	91631.01
Double Hung	53 x 74	A2	0.13 scfm/ft ²	21 lbf	4.50 psf	R30	± 45.0 psf	R30	H-R30	95263.01
Double Hung	53 x 76	H9	0.13 scfm/ft ²	31 lbf	7.50 psf	R50	± 75.0 psf	R50	H-R50	77147.01
Double Hung	53 x 80	H9	0.17 scfm/ft ²	44 lbf	6.00 psf	R40	± 60.0 psf	R40	H-R40	75188.01
Double Hung	56 x 84	A2	0.15 scfm/ft ²	22 lbf	3.00 psf	R20	± 30.0 psf	R20	H-R20	91631.01
Double Hung	56 x 84	A2	0.11 scfm/ft ²	29 lbf	3.75 psf	R25	± 37.5 psf	R25	H-R25	69881.01
Double Hung (High TL)	37 x 76	A9	0.14 scfm/ft ²	18 lbf	9.75 psf	R65	± 97.5 psf	R65	H-R65	95262.01
Double Hung (High TL)	37 x 76	A9	0.16 scfm/ft ²	29 lbf	9.75 psf	R65	± 97.5 psf	R65	H-R65	69881.01
Double Hung (High TL)	37 x 84	A9	0.14 scfm/ft ²	28 lbf	9.00 psf	R60	± 90.0 psf	R60	*H-R60	93347.01
Double Hung (High TL)	53 x 76	H9	0.13 scfm/ft ²	29 lbf	7.50 psf	R50	± 75.0 psf	R50	H-R50	69879.01
Double Hung (High TL)	53 x 76	H9	0.13 scfm/ft ²	31 lbf	7.50 psf	R50	± 75.0 psf	R50	H-R50	77147.01
Double Hung w/Fixed Top Sash	48 x 96	E3	0.08 scfm/ft ²	26 lbf	3.00 psf	R20	± 30.0 psf	R20	H-R20	72139.01
Garden Door Center Hinge Inswing	72 x 80	00	0.05 scfm/ft ²	N/A	5.25 psf	R35	± 52.5 psf	R35	SHD-R35	87110.01
Garden Door Center Hinge Outswing	72 x 80	00	0.04 scfm/ft ²	N/A	7.50 psf	R50	± 75.0 psf	R50	HGD-R50	87110.01
Garden Door French Hinge Inswing	72 x 80	00	0.07 scfm/ft ²	N/A	4.50 psf	R30	± 45.0 psf	R30	SHD-R30	87110.01
Garden Door French Hinge Outswing	72 x 80	00	0.05 scfm/ft ²	N/A	5.25 psf	R35	± 52.5 psf	R35	HGD-R35	91640.01
Hopper	48 x 32	00	0.05 scfm/ft ²	4 lbf	3.75 psf	R25	± 37.5 psf	R25	AP-R25	89308.01
Picture Casement	74 x 63	00	0.01 scfm/ft ²	N/A	8.25 psf	R55	± 82.5 psf	R55	F-R55	93346.01
Picture Casement	80 x 63	00	0.01 scfm/ft ²	N/A	8.25 psf	R55	± 82.5 psf	R55	F-R55	95259.01

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Picture Casement	96 x 72	00	0.01 scfm/ft ²	N/A	3.75 psf	R25	± 37.5 psf	R25	F-R25	93346.01
Picture Casement	96 x 72	00	0.01 scfm/ft ²	N/A	6.00 psf	R40	± 60.0 psf	R40	F-R40	95259.01
Door Picture Window	36 x 80	00	0.02 scfm/ft ²	N/A	7.50 psf	R50	± 75.0 psf	R50	F-R50	99638.01
Door Picture Window	36 x 80	00	0.03 scfm/ft ²	N/A	7.50 psf	R50	± 75.0 psf	R50	SLT-R50	61460.01
Door Picture Window	36 x 96	00	0.01 scfm/ft ²	N/A	7.50 psf	R50	± 75.0 psf	R50	F-R50	99638.01
Door Picture Window	36 x 96	00	0.01 scfm/ft ²	N/A	7.50 psf	R50	± 75.0 psf	R50	SLT-R50	61460.01
Door Picture Window	48 x 96	00	0.01 scfm/ft ²	N/A	7.50 psf	R50	± 60.0 psf	R40	F-R40	73113.01
Patio Door	107.25 x 79.25	A9	0.16 scfm/ft ²	22 lbf	7.50 psf	R50	± 75.0 psf	R50	SD-R50	88706.01
Patio Door	107.25 x 95.25	A9	0.22 scfm/ft ²	27 lbf	5.25 psf	R35	± 52.5 psf	R35	SGD-R35	65469.01
Patio Door	107.25 x 95.25	A9	0.14 scfm/ft ²	14 lbf	5.25 psf	R35	± 52.5 psf	R35	SGD-R35	A0849.01
Patio Door	107.25 x 95.25	A9	0.13 scfm/ft ²	20 lbf	7.50 psf	R50	± 75.0 psf	R50	SGD-R50	87116.01
Patio Door	143.25 x 79.25	A9	0.16 scfm/ft ²	18 lbf	5.25 psf	R35	± 52.5 psf	R35	SGD-R35	98377.01
Patio Door	143.25 x 79.25	A9	0.10 scfm/ft ²	22 lbf	7.50 psf	R50	± 75.0 psf	R50	SGD-R50	87809.01
Patio Door	144 x 96	A9	0.10 scfm/ft ²	17 lbf	7.50 psf	R50	± 75.0 psf	R50	SGD-R50	91632.01
Patio Door	77.25 x 96	A9	0.15 scfm/ft ²	30 lbf	5.25 psf	R35	± 52.5 psf	R35	SGD-R35	68915.01
Patio Door	77.25 x 96	A9	0.14 scfm/ft ²	8 lbf	5.25 psf	R35	± 52.5 psf	R35	SGD-R35	A2053.01
Patio Door	96 x 80	A9	0.12 scfm/ft ²	11 lbf	7.50 psf	R50	± 75.0 psf	R50	SD-R50	96045.01
Picture Window	37 x 84	00	0.01 scfm/ft ²	N/A	7.50 psf	R50	± 75.0 psf	R50	F-R50	67104.02
Picture Window	63 x 63	00	0.01 scfm/ft ²	N/A	0.00 psf	LC50	± 0.0 psf	LC50	FW-LC50	95258.01
Picture Window	72 x 60	00	0.01 scfm/ft ²	N/A	8.25 psf	R55	± 82.5 psf	R55	FW-R55	86428.01
Picture Window	72 x 63	00	0.01 scfm/ft ²	N/A	9.00 psf	R60	± 90.0 psf	R60	FW-LC60	95258.01
Picture Window	74 x 63	00	0.01 scfm/ft ²	N/A	8.25 psf	R55	± 82.5 psf	R55	FW-R55	89311.01
Picture Window	74 x 63	00	0.01 scfm/ft ²	N/A	9.75 psf	R65	± 97.5 psf	R65	F-R55	81187.03
Picture Window	96 x 72	00	0.01 scfm/ft ²	N/A	0.00 psf	LC45	± 0.0 psf	LC45	FW-LC45	95258.01
End Vent	100 x 48	A2	0.21 scfm/ft ²	13 lbf	6.75 psf	R45	± 67.5 psf	R45	HS-R45	97386.01

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End Vent	100 x 48	A2	0.13 scfm/ft ²	15 lbf	6.75 psf	R45	± 67.5 psf	R45	HS-R45	94526.01
End Vent	100 x 63	00	0.21 scfm/ft ²	13 lbf	6.75 psf	R45	± 30.0 psf	R20	HS-R20	97386.01
End Vent	100 x 63	00	0.09 scfm/ft ²	15 lbf	3.00 psf	R20	± 30.0 psf	R20	HS-R20	94526.01
End Vent	105 x 51	A2	0.13 scfm/ft ²	10 lbf	6.75 psf	R45	± 67.5 psf	R45	HS-R45	91633.01
End Vent	110 x 63	H2	0.15 scfm/ft ²	8 lbf	6.00 psf	R40	± 60.0 psf	R40	HS-R40	98374.01
End Vent	120 x 72	A2	0.11 scfm/ft ²	15 lbf	3.00 psf	R20	± 30.0 psf	R20	HS-R20	93356.01
End Vent	120 x 72	A2	0.14 scfm/ft ²	18 lbf	2.86 psf	R15	± 22.5 psf	R15	HS-R15	97387.01
End Vent	131 x 65	E2	0.14 scfm/ft ²	26 lbf	3.00 psf	R20	± 30.0 psf	R20	HS-R20	89915.01
End Vent	136 x 60	E2	0.14 scfm/ft ²	10 lbf	3.75 psf	R25	± 37.5 psf	R25	HS-R25	91633.01
End Vent	136 x 63	A2	0.10 scfm/ft ²	22 lbf	3.75 psf	R25	± 37.5 psf	R25	HS-R25	96029.01
End Vent	136 x 63	A2	0.17 scfm/ft ²	20 lbf	3.75 psf	R25	± 37.5 psf	R25	HS-R25	97385.01
End Vent	148 x 48	E2	0.13 scfm/ft ²	10 lbf	4.50 psf	R30	± 45.0 psf	R30	HS-R30	91633.01
End Vent	84 x 48	A2	0.10 scfm/ft ²	15 lbf	8.25 psf	R55	± 82.5 psf	R55	HS-R55	94526.01
End Vent	84 x 48	A2	0.21 scfm/ft ²	13 lbf	8.25 psf	R55	± 82.5 psf	R55	HS-R55	97386.01
End Vent	84 x 63	A2	0.21 scfm/ft ²	13 lbf	4.50 psf	R30	± 45.0 psf	R30	HS-R30	97386.01
End Vent	84 x 63	A2	0.09 scfm/ft ²	15 lbf	4.50 psf	R30	± 45.0 psf	R30	HS-R30	94526.01
Slider	63 x 48	A2	0.15 scfm/ft ²	11 lbf	8.25 psf	R55	± 82.5 psf	R55	HS-R55	97384.01
Slider	63 x 48	A2	0.09 scfm/ft ²	12 lbf	8.25 psf	R55	± 82.5 psf	R55	HS-R55	93355.01
Slider	72 x 48	A2	0.15 scfm/ft ²	11 lbf	6.75 psf	R45	± 67.5 psf	R45	HS-R45	97384.01
Slider	72 x 63	00	0.15 scfm/ft ²	11 lbf	3.00 psf	R20	± 30.0 psf	R20	HS-R20	97384.01
Slider	72 x 63	00	0.07 scfm/ft ²	15 lbf	3.00 psf	R20	± 30.0 psf	R20	HS-R20	94524.01
Slider	73 x 51	A2	0.11 scfm/ft ²	15 lbf	7.50 psf	R50	± 75.0 psf	R50	HS-R50	96298.01
Slider	73 x 62	E9	0.12 scfm/ft ²	27 lbf	7.50 psf	R50	± 75.0 psf	R50	R50	77971.01
Slider	78 x 63	A2	0.09 scfm/ft ²	12 lbf	3.75 psf	R25	± 37.5 psf	R25	HS-R25	93355.01
Slider	78 x 63	A2	0.15 scfm/ft ²	11 lbf	3.75 psf	R25	± 37.5 psf	R25	HS-R25	97384.01

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Slider	78 x 72	A2	0.09 scfm/ft ²	13 lbf	3.00 psf	R20	± 30.0 psf	R20	HS-R20	92201.01
Slider	78 x 72	A2	0.05 scfm/ft ²	11 lbf	8.25 psf	R55	± 30.0 psf	R20	HS-R20	97384.01
Slider	96 x 65	A2	0.12 scfm/ft ²	11 lbf	3.00 psf	R20	± 30.0 psf	R20	HS-R20	97384.01

* Please note that the Casement T-Mulls were tested as triples. Currently the only T-Mull available is a twin, with an individual unit width of 36".

TEST REPORTS ARE AVAILABLE UPON REQUEST

All units tested in accordance with AAMA/NWDA 101/I.S.2-97, and include a welded corner test, for which all units either met or exceeded the standards, and a deglazing test, for which all units either met or exceeded the standards.

1) Sizes are certified up to and including the sizes listed.

2) Air infiltration is based upon static pressure of 1.57 psf (25 mph). Air infiltration shall not exceed 0.3 standard cubic feet per minute (scfm) per square foot.

3) Operating force listed is an average of the forces required to open and close the unit. The maximum allowable pound force is 30 lbf for vertical sliders and 20 lbf for horizontal sliders.

4) The minimum water resistance is 2.86 psf for an entry level R15 water rating, 3.75 psf for an entry level LC25 water rating, and 4.50 psf for an entry level C30 water rating.

5) The minimum structural test pressure is 22.5 psf for an entry level R15 structural rating, 37.5 psf for an entry level LC25 structural rating, and 45.0 psf for an entry level C30 structural rating

NOTES:

SPECIAL MANUFACTURING REQUIREMENTS (FOR EXAMPLE: REINFORCEMENT STRENGTH, GLASS STRENGTH, ETC.) MAY BE NECESSARY TO MEET THE DESIGN PRESSURE LISTED. PLEASE SPECIFY DESIGN PRESSURE REQUIRED WHERE APPLICABLE.

PLEASE CONSULT YOUR SIMONTON REPRESENTATIVE FOR AVAILABILITY OF SIZES. FACTORS SUCH AS HARDWARE RELIABILITY, SHIPPING, CONSISTENCY IN OPERATING FORCE AND SECURING THE UNIT PROPERLY MAY LIMIT THE UNIT SIZE