



### Air, Water, and Structural Performance

Our windows are tested and certified to AAMA/WDMA/CSA 101/I.S.2/A440 Industry Standard. Product certification rating can be viewed by going to NAMI web site, and entering the appropriate information under structural performance certification search.

Performance Category	Single Hung	Single Hung W/Performance Upgrade	Double Hung	Double Hung W/Performance Upgrade	Two-Section Lift-out (XX) Slider	Three-Section Lift-out (XOX) Slider (3/3/3 & Q/H/Q)	Two-Section Tilt-in (OX) Slider	Two-Section Tilt-in (XX) Slider	Three-Section Tilt-in (XOX) Slider (QH/Q/333)	Standard Picture	Casement	Casement Picture	Awning	Hopper	Sliding Door (OX)	Sliding Door (OXO)
CAR Number	NI014837.02	NI014837	NI014731-R1	NI014731.04-R1	NI014742.03-R1	NI014742.07-R1 & .10-R1	Pending	Pending	Pending	NI014615-R1	NI014698.03	NI014561.02-R1	NI014618.06	n/a	Pending	Pending
FPA Listing #	FL-26906.10	FL-26906.10	FL-26910.9	FL-26910.9	FL-26909.15	FL-26909.23 & 19	n/a	n/a	n/a	FL-26908.10	FL-26907.10	FL-26908.14	FL29649.5	n/a	Pending	Pending
DWG/TDI Submittal/WIN #	5078/9031	5078/9031	Pending	Pending	5023/8762	5055/5056/8762	n/a	n/a	n/a	Pending	5031/8815	Pending	5027/8811	n/a	Pending	Pending
Unit Size Tested (inches)	40" x 63"	40" x 63"	40" x 63"	40" x 63"	63" x 40"	81" x 45"	65" x 45"	65" x 45"	99" x 45"	59" x 63"	32" x 60"	59" x 63"	48" x 32"		70.875" x 79.5"	107.438" x 79.5"
Performance Grade (PG)	PG 25	PG 45	PG 20	PG 40	PG40	PG40	PG20	PG20	PG15 - PG20	PG 75	PG 50	PG 50	PG55		PG30	PG30
Air Infiltration (cfm/sq.ft.)	0.07	0.07	0.06	0.06	0.01	0.05	0.20	0.16	0.21 / .21	0.00	0.04	0.01	0.05		0.07	0.13
Water Resistance (psf)	3.75	6.75	3.00	6.00	6.00	6.00	3.00	3.00	3.00	15.00	11.25	15	9.00		4.5	4.5
Design Pressure (DP) - (psf)	+25/-45	+/-45	+20/-45	+40/-45	+40/-45	+40/-45	+20/-25	+20/-25	+/-15 / +20/-30	+75/-85	+/-50	+50/-60	+/-55		+45/-50	+40/-45
Structural Test Pressure (psf)	+37.5/-67.5	+/-67.5	+30/-67.5	+60/-67.5	+60/-67.5	+60/-67.5	+30/-37.5	+30/-37.5	+/-22.5 / +30/-45	+112.5/-127.5	+/-75	+75/-90	+82.5/-82.5		+67.5/-75	+60/-67.5
Forced Entry Resistance (Grade)	10	10	10	10	10	10	10	10	10	10	10	10	10		10	10
CAR Number	NI014837.03	NI014837.01	NI014731-R1	NI014731-R1	NI014742	NI014742.08 & .05-R1	Pending	Pending	Pending	NI014615.01-R1	NI014698.03	NI014561.01-R1	NI014618.02	NI014618.10	Pending	Pending
FPA Listing #	FL-26906.10	FL-26906.10	FL-26910.9	FL-26910.9	FL-26909.15	FL-26909.23 & 19	n/a	n/a	n/a	FL-26908.10	FL-26907.10	FL-26908.14	FL29649.5	n/a	Pending	Pending
DWG/TDI Submittal/WIN #	5078/9031	5078/9031	Pending	Pending	5023/8762	5055/5056/8762	n/a	n/a	n/a	Pending	5031/8815	Pending	5027/8811	n/a	Pending	Pending
Unit Size Tested (inches)	52.75" x 82.75"	52.75" x 82.75"	52.75" x 82.75"	52.75" x 82.75"	93" x 73"	108" x 65"	72" x 67"	72" x 67"	120" x 67"	72" x 90"	36" x 80"	107" x 65"	60" x 44"	50" x 32"	101" x 96"	144" x 96"
Performance Grade (PG)	PG 25	PG 25	PG 20	PG 20	PG15	PG15	PG15	PG15	PG15	PG 45	PG 40	PG 70	PG30	PG30	PG 20	PG15
Air Infiltration (cfm/sq.ft.)	0.07	0.07	0.06	0.06	0.01	0.05	0.14	0.29	0.21 / 0.14	0.00	0.04	0.01	0.05	0.11	0.07	0.13
Water Resistance (psf)	3.75	3.75	3.00	6.00	6.00	6.00	2.25	2.25	3.00 / 2.25	15.00	11.25	15.00	9.00	4.50	4.5	4.5
Design Pressure (DP) - (psf)	+25/-35	+25/-35	+20/-30	+20/-30	+15/-20	+15/-15	+15/-25	+15/-25	+/-15 / +15/-20	+/-45	+/-40	+70/-75	+/-30	+/-30	+20/-20	+15/-15
Structural Test Pressure (psf)	+37.5/-52.5	+37.5/-52.5	+30/-45	+30/-45	+22.5/-30	+22.5/-22.5	+22.5/-37.5	+22.5/-37.5	+/-22.5 / +22.5/-30	+/-67.5	+/-60	+105/-112.5	+45/-45	+45/-45	+30/-30	+22.5/-22.5
Forced Entry Resistance (Grade)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Alternative Unit Size Tested (inches)	49" X 93"	49" X 93"	40" x 71"	40" x 71"	72" x 56"	96" x 56"					36" x 72"	72" x 90"			94 7/8" x 79.5"	
Performance Grade (PG)	PG 25	PG 25	PG 20	PG 45	PG 30	PG 30					PG 45	PG 65			PG30	
Design Pressure (DP) - (psf)	+25/-35	+25/-35	+20/-50	+45/-50	+30/-35	+30/-30					+/-45	+65/-75			+30/-30	
Structural Test Pressure (psf)	+37.5/-52.5	+37.5/-52.5	+20/-75	+67.5/-75	+45/-52.5	+45/-45					+/-67.5	+97.5/-112.5			+45/-45	
Alternative Unit Size Tested (inches)			48" x 72"								24" x 61"					
Air Infiltration (cfm/sq.ft.)			0.02								0.01					



cfm = cubic feet per minute  
 sq.ft. = square feet  
 psf = pounds per square foot

CAR = Certification Authorization Report  
 FPA = Florida Product Approval Listing #  
 TDI = Texas Department of Insurance

