

PERFORMANCE STANDARDS

The Window and Door Manufacturers Association (WDMA), the American Architectural Manufacturers Association (AAMA) and the Canadian Standards Association (CSA) jointly release the North American Fenestration Standard/Specification for Windows, Doors and Skylights (NAFS-11) where "-11" refers to the most recent publication year of 2011. NAFS is also referred to as AAMA/WDMA/CSA 101/I.S.2/A440, which is how the International Code Council (ICC) lists this standard in the 2012, 2015 and 2018 International Residential Code (IRC) and International Building Code (IBC) as the means to indicate the window, door or skylights design pressure rating used to determine compliance to the job site design pressure requirements.

A product only achieves a "Performance Grade" or "PG" rating when it complies with all of the NAFS performance requirements such as ease of operation, air infiltration resistance, resistance to water penetration and resistance to forced entry, etc. A "Design Pressure Rating" or "DP" rating only depicts the design and structural load performance.

Performance Classes

The NAFS Standard/Specification defines requirements for four performance classes. Performance classes are designated R, LC, CW and AW. This classification system provides for several levels of performance. Product selection is always based on the performance and building code requirements of the particular project.

Elements of Performance Grade (PG) Designations

In order to qualify for a given performance grade (PG), test specimens need to pass all required performance tests for the following, in addition to all required auxiliary (durability) and applicable material/component tests (not shown here) for the applicable product type and desired performance class:

(a) **Operating force (if applicable):** Maximum operating force varies by product type and performance class.

(b) Air leakage resistance: Tested in accordance with ASTM E283 at a test pressure of 1.57 psf. Allowable air infiltration for R, LC and CW class designations is 0.3 cubic feet per minute per square foot of frame (cfm/ft²).

(c) Water penetration resistance: Tested in accordance with ASTM E547 with the specified test pressure applied per NAFS-11. Test consists of four cycles. Each cycle consists of five minutes with pressure applied and one minute with the pressure released, during which the water spray is continuously applied. Water spray shall be uniformly applied at a constant rate of 5 U.S. gal/ft² · hr.
(d) Uniform load deflection test: Tested in accordance with ASTM E330 for both positive and negative pressure (pressure defined by NAFS-11) with the load maintained for a period of 10 seconds. The test specimen shall be evaluated for deflection during each load for permanent damage after each load and for any effects on the normal operation of the specimen. Starting with the 2008 version of NAFS, design pressure (DP) will only represent the "uniform load deflection test."

(e) Uniform load structural test: Tested in accordance with ASTM E330 for both positive and negative pressure (pressure defined by NAFS-11) with the load maintained for a period of 10 seconds. After loads are removed, there shall be no permanent deformation in excess of 0.4% of its span and no damage to the unit, which would make it inoperable.

(f) Forced-entry resistance (if applicable): Tested in accordance with ASTM F588 (windows), F476 (swinging doors) and F842 (sliding doors) at a performance level 10 rating.

Performance Grades (PG) and Corresponding Test Pressures (psf)

Performance Class/ Performance Grade		Air Infiltration Test Pressure		Maximum Allowable Air Infiltration/ Exfiltration Rate		Water Penetration Resistance Test Pressure		Design Pressure		Structural Test Pressure	
R	LC	Pa	psf	L/s·m ²	cfm/ft ²	Pa	psf	Pa	psf	Pa	psf
15	-	75	1.57	1.5	0.30	140	2.92	720	15.04	1080	22.56
20	-	75	1.57	1.5	0.30	150	3.13	960	20.05	1440	30.08
25	25	75	1.57	1.5	0.30	180	3.76	1200	25.06	1800	37.59
30	30	75	1.57	1.5	0.30	220	4.59	1440	30.08	2160	45.11
35	35	75	1.57	1.5	0.30	260	5.43	1680	35.09	2520	52.63
40	40	75	1.57	1.5	0.30	290	6.06	1920	40.10	2880	60.15
45	45	75	1.57	1.5	0.30	330	6.89	2160	45.11	3240	67.67
50	50	75	1.57	1.5	0.30	360	7.52	2400	50.13	3600	75.19
55	55	75	1.57	1.5	0.30	400	8.35	2640	55.14	3960	82.71
60	60	75	1.57	1.5	0.30	440	9.19	2880	60.15	4320	90.23
65	65	75	1.57	1.5	0.30	470	9.82	3120	65.16	4680	97.74
70	70	75	1.57	1.5	0.30	510	10.65	3360	70.18	5040	105.26
75	75	75	1.57	1.5	0.30	540	11.28	3600	75.19	5400	112.78
80	80	75	1.57	1.5	0.30	580	12.11	3840	80.20	5760	120.30
85	85	75	1.57	1.5	0.30	620	12.94	4080	85.21	6120	127.82
90	90	75	1.57	1.5	0.30	660	13.78	4320	90.23	6480	135.34
95	95	75	1.57	1.5	0.30	682	14.25	4560	95.24	6840	142.86
100	100	75	1.57	1.5	0.30	718	15.00	4800	100.25	7200	150.38

HALLMARK CERTIFICATION

The Window and Door Manufacturers Association (WDMA)-sponsored Hallmark Certification Program provides manufacturers with certification to the AAMA/WDMA/CSA 101/I.S.2/A440-11 Standard and is designed to provide builders, architects, specifiers and consumers with an easily recognizable means of identifying products that have been manufactured and tested in accordance with NAFS (AAMA/WDMA/CSA 101/I.S.2/A440) industry standards and other applicable performance standards. Conformance is determined by periodic in-plant inspections by a third-party administrator. Inspections include auditing licensee quality control procedures and processes, and a review to confirm products are manufactured in accordance with the appropriate performance standards. Periodic testing of representative product constructions and components by an independent testing laboratory is also required. When all of the program requirements are met, the licensee is authorized to use the WDMA Hallmark registered logo on their certification label as a means of identifying products and their performance ratings.

Products successfully obtaining Hallmark Certification will be labeled with a three-part code, which includes performance class, performance grade and size tested. In addition to this mandatory requirement, you are allowed to list the design pressure on a separate line.

WINDOW & DOOR WANUFACTURERS ASSOCIATION WDDMA Hallmark Certified www.wdma.com	Andersen Corporation A-SERIES CASEMENT WINDOW Manufacturer stipulates certification as indicated below.			
STANDARD	RATING			
AAMA/WDMA/CSA 101/I.S.2/A440-11	CLASS LC ⁽¹⁾ – PG50 ⁽²⁾ – SIZE TESTED 35.3 x 71.3 in. ⁽³⁾ DP+50/-50 ⁽⁴⁾			
AAMA/WDMA/CSA 101/I.S.2/A440-08	CLASS LC^{(1)} – PG50^{(2)} – SIZE TESTED 35.3 x 71.3 in.^{(3)} DP+50/-50^{(4)}			

- (1) Performance Class
- (2) Performance Grade
- (3) Size Tested
- (4) Design Pressure

In the example above, the performance class is LC, the performance grade (PG) is 50 pounds per square foot (psf) and the size tested is 35.3" x 71.3". What this means to the specifier is, based on the performance grade chart, the laboratory-tested air infiltration was less than 0.3 cfm/ft² (test pressure is always 1.57 psf and the allowable airflow is 0.3 cfm/ft²), the product tested successfully resisted a laboratory water penetration test at a test pressure of 7.5 psf, the product tested successfully withstood a laboratory positive test pressure of 75 psf and a laboratory negative test pressure of 75 psf, and the product tested passed the laboratory requirements for operational force and forced-entry resistance. Based on this test, all products of the same design that are smaller than the tested size can be labeled with this product performance rating.

IMPORTANT

Building codes prescribe design pressure based on a variety of criteria (i.e., windspeed zone, building height, building type, job site exposure, etc.). Design pressures derived from Performance Grade (PG) test requirements should be used to determine compliance to building code required design pressures. <u>Structural test pressures</u>, which are tested at <u>1.5 times the design pressure</u>, should **not** be used for determining design pressure code compliance. In the example above, a PG 50 performance grade rating, which passes a 50 psf design pressure, should be used for determining code compliance, not the structural test pressure of 75 psf.

If you need further details about how Andersen* products perform to this standard, contact your Andersen supplier.

If you need further information about the AAMA/WDMA/CSA 101/I.S.2/A440-11 standard or the Hallmark Certification Program, please contact: WDMA, 2001 K Street NW, 3rd Floor North, Washington, D.C. 20006. Phone: 202-367-1157. Website: **wdma.com**

Where designated, Andersen products are tested, certified and labeled to the requirements of the Hallmark Certification Program. Actual performance may vary based on variations in manufacturing, shipping, installation, environmental conditions and conditions of use.



Performance Grade and Air Infiltration - A-Series Windows and Patio Doors

For current performance information, please visit **andersenwindows.com**.

Andersen [®] Product	Glass Construction	AAMA/WDMA/CSA 101/I.S.2/A440 Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	Air Infiltration CFM/FT ²		
Casement Windows						
Casement (venting/stationary)	Dual-Pane	Class LC-PG50 Size Tested 47" x 95"	50/50	< 0.2		
Casement, PG Upgrade (venting/stationary)	Dual-Pane	Class LC-PG70 Size Tested 35" x 95"	70/70	< 0.2		
Casement, PG Upgrade (stationary)	Dual-Pane	Class LC-PG70 Size Tested 47" x 47"	70/70	< 0.2		
Casement, PG Upgrade (stationary)	Dual-Pane	Class LC-PG60 Size Tested 47" x 95"	60/60	< 0.2		
Casement, PG Upgrade (venting)	Dual-Pane	Class LC-PG60 Size Tested 47" x 46"	60/60	< 0.2		
Casement, PG Upgrade (venting)	Dual-Pane	Class LC-PG70 Size Tested 47" x 47"	70/70	< 0.2		
Casement, PG Upgrade (venting)	Dual-Pane	Class LC-PG60 Size Tested 39" x 95"	60/60	< 0.2		
Casement, PG Upgrade (venting)	Dual-Pane	Class LC-PG60 Size Tested 41" x 71"	60/60	< 0.2		
Awning Windows						
Awning (venting/stationary)	Dual-Pane	Class LC-PG50 Size Tested 71" x 47"	50/50	< 0.2		
Awning, PG Upgrade (stationary)	Dual-Pane	Class LC-PG70 Size Tested 71" x 47"	70/70	< 0.2		
Awning, PG Upgrade (venting)	Dual-Pane	Class LC-PG70 Size Tested 47" x 47"	70/70	< 0.2		
Awning, PG Upgrade (venting)	Dual-Pane	Class LC-PG60 Size Tested 59" x 47"	60/60	< 0.2		
Awning, PG Upgrade (venting)	Dual-Pane	Class LC-PG60 Size Tested 71" x 31"	60/60	< 0.2		
Double-Hung Windows						
Double-Hung	Dual-Pane	Class LC-PG50 Size Tested 47" x 95"	50/50	< 0.2		
Double-Hung, PG Upgrade	Dual-Pane	Class LC-PG70 Size Tested 47" x 95"	70/70	< 0.2		
Picture Windows						
Picture	Dual-Pane	Class LC-PG50 Size Tested 71" x 95"	50/50	< 0.2		
Picture, PG Upgrade	Dual-Pane	Class LC-PG70 Size Tested 71" x 95"	70/70	< 0.2		
Transom Windows						
Fixed Transom	Dual-Pane	Class LC-PG50 Size Tested 71" x 95"	50/50	< 0.2		
Fixed Transom, PG Upgrade	Dual-Pane	Class LC-PG70 Size Tested 71" x 95"	70/70	< 0.2		
Venting Transom	Dual-Pane	Class LC-PG50 Size Tested 71" x 31"	50/50	< 0.2		
Venting Transom, PG Upgrade (stationary)	Dual-Pane	Class LC-PG70 Size Tested 71" x 31"	70/70	< 0.2		
Venting Transom, PG Upgrade (venting)	Dual-Pane	Class LC-PG70 Size Tested 59" x 31"	70/70	< 0.2		
Venting Transom, PG Upgrade (venting)	Dual-Pane	Class LC-PG60 Size Tested 71" x 31"	60/60	< 0.2		
Direct-Set Specialty Windows						
Rectangle	Dual-Pane	Class LC-PG50 Size Tested 125" x 84"	50/50	< 0.2		
Rectangle, PG Upgrade	Dual-Pane	Class LC-PG70 Size Tested 125" x 84"	70/70	< 0.2		
Arch	Dual-Pane	Class LC-PG50 Size Tested 125" x 84"	50/50	< 0.2		
Arch, PG Upgrade	Dual-Pane	Class LC-PG70 Size Tested 125" x 84"	70/70	< 0.2		
Springline™	Dual-Pane	Class LC-PG50 Size Tested 84" x 125"	50/50	< 0.2		
Springline, PG Upgrade	Dual-Pane	Class LC-PG70 Size Tested 84" x 125"	70/70	< 0.2		
Sash-Set Specialty Windows						
Rectangular	Dual-Pane	Class LC-PG50 Size Tested 125" x 75"	50/50	< 0.2		
Rectangular, PG Upgrade	Dual-Pane	Class LC-PG70 Size Tested 125" x 75"	70/70	< 0.2		
Arch	Dual-Pane	Class LC-PG50 Size Tested 125" x 75"	50/50	< 0.2		
Arch, PG Upgrade	Dual-Pane	Class LC-PG70 Size Tested 125" x 75"	70/70	< 0.2		
Springline™	Dual-Pane	Class LC-PG50 Size Tested 75" x 125"	50/50	< 0.2		
Springline, PG Upgrade	Dual-Pane	Class LC-PG70 Size Tested 75" x 125"	70/70	< 0.2		
Complementary Casement Windows						
Casement (venting)	Dual-Pane	Class LC-PG50 Size Tested 35" x 84"	50/50	< 0.2		
Casement (stationary)	Dual-Pane	Class LC-PG60 Size Tested 120" x 78"	60/60	< 0.2		
French Casement (venting)	Dual-Pane	Class LC-PG30 Size Tested 56" x 72"	30/30	< 0.2		

For sound transmission ratings, see page 5.

"Performance Grade (PG)" ratings may vary from tested performance rating for larger or smaller units of a particular type.
This data is accurate as of November 2022. Due to ongoing product changes, updated test results, or new industry standards, this data may change over time.
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Contact your Andersen supplier for more information.

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Performance Grade and Air Infiltration - A-Series Windows and Patio Doors (continued) For current performance information, please visit andersenwindows.com.

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Andersen [®] Product	Construction	Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	CFM/FT ²		
Gliding Patio Doors						
Single Stationary (611, 80, 100)	Dual-Pane	Class LC-PG45 Size Tested 50" x 119"	45/45	< 0.2		
Single Stationary, PG Upgrade (611, 80)	Dual-Pane	Class LC-PG65 Size Tested 50" x 95"	65/80	< 0.2		
Single Stationary, PG Upgrade (100)	Dual-Pane	Class LC-PG55 Size Tested 50" x 119"	55/55	< 0.2		
Two-Panel (611, 80)	Dual-Pane	Class LC-PG50 Size Tested 95" x 95"	50/50	< 0.2		
Two-Panel (100)	Dual-Pane	Class LC-PG45 Size Tested 95" x 119"	45/45	< 0.2		
Two-Panel, PG Upgrade (611)	Dual-Pane	Class LC-PG70 Size Tested 95" x 82"	70/80	< 0.2		
Two-Panel, PG Upgrade (80)	Dual-Pane	Class LC-PG70 Size Tested 95" x 95"	70/70	< 0.2		
Two-Panel, PG Upgrade (100)	Dual-Pane	Class LC-PG55 Size Tested 95" x 119"	55/55	< 0.2		
Three-Panel (611)	Dual-Pane	Class LC-PG50 Size Tested 141" x 82"	50/50	< 0.2		
Three-Panel (80, 100)	Dual-Pane	Class LC-PG40 Size Tested 141" x 119"	40/40	< 0.2		
Three-Panel, PG Upgrade (611)	Dual-Pane	Class LC-PG65 Size Tested 141" x 82"	65/70	< 0.2		
Three-Panel, PG Upgrade (80, 100)	Dual-Pane	Class LC-PG50 Size Tested 141" x 119"	50/50	< 0.2		
Four-Panel (611)	Dual-Pane	Class LC-PG50 Size Tested 189" x 82"	50/50	< 0.2		
Four-Panel (80, 100)	Dual-Pane	Class LC-PG40 Size Tested 189" x 119"	40/40	< 0.2		
Four-Panel, PG Upgrade (611)	Dual-Pane	Class LC-PG65 Size Tested 189" x 82"	65/70	< 0.2		
Four-Panel, PG Upgrade (80, 100)	Dual-Pane	Class LC-PG50 Size Tested 189" x 119"	50/50	< 0.2		
Hinged Inswing Patio Doors						
Single Stationary (611, 80, 100)	Dual-Pane	Class LC-PG45 Size Tested 38" x 119"	45/55	< 0.2		
Single Stationary, PG Upgrade (611)	Dual-Pane	Class LC-PG65 Size Tested 38" x 82"	65/80	< 0.2		
Single Stationary, PG Upgrade (80, 100)	Dual-Pane	Class LC-PG65 Size Tested 38" x 119"	65/70	< 0.2		
Single Active (611, 80, 100)	Dual-Pane	Class LC-PG45 Size Tested 38" x 119"	45/55	< 0.2		
Single Active, PG Upgrade (611)	Dual-Pane	Class LC-PG65 Size Tested 38" x 82"	65/80	< 0.2		
Single Active, PG Upgrade (80, 100)	Dual-Pane	Class LC-PG65 Size Tested 38" x 119"	65/70	< 0.2		
Two-Panel AP/PA (611, 80, 100)	Dual-Pane	Class LC-PG45 Size Tested 75" x 119"	45/55	< 0.2		
Two-Panel AP/PA, PG Upgrade (611)	Dual-Pane	Class LC-PG65 Size Tested 75" x 82"	65/80	< 0.2		
Two-Panel AP/PA, PG Upgrade (80)	Dual-Pane	Class LC-PG65 Size Tested 75" x 95"	65/70	< 0.2		
Two-Panel AP/PA, PG Upgrade (100)	Dual-Pane	Class LC-PG50 Size Tested 75" x 119"	50/65	< 0.2		
Two-Panel AS/SA/SS (611, 80)	Dual-Pane	Class LC-PG45 Size Tested 71" x 95"	45/55	< 0.2		
Two-Panel AS/SA/SS, PG Upgrade (611)	Dual-Pane	Class LC-PG65 Size Tested 75" x 82"	65/80	< 0.2		
Two-Panel AS/SA/SS, PG Upgrade (80)	Dual-Pane	Class LC-PG65 Size Tested 75" x 95"	65/70	< 0.2		
Three-Panel (611, 80)	Dual-Pane	Class LC-PG45 Size Tested 106" x 95"	45/55	< 0.2		
Hinged Outswing Patio Doors						
Single Stationary (611, 80, 100)	Dual-Pane	Class LC-PG45 Size Tested 38" x 119"	45/55	< 0.2		
Single Stationary, PG Upgrade (611, 80)	Dual-Pane	Class LC-PG65 Size Tested 38" x 95"	65/80	< 0.2		
Single Stationary, PG Upgrade (100)	Dual-Pane	Class LC-PG65 Size Tested 38" x 119"	65/70	< 0.2		
Single Active (611, 80, 100)	Dual-Pane	Class LC-PG45 Size Tested 38" x 119"	45/55	< 0.2		
Single Active, PG Upgrade (611)	Dual-Pane	Class LC-PG65 Size Tested 38" x 82"	65/80	< 0.2		
Single Active, PG Upgrade (80, 100)	Dual-Pane	Class LC-PG65 Size Tested 38" x 119"	65/70	< 0.2		
Two-Panel (611, 80, 100)	Dual-Pane	Class LC-PG45 Size Tested 75" x 119"	45/45	< 0.2		
Two Panel, PG Upgrade (611)	Dual-Pane	Class LC-PG65 Size Tested 75" x 82"	65/80	< 0.2		
Two Panel, PG Upgrade (80)	Dual-Pane	Class LC-PG65 Size Tested 75" x 95"	65/70	< 0.2		
Two Panel, PG Upgrade (100)	Dual-Pane	Class LC-PG55 Size Tested 75" x 119"	55/55	< 0.2		

For sound transmission ratings, see page 5.

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Contact your Andersen supplier for more information.

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Performance Grade and Air Infiltration - A-Series Windows and Patio Doors (continued)

For current performance information, please visit andersenwindows.com.

Andersen [®] Product	Glass Construction	AAMA/WDMA/CSA 101/I.S.2/A440 Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	Air Infiltration CFM/FT ²			
Patio Door Transoms & Sidelights							
Transom	Dual-Pane	Class LC-PG70 Size Tested 112" x 27"	70/80	< 0.2			
Sidelight Transom	Dual-Pane	Class LC-PG70 Size Tested 18" x 27"	70/70	< 0.2			
Sidelight Transom, PG Upgrade	Dual-Pane	Class LC-PG70 Size Tested 18" x 27"	70/80	< 0.2			
Sidelight (611, 80, 100)	Dual-Pane	Class LC-PG45 Size Tested 18" x 119"	45/70	< 0.2			
Sidelight, PG Upgrade (611, 80, 100)	Dual-Pane	Class LC-PG70 Size Tested 18" x 119"	70/80	< 0.2			
Complementary Springline" & Arch Hinged Inswing Patio Doors							
Single Stationary	Dual-Pane	Class LC-PG45 Size Tested 75.3" x 95.5"	45/45	< 0.2			
Single Active*	Dual-Pane	Class LC-PG45 Size Tested 37.9" x 95.5"	45/45	< 0.2			
Two-Panel Stationary	Dual-Pane	Class LC-PG45 Size Tested 75.3" x 95.5"	45/45	< 0.2			
Two-Panel Active*	Dual-Pane	Class LC-PG45 Size Tested 75.3" x 95.5"	45/45	< 0.2			
Complementary Springline & Arch Hinged Outswing Patio Doors							
Single Stationary	Dual-Pane	Class LC-PG45 Size Tested 75.3" x 95.5"	45/45	< 0.2			
Single Active*	Dual-Pane	Class LC-PG45 Size Tested 37.9" x 95.5"	45/45	< 0.2			
Two-Panel Stationary	Dual-Pane	Class LC-PG45 Size Tested 75.3" x 95.5"	45/45	< 0.2			
Two-Panel Active*	Dual-Pane	Class LC-PG45 Size Tested 75.3" x 95.5"	45/45	< 0.2			

For sound transmission ratings, see page 5.

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on variations in manufacturing, shipping, installation, environmental conditions and conditions of use.

• Contact your Andersen supplier for more information. *Tested with standard multi-point hardware.



Sound Transmission Ratings - A-Series Windows and Patio Doors For current performance information, please visit andersenwindows.com.

Andersen [®] Product	Glass Construction	Sound Transmission Class (STC)	Outdoor/Indoor Transmission Class (OITC)					
Casement Windows								
	Dual-Pane	27	23					
Casement	Triple-Pane	30	25					
	Dual-Pane	t	t					
Awning	Triple-Pane	29	23					
	Dual-Pane	27	22					
Double-Hung	Triple-Pane	28	23					
	Dual-Pane	27	22					
Picture	Triple-Pane	30	25					
	Dual-Pane	28	22					
Venting Transom	Triple-Pane	28	23					
	Dual-Pane	27	22					
Fixed Transom	Triple-Pane	31	24					
Direct-Set Specialty Windows								
Rectangular	Dual-Pane	28	24					
Arch	Dual-Pane	28	24					
Springline™	Dual-Pane	28	24					
Sash-Set Specialty Windows								
Rectangular	Dual-Pane	29	24					
Arch	Dual-Pane	29	24					
Springline	Dual-Pane	29	24					
Gliding Patio Doors								
	Dual-Pane	t	t					
Single Stationary	Triple-Pane	32	28					
Single Stationary, PG Upgrade	Dual-Pane	t	t					
	Dual-Pane	t	t					
Two-Panel	Triple-Pane	29	25					
Two-Panel, PG Upgrade	Dual-Pane	t	†					
Three-Panel	Dual-Pane	t	†					
Three-Panel, PG Upgrade	Dual-Pane	t	†					
Four-Panel	Dual-Pane	t	†					
Four-Panel, PG Upgrade	Dual-Pane	t	†					
Hinged Inswing Patio Doors								
Single Stationary	Dual-Pane	30	26					
Single Stationary, PG Upgrade	Dual-Pane	30	26					
	Dual-Pane	30	26					
Single Active	Triple-Pane	31	25					
Single Active, PG Upgrade	Dual-Pane	30	26					
-	Dual-Pane	30	25					
Two-Panel AP/PA	Triple-Pane	31	25					
Two-Panel AP/PA, PG Upgrade	Dual-Pane	30	25					
Two-Panel AS/SA/SS	Dual-Pane	30	25					
Two-Panel AS/SA/SS. PG Ungrade	Dual-Pane	30	25					
Three-Panel	Dual-Pane	t	t					
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Andersen [®] Product	Glass Construction	Sound Transmission Class (STC)	Outdoor/Indoor Transmission Class (OITC)				
Hinged Outswing Patio Doors							
Single Stationary	Dual-Pane	30	25				
Single Stationary, PG Upgrade	Dual-Pane	30	25				
Single Astive	Dual-Pane	30	25				
Single Active	Triple-Pane	31	25				
Single Active, PG Upgrade	Dual-Pane	30	25				
Two Denol	Dual-Pane	31	25				
Iwo-rallel	Triple-Pane	31	25				
Two-Panel, PG Upgrade	Dual-Pane	31	25				
Patio Door Sidelights and Transoms							
Transom	Dual-Pane	†	t				
Sidelight Transom	Dual-Pane	†	t				
Sidelight Transom, PG Upgrade	Dual-Pane	†	t				
Sidelight	Dual-Pane	†	t				
Sidelight, PG Upgrade	Dual-Pane	†	t				
Complementary Springline" & Arch Hinged Inswing Patio Doors							
Single Stationary	Dual-Pane	†	t				
Single Active	Dual-Pane	30	25				
Two-Panel Stationary	Dual-Pane	†	t				
Two-Panel Active	Dual-Pane	30	25				
Complementary Springline & Arch Hinged Outswing Patio Doors							
Single Stationary	Dual-Pane	†	t				
Single Active	Dual-Pane	31	25				
Two-Panel Stationary	Dual-Pane	†	t				
Two-Panel Active	Dual-Pane	31	25				

"Sound Transmission Class (STC)" and "Outdoor/Indoor Transmission Class (OITC)" ratings are for individual units based on independent tests and represent entire unit.
 This data is accurate as of November 2022. Due to ongoing product changes, updated test results, or new

industry standards, this data may change over time.
 • Contact your Andersen supplier for more information.
†Data not available.