



By PLY GEM



BayShore™
windows and doors

Manufacturer's Certification **BayShore Window & Door Products**

Great Lakes Window by Ply Gem, located at 30499 Tracy Road, Walbridge, OH, 43465, manufactures Bayshore products, which when purchased with optional Low-E glass, spacer system and argon gas fill in an insulated unit, meet or exceed the prescriptive criteria established by the IECC for all climate zones in which the window or doors are installed.

To qualify for the Energy Improvement and Extension Act tax credit, exterior windows and doors must have both a U-Factor rating of .30 or lower and a Solar Heat Gain Coefficient (SHGC) rating of .30 or lower. The BayShore exterior window and door products set forth on Attachment A have a U-Factor and SHGC of .30 or below and qualify for this tax credit. To qualify for the tax credit, homeowners must purchase the qualifying BayShore exterior window and door products and install in accordance with Great Lakes Window by Ply Gem's instructions between January 1, 2009 and December 31, 2010.

To certify the qualifying BayShore products for purposes of the tax credits available under the Energy Improvement and Extension Act of 2008, **Great Lake Window by Ply Gem represents that its window and door products having a U-Factor and SHGC of .30 or below as set forth on Attachment A are "Eligible Building Envelope Component(s)" that qualify for the federal income tax credit allowed under the Energy Improvement and Extension Act of 2008.**

Homeowners should consult their tax advisor to determine whether they qualify for any potential income tax credits.

Under penalties of perjury, I declare that I have examined this certification statement, and to the best of my knowledge and belief, the facts are true, correct, and complete.

Lynn Morstad
President, Ply Gem Windows

March, 2010



By PLY GEM

Product Type / Popular Glazing Options	U-Factor (Center of Glass)	R-value (Center of Glass)	Total Unit R-value	NFRC Certified Values					Energy Star Qualified				
				NFRC CPD Number	Total Unit U-Factor	SHGC	VT	CR	Northern	North-Central	South-Central	Southern	
Double Hung													
Energy Edge Spacer													
Energy Edge Plus+ Spacer													
Hi-R Plus (Low E Argon IGU)	0.26	3.8	3.3	PWG-M-28	0.30	0.28	0.53	56	●	●	●	●	
Grilles (Width<1")	0.26	3.8	3.3		0.30	0.25	0.47	56	●	●	●	●	
Hi-R PlusSC (Solar Cooling Low E Argon IGU)	0.25	4.0	3.3		0.30	0.21	0.41	56	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.3		0.30	0.19	0.37	56	●	●	●	●	
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.3		0.30	0.26	0.45	57	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.3		0.30	0.23	0.40	57	●	●	●	●	
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.3		0.30	0.18	0.28	57	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.3		0.30	0.16	0.24	57	●	●	●	●	
Slider													
Energy Edge Spacer													
Energy Edge Plus+ Spacer													
Hi-R Plus (Low E Argon IGU)	0.26	3.8	3.3	PGW-M-36	0.30	0.26	0.50	59	●	●	●	●	
Grilles (Width<1")	0.26	3.8	3.3		0.30	0.24	0.45	59	●	●	●	●	
Hi-R PlusSC (Solar Cooling Low E Argon IGU)	0.25	4.0	3.3		0.30	0.20	0.39	59	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.3		0.30	0.18	0.35	59	●	●	●	●	
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.3		0.30	0.25	0.43	55	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.3		0.30	0.22	0.38	55	●	●	●	●	
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.3		0.30	0.18	0.26	55	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.3		0.30	0.16	0.23	55	●	●	●	●	
Picture													
Energy Edge Spacer													
Hi-R Plus (Low E Argon IGU)				PWG-M-42									
Grilles (Width<1")	0.26	3.8	3.4		0.30	0.29	0.55	57	●	●	●	●	
Hi-R PlusSC (Solar Cooling Low E Argon IGU)	0.25	4.0	3.4		0.29	0.24	0.48	57	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.4		0.29	0.22	0.43	57	●	●	●	●	
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.4		0.29	0.30	0.52	57	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.4		0.29	0.27	0.47	57	●	●	●	●	
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.4		0.29	0.21	0.32	58	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.4		0.29	0.19	0.29	58	●	●	●	●	
<i>Picture - Continued</i>													
Energy Edge Plus+ Spacer													
Hi-R Plus (Low E Argon IGU)													
Grilles (Width<1")	0.26	3.8	3.4	0.29	0.29	0.55	59	●	●	●	●		
Hi-R PlusSC (Solar Cooling Low E Argon IGU)	0.25	4.0	3.6	0.28	0.24	0.48	59	●	●	●	●		
Grilles (Width<1")	0.25	4.0	3.6	0.28	0.22	0.43	59	●	●	●	●		
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.6	0.28	0.30	0.52	60	●	●	●	●		
Grilles (Width<1")	0.25	4.0	3.6	0.28	0.27	0.47	60	●	●	●	●		
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.6	0.28	0.21	0.32	60	●	●	●	●		
Grilles (Width<1")	0.25	4.0	3.6	0.28	0.19	0.29	60	●	●	●	●		
Casement													
Energy Edge Spacer													
Hi-R Plus (Low E Argon IGU)	0.26	3.8	3.4	PWG-M-25	0.29	0.25	0.48	59	●	●	●	●	
Grilles (Width<1")	0.26	3.8	3.4		0.29	0.23	0.43	59	●	●	●	●	
Hi-R PlusSC (Solar Cooling Low E Argon IGU)	0.25	4.0	3.4		0.29	0.19	0.37	59	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.4		0.29	0.18	0.34	59	●	●	●	●	
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.6		0.28	0.24	0.40	59	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.6		0.28	0.22	0.37	59	●	●	●	●	
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.6		0.28	0.17	0.25	59	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.6		0.28	0.15	0.23	59	●	●	●	●	
Energy Edge Plus+ Spacer													
Hi-R Plus (Low E Argon IGU)	0.26	3.8	3.7		0.27	0.25	0.48	62	●	●	●	●	
Grilles (Width<1")	0.26	3.8	3.7	0.27	0.23	0.43	62	●	●	●	●		
Hi-R PlusSC (Solar Cooling Low E Argon IGU)	0.25	4.0	3.7	0.27	0.19	0.37	62	●	●	●	●		
Grilles (Width<1")	0.25	4.0	3.7	0.27	0.18	0.34	62	●	●	●	●		
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.7	0.27	0.24	0.40	63	●	●	●	●		
Grilles (Width<1")	0.25	4.0	3.7	0.27	0.22	0.37	63	●	●	●	●		
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.7	0.27	0.17	0.25	63	●	●	●	●		
Grilles (Width<1")	0.25	4.0	3.7	0.27	0.15	0.23	63	●	●	●	●		

—Slider with grilles and triple strength glass - does NOT meet the requirements.



By PLY GEM

Product Type / Popular Glazing Options	U-Factor (Center of Glass)	R-value (Center of Glass)	Total Unit R-value	NFRC Certified Values					Energy Star Qualified				
				NFRC CPD Number	Total Unit U-Factor	SHGC	VT	CR	Northern	North-Central	South-Central	Southern	
Fixed Casement													
Energy Edge Spacer													
Hi-R Plus (Low E Argon IGU)	0.26	3.8	3.7	PWG-M-24	0.27	0.29	0.55	58	●	●	●	●	
Grilles (Width<1")	0.26	3.8	3.7		0.27	0.26	0.50	58	●	●	●	●	
Hi-R Plus ^{SC} (Solar Cooling Low E Argon IGU)	0.25	4.0	3.7		0.27	0.22	0.44	58	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.7		0.27	0.20	0.39	58	●	●	●	●	
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.7		0.27	0.27	0.47	59	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.7		0.27	0.25	0.42	59	●	●	●	●	
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.7		0.27	0.19	0.29	59	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.7		0.27	0.18	0.26	59	●	●	●	●	
Energy Edge Plus+ Spacer													
Hi-R Plus (Low E Argon IGU)	0.26	3.8	3.8		0.27	0.29	0.55	62	●	●	●	●	
Grilles (Width<1")	0.26	3.8	3.8		0.27	0.26	0.50	62	●	●	●	●	
Hi-R Plus ^{SC} (Solar Cooling Low E Argon IGU)	0.25	4.0	3.8		0.27	0.22	0.44	62	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.8		0.27	0.20	0.39	62	●	●	●	●	
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.8		0.26	0.27	0.47	63	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.8		0.26	0.25	0.42	63	●	●	●	●	
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.8		0.26	0.19	0.29	63	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.8	0.26	0.18	0.26	63	●	●	●	●		
Awning													
Energy Edge Spacer													
Hi-R Plus (Low E Argon IGU)	0.26	3.8	3.4	PWG-M-26	0.29	0.25	0.48	55	●	●	●	●	
Grilles (Width<1")	0.26	3.8	3.4		0.29	0.23	0.43	55	●	●	●	●	
Hi-R Plus ^{SC} (Solar Cooling Low E Argon IGU)	0.25	4.0	3.4		0.29	0.19	0.37	55	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.4		0.29	0.18	0.34	55	●	●	●	●	
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.6		0.28	0.24	0.40	56	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.6		0.28	0.22	0.37	56	●	●	●	●	
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.6		0.28	0.17	0.37	56	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.6		0.28	0.15	0.34	56	●	●	●	●	
Energy Edge Plus+ Spacer													
Hi-R Plus (Low E Argon IGU)	0.26	3.8	3.7		0.27	0.25	0.48	58	●	●	●	●	
Grilles (Width<1")	0.26	3.8	3.7		0.27	0.23	0.43	58	●	●	●	●	
Hi-R Plus ^{SC} (Solar Cooling Low E Argon IGU)	0.25	4.0	3.7		0.27	0.19	0.37	58	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.7		0.27	0.18	0.34	58	●	●	●	●	
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.7		0.27	0.24	0.40	59	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.7		0.27	0.22	0.37	59	●	●	●	●	
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.7		0.27	0.17	0.25	59	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.7	0.27	0.15	0.23	59	●	●	●	●		
Sliding Patio Door													
New Construction Door (APD)													
Energy Edge Spacer													
Hi-R Plus (Low E Argon IGU)	0.25	4.0	3.4	PWG-M-44	0.29	0.30	0.57	54	●	●	●	●	
Hi-R Plus ^{SC} (Solar Cooling Low E Argon IGU)	0.24	4.2	3.4		0.29	0.23	0.45	54	●	●	●	●	
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.4		0.29	0.30	0.57	54	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.3		0.30	0.27	0.50	54	●	●	●	●	
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.4		0.29	0.20	0.30	55	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.3		0.30	0.18	0.26	55	●	●	●	●	
Energy Edge Plus+ Spacer													
Hi-R Plus (Low E Argon IGU)	0.25	4.0	3.5		0.29	0.30	0.57	58	●	●	●	●	
Hi-R Plus ^{SC} (Solar Cooling Low E Argon IGU)	0.24	4.2	3.5		0.28	0.23	0.45	58	●	●	●	●	
Grilles (Width<1")	0.24	4.2	3.3		0.30	0.20	0.39	58	●	●	●	●	
Maxuus (Double Low E Argon IGU)	0.25	4.0	3.6		0.28	0.28	0.49	59	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.4		0.29	0.25	0.43	59	●	●	●	●	
Maxuus ^{SC} (Double Low E Argon IGU)	0.25	4.0	3.6		0.28	0.20	0.30	59	●	●	●	●	
Grilles (Width<1")	0.25	4.0	3.4		0.29	0.18	0.26	59	●	●	●	●	

-Patio Door with grilles and triple strength glass - does NOT meet the requirements.
● -Option is Energy Star Qualified per zone.

NFRC (National Fenestration Rating Council)

- CPD - Certified Product Directory
- SHGC - Solar Heat Gain Coefficient
- VT - Visible Light Transmission
- CR - Condensation Resistance



U-Factor - Rate of Heat Loss
R-Value - Resistance to Heat Flow

Footnotes: Total unit values: Single strength glass for all dual pane windows with and w/o Grilles.
 Total unit values: Double strength glass for all dual pane Patio Doors and Picture Windows.