



GUARDIAN 275® LIGHT & THERMAL PERFORMANCE REPORT

GUARDIAN 275® PERFORMANCE	FACE SHEET COLOR COMBINATIONS			
	Exterior Sheet Color / Interior Sheet Color			
	Crystal / Crystal	Crystal / White	White / Crystal	White / White
Light Transmission				
No Insulation (%)	64	40	31	24
Insul 24 (%)	33	25	21	18
Insul 15 (%)	23	19	17	15
IMG 125 (%)	7	5	5	4
Solar Heat Gain Coefficient				
No Insulation	0.52	0.38	0.31	0.24
Insul 24	0.24	0.21	0.18	0.15
Insul 15	0.22	0.19	0.17	0.14
IMG 125	0.09	0.09	0.07	0.06
Center of Panel U-factor				
No Insulation	0.48			
Insul 24	0.20			
Insul 15	0.17			
IMG 125	0.08			
Certified System U-Factor	Wall System		Sloped System	
	Non-Thermally Broken	Thermally Broken	Non-Thermally Broken	Thermally Broken
No Insulation	0.60	0.58	0.66	0.64
Insul 24	0.32	0.30	0.39	0.36
Insul 15	0.29	0.27	0.36	0.33
IMG 125	0.21	0.20	0.27	0.25
CRF	Vertical Wall - 81 / Sloped Glazed - 75			
UV Transmittance	<0.01			

Additional sheet colors available. Please contact Major Industries, Inc. for related performance data.

GUARDIAN 275® 4-INCH PERFORMANCE	FACE SHEET COLOR COMBINATIONS			
	Exterior Sheet Color / Interior Sheet Color			
	Crystal / Crystal	Crystal / White	White / Crystal	White / White
Light Transmission				
No Insulation (%)	64	40	31	24
Insul 10 (%)	19	17	14	12
IMG 125 (%)	4	3	3	3
Solar Heat Gain Coefficient				
No Insulation	0.52	0.38	0.31	0.24
Insul 10	0.15	0.13	0.12	0.10
IMG 125	0.06	0.06	0.05	0.05
Center of Panel U-factor				
No Insulation	0.48			
Insul 10	0.11			
IMG 125	0.06			
Certified System U-factor	Thermally Broken Wall System			
No Insulation	0.55			
Insul 10	0.20			
IMG 125	0.16			
CRF	Vertical Wall - 88			
UV Transmittance	<0.01			

Additional sheet colors available. Please contact Major Industries, Inc. for related performance data.

** Center of panel U-factor values determined by NFRC test methods. For glazing comparisons only.

**Certified System U-factor values are for comparative analysis and are determined using criteria defined by NFRC, which requires simulation and validation testing of both standard and thermally improved assembled skylight / wall systems measuring 2000mm x 2000mm (78-3/4" x 78-3/4") consisting of two translucent panels, three vertical rafters / mullions and perimeter head and sill.

**Light Transmission values are based on an incident angle normal to the plane of a representative panel, and are determined using the ASTM E-972 standard.

**SHGC values are for comparative analysis and are determined using the NFRC 201 standard. SHGC is 87% of the Shading Coefficient at a given solar incidence and has replaced the Shading Coefficient as the property to specify as it is a more accurate method of stating glazing performance in a building envelope. (SC = 1.15 x SHGC)

**Condensation Resistance Factor (CRF) values are based on testing performed on thermally broken glazing panels.

Major Industries strives to create the most advanced products in the daylighting industry. As a result, products, materials and test results presented in this brochure are subject to change without notice. For a statement of warranty for a particular product, please contact us at 888-759-2678 or by fax at 715-848-3336.