

GUARDIAN 275[®] LIGHT TRANSMISSION & THERMAL PERFORMANCE

Guardian 275 [®] - 2.75"	FACE SHEET COLOR COMBINATIONS			
	Exterior Sheet Color / Interior Sheet Color (Additional color combinations available)			
	Crystal/ Crystal	Crystal/ White	White/ Crystal	White/ White
LIGHT TRANSMISSION - 2.75"¹				
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 - 2.75"²				
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
U-FACTOR - 2.75"³				
No Insulation				0.48
Insul 24				0.20
Insul 15				0.17
IMG 125				0.08
U-FACTOR - 2.75" SYSTEM⁴				
	Standard		Thermally Broken	
No Insulation	Wall System - 0.60 / 0.58		Sloped System - 0.66 / 0.64	
Insul 24	Wall System - 0.32 / 0.30		Sloped System - 0.39 / 0.36	
Insul 15	Wall System - 0.29 / 0.27		Sloped System - 0.36 / 0.33	
IMG 125	Wall System - 0.21 / 0.20		Sloped System - 0.27 / 0.25	
CRF - 2.75"⁵				
	Vertical Wall - 81		Sloped Glazed - 75	
UV TRANSMITTANCE				
	<0.01			

Guardian 275 [®] - 4"	FACE SHEET COLOR COMBINATIONS			
	Exterior Sheet Color / Interior Sheet Color (Additional color combinations available)			
	Crystal/ Crystal	Crystal/ White	White/ Crystal	White/ White
LIGHT TRANSMISSION¹				
No Insulation (%)	64	40	31	24
Insul 10 (%)	19	17	14	12
IMG 125 (%)	4	3	3	3
SOLAR HEAT GAIN COEFFICIENT²				
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-FACTOR³				
No Insulation				0.48
Insul 10				0.11
IMG 125				0.06
SYSTEM U-FACTOR⁴				
	Thermally Broken			
No Insulation	0.55			
Insul 10	0.20			
IMG 125	0.16			
CRF⁵				
	Vertical Wall - 88			
UV Transmittance				
	<0.01			

¹ 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.

² SHGC values are for comparative analysis and are determined using NFRC 201-2010 methods and standards. SHGC is 87% of the Shading Coefficient at a given solar incidence and has replaced the Shading Coefficient as it is a more accurate method of stating glazing performance in a building envelope. (SC = 1.15 x SHGC)

³ Center of panel U-factor values determined by NFRC test methods. For glazing comparisons only.

⁴ NFRC Certified System U-factor values are for comparative analysis and are determined using NFRC 100-2010 methods and standards, which require 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 2 translucent panels, 3 vertical rafters / mullions and perimeter head and sill. Certified test result for Major's systems can also be found at www.nfrc.org.

⁵ 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 the most up-to-date information, please visit our website at www.majorskylights.com. For a statement of warranty for a particular product, please contact us at 888-759-2678 or by fax at 715-848-3336.

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