

Eagle Window & Door 2010 ENERGY STAR® Information

This document provides NFRC certified U-Factor, Solar Heat Gain Coefficient (SHGC) and Visible Transmittance (VT) values for Eagle windows and doors along with the corresponding ENERGY STAR® climate zones that the product and glass type meet.

Actual unit performance values will vary depending upon specified design pressure, glass treatment option and unit size. Work with your local Eagle window and door dealer to make sure the product(s) you are ordering meet your specifications.

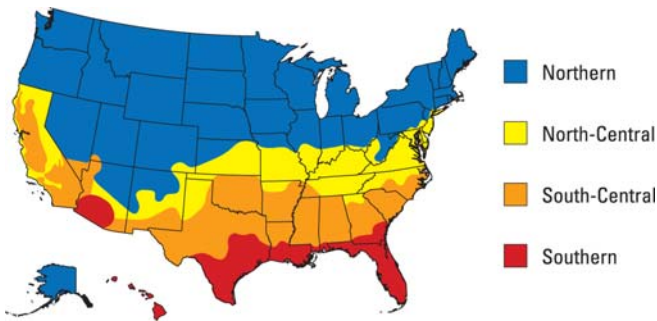


NFRC - These products are rated, certified and labeled by the National Fenestration Rating Council® (NFRC) – a non-profit organization that provides fair, accurate and credible energy performance ratings for windows and doors.



ENERGY STAR - These products meet stringent energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. These guidelines are based on the heat gain and loss of each product in various regions of the country.

The new climate zones and energy efficiency guidelines for windows and doors are shown below.



ENERGY STAR® Qualification Criteria for Residential Windows and Doors

Climate Zone	Windows			Doors		
	U-Factor ¹	SHGC ²		Glazing Level	U-Factor ¹	SHGC ²
Northern	≤ 0.30	Any	Prescriptive	Opaque	≤ 0.21	No Rating
	≥ 0.31	≥ 0.35	Equivalent Energy Performance	≤ ½-Lite	≤ 0.27	≤ 0.30
	≥ 0.32	≥ 0.40		> ½-Lite	≤ 0.32	≤ 0.30
North-Central	≤ 0.32	≤ 0.40				
South-Central	≤ 0.35	≤ 0.30				
Southern	≤ 0.60	≤ 0.27				

¹ Btu/h-ft²-F
² Fraction of incident solar radiation

NOTES

¹ U-Factor defines the amount of heat loss through the total unit in BTU/hr sq. ft.² °F. The lower the value, the less heat is lost through the entire product.

² Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product.

³ Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

NFRC ratings are based on modeling by a third party agency and validated by an independent test lab in compliance with NFRC program and procedural requirements.

TIG = Triple Insulated Glass

Glass thickness is noted in millimeters:





- For insulated glass, glass thickness is noted as (OB / Air Space / IB)
- For TIG, glass thickness is noted as (OB / Air Space / Center Pane / Air Space / IB)

Products noted as "High Altitude" contain capillary breather tubes.

This data is accurate as of December 10, 2009. Due to ongoing product changes, updated test results or new industry standards or requirements this data may change over time. Ratings are for sizes specified by NFRC for testing and certification. Ratings may vary depending on use of tempered glass, different divided light options, glass for high altitudes, etc.

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance







Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	None	0.35	0.30	0.49	56		
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.27	0.44	56		
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.27	0.44	56		
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.25	0.39	56		
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.36	0.25	0.39	56		
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.38	0.25	0.39	56		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	None	0.35	0.30	0.48	56		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.27	0.43	56		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.27	0.43	56		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.25	0.39	56		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.25	0.39	56		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.38	0.25	0.39	56		
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	None	0.35	0.29	0.48	56		
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.35	0.27	0.43	56		
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.27	0.43	56		
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.25	0.39	56		
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.36	0.25	0.39	56		
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.38	0.25	0.39	56		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	None	0.35	0.30	0.48	56		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.27	0.43	56		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.27	0.43	56		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.25	0.39	56		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.25	0.39	56		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.38	0.25	0.39	56		
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.36	0.27	0.43	53		
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.27	0.43	53		
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.24	0.38	53		
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.37	0.24	0.38	53		
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.39	0.24	0.38	53		
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.25	0.39	52		
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.39	0.25	0.39	52		
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.40	0.25	0.39	52		
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.39	0.27	0.43	52		
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.27	0.43	52		
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.25	0.39	52		
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.39	0.25	0.39	52		
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.40	0.25	0.39	52		
HP Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.39	0.27	0.43	52		
HP Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.27	0.43	52		
HP Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.25	0.39	52		
HP Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.39	0.25	0.39	52		
HP Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.40	0.25	0.39	52		
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.39	0.27	0.43	52		
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.27	0.43	52		
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.25	0.39	52		
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.39	0.25	0.39	52		
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.40	0.25	0.39	52		
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.40	0.27	0.43	50		
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.40	0.27	0.43	50		
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.40	0.25	0.38	50		
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.40	0.25	0.38	50		
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.41	0.25	0.38	50		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	None	0.35	0.28	0.36	56		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.26	0.32	56		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.26	0.32	56		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.29	56		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.24	0.29	56		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.38	0.24	0.29	56		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	None	0.35	0.28	0.36	56		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	7/8" CDL (no spacer)	0.35	0.26	0.32	56		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.26	0.32	56		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.29	56		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	1 1/8" MDL	0.36	0.24	0.29	56		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance







Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone	
Bronze Low-E4 (272)	3.1mm / 11.5mm / 3mm	1 1/2" MDL		0.38	0.24	0.29	56		
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	None		0.35	0.27	0.34	56		
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)		0.35	0.25	0.30	56		
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.36	0.25	0.30	56		
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.23	0.27	56		
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL		0.36	0.23	0.27	56		
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL		0.38	0.23	0.27	56		
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	None		0.36	0.25	0.31	53		
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)		0.36	0.23	0.28	53		
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.37	0.23	0.28	53		
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.36	0.21	0.25	53		
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL		0.37	0.21	0.25	53		
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL		0.39	0.21	0.25	53		
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.39	0.26	0.32	52		
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.26	0.32	52		
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.24	0.29	52		
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL		0.39	0.24	0.29	52		
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL		0.40	0.24	0.29	52		
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3mm	7/8" CDL (no spacer)		0.39	0.26	0.32	52		
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.26	0.32	52		
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.24	0.29	52		
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3mm	1 1/8" MDL		0.39	0.24	0.29	52		
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3mm	1 1/2" MDL		0.40	0.24	0.29	52		
Bronze Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	None		0.39	0.27	0.34	52		
Bronze Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)		0.39	0.25	0.30	52		
Bronze Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.25	0.30	52		
Bronze Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.23	0.27	52		
Bronze Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL		0.39	0.23	0.27	52		
Bronze Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL		0.40	0.23	0.27	52		
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	None		0.40	0.26	0.31	50		
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)		0.40	0.24	0.28	50		
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.40	0.24	0.28	50		
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.40	0.22	0.25	50		
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL		0.40	0.22	0.25	50		
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL		0.41	0.22	0.25	50		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm	None		0.35	0.27	0.33	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.35	0.25	0.30	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.36	0.25	0.30	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.23	0.27	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm	1 1/8" MDL		0.36	0.23	0.27	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm	1 1/2" MDL		0.38	0.23	0.27	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm	None		0.35	0.27	0.33	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm	7/8" CDL (no spacer)		0.35	0.25	0.30	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.36	0.25	0.30	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.23	0.27	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm	1 1/8" MDL		0.36	0.23	0.27	56		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm	1 1/2" MDL		0.38	0.23	0.27	56		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	None		0.35	0.26	0.31	56		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)		0.35	0.24	0.28	56		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.36	0.24	0.28	56		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.22	0.25	56		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL		0.36	0.22	0.25	56		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL		0.38	0.22	0.25	56		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	None		0.36	0.24	0.28	53		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)		0.36	0.22	0.25	53		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.37	0.22	0.25	53		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.36	0.20	0.22	53		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL		0.37	0.20	0.22	53		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL		0.39	0.20	0.22	53		
Gray Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3.1mm	None		0.39	0.27	0.33	52		
Gray Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.39	0.25	0.30	52		
Gray Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.25	0.30	52		
Gray Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.23	0.27	52		

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SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance







Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.39	0.23	0.27	52	
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.40	0.23	0.27	52	
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	None	0.39	0.27	0.33	52	
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	7/8" CDL (no spacer)	0.39	0.25	0.30	52	
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.25	0.30	52	
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.23	0.27	52	
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	1 1/8" MDL	0.39	0.23	0.27	52	
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	1 1/2" MDL	0.40	0.23	0.27	52	
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	None	0.39	0.26	0.31	52	
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.39	0.24	0.28	52	
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.24	0.28	52	
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.22	0.25	52	
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.39	0.22	0.25	52	
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.40	0.22	0.25	52	
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	None	0.40	0.24	0.28	50	
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.40	0.23	0.25	50	
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.40	0.23	0.25	50	
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.40	0.21	0.22	50	
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.40	0.21	0.22	50	
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.41	0.21	0.22	50	
Low-E 240	2.2mm / 11.5mm / 2.2mm	None	None	0.36	0.19	0.27	55	
Low-E 240	2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	None	0.36	0.18	0.24	55	
Low-E 240	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	None	0.36	0.18	0.24	55	
Low-E 240	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	None	0.36	0.16	0.22	55	
Low-E 240	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	None	0.36	0.16	0.22	55	
Low-E 240	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	None	0.37	0.16	0.22	55	
Low-E 240	3.1mm / 11.5mm / 3.1mm	None	None	0.36	0.19	0.27	55	
Low-E 240	3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	None	0.36	0.17	0.24	55	
Low-E 240	3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	None	0.36	0.17	0.24	55	
Low-E 240	3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	None	0.36	0.16	0.22	55	
Low-E 240	3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	None	0.36	0.16	0.22	55	
Low-E 240	3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	None	0.37	0.16	0.22	55	
Low-E 240	3.9mm / 11.5mm / 3.9mm	None	None	0.36	0.18	0.26	55	
Low-E 240	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	None	0.36	0.17	0.23	55	
Low-E 240	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	None	0.36	0.17	0.23	55	
Low-E 240	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	None	0.36	0.16	0.21	55	
Low-E 240	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	None	0.36	0.16	0.21	55	
Low-E 240	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	None	0.37	0.16	0.21	55	
Low-E 240	3mm / 11.5mm / 3.1mm	None	None	0.36	0.19	0.27	55	
Low-E 240	3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	None	0.36	0.17	0.24	55	
Low-E 240	3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	None	0.36	0.17	0.24	55	
Low-E 240	3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	None	0.36	0.16	0.22	55	
Low-E 240	3mm / 11.5mm / 3.1mm	1 1/8" MDL	None	0.36	0.16	0.22	55	
Low-E 240	3mm / 11.5mm / 3.1mm	1 1/2" MDL	None	0.37	0.16	0.22	55	
Low-E 240	4.7mm / 9.8mm / 4.7mm	None	None	0.36	0.19	0.26	53	
Low-E 240	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	None	0.36	0.17	0.23	53	
Low-E 240	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	None	0.37	0.17	0.23	53	
Low-E 240	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	None	0.36	0.16	0.21	53	
Low-E 240	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	None	0.37	0.16	0.21	53	
Low-E 240	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	None	0.38	0.16	0.21	53	
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	None	0.39	0.19	0.27	52	
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.39	0.18	0.24	52	
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.18	0.24	52	
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.17	0.22	52	
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.40	0.17	0.22	52	
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.40	0.17	0.22	52	
Low-E 240	High Altitude	3.1mm / 11.5mm / 3.1mm	None	0.39	0.19	0.27	52	
Low-E 240	High Altitude	3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.39	0.18	0.24	52	
Low-E 240	High Altitude	3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.18	0.24	52	
Low-E 240	High Altitude	3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.16	0.22	52	
Low-E 240	High Altitude	3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.40	0.16	0.22	52	
Low-E 240	High Altitude	3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.40	0.16	0.22	52	
Low-E 240	High Altitude	3.9mm / 11.5mm / 3.9mm	None	0.39	0.19	0.26	52	

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance







Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Low-E 240 High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)		0.39	0.18	0.23	52		
Low-E 240 High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.18	0.23	52		
Low-E 240 High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.16	0.21	52		
Low-E 240 High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL		0.40	0.16	0.21	52		
Low-E 240 High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL		0.40	0.16	0.21	52		
Low-E 240 High Altitude	3mm / 11.5mm / 3.1mm	None		0.39	0.19	0.27	52		
Low-E 240 High Altitude	3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.39	0.18	0.24	52		
Low-E 240 High Altitude	3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.18	0.24	52		
Low-E 240 High Altitude	3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.16	0.22	52		
Low-E 240 High Altitude	3mm / 11.5mm / 3.1mm	1 1/8" MDL		0.40	0.16	0.22	52		
Low-E 240 High Altitude	3mm / 11.5mm / 3.1mm	1 1/2" MDL		0.40	0.16	0.22	52		
Low-E 240 High Altitude	4.7mm / 9.8mm / 4.7mm	None		0.40	0.19	0.26	49		
Low-E 240 High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)		0.40	0.18	0.23	49		
Low-E 240 High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.40	0.18	0.23	49		
Low-E 240 High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.40	0.16	0.21	49		
Low-E 240 High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL		0.41	0.16	0.21	49		
Low-E 240 High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL		0.41	0.16	0.21	49		
3.1mm		1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.27	0.38	54		
3.1mm		1 1/8" MDL		0.39	0.27	0.38	54		
3.1mm		1 1/2" MDL		0.40	0.27	0.38	54		
Clear 090pvb Lami Ext. / Low-E4 (272) Int. High Altitude	8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.41	0.27	0.38	49		
Clear 090pvb Lami Ext. / Low-E4 (272) Int. High Altitude	8.6mm / 8mm / 3.1mm	1 1/8" MDL		0.43	0.27	0.38	49		
Clear 090pvb Lami Ext. / Low-E4 (272) Int. High Altitude	8.6mm / 8mm / 3.1mm	1 1/2" MDL		0.43	0.27	0.38	49		
Clear 090sgp Lami Ext. / Low-E4 (272) Int.	8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.27	0.38	54		
Clear 090sgp Lami Ext. / Low-E4 (272) Int.	8.6mm / 8mm / 3.1mm	1 1/8" MDL		0.39	0.27	0.38	54		
Clear 090sgp Lami Ext. / Low-E4 (272) Int.	8.6mm / 8mm / 3.1mm	1 1/2" MDL		0.40	0.27	0.38	54		
Clear 090sgp Lami Ext. / Low-E4 (272) Int. High Altitude	8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.41	0.27	0.38	49		
Clear 090sgp Lami Ext. / Low-E4 (272) Int. High Altitude	8.6mm / 8mm / 3.1mm	1 1/8" MDL		0.43	0.27	0.38	49		
Clear 090sgp Lami Ext. / Low-E4 (272) Int. High Altitude	8.6mm / 8mm / 3.1mm	1 1/2" MDL		0.43	0.27	0.38	49		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	None		0.35	0.20	0.44	56		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.35	0.19	0.39	56		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.19	0.39	56		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.17	0.35	56		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.36	0.17	0.35	56		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.37	0.17	0.35	56		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	None		0.35	0.20	0.43	56		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.35	0.19	0.39	56		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.19	0.39	56		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.17	0.35	56		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	1 1/8" MDL		0.36	0.17	0.35	56		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	1 1/2" MDL		0.37	0.17	0.35	56		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	None		0.35	0.20	0.43	56		
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)		0.35	0.19	0.39	56		
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.19	0.39	56		
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.17	0.35	56		
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL		0.36	0.17	0.35	56		
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL		0.37	0.17	0.35	56		
SmartSun (366)	3mm / 11.5mm / 3.1mm	None		0.35	0.20	0.43	56		
SmartSun (366)	3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.35	0.19	0.39	56		
SmartSun (366)	3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.19	0.39	56		
SmartSun (366)	3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.17	0.35	56		
SmartSun (366)	3mm / 11.5mm / 3.1mm	1 1/8" MDL		0.36	0.17	0.35	56		
SmartSun (366)	3mm / 11.5mm / 3.1mm	1 1/2" MDL		0.37	0.17	0.35	56		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	None		0.35	0.20	0.42	54		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)		0.35	0.19	0.38	54		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance







Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

	Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.19	0.38	54	
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.17	0.34	54	
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.36	0.17	0.34	54	
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.37	0.17	0.34	54	
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	None	0.38	0.21	0.44	53	
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.38	0.19	0.39	53	
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.19	0.39	53	
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.17	0.35	53	
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.39	0.17	0.35	53	
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.40	0.17	0.35	53	
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	None	0.38	0.21	0.43	53	
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.38	0.19	0.39	53	
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.19	0.39	53	
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.17	0.35	53	
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.39	0.17	0.35	53	
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.40	0.17	0.35	53	
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	None	0.38	0.21	0.43	53	
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.38	0.19	0.39	53	
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.19	0.39	53	
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.17	0.35	53	
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.39	0.17	0.35	53	
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.40	0.17	0.35	53	
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	None	0.38	0.21	0.43	53	
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.38	0.19	0.39	53	
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.19	0.39	53	
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.17	0.35	53	
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.39	0.17	0.35	53	
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.40	0.17	0.35	53	
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	None	0.39	0.21	0.42	50	
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.39	0.19	0.38	50	
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.40	0.19	0.38	50	
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.18	0.34	50	
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.40	0.18	0.34	50	
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.41	0.18	0.34	50	
Clear 090pvb Lami Ext. / SmartSun (366) Int.	8.6mm / 8mm / 3.1mm	None	0.37	0.27	0.42	54	
Clear 090pvb Lami Ext. / SmartSun (366) Int.	8.6mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.37	0.24	0.38	54	
Clear 090pvb Lami Ext. / SmartSun (366) Int.	8.6mm / 8mm / 3.1mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.38	0.24	0.38	54	
Clear 090pvb Lami Ext. / SmartSun (366) Int.	8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.22	0.34	54	
Clear 090pvb Lami Ext. / SmartSun (366) Int.	8.6mm / 8mm / 3.1mm	1 1/8" MDL	0.38	0.22	0.34	54	
Clear 090pvb Lami Ext. / SmartSun (366) Int.	8.6mm / 8mm / 3.1mm	1 1/2" MDL	0.39	0.22	0.34	54	
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude	8.6mm / 8mm / 3.1mm	None	0.41	0.27	0.42	50	
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude	8.6mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.41	0.25	0.38	50	
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude	8.6mm / 8mm / 3.1mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.42	0.25	0.38	50	
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude	8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.41	0.22	0.34	50	
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude	8.6mm / 8mm / 3.1mm	1 1/8" MDL	0.42	0.22	0.34	50	
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude	8.6mm / 8mm / 3.1mm	1 1/2" MDL	0.43	0.22	0.34	50	
Clear 090sgp Lami Ext. / SmartSun (366) Int.	8.6mm / 8mm / 3.1mm	None	0.37	0.27	0.42	54	
Clear 090sgp Lami Ext. / SmartSun (366) Int.	8.6mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.37	0.24	0.38	54	
Clear 090sgp Lami Ext. / SmartSun (366) Int.	8.6mm / 8mm / 3.1mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.38	0.24	0.38	54	

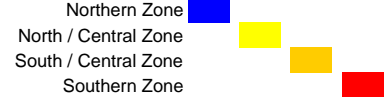
U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.22	0.34	54		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	1 1/8" MDL	0.38	0.22	0.34	54		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	1 1/2" MDL	0.39	0.22	0.34	54		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	None	0.41	0.27	0.42	50		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.41	0.25	0.38	50		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.42	0.25	0.38	50		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.41	0.22	0.34	50		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/8" MDL	0.42	0.22	0.34	50		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/2" MDL	0.43	0.22	0.34	50		
Low-E4 (272) #2 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.32	0.28	0.45	59		
Low-E4 (272) #2 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.32	0.26	0.40	59		
Low-E4 (272) #2 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.23	0.36	59		
Low-E4 (272) #2 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.32	0.28	0.44	59		
Low-E4 (272) #2 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.25	0.40	59		
Low-E4 (272) #2 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.23	0.36	59		
Low-E4 (272) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.32	0.28	0.44	59		
Low-E4 (272) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.25	0.40	59		
Low-E4 (272) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.23	0.36	59		
Low-E4 (272) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.35	0.28	0.45	57		
Low-E4 (272) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.26	0.40	57		
Low-E4 (272) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.36	57		
Low-E4 (272) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.35	0.28	0.44	57		
Low-E4 (272) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.25	0.40	57		
Low-E4 (272) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.36	57		
Low-E4 (272) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.35	0.28	0.44	57		
Low-E4 (272) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.25	0.40	57		
Low-E4 (272) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.36	57		
Low-E4 (272) #2&5 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.29	0.26	0.39	64		
Low-E4 (272) #2&5 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.29	0.24	0.35	64		
Low-E4 (272) #2&5 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.22	0.32	64		
Low-E4 (272) #2&5 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.29	0.25	0.38	64		
Low-E4 (272) #2&5 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.23	0.35	64		
Low-E4 (272) #2&5 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.21	0.31	64		
Low-E4 (272) #2&5 TIG 3mm / 8mm / 3.1mm / 8mm / 3mm	None	0.29	0.25	0.38	64		
Low-E4 (272) #2&5 TIG 3mm / 8mm / 3.1mm / 8mm / 3mm	7/8" CDL (no spacer)	0.29	0.23	0.35	64		
Low-E4 (272) #2&5 TIG 3mm / 8mm / 3.1mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.21	0.31	64		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.32	0.26	0.39	61		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.32	0.24	0.35	61		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.22	0.32	61		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.32	0.25	0.38	61		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.23	0.35	61		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.21	0.31	61		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Low-E4 (272) #2&5 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3mm	None	0.32	0.25	0.38	61		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3mm	7/8" CDL (no spacer)	0.32	0.23	0.35	61		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.21	0.31	61		
SmartSun (366) #2 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.32	0.19	0.40	60		
SmartSun (366) #2 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.32	0.18	0.36	60		
SmartSun (366) #2 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.16	0.33	60		
SmartSun (366) #2 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.32	0.19	0.39	60		
SmartSun (366) #2 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.18	0.36	60		
SmartSun (366) #2 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.16	0.32	60		
SmartSun (366) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.32	0.19	0.39	60		
SmartSun (366) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.18	0.36	60		
SmartSun (366) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.16	0.32	60		
SmartSun (366) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.35	0.19	0.40	57		
SmartSun (366) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.18	0.36	57		
SmartSun (366) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.16	0.33	57		
SmartSun (366) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.35	0.19	0.39	57		
SmartSun (366) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.18	0.36	57		
SmartSun (366) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.16	0.32	57		
SmartSun (366) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.35	0.19	0.39	57		
SmartSun (366) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.18	0.36	57		
SmartSun (366) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.16	0.32	57		

Disclaimer

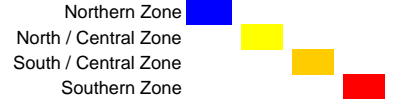
Actual unit performance values will vary depending upon specified design pressure, glass treatment option and unit size. Work with your local Eagle window and door dealer to make sure the product(s) you are ordering meet your specifications.

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



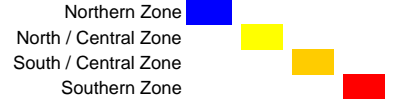
Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	None	0.29	0.33	0.56	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.29	0.30	0.50	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.30	0.50	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.27	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.32	0.27	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.34	0.24	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	None	0.29	0.33	0.56	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.30	0.50	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.30	0.50	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.27	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.32	0.27	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.34	0.24	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	None	0.29	0.33	0.56	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.29	0.30	0.50	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.30	0.50	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.27	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.32	0.27	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.34	0.24	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	None	0.29	0.33	0.56	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.30	0.50	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.30	0.50	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.27	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.32	0.27	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.34	0.24	0.45	57	Blue, Yellow, Orange, Red
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	None	0.30	0.32	0.55	55	Blue, Yellow, Orange, Red
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.30	0.29	0.49	55	Blue, Yellow, Orange, Red
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.32	0.29	0.49	55	Blue, Yellow, Orange, Red
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.26	0.44	55	Blue, Yellow, Orange, Red
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.32	0.26	0.44	55	Blue, Yellow, Orange, Red
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.34	0.26	0.44	55	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.33	0.30	0.50	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.30	0.50	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.36	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.37	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.30	0.50	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.30	0.50	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.37	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.33	0.30	0.50	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.30	0.50	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.36	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.37	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.30	0.50	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.30	0.50	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.37	0.27	0.45	53	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.34	0.29	0.49	51	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.26	0.44	51	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.36	0.26	0.44	51	Blue, Yellow, Orange, Red
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.37	0.26	0.44	51	Blue, Yellow, Orange, Red
Sun145 2.2mm / 11.5mm / 2.2mm	None	0.31	0.28	0.35	56	Blue, Yellow, Orange, Red
Sun145 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.31	0.25	0.32	56	Blue, Yellow, Orange, Red
Sun145 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.25	0.32	56	Blue, Yellow, Orange, Red
Sun145 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.28	56	Blue, Yellow, Orange, Red
Sun145 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.33	0.23	0.28	56	Blue, Yellow, Orange, Red
Sun145 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.35	0.23	0.28	56	Blue, Yellow, Orange, Red
Sun145 3.1mm / 11.5mm / 3.1mm	None	0.31	0.28	0.35	56	Blue, Yellow, Orange, Red
Sun145 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.25	0.32	56	Blue, Yellow, Orange, Red
Sun145 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.25	0.32	56	Blue, Yellow, Orange, Red

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



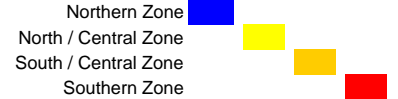
Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
Sun145 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.28	56	
Sun145 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.33	0.23	0.28	56	
Sun145 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.35	0.23	0.28	56	
Sun145 3.9mm / 11.5mm / 3.9mm	None	0.31	0.28	0.35	56	
Sun145 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.25	0.32	56	
Sun145 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.25	0.32	56	
Sun145 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.28	56	
Sun145 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.33	0.23	0.28	56	
Sun145 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.35	0.23	0.28	56	
Sun145 3mm / 11.5mm / 3.1mm	None	0.31	0.28	0.35	56	
Sun145 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.25	0.32	56	
Sun145 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.25	0.32	56	
Sun145 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.28	56	
Sun145 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.33	0.23	0.28	56	
Sun145 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.35	0.23	0.28	56	
Sun145 4.7mm / 9.8mm / 4.7mm	None	0.32	0.27	0.35	54	
Sun145 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.32	0.25	0.31	54	
Sun145 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.25	0.31	54	
Sun145 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.22	0.27	54	
Sun145 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.33	0.22	0.27	54	
Sun145 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.35	0.22	0.27	54	
Sun145 High Altitude 2.2mm / 11.5mm / 2.2mm	None	0.35	0.28	0.35	53	
Sun145 High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.26	0.32	53	
Sun145 High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.26	0.32	53	
Sun145 High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.28	53	
Sun145 High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.37	0.23	0.28	53	
Sun145 High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.38	0.23	0.28	53	
Sun145 High Altitude 3.1mm / 11.5mm / 3.1mm	None	0.35	0.28	0.35	53	
Sun145 High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.26	0.32	53	
Sun145 High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.26	0.32	53	
Sun145 High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.28	53	
Sun145 High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.37	0.23	0.28	53	
Sun145 High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.38	0.23	0.28	53	
Sun145 High Altitude 3.9mm / 11.5mm / 3.9mm	None	0.35	0.28	0.35	53	
Sun145 High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.35	0.26	0.32	53	
Sun145 High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.26	0.32	53	
Sun145 High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.28	53	
Sun145 High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.37	0.23	0.28	53	
Sun145 High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.38	0.23	0.28	53	
Sun145 High Altitude 3mm / 11.5mm / 3.1mm	None	0.35	0.28	0.35	53	
Sun145 High Altitude 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.26	0.32	53	
Sun145 High Altitude 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.26	0.32	53	
Sun145 High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.28	53	
Sun145 High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.37	0.23	0.28	53	
Sun145 High Altitude 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.38	0.23	0.28	53	
Sun145 High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.36	0.25	0.31	51	
Sun145 High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.25	0.31	51	
Sun145 High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.23	0.27	51	
Sun145 High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.37	0.23	0.27	51	
Sun145 High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.38	0.23	0.27	51	
Bronze Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	None	0.29	0.31	0.42	57	
Bronze Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.29	0.28	0.37	57	
Bronze Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.28	0.37	57	
Bronze Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.25	0.33	57	
Bronze Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.32	0.25	0.33	57	
Bronze Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.34	0.25	0.33	57	
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	None	0.29	0.31	0.42	57	
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.28	0.37	57	
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.28	0.37	57	
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.25	0.33	57	
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.32	0.25	0.33	57	
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.34	0.25	0.33	57	
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	None	0.29	0.31	0.42	57	

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



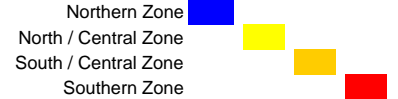
Glass Type			Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
Bronze Low-E4 (272)	3.1mm / 11.5mm / 3mm		7/8" CDL (no spacer)	0.29	0.28	0.37	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	3.1mm / 11.5mm / 3mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.28	0.37	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	3.1mm / 11.5mm / 3mm		1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.25	0.33	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	3.1mm / 11.5mm / 3mm		1 1/8" MDL	0.32	0.25	0.33	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	3.1mm / 11.5mm / 3mm		1 1/2" MDL	0.34	0.25	0.33	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		None	0.29	0.31	0.42	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		7/8" CDL (no spacer)	0.29	0.28	0.37	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.28	0.37	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.25	0.33	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/8" MDL	0.32	0.25	0.33	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/2" MDL	0.34	0.25	0.33	57	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		None	0.30	0.28	0.36	55	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		7/8" CDL (no spacer)	0.30	0.25	0.32	55	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.32	0.25	0.32	55	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.23	0.29	55	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/8" MDL	0.32	0.23	0.29	55	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/2" MDL	0.34	0.23	0.29	55	Blue, Yellow, Orange, Red
2.2mm			7/8" CDL (no spacer)	0.33	0.28	0.37	53	Blue, Yellow, Orange, Red
2.2mm			7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.28	0.37	53	Blue, Yellow, Orange, Red
2.2mm			1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.25	0.33	53	Blue, Yellow, Orange, Red
2.2mm			1 1/8" MDL	0.36	0.25	0.33	53	Blue, Yellow, Orange, Red
2.2mm			1 1/2" MDL	0.37	0.25	0.33	53	Blue, Yellow, Orange, Red
3.1mm			7/8" CDL (no spacer)	0.33	0.28	0.37	53	Blue, Yellow, Orange, Red
3.1mm			7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.28	0.37	53	Blue, Yellow, Orange, Red
3.1mm			1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.25	0.33	53	Blue, Yellow, Orange, Red
3.1mm			1 1/8" MDL	0.36	0.25	0.33	53	Blue, Yellow, Orange, Red
3.1mm			1 1/2" MDL	0.37	0.25	0.33	53	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3mm		7/8" CDL (no spacer)	0.33	0.28	0.37	53	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.28	0.37	53	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3mm		1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.25	0.33	53	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3mm		1 1/8" MDL	0.36	0.25	0.33	53	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 11.5mm / 3mm		1 1/2" MDL	0.37	0.25	0.33	53	Blue, Yellow, Orange, Red
3.9mm			7/8" CDL (no spacer)	0.33	0.28	0.37	53	Blue, Yellow, Orange, Red
3.9mm			7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.28	0.37	53	Blue, Yellow, Orange, Red
3.9mm			1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.25	0.33	53	Blue, Yellow, Orange, Red
3.9mm			1 1/8" MDL	0.36	0.25	0.33	53	Blue, Yellow, Orange, Red
3.9mm			1 1/2" MDL	0.37	0.25	0.33	53	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		None	0.34	0.28	0.36	51	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		7/8" CDL (no spacer)	0.34	0.26	0.32	51	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.26	0.32	51	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.23	0.29	51	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		1 1/8" MDL	0.36	0.23	0.29	51	Blue, Yellow, Orange, Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		1 1/2" MDL	0.37	0.23	0.29	51	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	2.2mm / 11.5mm / 2.2mm		None	0.29	0.30	0.39	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	2.2mm / 11.5mm / 2.2mm		7/8" CDL (no spacer)	0.29	0.27	0.35	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	2.2mm / 11.5mm / 2.2mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.27	0.35	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	2.2mm / 11.5mm / 2.2mm		1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.24	0.31	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	2.2mm / 11.5mm / 2.2mm		1 1/8" MDL	0.32	0.24	0.31	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	2.2mm / 11.5mm / 2.2mm		1 1/2" MDL	0.34	0.24	0.31	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		None	0.29	0.30	0.39	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		7/8" CDL (no spacer)	0.29	0.27	0.35	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.27	0.35	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.24	0.31	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		1 1/8" MDL	0.32	0.24	0.31	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		1 1/2" MDL	0.34	0.24	0.31	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		None	0.29	0.30	0.39	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		7/8" CDL (no spacer)	0.29	0.27	0.35	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.27	0.35	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.24	0.31	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		1 1/8" MDL	0.32	0.24	0.31	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		1 1/2" MDL	0.34	0.24	0.31	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		None	0.29	0.30	0.39	57	Blue, Yellow, Orange, Red
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		7/8" CDL (no spacer)	0.29	0.27	0.35	57	Blue, Yellow, Orange, Red

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



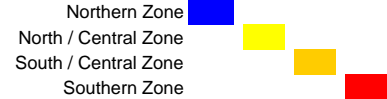
Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Gray Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.27	0.35	57		
Gray Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.24	0.31	57		
Gray Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.32	0.24	0.31	57		
Gray Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.34	0.24	0.31	57		
Gray Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	None	0.30	0.27	0.32	55		
Gray Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.30	0.24	0.29	55		
Gray Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.32	0.24	0.29	55		
Gray Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.22	0.26	55		
Gray Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.32	0.22	0.26	55		
Gray Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.34	0.22	0.26	55		
Gray Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	None	0.33	0.30	0.39	53		
Gray Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.33	0.27	0.35	53		
Gray Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.27	0.35	53		
Gray Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.36	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.37	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	None	0.33	0.30	0.39	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.27	0.35	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.27	0.35	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.37	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3mm	None	0.33	0.30	0.39	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3mm	7/8" CDL (no spacer)	0.33	0.27	0.35	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.27	0.35	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3mm	1 1/8" MDL	0.36	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3mm	1 1/2" MDL	0.37	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	None	0.33	0.30	0.39	53		
Gray Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.33	0.27	0.35	53		
Gray Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.27	0.35	53		
Gray Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.36	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.37	0.25	0.31	53		
Gray Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	None	0.34	0.27	0.32	51		
Gray Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.34	0.24	0.29	51		
Gray Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.24	0.29	51		
Gray Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.22	0.26	51		
Gray Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.36	0.22	0.26	51		
Gray Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.37	0.22	0.26	51		
Low-E 240 2.2mm / 11.5mm / 2.2mm	None	0.30	0.20	0.31	57		
Low-E 240 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.30	0.18	0.28	57		
Low-E 240 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.18	0.28	57		
Low-E 240 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.17	0.25	57		
Low-E 240 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.32	0.23	0.28	57		
Low-E 240 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.34	0.17	0.25	57		
Low-E 240 3.1mm / 11.5mm / 3.1mm	None	0.30	0.20	0.31	57		
Low-E 240 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.30	0.18	0.28	57		
Low-E 240 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.18	0.28	57		
Low-E 240 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.17	0.25	57		
Low-E 240 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.32	0.23	0.28	57		
Low-E 240 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.34	0.17	0.25	57		
Low-E 240 3.9mm / 11.5mm / 3.9mm	None	0.30	0.20	0.31	57		
Low-E 240 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.30	0.18	0.28	57		
Low-E 240 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.18	0.28	57		
Low-E 240 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.17	0.25	57		
Low-E 240 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.32	0.23	0.28	57		
Low-E 240 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.34	0.17	0.25	57		
Low-E 240 3mm / 11.5mm / 3.1mm	None	0.30	0.20	0.31	57		
Low-E 240 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.30	0.18	0.28	57		
Low-E 240 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.18	0.28	57		
Low-E 240 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.17	0.25	57		
Low-E 240 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.32	0.23	0.28	57		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



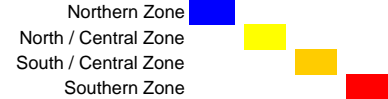
Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Low-E 240 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.34	0.17	0.25	57		
Low-E 240 4.7mm / 9.8mm / 4.7mm	None	0.31	0.20	0.30	55		
Low-E 240 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.31	0.18	0.27	55		
Low-E 240 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.32	0.18	0.27	55		
Low-E 240 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.17	0.24	55		
Low-E 240 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.32	0.17	0.24	55		
Low-E 240 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.34	0.17	0.24	55		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	None	0.34	0.21	0.31	54		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.34	0.19	0.28	54		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.19	0.28	54		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.25	54		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.36	0.23	0.28	54		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.37	0.17	0.25	54		
Low-E 240 High Altitude 3.1mm / 11.5mm / 3.1mm	None	0.34	0.21	0.31	54		
Low-E 240 High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.19	0.28	54		
Low-E 240 High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.19	0.28	54		
Low-E 240 High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.25	54		
Low-E 240 High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.23	0.28	54		
Low-E 240 High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.37	0.17	0.25	54		
Low-E 240 High Altitude 3.9mm / 11.5mm / 3.9mm	None	0.34	0.21	0.31	54		
Low-E 240 High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.34	0.19	0.28	54		
Low-E 240 High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.19	0.28	54		
Low-E 240 High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.25	54		
Low-E 240 High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.36	0.23	0.28	54		
Low-E 240 High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.37	0.17	0.25	54		
Low-E 240 High Altitude 3mm / 11.5mm / 3.1mm	None	0.34	0.21	0.31	54		
Low-E 240 High Altitude 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.19	0.28	54		
Low-E 240 High Altitude 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.19	0.28	54		
Low-E 240 High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.25	54		
Low-E 240 High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.23	0.28	54		
Low-E 240 High Altitude 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.37	0.17	0.25	54		
Low-E 240 High Altitude 4.7mm / 9.8mm / 4.7mm	None	0.35	0.21	0.30	51		
Low-E 240 High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.35	0.19	0.27	51		
Low-E 240 High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.19	0.27	51		
Low-E 240 High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.17	0.24	51		
Low-E 240 High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.37	0.17	0.24	51		
Low-E 240 High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.38	0.17	0.24	51		
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	None	0.29	0.22	0.51	57		
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.29	0.20	0.45	57		
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.20	0.45	57		
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.18	0.40	57		
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.31	0.18	0.40	57		
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.33	0.18	0.40	57		
SmartSun (366) 3.1mm / 11.5mm / 3.1mm	None	0.29	0.22	0.51	57		
SmartSun (366) 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.20	0.45	57		
SmartSun (366) 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.20	0.45	57		
SmartSun (366) 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.18	0.40	57		
SmartSun (366) 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.31	0.18	0.40	57		
SmartSun (366) 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.33	0.18	0.40	57		
SmartSun (366) 3.9mm / 11.5mm / 3.9mm	None	0.29	0.22	0.51	57		
SmartSun (366) 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.29	0.20	0.45	57		
SmartSun (366) 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.20	0.45	57		
SmartSun (366) 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.18	0.40	57		
SmartSun (366) 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.31	0.18	0.40	57		
SmartSun (366) 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.33	0.18	0.40	57		
SmartSun (366) 3mm / 11.5mm / 3.1mm	None	0.29	0.22	0.51	57		
SmartSun (366) 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.20	0.45	57		
SmartSun (366) 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.20	0.45	57		
SmartSun (366) 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.18	0.40	57		
SmartSun (366) 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.31	0.18	0.40	57		
SmartSun (366) 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.33	0.18	0.40	57		
SmartSun (366) 4.7mm / 9.8mm / 4.7mm	None	0.30	0.22	0.50	55		
SmartSun (366) 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.30	0.20	0.44	55		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



	Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.20	0.44	55		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.18	0.39	55		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.31	0.18	0.39	55		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.33	0.18	0.39	55		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	None	0.33	0.22	0.51	54		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.33	0.20	0.45	54		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.20	0.45	54		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.18	0.40	54		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.35	0.18	0.40	54		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.37	0.18	0.40	54		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	None	0.33	0.22	0.51	54		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.20	0.45	54		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.20	0.45	54		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.18	0.40	54		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.35	0.18	0.40	54		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.37	0.18	0.40	54		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	None	0.33	0.22	0.51	54		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.33	0.20	0.45	54		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.20	0.45	54		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.18	0.40	54		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.35	0.18	0.40	54		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.37	0.18	0.40	54		
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	None	0.33	0.22	0.51	54		
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.20	0.45	54		
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.20	0.45	54		
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.18	0.40	54		
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.35	0.18	0.40	54		
SmartSun (366)	High Altitude 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.37	0.18	0.40	54		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	None	0.34	0.23	0.50	51		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.34	0.21	0.44	51		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.21	0.44	51		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.19	0.39	51		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.36	0.19	0.39	51		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.37	0.19	0.39	51		
Low-E4 (272) #2 TIG	2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.27	0.31	0.52	61		
Low-E4 (272) #2 TIG	2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.27	0.28	0.47	61		
Low-E4 (272) #2 TIG	2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.25	0.41	61		
Low-E4 (272) #2 TIG	3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.27	0.31	0.51	61		
Low-E4 (272) #2 TIG	3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.27	0.28	0.46	61		
Low-E4 (272) #2 TIG	3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.25	0.41	61		
Low-E4 (272) #2 TIG	3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.27	0.31	0.51	61		
Low-E4 (272) #2 TIG	3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.27	0.28	0.46	61		
Low-E4 (272) #2 TIG	3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.25	0.41	61		
Low-E4 (272) #2 TIG	High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.30	0.31	0.52	58		
Low-E4 (272) #2 TIG	High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.30	0.28	0.47	58		
Low-E4 (272) #2 TIG	High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.25	0.41	58		
Low-E4 (272) #2 TIG	High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.30	0.31	0.51	58		
Low-E4 (272) #2 TIG	High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.30	0.28	0.46	58		
Low-E4 (272) #2 TIG	High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.25	0.41	58		
Low-E4 (272) #2 TIG	High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.30	0.31	0.51	58		
Low-E4 (272) #2 TIG	High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.30	0.28	0.46	58		
Low-E4 (272) #2 TIG	High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.25	0.41	58		
Low-E4 (272) #2&5 TIG	2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.23	0.28	0.46	65		
Low-E4 (272) #2&5 TIG	2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.23	0.26	0.41	65		
Low-E4 (272) #2&5 TIG	2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.23	0.28	0.46	65		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance

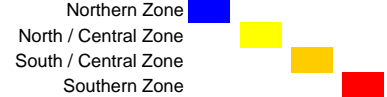


Class Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
Low-E4 (272) #2&5 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.23	0.28	0.45	65	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.23	0.25	0.40	65	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.23	0.23	0.35	65	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3mm / 8mm / 3.1mm / 8mm / 3mm	None	0.23	0.28	0.45	65	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3mm / 8mm / 3.1mm / 8mm / 3mm	7/8" CDL (no spacer)	0.23	0.25	0.40	65	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3mm / 8mm / 3.1mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.23	0.23	0.35	65	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.26	0.28	0.46	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.26	0.26	0.41	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.26	0.23	0.36	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.26	0.28	0.45	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.26	0.25	0.40	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.26	0.23	0.35	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3mm	None	0.26	0.28	0.45	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3mm	7/8" CDL (no spacer)	0.26	0.25	0.40	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.26	0.23	0.35	62	Blue, Yellow, Orange, Red
2.2mm	None	0.27	0.21	0.47	61	Blue, Yellow, Orange, Red
2.2mm	7/8" CDL (no spacer)	0.27	0.19	0.42	61	Blue, Yellow, Orange, Red
2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.17	0.37	61	Blue, Yellow, Orange, Red
3.1mm	None	0.27	0.21	0.46	61	Blue, Yellow, Orange, Red
3.1mm	7/8" CDL (no spacer)	0.27	0.19	0.41	61	Blue, Yellow, Orange, Red
3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.17	0.37	61	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.27	0.21	0.46	61	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.27	0.19	0.41	61	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.17	0.37	61	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.30	0.21	0.47	58	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.30	0.19	0.42	58	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.17	0.37	58	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.30	0.21	0.46	58	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.30	0.19	0.41	58	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.17	0.37	58	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.30	0.21	0.46	58	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.30	0.19	0.41	58	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.30	0.17	0.37	58	Blue, Yellow, Orange, Red

Disclaimer

Actual unit performance values will vary depending upon specified design pressure, glass treatment option and unit size. Work with your local Eagle window and door dealer to make sure the product(s) you are ordering meet your specifications.





U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.29	0.44	54		
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.29	0.44	54		
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.27	0.39	54		
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.36	0.27	0.39	54		
HP Low-E4 (272) 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.37	0.27	0.39	54		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.29	0.43	54		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.29	0.43	54		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.26	0.39	54		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.26	0.39	54		
HP Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.37	0.26	0.39	54		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.29	0.43	54		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.29	0.43	54		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.26	0.39	54		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.26	0.39	54		
HP Low-E4 (272) 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.37	0.26	0.39	54		
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.26	0.38	52		
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.36	0.26	0.38	52		
HP Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.38	0.26	0.38	51		
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.27	0.39	51		
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.39	0.27	0.39	51		
HP Low-E4 (272) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.39	0.27	0.39	50		
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.26	0.39	51		
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.39	0.26	0.39	51		
HP Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.39	0.26	0.39	50		
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.26	0.39	51		
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.39	0.26	0.39	51		
HP Low-E4 (272) High Altitude 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.39	0.26	0.39	50		
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.26	0.38	48		
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.40	0.26	0.38	48		
HP Low-E4 (272) High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.40	0.26	0.38	48		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	None	0.35	0.30	0.36	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.27	0.32	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.27	0.32	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.25	0.29	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL	0.36	0.25	0.29	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.37	0.25	0.29	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	None	0.35	0.30	0.36	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	7/8" CDL (no spacer)	0.35	0.27	0.32	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.27	0.32	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.25	0.29	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	1 1/8" MDL	0.36	0.25	0.29	54		
Bronze Low-E4 (272) 3.1mm / 11.5mm / 3mm	1 1/2" MDL	0.37	0.25	0.29	54		
Bronze Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	None	0.35	0.28	0.34	54		
Bronze Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.35	0.26	0.30	54		
Bronze Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.26	0.30	54		
Bronze Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.27	54		
Bronze Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.36	0.24	0.27	54		
Bronze Low-E4 (272) 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.37	0.24	0.27	54		
Bronze Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	None	0.36	0.27	0.31	52		
Bronze Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.36	0.25	0.28	52		
Bronze Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.25	0.28	52		
Bronze Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.23	0.25	52		
Bronze Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.38	0.23	0.25	51		
Bronze Low-E4 (272) 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.36	0.23	0.25	52		
3.1mm	7/8" CDL (no spacer)	0.38	0.27	0.32	51		
3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.27	0.32	51		
3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.25	0.29	51		
3.1mm	1 1/8" MDL	0.39	0.25	0.29	51		
3.1mm	1 1/2" MDL	0.39	0.25	0.29	50		
Bronze Low-E4 (272) High Altitude 3.1mm / 11.5mm / 3mm	7/8" CDL (no spacer)	0.38	0.27	0.32	51		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance







Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type			Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone	
Bronze Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.27	0.32	51		
Bronze Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.25	0.29	51		
Bronze Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	1 1/8" MDL		0.39	0.25	0.29	51		
Bronze Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	1 1/2" MDL		0.39	0.25	0.29	50		
3.9mm			7/8" CDL (no spacer)		0.38	0.26	0.30	51		
3.9mm			7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.26	0.30	51		
3.9mm			1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.24	0.27	51		
3.9mm			1 1/8" MDL		0.39	0.24	0.27	51		
3.9mm			1 1/2" MDL		0.39	0.24	0.27	50		
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	None		0.39	0.27	0.31	48		
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)		0.39	0.25	0.28	48		
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.40	0.25	0.28	48		
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.23	0.25	48		
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL		0.40	0.23	0.25	48		
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL		0.40	0.23	0.25	48		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		None		0.35	0.29	0.33	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		7/8" CDL (no spacer)		0.35	0.26	0.30	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.26	0.30	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.24	0.27	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		1 1/8" MDL		0.36	0.24	0.27	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3.1mm		1 1/2" MDL		0.37	0.24	0.27	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		None		0.35	0.29	0.33	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		7/8" CDL (no spacer)		0.35	0.26	0.30	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.26	0.30	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.24	0.27	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		1 1/8" MDL		0.36	0.24	0.27	54		
Gray Low-E4 (272)	3.1mm / 11.5mm / 3mm		1 1/2" MDL		0.37	0.24	0.27	54		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		None		0.35	0.27	0.31	54		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		7/8" CDL (no spacer)		0.35	0.23	0.25	54		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.25	0.28	54		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.23	0.25	54		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/8" MDL		0.36	0.23	0.25	54		
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/2" MDL		0.37	0.23	0.25	54		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		None		0.36	0.26	0.28	52		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		7/8" CDL (no spacer)		0.36	0.24	0.25	52		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.36	0.24	0.25	52		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/8" or 1 1/2" CDL (no spacer)		0.36	0.22	0.22	52		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/8" MDL		0.36	0.22	0.22	52		
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/2" MDL		0.38	0.22	0.22	51		
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.38	0.27	0.30	51		
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.27	0.30	51		
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.24	0.27	51		
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3.1mm	1 1/8" MDL		0.39	0.24	0.27	51		
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3.1mm	1 1/2" MDL		0.39	0.24	0.27	50		
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	7/8" CDL (no spacer)		0.38	0.27	0.30	51		
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.27	0.30	51		
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.24	0.27	51		
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	1 1/8" MDL		0.39	0.24	0.27	51		
Gray Low-E4 (272)	High Altitude	3.1mm / 11.5mm / 3mm	1 1/2" MDL		0.39	0.24	0.27	50		
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	None		0.38	0.27	0.31	51		
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)		0.38	0.25	0.28	51		
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.25	0.28	51		
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.23	0.25	51		
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL		0.39	0.23	0.25	51		
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL		0.39	0.23	0.25	50		
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	None		0.39	0.26	0.28	48		
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)		0.39	0.24	0.25	48		
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.40	0.24	0.25	48		
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.22	0.22	48		
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL		0.40	0.22	0.22	48		
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL		0.40	0.22	0.22	48		
Low-E 240	2.2mm / 11.5mm / 2.2mm		None		0.35	0.21	0.27	54		
Low-E 240	2.2mm / 11.5mm / 2.2mm		7/8" CDL (no spacer)		0.35	0.19	0.24	54		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance







Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone	
Low-E 240	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.36	0.19	0.24	54		
Low-E 240	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.18	0.22	54		
Low-E 240	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.36	0.18	0.22	54		
Low-E 240	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.36	0.18	0.22	54		
Low-E 240	3.1mm / 11.5mm / 3.1mm	None		0.35	0.20	0.27	54		
Low-E 240	3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.35	0.19	0.24	54		
Low-E 240	3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.36	0.19	0.24	54		
Low-E 240	3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.18	0.22	54		
Low-E 240	3.1mm / 11.5mm / 3.1mm	1 1/8" MDL		0.36	0.18	0.22	54		
Low-E 240	3.1mm / 11.5mm / 3.1mm	1 1/2" MDL		0.36	0.18	0.22	54		
Low-E 240	3mm / 11.5mm / 3.1mm	None		0.35	0.20	0.27	54		
Low-E 240	3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.35	0.19	0.24	54		
Low-E 240	3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.36	0.19	0.24	54		
Low-E 240	3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.18	0.22	54		
Low-E 240	3mm / 11.5mm / 3.1mm	1 1/8" MDL		0.36	0.18	0.22	54		
Low-E 240	3mm / 11.5mm / 3.1mm	1 1/2" MDL		0.36	0.18	0.22	54		
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	None		0.39	0.21	0.27	50		
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.39	0.19	0.24	50		
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.19	0.24	50		
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.18	0.22	50		
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.39	0.18	0.22	50		
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.39	0.18	0.22	50		
Low-E 240	High Altitude 3.1mm / 11.5mm / 3.1mm	None		0.39	0.21	0.27	50		
Low-E 240	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.39	0.19	0.24	50		
Low-E 240	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.19	0.24	50		
Low-E 240	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.18	0.22	50		
Low-E 240	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL		0.39	0.18	0.22	50		
Low-E 240	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL		0.39	0.18	0.22	50		
Low-E 240	High Altitude 3mm / 11.5mm / 3.1mm	None		0.39	0.21	0.27	50		
Low-E 240	High Altitude 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.39	0.19	0.24	50		
Low-E 240	High Altitude 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.19	0.24	50		
Low-E 240	High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.39	0.18	0.22	50		
Low-E 240	High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" MDL		0.39	0.18	0.22	50		
Low-E 240	High Altitude 3mm / 11.5mm / 3.1mm	1 1/2" MDL		0.39	0.18	0.22	50		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	None		0.35	0.22	0.44	55		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.35	0.20	0.39	55		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.20	0.39	55		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.19	0.35	55		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.35	0.19	0.35	54		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.36	0.19	0.35	54		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	None		0.35	0.22	0.43	55		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.35	0.20	0.39	55		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.20	0.39	55		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.19	0.35	55		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	1 1/8" MDL		0.35	0.19	0.35	54		
SmartSun (366)	3.1mm / 11.5mm / 3.1mm	1 1/2" MDL		0.36	0.19	0.35	54		
SmartSun (366)	3mm / 11.5mm / 3.1mm	None		0.35	0.22	0.43	55		
SmartSun (366)	3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.35	0.20	0.39	55		
SmartSun (366)	3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.20	0.39	55		
SmartSun (366)	3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.19	0.35	55		
SmartSun (366)	3mm / 11.5mm / 3.1mm	1 1/8" MDL		0.35	0.19	0.35	54		
SmartSun (366)	3mm / 11.5mm / 3.1mm	1 1/2" MDL		0.36	0.19	0.35	54		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	None		0.38	0.22	0.44	51		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.38	0.20	0.39	51		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.20	0.39	51		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.19	0.35	51		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.38	0.19	0.35	51		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.39	0.19	0.35	51		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	None		0.38	0.22	0.43	51		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)		0.38	0.20	0.39	51		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.20	0.39	51		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.19	0.35	51		
SmartSun (366)	High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/8" MDL		0.38	0.19	0.35	51		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance







Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
SmartSun (366) High Altitude 3.1mm / 11.5mm / 3.1mm	1 1/2" MDL	0.39	0.19	0.35	51		
SmartSun (366) High Altitude 3mm / 11.5mm / 3.1mm	None	0.38	0.22	0.43	51		
SmartSun (366) High Altitude 3mm / 11.5mm / 3.1mm	7/8" CDL (no spacer)	0.38	0.20	0.39	51		
SmartSun (366) High Altitude 3mm / 11.5mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.20	0.39	51		
SmartSun (366) High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.19	0.35	51		
SmartSun (366) High Altitude 3mm / 11.5mm / 3.1mm	1 1/8" MDL	0.38	0.19	0.35	51		
SmartSun (366) High Altitude 3mm / 11.5mm / 3.1mm	1 1/2" MDL	0.39	0.19	0.35	51		
Clear 090pvb Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.37	0.26	0.38	53		
Clear 090pvb Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.37	0.26	0.38	53		
Clear 090pvb Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.24	0.34	53		
Clear 090pvb Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	1 1/8" MDL	0.38	0.24	0.34	53		
Clear 090pvb Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	1 1/2" MDL	0.38	0.24	0.34	53		
Clear 090pvb Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3mm	7/8" CDL (no spacer)	0.37	0.26	0.38	53		
Clear 090pvb Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.37	0.26	0.38	53		
Clear 090pvb Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.24	0.34	53		
Clear 090pvb Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3mm	1 1/8" MDL	0.38	0.24	0.34	53		
Clear 090pvb Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3mm	1 1/2" MDL	0.38	0.24	0.34	53		
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.41	0.26	0.38	49		
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.41	0.26	0.38	49		
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.41	0.24	0.34	49		
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/8" MDL	0.42	0.24	0.34	49		
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/2" MDL	0.42	0.24	0.34	49		
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3mm	7/8" CDL (no spacer)	0.41	0.26	0.38	49		
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.41	0.26	0.38	49		
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.41	0.24	0.34	49		
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3mm	1 1/8" MDL	0.42	0.24	0.34	49		
Clear 090pvb Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3mm	1 1/2" MDL	0.42	0.24	0.34	49		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.37	0.26	0.38	53		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.37	0.26	0.38	53		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.24	0.34	53		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	1 1/8" MDL	0.38	0.24	0.34	53		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3.1mm	1 1/2" MDL	0.38	0.24	0.34	53		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3mm	7/8" CDL (no spacer)	0.37	0.26	0.38	53		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.37	0.26	0.38	53		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.24	0.34	53		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3mm	1 1/8" MDL	0.38	0.24	0.34	53		
Clear 090sgp Lami Ext. / SmartSun (366) Int. 8.6mm / 8mm / 3mm	1 1/2" MDL	0.38	0.24	0.34	53		

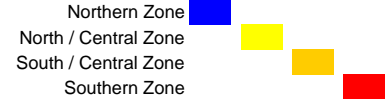
U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.41	0.26	0.38	49		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.41	0.26	0.38	49		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.41	0.24	0.34	49		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/8" MDL	0.42	0.24	0.34	49		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/2" MDL	0.42	0.24	0.34	49		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3mm	7/8" CDL (no spacer)	0.41	0.26	0.38	49		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3mm	7/8 & 5/8 MDL or 5/8 Between -glass Grilles	0.41	0.26	0.38	49		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.41	0.24	0.34	49		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3mm	1 1/8" MDL	0.42	0.24	0.34	49		
Clear 090sgp Lami Ext. / SmartSun (366) Int. High Altitude 8.6mm / 8mm / 3mm	1 1/2" MDL	0.42	0.24	0.34	49		
Low-E4 (272) #2 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.32	0.29	0.45	61		
Low-E4 (272) #2 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.32	0.27	0.40	61		
Low-E4 (272) #2 TIG 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.25	0.36	61		
Low-E4 (272) #2 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.32	0.29	0.44	61		
Low-E4 (272) #2 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.27	0.40	61		
Low-E4 (272) #2 TIG 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.25	0.36	61		
Low-E4 (272) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.32	0.29	0.44	61		
Low-E4 (272) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.27	0.40	61		
Low-E4 (272) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.25	0.36	61		
Low-E4 (272) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.35	0.30	0.45	58		
Low-E4 (272) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.27	0.40	58		
Low-E4 (272) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.25	0.36	58		
Low-E4 (272) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.35	0.29	0.44	58		
Low-E4 (272) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.27	0.40	58		
Low-E4 (272) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.25	0.36	58		
Low-E4 (272) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.35	0.29	0.44	58		
Low-E4 (272) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.27	0.40	58		
Low-E4 (272) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.25	0.36	58		
2.2mm	None	0.28	0.27	0.39	65		
2.2mm	7/8" CDL (no spacer)	0.28	0.25	0.35	65		
2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.23	0.32	65		
3.1mm	None	0.28	0.27	0.38	65		
3.1mm	7/8" CDL (no spacer)	0.28	0.25	0.35	65		
3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.23	0.31	65		
Low-E4 (272) #2&5 TIG 3mm / 8mm / 3.1mm / 8mm / 3mm	None	0.28	0.27	0.38	65		
Low-E4 (272) #2&5 TIG 3mm / 8mm / 3.1mm / 8mm / 3mm	7/8" CDL (no spacer)	0.28	0.25	0.35	65		
Low-E4 (272) #2&5 TIG 3mm / 8mm / 3.1mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.23	0.31	65		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.32	0.27	0.39	62		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.32	0.25	0.35	62		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.23	0.32	62		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.32	0.27	0.38	62		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.25	0.35	62		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance

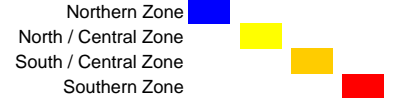


Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR [®]	Zone
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.23	0.31	62		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3mm	None	0.32	0.27	0.38	62		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3mm	7/8" CDL (no spacer)	0.32	0.25	0.35	62		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.23	0.31	62		
2.2mm	None	0.32	0.21	0.40	61		
2.2mm	7/8" CDL (no spacer)	0.32	0.19	0.36	61		
2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.18	0.33	61		
3.1mm	None	0.32	0.20	0.39	61		
3.1mm	7/8" CDL (no spacer)	0.32	0.19	0.36	61		
3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.18	0.32	61		
SmartSun (366) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.32	0.20	0.39	61		
SmartSun (366) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.19	0.36	61		
SmartSun (366) #2 TIG 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.18	0.32	61		
SmartSun (366) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	None	0.35	0.21	0.40	59		
SmartSun (366) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.19	0.36	59		
SmartSun (366) #2 TIG High Altitude 2.2mm / 8mm / 2.2mm / 8mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.18	0.33	59		
SmartSun (366) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.35	0.21	0.39	59		
SmartSun (366) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.19	0.36	59		
SmartSun (366) #2 TIG High Altitude 3.1mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.18	0.32	59		
SmartSun (366) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	None	0.35	0.21	0.39	59		
SmartSun (366) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.19	0.36	59		
SmartSun (366) #2 TIG High Altitude 3mm / 8mm / 3.1mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.18	0.32	59		

Disclaimer

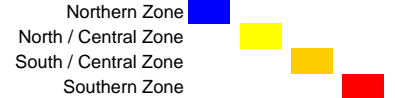
Actual unit performance values will vary depending upon specified design pressure, glass treatment option and unit size. Work with your local Eagle window and door dealer to make sure the product(s) you are ordering meet your specifications.

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



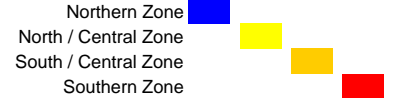
Glass Type		Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone			
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	None	0.32	0.30	0.51	52				
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.32	0.27	0.46	52				
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.27	0.46	52				
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.24	0.40	52				
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.34	0.24	0.40	52				
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.36	0.24	0.40	52				
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	None	0.33	0.30	0.51	51				
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.27	0.45	51				
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.27	0.45	51				
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.24	0.40	51				
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.34	0.24	0.40	51				
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.35	0.24	0.40	51				
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	None	0.33	0.30	0.51	51				
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.27	0.45	51				
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.27	0.45	51				
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.24	0.40	51				
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	1 1/8" MDL	0.34	0.24	0.40	51				
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	1 1/2" MDL	0.35	0.24	0.40	51				
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	None	0.35	0.30	0.51	49				
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.27	0.46	49				
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.27	0.46	49				
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.40	49				
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.38	0.24	0.40	49				
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.39	0.24	0.40	49				
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.37	0.27	0.45	48				
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.27	0.45	48				
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.24	0.40	48				
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.38	0.24	0.40	48				
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.39	0.24	0.40	48				
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.37	0.27	0.45	48				
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.27	0.45	48				
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.24	0.40	48				
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" MDL	0.38	0.24	0.40	48				
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/2" MDL	0.39	0.24	0.40	48				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	None	0.33	0.28	0.38	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.25	0.34	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.25	0.34	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.23	0.29	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.34	0.23	0.29	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.35	0.23	0.29	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	None	0.33	0.28	0.38	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)	0.33	0.25	0.34	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.25	0.34	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.23	0.29	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/8" MDL	0.34	0.23	0.29	51				
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/2" MDL	0.35	0.23	0.29	51				
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.37	0.26	0.34	48				
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.26	0.34	48				
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.23	0.29	48				
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.38	0.23	0.29	48				
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.39	0.23	0.29	48				
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)	0.37	0.26	0.34	48				
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.26	0.34	48				
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.23	0.29	48				
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/8" MDL	0.38	0.23	0.29	48				
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/2" MDL	0.39	0.23	0.29	48				
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	None	0.33	0.27	0.35	51				
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.24	0.31	51				
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.24	0.31	51				
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.22	0.27	51				
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.34	0.22	0.27	51				
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.35	0.22	0.27	51				
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	None	0.33	0.27	0.35	51				

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



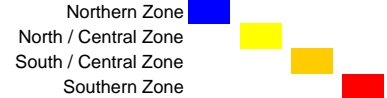
Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)		0.33	0.24	0.31	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.24	0.31	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.22	0.27	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/8" MDL		0.34	0.22	0.27	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/2" MDL		0.35	0.22	0.27	51			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	None		0.37	0.27	0.35	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.37	0.25	0.31	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.25	0.31	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.22	0.27	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.38	0.22	0.27	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.39	0.22	0.27	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	None		0.37	0.27	0.35	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)		0.37	0.25	0.31	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.25	0.31	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.22	0.27	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/8" MDL		0.38	0.22	0.27	48			
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/2" MDL		0.39	0.22	0.27	48			
Low-E 240	2.2mm / 11.5mm / 2.2mm	None		0.32	0.19	0.28	52			
Low-E 240	2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.32	0.17	0.25	52			
Low-E 240	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.17	0.25	52			
Low-E 240	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.15	0.22	52			
Low-E 240	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.34	0.15	0.22	52			
Low-E 240	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.36	0.15	0.22	52			
Low-E 240	3.1mm / 9.8mm / 3.1mm	None		0.33	0.19	0.28	51			
Low-E 240	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.33	0.17	0.25	51			
Low-E 240	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.17	0.25	51			
Low-E 240	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.15	0.22	51			
Low-E 240	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.35	0.15	0.22	51			
Low-E 240	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.36	0.15	0.22	51			
Low-E 240	3mm / 9.8mm / 3.1mm	None		0.33	0.19	0.28	51			
Low-E 240	3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.33	0.17	0.25	51			
Low-E 240	3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.17	0.25	51			
Low-E 240	3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.15	0.22	51			
Low-E 240	3mm / 9.8mm / 3.1mm	1 1/8" MDL		0.35	0.15	0.22	51			
Low-E 240	3mm / 9.8mm / 3.1mm	1 1/2" MDL		0.36	0.15	0.22	51			
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	None		0.36	0.19	0.28	49			
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.36	0.17	0.25	49			
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.17	0.25	49			
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.36	0.15	0.22	49			
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.38	0.15	0.22	49			
Low-E 240	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.39	0.15	0.22	49			
Low-E 240	High Altitude 3.1mm / 9.8mm / 3.1mm	None		0.37	0.19	0.28	48			
Low-E 240	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.37	0.17	0.25	48			
Low-E 240	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.17	0.25	48			
Low-E 240	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.16	0.22	48			
Low-E 240	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.39	0.16	0.22	48			
Low-E 240	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.39	0.16	0.22	48			
Low-E 240	High Altitude 3mm / 9.8mm / 3.1mm	None		0.37	0.19	0.28	48			
Low-E 240	High Altitude 3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.37	0.17	0.25	48			
Low-E 240	High Altitude 3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.17	0.25	48			
Low-E 240	High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.16	0.22	48			
Low-E 240	High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" MDL		0.39	0.16	0.22	48			
Low-E 240	High Altitude 3mm / 9.8mm / 3.1mm	1 1/2" MDL		0.39	0.16	0.22	48			
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	None		0.31	0.20	0.46	52			
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.31	0.18	0.41	52			
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.33	0.18	0.41	52			
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.31	0.16	0.36	52			
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.34	0.16	0.36	52			
SmartSun (366)	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.35	0.16	0.36	52			
SmartSun (366)	3.1mm / 9.8mm / 3.1mm	None		0.32	0.20	0.46	52			
SmartSun (366)	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.32	0.18	0.41	52			
SmartSun (366)	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.33	0.18	0.41	52			
SmartSun (366)	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.16	0.36	52			

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
SmartSun (366) 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.34	0.16	0.36	52		
SmartSun (366) 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.35	0.16	0.36	52		
SmartSun (366) 3mm / 9.8mm / 3.1mm	None	0.32	0.20	0.46	52		
SmartSun (366) 3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.18	0.41	52		
SmartSun (366) 3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.18	0.41	52		
SmartSun (366) 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.16	0.36	52		
SmartSun (366) 3mm / 9.8mm / 3.1mm	1 1/8" MDL	0.34	0.16	0.36	52		
SmartSun (366) 3mm / 9.8mm / 3.1mm	1 1/2" MDL	0.35	0.16	0.36	52		
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	None	0.35	0.20	0.46	50		
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.18	0.41	50		
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.18	0.41	49		
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.16	0.36	50		
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.37	0.16	0.36	49		
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.38	0.16	0.36	49		
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	None	0.36	0.20	0.46	49		
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.36	0.18	0.41	49		
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.18	0.41	49		
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.16	0.36	49		
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.38	0.16	0.36	48		
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.39	0.16	0.36	48		
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	None	0.36	0.20	0.46	49		
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.36	0.18	0.41	49		
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.18	0.41	49		
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.16	0.36	49		
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" MDL	0.38	0.16	0.36	48		
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	1 1/2" MDL	0.39	0.16	0.36	48		
2.2mm	None	0.31	0.28	0.47	57		
2.2mm	7/8" CDL (no spacer)	0.31	0.25	0.42	57		
2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.22	0.37	57		
3.1mm	None	0.31	0.28	0.46	57		
3.1mm	7/8" CDL (no spacer)	0.31	0.25	0.41	57		
3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.22	0.36	57		
Low-E4 (272) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.28	0.46	57		
Low-E4 (272) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.25	0.41	57		
Low-E4 (272) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.22	0.36	57		
Low-E4 (272) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.35	0.28	0.47	54		
Low-E4 (272) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.25	0.42	54		
Low-E4 (272) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.37	54		
Low-E4 (272) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.35	0.28	0.46	54		
Low-E4 (272) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.25	0.41	54		
Low-E4 (272) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.22	0.36	54		
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.35	0.28	0.46	54		
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.25	0.41	54		
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.22	0.36	54		
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.27	0.26	0.41	57		
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.27	0.23	0.37	57		
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.21	0.32	57		
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.27	0.25	0.41	60		
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.27	0.23	0.36	60		
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.20	0.32	60		
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	None	0.27	0.25	0.41	60		
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	7/8" CDL (no spacer)	0.27	0.23	0.36	60		
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.20	0.32	60		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.31	0.26	0.41	60		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT - Visible Light Transmittance
CR - Condensation Resistance







Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.31	0.23	0.37	60		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.21	0.32	60		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.25	0.41	57		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.23	0.36	57		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.20	0.32	57		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	None	0.31	0.25	0.41	57		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	7/8" CDL (no spacer)	0.31	0.23	0.36	57		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.20	0.32	57		
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.31	0.19	0.42	57		
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.31	0.17	0.38	57		
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.15	0.33	57		
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.19	0.42	57		
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.17	0.37	57		
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.15	0.33	57		
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.19	0.42	57		
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.17	0.37	57		
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.15	0.33	57		
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.34	0.19	0.42	54		
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.34	0.17	0.38	54		
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.15	0.33	54		
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.34	0.19	0.42	54		
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.17	0.37	54		
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.15	0.33	54		
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.34	0.19	0.42	54		
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.17	0.37	54		
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.15	0.33	54		

Disclaimer

Actual unit performance values will vary depending upon specified design pressure, glass treatment option and unit size. Work with your local Eagle window and door dealer to make sure the product(s) you are ordering meet your specifications.

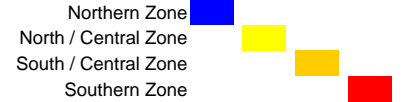
U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

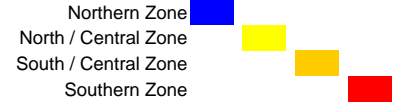
Glass Type		Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	None	0.31	0.32	0.54	57	
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.28	0.48	57	
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.28	0.48	57	
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.25	0.43	57	
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.25	0.43	57	
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.25	0.43	57	
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	None	0.31	0.32	0.54	57	
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.28	0.48	57	
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.28	0.48	57	
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.25	0.43	57	
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.34	0.25	0.43	57	
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.35	0.25	0.43	57	
HP Low-E4 (272)	3mm / 13mm / 3.1mm	None	0.31	0.32	0.54	57	
HP Low-E4 (272)	3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.28	0.48	57	
HP Low-E4 (272)	3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.28	0.48	57	
HP Low-E4 (272)	3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.25	0.43	57	
HP Low-E4 (272)	3mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.25	0.43	57	
HP Low-E4 (272)	3mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.25	0.43	57	
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	None	0.32	0.31	0.53	55	
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.32	0.28	0.47	55	
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.28	0.47	55	
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.25	0.42	55	
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.34	0.25	0.42	55	
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.35	0.25	0.42	55	
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.29	0.48	56	
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.26	0.43	56	
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.26	0.43	56	
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.26	0.43	56	
HP Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.35	0.29	0.48	56	
HP Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.26	0.43	56	
HP Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.37	0.26	0.43	56	
HP Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.38	0.26	0.43	56	
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.29	0.48	56	
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.26	0.43	56	
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.26	0.43	56	
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.26	0.43	56	
HP Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.25	0.42	52	
HP Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.38	0.25	0.42	52	
HP Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.39	0.25	0.42	52	
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	None	0.31	0.30	0.40	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.27	0.36	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.27	0.36	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.24	0.32	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.24	0.32	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.24	0.32	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	None	0.31	0.30	0.40	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	7/8" CDL (no spacer)	0.31	0.27	0.36	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.27	0.36	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.24	0.32	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	1 1/8" MDL	0.34	0.24	0.32	57	
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	1 1/2" MDL	0.35	0.24	0.32	57	
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	None	0.31	0.30	0.40	57	
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.27	0.36	57	
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.27	0.36	57	
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.24	0.32	57	
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.34	0.24	0.32	57	
Bronze Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.35	0.24	0.32	57	
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	None	0.32	0.27	0.35	55	
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.32	0.24	0.31	55	
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.24	0.31	55	
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.22	0.27	55	
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.34	0.22	0.27	55	
Bronze Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.35	0.22	0.27	55	
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	None	0.35	0.30	0.40	56	
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.27	0.36	56	
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.27	0.36	56	

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



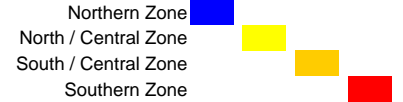
Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone		
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	None	0.35	0.30	0.40	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	7/8" CDL (no spacer)	0.35	0.27	0.36	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.27	0.36	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/8" MDL	0.37	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/2" MDL	0.38	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	None	0.35	0.30	0.40	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.35	0.27	0.36	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.27	0.36	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.37	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.38	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	None	0.36	0.27	0.35	52			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.36	0.24	0.31	52			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.24	0.31	52			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.22	0.27	52			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.38	0.22	0.27	52			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.39	0.22	0.27	52			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		None	0.31	0.29	0.37	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		7/8" CDL (no spacer)	0.31	0.26	0.33	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.26	0.33	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		1 1/8" MDL	0.34	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		1 1/2" MDL	0.35	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		None	0.31	0.29	0.37	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		7/8" CDL (no spacer)	0.31	0.26	0.33	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.26	0.33	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		1 1/8" MDL	0.34	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		1 1/2" MDL	0.35	0.23	0.29	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		None	0.31	0.29	0.37	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		7/8" CDL (no spacer)	0.31	0.26	0.33	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.26	0.33	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.29	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/8" MDL	0.34	0.23	0.29	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/2" MDL	0.35	0.23	0.29	57			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		None	0.32	0.25	0.31	55			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		7/8" CDL (no spacer)	0.32	0.23	0.28	55			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.23	0.28	55			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.21	0.24	55			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/8" MDL	0.34	0.21	0.24	55			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/2" MDL	0.35	0.21	0.24	55			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	None	0.35	0.29	0.37	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.26	0.33	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.26	0.33	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	None	0.35	0.29	0.37	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	7/8" CDL (no spacer)	0.35	0.26	0.33	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.26	0.33	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/8" MDL	0.37	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/2" MDL	0.38	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	None	0.35	0.29	0.37	56			
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.35	0.26	0.33	56			
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.26	0.33	56			
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.38	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.38	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	None	0.36	0.26	0.31	52			
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.36	0.23	0.28	52			
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.23	0.28	52			

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type			Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone			
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.36	0.21	0.24	52				
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL		0.38	0.21	0.24	52				
Gray Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL		0.39	0.21	0.24	52				
Low-E 240	3.1mm / 13mm / 3.1mm		None		0.32	0.19	0.30	57				
Low-E 240	3.1mm / 13mm / 3.1mm		7/8" CDL (no spacer)		0.32	0.17	0.27	57				
Low-E 240	3.1mm / 13mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.33	0.17	0.27	57				
Low-E 240	3.1mm / 13mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.16	0.24	55				
Low-E 240	3.1mm / 13mm / 3.1mm		1 1/8" MDL		0.34	0.16	0.24	57				
Low-E 240	3.1mm / 13mm / 3.1mm		1 1/2" MDL		0.36	0.16	0.24	57				
Low-E 240	3.9mm / 13mm / 3.9mm		None		0.32	0.19	0.30	57				
Low-E 240	3.9mm / 13mm / 3.9mm		7/8" CDL (no spacer)		0.32	0.19	0.30	57				
Low-E 240	3.9mm / 13mm / 3.9mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.33	0.17	0.27	57				
Low-E 240	3.9mm / 13mm / 3.9mm		1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.16	0.24	57				
Low-E 240	3.9mm / 13mm / 3.9mm		1 1/8" MDL		0.34	0.16	0.24	57				
Low-E 240	3.9mm / 13mm / 3.9mm		1 1/2" MDL		0.36	0.16	0.24	57				
Low-E 240	3mm / 13mm / 3.1mm		None		0.32	0.19	0.30	57				
Low-E 240	3mm / 13mm / 3.1mm		7/8" CDL (no spacer)		0.32	0.17	0.27	57				
Low-E 240	3mm / 13mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.33	0.17	0.27	57				
Low-E 240	3mm / 13mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.16	0.24	55				
Low-E 240	3mm / 13mm / 3.1mm		1 1/8" MDL		0.34	0.16	0.24	57				
Low-E 240	3mm / 13mm / 3.1mm		1 1/2" MDL		0.36	0.16	0.24	57				
Low-E 240	4.7mm / 9.8mm / 4.7mm		None		0.32	0.19	0.29	55				
Low-E 240	4.7mm / 9.8mm / 4.7mm		7/8" CDL (no spacer)		0.32	0.17	0.26	55				
Low-E 240	4.7mm / 9.8mm / 4.7mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.17	0.26	55				
Low-E 240	4.7mm / 9.8mm / 4.7mm		1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.16	0.23	55				
Low-E 240	4.7mm / 9.8mm / 4.7mm		1 1/8" MDL		0.34	0.16	0.23	55				
Low-E 240	4.7mm / 9.8mm / 4.7mm		1 1/2" MDL		0.36	0.16	0.23	55				
Low-E 240	High Altitude	3.1mm / 13mm / 3.1mm	None		0.35	0.20	0.30	55				
Low-E 240	High Altitude	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)		0.35	0.18	0.27	55				
Low-E 240	High Altitude	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.37	0.18	0.27	55				
Low-E 240	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.16	0.24	55				
Low-E 240	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" MDL		0.37	0.16	0.24	55				
Low-E 240	High Altitude	3.1mm / 13mm / 3.1mm	1 1/2" MDL		0.39	0.16	0.24	55				
Low-E 240	High Altitude	3.9mm / 11.5mm / 3.9mm	None		0.35	0.20	0.30	55				
Low-E 240	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)		0.35	0.18	0.27	55				
Low-E 240	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.37	0.18	0.27	55				
Low-E 240	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.16	0.24	55				
Low-E 240	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL		0.37	0.16	0.24	55				
Low-E 240	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL		0.39	0.16	0.24	55				
Low-E 240	High Altitude	3mm / 13mm / 3.1mm	None		0.35	0.20	0.30	55				
Low-E 240	High Altitude	3mm / 13mm / 3.1mm	7/8" CDL (no spacer)		0.35	0.18	0.27	55				
Low-E 240	High Altitude	3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.37	0.18	0.27	55				
Low-E 240	High Altitude	3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.16	0.24	55				
Low-E 240	High Altitude	3mm / 13mm / 3.1mm	1 1/8" MDL		0.37	0.16	0.24	55				
Low-E 240	High Altitude	3mm / 13mm / 3.1mm	1 1/2" MDL		0.39	0.16	0.24	55				
Low-E 240	High Altitude	4.7mm / 9.8mm / 4.7mm	None		0.37	0.20	0.29	51				
Low-E 240	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)		0.37	0.18	0.26	51				
Low-E 240	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.18	0.26	51				
Low-E 240	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.16	0.23	51				
Low-E 240	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL		0.38	0.16	0.23	51				
Low-E 240	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL		0.40	0.16	0.23	51				
SmartSun (366)	3.1mm / 13mm / 3.1mm		None		0.31	0.21	0.49	57				
SmartSun (366)	3.1mm / 13mm / 3.1mm		7/8" CDL (no spacer)		0.31	0.19	0.43	57				
SmartSun (366)	3.1mm / 13mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.32	0.19	0.43	57				
SmartSun (366)	3.1mm / 13mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)		0.31	0.17	0.38	57				
SmartSun (366)	3.1mm / 13mm / 3.1mm		1 1/8" MDL		0.33	0.17	0.38	57				
SmartSun (366)	3.1mm / 13mm / 3.1mm		1 1/2" MDL		0.35	0.17	0.38	57				
SmartSun (366)	3.9mm / 11.5mm / 3.9mm		None		0.31	0.21	0.49	57				
SmartSun (366)	3.9mm / 11.5mm / 3.9mm		7/8" CDL (no spacer)		0.31	0.19	0.43	57				
SmartSun (366)	3.9mm / 11.5mm / 3.9mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.32	0.19	0.43	57				
SmartSun (366)	3.9mm / 11.5mm / 3.9mm		1 1/8" or 1 1/2" CDL (no spacer)		0.31	0.17	0.38	57				
SmartSun (366)	3.9mm / 11.5mm / 3.9mm		1 1/8" MDL		0.33	0.17	0.38	57				
SmartSun (366)	3.9mm / 11.5mm / 3.9mm		1 1/2" MDL		0.35	0.17	0.38	57				
SmartSun (366)	3mm / 13mm / 3.1mm		None		0.31	0.21	0.49	57				
SmartSun (366)	3mm / 13mm / 3.1mm		7/8" CDL (no spacer)		0.31	0.19	0.43	57				
SmartSun (366)	3mm / 13mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.32	0.19	0.43	57				





U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type		Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone			
SmartSun (366)	3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.17	0.38	57				
SmartSun (366)	3mm / 13mm / 3.1mm	1 1/8" MDL	0.33	0.17	0.38	57				
SmartSun (366)	3mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.17	0.38	57				
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	None	0.31	0.21	0.48	56				
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.31	0.19	0.43	56				
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.19	0.43	56				
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.17	0.38	56				
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.33	0.17	0.38	56				
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.35	0.17	0.38	56				
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	None	0.34	0.21	0.49	56				
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.19	0.43	56				
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.19	0.43	56				
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.38	56				
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.17	0.38	56				
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.17	0.38	56				
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	None	0.34	0.21	0.49	56				
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.34	0.19	0.43	56				
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.19	0.43	56				
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.38	56				
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.37	0.17	0.38	56				
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.38	0.17	0.38	56				
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	None	0.34	0.21	0.49	56				
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.19	0.43	56				
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.19	0.43	56				
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.38	56				
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.17	0.38	56				
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.17	0.38	56				
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	None	0.36	0.22	0.48	52				
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.36	0.20	0.43	52				
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.20	0.43	52				
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.18	0.38	52				
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.38	0.18	0.38	52				
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.39	0.18	0.38	52				
Low-E4 (272) #2 TIG	2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.31	0.29	0.49	58				
Low-E4 (272) #2 TIG	2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.31	0.26	0.43	58				
Low-E4 (272) #2 TIG	2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.38	58				
Low-E4 (272) #2 TIG	3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.29	0.48	58				
Low-E4 (272) #2 TIG	3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.26	0.43	58				
Low-E4 (272) #2 TIG	3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.38	58				
Low-E4 (272) #2 TIG	3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.31	0.28	0.48	58				
Low-E4 (272) #2 TIG	3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.26	0.42	58				
Low-E4 (272) #2 TIG	3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.37	58				
Low-E4 (272) #2 TIG	3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.29	0.48	58				
Low-E4 (272) #2 TIG	3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.26	0.43	58				
Low-E4 (272) #2 TIG	3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.38	58				
Low-E4 (272) #2 TIG	4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.31	0.28	0.47	58				
Low-E4 (272) #2 TIG	4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.31	0.25	0.42	58				
Low-E4 (272) #2 TIG	4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.37	58				
Low-E4 (272) #2 TIG	High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.34	0.29	0.49	56				
Low-E4 (272) #2 TIG	High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.34	0.26	0.43	56				
Low-E4 (272) #2 TIG	High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.24	0.38	56				
Low-E4 (272) #2 TIG	High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.34	0.29	0.48	56				
Low-E4 (272) #2 TIG	High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.26	0.43	56				
Low-E4 (272) #2 TIG	High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.23	0.38	56				
Low-E4 (272) #2 TIG	High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.34	0.29	0.48	56				
Low-E4 (272) #2 TIG	High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.34	0.26	0.42	56				
Low-E4 (272) #2 TIG	High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.23	0.37	56				

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance





























Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.34	0.29	0.48	56	
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.26	0.43	56	
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.23	0.38	56	
Low-E4 (272) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.34	0.28	0.47	56	
Low-E4 (272) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.34	0.25	0.42	56	
Low-E4 (272) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.23	0.37	56	
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.27	0.27	0.43	58	
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.27	0.24	0.38	58	
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.22	0.33	58	
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.27	0.26	0.42	58	
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.27	0.24	0.37	58	
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.21	0.33	58	
Low-E4 (272) #2&5 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.27	0.26	0.42	58	
Low-E4 (272) #2&5 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.27	0.24	0.37	58	
Low-E4 (272) #2&5 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.21	0.33	58	
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	None	0.27	0.26	0.42	58	
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	7/8" CDL (no spacer)	0.27	0.24	0.37	58	
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.21	0.33	58	
Low-E4 (272) #2&5 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.27	0.26	0.41	58	
Low-E4 (272) #2&5 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.27	0.23	0.36	58	
Low-E4 (272) #2&5 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.21	0.32	58	
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.31	0.27	0.43	58	
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.31	0.24	0.38	58	
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.22	0.33	58	
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.26	0.42	58	
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.24	0.37	58	
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.21	0.33	58	
Low-E4 (272) #2&5 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.31	0.26	0.42	58	
Low-E4 (272) #2&5 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.24	0.37	58	
Low-E4 (272) #2&5 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.21	0.33	58	
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	None	0.31	0.26	0.42	58	
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	7/8" CDL (no spacer)	0.31	0.24	0.37	58	
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.21	0.33	58	
Low-E4 (272) #2&5 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.31	0.26	0.41	58	
Low-E4 (272) #2&5 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.31	0.23	0.36	58	
Low-E4 (272) #2&5 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.21	0.32	58	
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.31	0.20	0.44	58	
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.31	0.18	0.39	58	
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.16	0.34	58	
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.19	0.43	58	
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.18	0.38	58	
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.16	0.34	58	
SmartSun (366) #2 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.31	0.19	0.43	58	
SmartSun (366) #2 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.18	0.38	58	

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



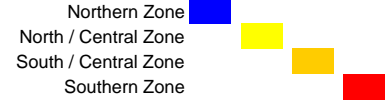
Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
SmartSun (366) #2 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.16	0.34	58	
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.19	0.43	58	
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.18	0.38	58	
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.16	0.34	58	
SmartSun (366) #2 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.31	0.19	0.42	58	
SmartSun (366) #2 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.31	0.18	0.37	58	
SmartSun (366) #2 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.16	0.33	58	
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.34	0.20	0.44	57	
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.34	0.18	0.39	57	
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.16	0.34	57	
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.34	0.20	0.43	57	
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.18	0.38	57	
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.16	0.34	57	
SmartSun (366) #2 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.34	0.20	0.43	57	
SmartSun (366) #2 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.34	0.18	0.38	57	
SmartSun (366) #2 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.16	0.34	57	
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.34	0.20	0.43	57	
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.18	0.38	57	
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.16	0.34	57	
SmartSun (366) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.34	0.20	0.42	57	
SmartSun (366) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.34	0.18	0.37	57	
SmartSun (366) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.16	0.33	57	

Disclaimer

Actual unit performance values will vary depending upon specified design pressure, glass treatment option and unit size. Work with your local Eagle window and door dealer to make sure the product(s) you are ordering meet your specifications.





U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type		Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	None	0.31	0.32	0.54	57		
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.28	0.48	57		
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.28	0.48	57		
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.25	0.43	57		
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.25	0.43	57		
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.25	0.43	57		
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	None	0.31	0.32	0.54	57		
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.28	0.48	57		
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.28	0.48	57		
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.25	0.43	57		
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.34	0.25	0.43	57		
HP Low-E4 (272)	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.35	0.25	0.43	57		
HP Low-E4 (272)	3mm / 13mm / 3.1mm	None	0.31	0.32	0.54	57		
HP Low-E4 (272)	3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.28	0.48	57		
HP Low-E4 (272)	3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.28	0.48	57		
HP Low-E4 (272)	3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.25	0.43	57		
HP Low-E4 (272)	3mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.25	0.43	57		
HP Low-E4 (272)	3mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.25	0.43	57		
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	None	0.32	0.31	0.53	55		
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.32	0.28	0.48	55		
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.28	0.48	55		
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.25	0.42	55		
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.34	0.25	0.42	55		
HP Low-E4 (272)	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.35	0.25	0.42	55		
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.29	0.48	56		
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.26	0.43	56		
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.26	0.43	56		
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.26	0.43	56		
HP Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.35	0.29	0.48	56		
HP Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.26	0.43	56		
HP Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.37	0.26	0.43	56		
HP Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.38	0.26	0.43	56		
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.29	0.48	56		
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.26	0.43	56		
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.26	0.43	56		
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.26	0.43	56		
HP Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.25	0.42	51		
HP Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.38	0.25	0.42	51		
HP Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.39	0.25	0.42	51		
Sun145	3.1mm / 13mm / 3.1mm	None	0.33	0.27	0.34	57		
Sun145	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.24	0.30	57		
Sun145	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.24	0.30	57		
Sun145	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.22	0.27	57		
Sun145	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.35	0.22	0.27	57		
Sun145	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.37	0.22	0.27	57		
Sun145	3.9mm / 11.5mm / 3.9mm	None	0.33	0.27	0.34	57		
Sun145	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.33	0.24	0.30	57		
Sun145	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.24	0.30	57		
Sun145	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.22	0.27	57		
Sun145	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.35	0.22	0.27	57		
Sun145	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.37	0.22	0.27	57		
Sun145	3mm / 13mm / 3.1mm	None	0.33	0.27	0.34	57		
Sun145	3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.24	0.30	57		
Sun145	3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.24	0.30	57		
Sun145	3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.22	0.27	57		
Sun145	3mm / 13mm / 3.1mm	1 1/8" MDL	0.35	0.22	0.27	57		
Sun145	3mm / 13mm / 3.1mm	1 1/2" MDL	0.37	0.22	0.27	57		
Sun145	4.7mm / 9.8mm / 4.7mm	None	0.34	0.26	0.34	54		
Sun145	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.34	0.24	0.30	54		
Sun145	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.24	0.30	54		
Sun145	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.21	0.26	54		
Sun145	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.35	0.21	0.26	54		
Sun145	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.37	0.21	0.26	54		

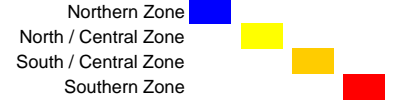
U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

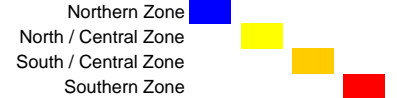
Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone		
Sun145	High Altitude	3.1mm / 13mm / 3.1mm	None	0.36	0.27	0.34	54			
Sun145	High Altitude	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.36	0.24	0.30	54			
Sun145	High Altitude	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.24	0.30	54			
Sun145	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.22	0.27	54			
Sun145	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.38	0.22	0.27	54			
Sun145	High Altitude	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.40	0.22	0.27	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	None	0.36	0.27	0.34	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	None	0.36	0.27	0.34	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.36	0.24	0.30	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.36	0.24	0.30	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.24	0.30	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.24	0.30	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.22	0.27	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.22	0.27	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.38	0.22	0.27	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.38	0.22	0.27	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.40	0.22	0.27	54			
Sun145	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.40	0.22	0.27	54			
Sun145	High Altitude	3mm / 13mm / 3.1mm	None	0.36	0.27	0.34	54			
Sun145	High Altitude	3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.36	0.24	0.30	54			
Sun145	High Altitude	3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.24	0.30	54			
Sun145	High Altitude	3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.22	0.27	54			
Sun145	High Altitude	3mm / 13mm / 3.1mm	1 1/8" MDL	0.38	0.22	0.27	54			
Sun145	High Altitude	3mm / 13mm / 3.1mm	1 1/2" MDL	0.40	0.22	0.27	54			
Sun145	High Altitude	4.7mm / 9.8mm / 4.7mm	None	0.38	0.27	0.34	50			
Sun145	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.38	0.24	0.30	50			
Sun145	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.24	0.30	50			
Sun145	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.22	0.26	50			
Sun145	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.39	0.22	0.26	50			
Sun145	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.40	0.22	0.26	50			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	None	0.31	0.30	0.40	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.27	0.36	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.27	0.36	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.24	0.32	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.24	0.32	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.24	0.32	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	None	0.31	0.30	0.40	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	7/8" CDL (no spacer)	0.31	0.27	0.36	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.27	0.36	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.24	0.32	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/8" MDL	0.34	0.24	0.32	57			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/2" MDL	0.35	0.24	0.32	57			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	None	0.31	0.30	0.40	57			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.27	0.36	57			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.27	0.36	57			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.24	0.32	57			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.34	0.24	0.32	57			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.35	0.24	0.32	57			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	None	0.32	0.27	0.35	55			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.32	0.24	0.31	55			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.24	0.31	55			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.22	0.27	55			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.34	0.22	0.27	55			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.35	0.22	0.27	55			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	None	0.35	0.30	0.40	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.27	0.36	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.27	0.36	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	None	0.35	0.30	0.40	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	7/8" CDL (no spacer)	0.35	0.27	0.36	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.27	0.36	56			

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



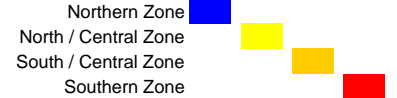
Glass Type			Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone		
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/8" MDL		0.37	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.1mm / 13mm / 3mm	1 1/2" MDL		0.38	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	None		0.35	0.30	0.40	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)		0.35	0.27	0.36	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.37	0.27	0.36	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL		0.37	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL		0.38	0.24	0.32	56			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	None		0.36	0.27	0.35	51			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)		0.36	0.24	0.31	51			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.24	0.31	51			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.36	0.22	0.27	51			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL		0.38	0.22	0.27	51			
Bronze Low-E4 (272)	High Altitude	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL		0.39	0.22	0.27	51			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		None		0.31	0.29	0.37	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		7/8" CDL (no spacer)		0.31	0.26	0.33	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.33	0.26	0.33	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)		0.31	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		1 1/8" MDL		0.34	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm		1 1/2" MDL		0.35	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		None		0.31	0.29	0.37	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		7/8" CDL (no spacer)		0.31	0.26	0.33	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.33	0.26	0.33	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		1 1/8" or 1 1/2" CDL (no spacer)		0.31	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		1 1/8" MDL		0.34	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		1 1/2" MDL		0.35	0.23	0.29	57			
Gray Low-E4 (272)	3.1mm / 13mm / 3mm		None		0.31	0.29	0.37	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		7/8" CDL (no spacer)		0.31	0.26	0.33	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.33	0.26	0.33	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/8" or 1 1/2" CDL (no spacer)		0.31	0.23	0.29	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/8" MDL		0.34	0.23	0.29	57			
Gray Low-E4 (272)	3.9mm / 11.5mm / 3.9mm		1 1/2" MDL		0.35	0.23	0.29	57			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		None		0.32	0.25	0.31	55			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		7/8" CDL (no spacer)		0.32	0.23	0.28	55			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.33	0.23	0.26	55			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.21	0.24	55			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/8" MDL		0.34	0.21	0.24	55			
Gray Low-E4 (272)	4.7mm / 9.8mm / 4.7mm		1 1/2" MDL		0.35	0.21	0.24	55			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm		None		0.35	0.29	0.37	56			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm		7/8" CDL (no spacer)		0.35	0.26	0.33	56			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.37	0.26	0.33	53			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm		1 1/8" MDL		0.37	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm		1 1/2" MDL		0.38	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3mm		None		0.35	0.29	0.37	56			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3mm		7/8" CDL (no spacer)		0.35	0.26	0.33	56			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.37	0.26	0.33	53			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3mm		1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3mm		1 1/8" MDL		0.37	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude 3.1mm / 13mm / 3mm		1 1/2" MDL		0.38	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm		None		0.35	0.29	0.37	56			
Gray Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm		7/8" CDL (no spacer)		0.35	0.26	0.33	56			
Gray Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.37	0.26	0.33	56			
Gray Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm		1 1/8" or 1 1/2" CDL (no spacer)		0.35	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm		1 1/8" MDL		0.37	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude 3.9mm / 11.5mm / 3.9mm		1 1/2" MDL		0.38	0.23	0.29	56			
Gray Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		None		0.36	0.26	0.31	51			
Gray Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		7/8" CDL (no spacer)		0.36	0.23	0.28	51			
Gray Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.23	0.28	51			
Gray Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		1 1/8" or 1 1/2" CDL (no spacer)		0.36	0.21	0.24	51			
Gray Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		1 1/8" MDL		0.38	0.21	0.24	51			
Gray Low-E4 (272)	High Altitude 4.7mm / 9.8mm / 4.7mm		1 1/2" MDL		0.39	0.21	0.24	51			

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type		Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone				
Low-E 240	3.1mm / 13mm / 3.1mm	None	0.32	0.19	0.30	57					
Low-E 240	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.17	0.27	57					
Low-E 240	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.17	0.27	57					
Low-E 240	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.16	0.24	57					
Low-E 240	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.16	0.24	57					
Low-E 240	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.36	0.16	0.24	57					
Low-E 240	3.9mm / 13mm / 3.9mm	None	0.32	0.19	0.30	57					
Low-E 240	3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.32	0.17	0.27	57					
Low-E 240	3.9mm / 13mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.17	0.27	57					
Low-E 240	3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.16	0.24	57					
Low-E 240	3.9mm / 13mm / 3.9mm	1 1/8" MDL	0.34	0.16	0.24	57					
Low-E 240	3.9mm / 13mm / 3.9mm	1 1/2" MDL	0.36	0.16	0.24	57					
Low-E 240	3mm / 13mm / 3.1mm	None	0.32	0.19	0.30	57					
Low-E 240	3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.17	0.27	57					
Low-E 240	3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.17	0.27	57					
Low-E 240	3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.16	0.24	57					
Low-E 240	3mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.16	0.24	57					
Low-E 240	3mm / 13mm / 3.1mm	1 1/2" MDL	0.36	0.16	0.24	57					
Low-E 240	4.7mm / 9.8mm / 4.7mm	None	0.32	0.19	0.29	55					
Low-E 240	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.32	0.17	0.26	55					
Low-E 240	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.17	0.26	55					
Low-E 240	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.16	0.23	55					
Low-E 240	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.34	0.16	0.23	55					
Low-E 240	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.36	0.16	0.23	55					
Low-E 240	High Altitude 3.1mm / 13mm / 3.1mm	None	0.35	0.20	0.30	55					
Low-E 240	High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.18	0.27	55					
Low-E 240	High Altitude 3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.18	0.27	55					
Low-E 240	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.16	0.24	55					
Low-E 240	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.16	0.24	55					
Low-E 240	High Altitude 3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.39	0.16	0.24	55					
Low-E 240	High Altitude 3.9mm / 11.5mm / 3.9mm	None	0.35	0.20	0.30	55					
Low-E 240	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.35	0.18	0.27	55					
Low-E 240	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.18	0.27	55					
Low-E 240	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.16	0.24	55					
Low-E 240	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.37	0.16	0.24	55					
Low-E 240	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.39	0.16	0.24	55					
Low-E 240	High Altitude 3mm / 13mm / 3.1mm	None	0.35	0.20	0.30	55					
Low-E 240	High Altitude 3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.18	0.27	55					
Low-E 240	High Altitude 3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.18	0.27	55					
Low-E 240	High Altitude 3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.16	0.24	55					
Low-E 240	High Altitude 3mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.16	0.24	55					
Low-E 240	High Altitude 3mm / 13mm / 3.1mm	1 1/2" MDL	0.39	0.16	0.24	55					
Low-E 240	High Altitude 4.7mm / 9.8mm / 4.7mm	None	0.37	0.20	0.18	51					
Low-E 240	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.37	0.18	0.26	51					
Low-E 240	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.18	0.26	51					
Low-E 240	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.16	0.23	51					
Low-E 240	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.39	0.16	0.23	51					
Low-E 240	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.40	0.16	0.23	51					
SmartSun (366)	3.1mm / 13mm / 3.1mm	None	0.31	0.21	0.49	57					
SmartSun (366)	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.19	0.44	57					
SmartSun (366)	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.32	0.19	0.44	57					
SmartSun (366)	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.17	0.38	57					
SmartSun (366)	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.33	0.17	0.04	57					
SmartSun (366)	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.17	0.38	57					
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	None	0.31	0.21	0.49	57					
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.19	0.44	57					
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.32	0.19	0.44	57					
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.17	0.38	57					
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.33	0.17	0.38	57					
SmartSun (366)	3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.35	0.17	0.38	57					
SmartSun (366)	3mm / 13mm / 3.1mm	None	0.31	0.21	0.49	57					
SmartSun (366)	3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.19	0.44	57					
SmartSun (366)	3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.32	0.19	0.44	57					





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SHGC - Solar Heat Gain Coefficient
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	Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
SmartSun (366)	3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.17	0.38	57		
SmartSun (366)	3mm / 13mm / 3.1mm	1 1/8" MDL	0.33	0.17	0.04	57		
SmartSun (366)	3mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.17	0.38	57		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	None	0.31	0.21	0.48	56		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.31	0.19	0.43	56		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.33	0.19	0.43	56		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.17	0.38	56		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.33	0.17	0.38	56		
SmartSun (366)	4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.35	0.17	0.38	56		
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	None	0.34	0.21	0.49	56		
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.19	0.44	56		
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.19	0.44	56		
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.38	56		
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.17	0.38	56		
SmartSun (366)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.17	0.38	56		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	None	0.34	0.21	0.49	56		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" CDL (no spacer)	0.34	0.19	0.44	56		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.19	0.44	56		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.38	56		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/8" MDL	0.37	0.17	0.38	56		
SmartSun (366)	High Altitude 3.9mm / 11.5mm / 3.9mm	1 1/2" MDL	0.38	0.17	0.38	56		
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	None	0.34	0.21	0.49	56		
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.19	0.44	56		
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.19	0.44	56		
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.38	56		
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	1 1/8" MDL	0.37	0.17	0.38	56		
SmartSun (366)	High Altitude 3mm / 13mm / 3.1mm	1 1/2" MDL	0.38	0.17	0.38	56		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	None	0.36	0.22	0.48	52		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" CDL (no spacer)	0.36	0.20	0.43	52		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.20	0.43	52		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.18	0.38	52		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/8" MDL	0.38	0.18	0.38	52		
SmartSun (366)	High Altitude 4.7mm / 9.8mm / 4.7mm	1 1/2" MDL	0.39	0.18	0.38	52		
Low-E4 (272) #2 TIG	2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.31	0.30	0.51	57		
Low-E4 (272) #2 TIG	2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.31	0.27	0.45	57		
Low-E4 (272) #2 TIG	2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.24	0.40	57		
Low-E4 (272) #2 TIG	3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.30	0.50	57		
Low-E4 (272) #2 TIG	3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.27	0.45	57		
Low-E4 (272) #2 TIG	3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.24	0.39	57		
Low-E4 (272) #2 TIG	3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.31	0.29	0.49	57		
Low-E4 (272) #2 TIG	3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.26	0.44	57		
Low-E4 (272) #2 TIG	3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.24	0.39	57		
Low-E4 (272) #2 TIG	3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.30	0.50	57		
Low-E4 (272) #2 TIG	3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.27	0.45	57		
Low-E4 (272) #2 TIG	3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.24	0.39	57		
Low-E4 (272) #2 TIG	4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.31	0.29	0.49	57		
Low-E4 (272) #2 TIG	4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.31	0.26	0.43	57		
Low-E4 (272) #2 TIG	4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.23	0.38	57		
Low-E4 (272) #2 TIG	High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.35	0.30	0.51	56		
Low-E4 (272) #2 TIG	High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.27	0.45	56		
Low-E4 (272) #2 TIG	High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.40	56		
Low-E4 (272) #2 TIG	High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.35	0.30	0.50	56		
Low-E4 (272) #2 TIG	High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.27	0.45	56		
Low-E4 (272) #2 TIG	High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.39	56		
Low-E4 (272) #2 TIG	High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.35	0.29	0.49	56		
Low-E4 (272) #2 TIG	High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.35	0.26	0.44	56		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Low-E4 (272) #2 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.39	56		
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.35	0.30	0.50	56		
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.27	0.45	56		
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.39	56		
Low-E4 (272) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.35	0.29	0.49	56		
Low-E4 (272) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.35	0.26	0.43	56		
Low-E4 (272) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.24	0.38	56		
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.27	0.27	0.44	57		
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.27	0.25	0.40	57		
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.22	0.35	57		
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.27	0.27	0.44	57		
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.27	0.25	0.39	57		
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.22	0.34	57		
Low-E4 (272) #2&5 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.27	0.27	0.43	57		
Low-E4 (272) #2&5 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.27	0.24	0.38	57		
Low-E4 (272) #2&5 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.22	0.34	57		
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	None	0.27	0.27	0.44	57		
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	7/8" CDL (no spacer)	0.27	0.25	0.39	57		
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.22	0.34	57		
Low-E4 (272) #2&5 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.27	0.27	0.43	57		
Low-E4 (272) #2&5 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.27	0.24	0.38	57		
Low-E4 (272) #2&5 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.27	0.22	0.33	57		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.31	0.28	0.44	57		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.31	0.25	0.40	57		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.22	0.35	57		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.27	0.44	57		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.25	0.39	57		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.22	0.34	57		
Low-E4 (272) #2&5 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.31	0.27	0.43	57		
Low-E4 (272) #2&5 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.24	0.38	57		
Low-E4 (272) #2&5 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.22	0.34	57		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	None	0.31	0.27	0.44	57		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	7/8" CDL (no spacer)	0.31	0.25	0.39	57		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.22	0.34	57		
Low-E4 (272) #2&5 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.31	0.27	0.43	57		
Low-E4 (272) #2&5 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.31	0.24	0.38	57		
Low-E4 (272) #2&5 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.22	0.33	57		
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.31	0.20	0.46	57		
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.31	0.18	0.41	57		
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.16	0.36	57		
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.20	0.45	57		
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.18	0.40	57		
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.16	0.35	57		
SmartSun (366) #2 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.31	0.20	0.45	57		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
SmartSun (366) #2 TIG 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.31	0.18	0.40	57		
SmartSun (366) #2 TIG 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.16	0.35	57		
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.31	0.20	0.45	57		
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.31	0.18	0.40	57		
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.16	0.35	57		
SmartSun (366) #2 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.31	0.20	0.44	57		
SmartSun (366) #2 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.31	0.18	0.39	57		
SmartSun (366) #2 TIG 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.31	0.16	0.35	57		
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.34	0.20	0.46	56		
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.34	0.18	0.41	56		
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.36	56		
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.34	0.20	0.45	56		
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.18	0.40	56		
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.35	56		
SmartSun (366) #2 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	None	0.34	0.20	0.45	56		
SmartSun (366) #2 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	7/8" CDL (no spacer)	0.34	0.18	0.40	56		
SmartSun (366) #2 TIG High Altitude 3.9mm / 6.5mm / 3.9mm / 6.5mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.35	56		
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.34	0.20	0.45	56		
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.18	0.40	56		
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.35	56		
SmartSun (366) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	None	0.34	0.20	0.44	56		
SmartSun (366) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	7/8" CDL (no spacer)	0.34	0.18	0.39	56		
SmartSun (366) #2 TIG High Altitude 4.7mm / 6.5mm / 4.7mm / 6.5mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.17	0.35	56		

Disclaimer

Actual unit performance values will vary depending upon specified design pressure, glass treatment option and unit size. Work with your local Eagle window and door dealer to make sure the product(s) you are ordering meet your specifications.

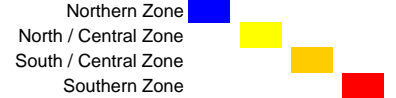


Talon® RetroFit Double-Hung

3050 Tested Size at DP 40

Series 07 Clad Talon Double Hung Retrofit





U-Factor - Rate of Heat Loss = 1/R
 SHGC - Solar Heat Gain Coefficient
 VLT- Visible Light Transmittance
 CR - Condensation Resistance



Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone		
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	None		0.33	0.30	0.51	52			
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.33	0.27	0.46	52			
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.27	0.46	52			
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.24	0.40	52			
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.35	0.24	0.40	52			
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.36	0.24	0.40	52			
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	None		0.33	0.30	0.51	51			
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.33	0.27	0.45	51			
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.27	0.45	51			
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.24	0.40	51			
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.35	0.24	0.40	51			
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.36	0.24	0.40	51			
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	None		0.33	0.30	0.51	51			
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.33	0.27	0.45	51			
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.27	0.45	51			
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.24	0.40	51			
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	1 1/8" MDL		0.35	0.24	0.40	51			
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	1 1/2" MDL		0.36	0.24	0.40	51			
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.36	0.27	0.46	49			
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.27	0.46	49			
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.36	0.24	0.40	49			
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.38	0.24	0.40	49			
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.40	0.24	0.40	49			
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.37	0.27	0.45	48			
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.27	0.45	48			
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.24	0.40	48			
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.39	0.24	0.40	48			
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.40	0.24	0.40	48			
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.37	0.27	0.45	48			
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.27	0.45	48			
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.24	0.40	48			
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" MDL		0.39	0.24	0.40	48			
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/2" MDL		0.40	0.24	0.40	48			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	None		0.33	0.28	0.38	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.33	0.25	0.34	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.25	0.34	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.23	0.29	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.35	0.23	0.29	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.36	0.23	0.29	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	None		0.33	0.28	0.38	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)		0.33	0.25	0.34	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.25	0.34	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.23	0.29	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/8" MDL		0.35	0.23	0.29	51			
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/2" MDL		0.36	0.23	0.29	51			
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.37	0.26	0.34	48			
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.26	0.34	48			
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.23	0.29	48			
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.39	0.23	0.29	48			
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.40	0.23	0.29	48			
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)		0.37	0.26	0.34	48			
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.26	0.34	48			
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.23	0.29	48			
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/8" MDL		0.39	0.23	0.29	48			
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/2" MDL		0.40	0.23	0.29	48			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	None		0.33	0.27	0.35	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.33	0.24	0.31	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.24	0.31	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.22	0.27	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.35	0.22	0.27	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.36	0.22	0.27	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	None		0.33	0.27	0.35	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)		0.33	0.24	0.31	51			
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.24	0.31	51			

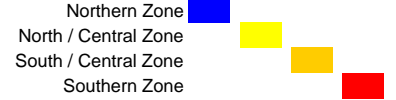
U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Northern Zone 
North / Central Zone 
South / Central Zone 
Southern Zone 

Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Gray Low-E4 (272) 3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.22	0.27	51		
Gray Low-E4 (272) 3.1mm / 9.8mm / 3mm	1 1/8" MDL	0.35	0.22	0.27	51		
Gray Low-E4 (272) 3.1mm / 9.8mm / 3mm	1 1/2" MDL	0.36	0.22	0.27	51		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3.1mm	None	0.37	0.27	0.35	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.37	0.25	0.31	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.25	0.31	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.22	0.27	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.39	0.22	0.27	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.40	0.22	0.27	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3mm	None	0.37	0.27	0.35	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)	0.37	0.25	0.31	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.25	0.31	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.22	0.27	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3mm	1 1/8" MDL	0.39	0.22	0.27	48		
Gray Low-E4 (272) High Altitude 3.1mm / 9.8mm / 3mm	1 1/2" MDL	0.40	0.22	0.27	48		
Low-E 240 2.2mm / 11.5mm / 2.2mm	None	0.33	0.19	0.28	52		
Low-E 240 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.33	0.17	0.25	52		
Low-E 240 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.17	0.25	52		
Low-E 240 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.15	0.22	52		
Low-E 240 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.35	0.15	0.22	52		
Low-E 240 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.37	0.15	0.22	52		
Low-E 240 3.1mm / 9.8mm / 3.1mm	None	0.34	0.19	0.28	51		
Low-E 240 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.17	0.25	51		
Low-E 240 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.17	0.25	51		
Low-E 240 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.15	0.22	51		
Low-E 240 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.35	0.15	0.22	51		
Low-E 240 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.36	0.15	0.22	51		
Low-E 240 3mm / 9.8mm / 3.1mm	None	0.34	0.19	0.28	51		
Low-E 240 3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.34	0.17	0.25	51		
Low-E 240 3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.17	0.25	51		
Low-E 240 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.15	0.22	51		
Low-E 240 3mm / 9.8mm / 3.1mm	1 1/8" MDL	0.35	0.15	0.22	51		
Low-E 240 3mm / 9.8mm / 3.1mm	1 1/2" MDL	0.36	0.15	0.22	51		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	None	0.36	0.19	0.28	49		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.36	0.17	0.25	49		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.17	0.25	49		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.15	0.22	49		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.39	0.15	0.22	49		
Low-E 240 High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.40	0.15	0.22	49		
Low-E 240 High Altitude 3.1mm / 9.8mm / 3.1mm	None	0.38	0.19	0.28	48		
Low-E 240 High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.38	0.17	0.25	48		
Low-E 240 High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.17	0.25	48		
Low-E 240 High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.16	0.22	48		
Low-E 240 High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.39	0.16	0.22	48		
Low-E 240 High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.40	0.16	0.22	48		
Low-E 240 High Altitude 3mm / 9.8mm / 3.1mm	None	0.38	0.19	0.28	48		
Low-E 240 High Altitude 3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.38	0.17	0.25	48		
Low-E 240 High Altitude 3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.17	0.25	48		
Low-E 240 High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.16	0.22	48		
Low-E 240 High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" MDL	0.39	0.16	0.22	48		
Low-E 240 High Altitude 3mm / 9.8mm / 3.1mm	1 1/2" MDL	0.40	0.16	0.22	48		
3.1mm	7/8" CDL (no spacer)	0.35	0.30	0.43	50		
3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.26	0.38	50		
3.1mm	1 1/8" MDL	0.37	0.26	0.38	50		
3.1mm	1 1/2" MDL	0.37	0.26	0.38	50		
Clear 090pvb Lami Ext. / Low-E4 (272) Int. 8.6mm / 8mm / 3mm	7/8" CDL (no spacer)	0.35	0.30	0.43	50		
Clear 090pvb Lami Ext. / Low-E4 (272) Int. 8.6mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.26	0.38	50		
Clear 090pvb Lami Ext. / Low-E4 (272) Int. 8.6mm / 8mm / 3mm	1 1/8" MDL	0.37	0.26	0.38	50		
Clear 090pvb Lami Ext. / Low-E4 (272) Int. 8.6mm / 8mm / 3mm	1 1/2" MDL	0.37	0.26	0.38	50		
Clear 090pvb Lami Ext. / Low-E4 (272) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.26	0.38	47		
Clear 090pvb Lami Ext. / Low-E4 (272) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/8" MDL	0.41	0.26	0.38	47		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
Clear 090pvb Lami Ext. / Low-E4 (272) Int. High Altitude 8.6mm / 8mm / 3.1mm	1 1/2" MDL	0.41	0.26	0.38	47	
Clear 090pvb Lami Ext. / Low-E4 (272) Int. High Altitude 8.6mm / 8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.26	0.38	47	
Clear 090pvb Lami Ext. / Low-E4 (272) Int. High Altitude 8.6mm / 8mm / 3mm	1 1/8" MDL	0.41	0.26	0.38	47	
Clear 090pvb Lami Ext. / Low-E4 (272) Int. High Altitude 8.6mm / 8mm / 3mm	1 1/2" MDL	0.41	0.26	0.38	47	
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	None	0.32	0.20	0.46	52	
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.32	0.18	0.41	52	
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.18	0.41	52	
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.16	0.36	52	
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.34	0.16	0.36	52	
SmartSun (366) 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.36	0.16	0.36	52	
SmartSun (366) 3.1mm / 9.8mm / 3.1mm	None	0.33	0.20	0.46	52	
SmartSun (366) 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.18	0.41	52	
SmartSun (366) 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.18	0.41	52	
SmartSun (366) 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.16	0.36	52	
SmartSun (366) 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.34	0.16	0.36	52	
SmartSun (366) 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.36	0.16	0.36	52	
SmartSun (366) 3mm / 9.8mm / 3.1mm	None	0.33	0.20	0.46	52	
SmartSun (366) 3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.18	0.41	52	
SmartSun (366) 3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.18	0.41	52	
SmartSun (366) 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.16	0.36	52	
SmartSun (366) 3mm / 9.8mm / 3.1mm	1 1/8" MDL	0.34	0.16	0.36	52	
SmartSun (366) 3mm / 9.8mm / 3.1mm	1 1/2" MDL	0.36	0.16	0.36	52	
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	None	0.36	0.20	0.46	49	
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.36	0.18	0.41	49	
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.37	0.18	0.41	49	
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.36	0.16	0.36	49	
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.38	0.16	0.36	49	
SmartSun (366) High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.39	0.16	0.36	49	
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	None	0.37	0.20	0.46	49	
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.37	0.18	0.41	49	
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.18	0.41	49	
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.16	0.36	49	
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.39	0.16	0.36	49	
SmartSun (366) High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.39	0.16	0.36	49	
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	None	0.37	0.20	0.46	49	
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.37	0.18	0.41	49	
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.38	0.18	0.41	49	
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.16	0.36	49	
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" MDL	0.39	0.16	0.36	49	
SmartSun (366) High Altitude 3mm / 9.8mm / 3.1mm	1 1/2" MDL	0.39	0.16	0.36	49	
Low-E4 (272) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.32	0.28	0.47	56	
Low-E4 (272) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.32	0.25	0.42	56	
Low-E4 (272) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.22	0.37	56	
Low-E4 (272) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.32	0.28	0.46	56	
Low-E4 (272) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.25	0.41	56	
Low-E4 (272) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.22	0.36	56	
Low-E4 (272) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.32	0.28	0.46	56	
Low-E4 (272) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.25	0.41	56	
Low-E4 (272) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.22	0.36	56	
Low-E4 (272) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.35	0.28	0.47	54	
Low-E4 (272) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.25	0.42	54	
Low-E4 (272) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.23	0.37	54	
Low-E4 (272) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.35	0.28	0.46	54	
Low-E4 (272) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.25	0.41	54	
Low-E4 (272) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.22	0.36	54	

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance

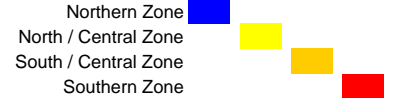


Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.35	0.28	0.46	54		
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.25	0.41	54		
Low-E4 (272) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.22	0.36	54		
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.28	0.26	0.41	59		
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.28	0.23	0.37	59		
Low-E4 (272) #2&5 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.21	0.32	59		
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.28	0.25	0.41	59		
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.28	0.23	0.36	59		
Low-E4 (272) #2&5 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.20	0.32	59		
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	None	0.28	0.25	0.41	59		
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	7/8" CDL (no spacer)	0.28	0.23	0.36	59		
Low-E4 (272) #2&5 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.20	0.32	59		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.32	0.26	0.41	57		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.32	0.23	0.37	57		
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.21	0.32	57		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.32	0.25	0.41	57		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.23	0.36	57		
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.20	0.32	57		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	None	0.32	0.25	0.41	57		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	7/8" CDL (no spacer)	0.32	0.23	0.36	57		
Low-E4 (272) #2&5 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.20	0.32	57		
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.32	0.19	0.42	57		
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.32	0.17	0.38	57		
SmartSun (366) #2 TIG 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.15	0.33	57		
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.32	0.19	0.42	57		
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.17	0.37	57		
SmartSun (366) #2 TIG 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.15	0.33	57		
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.32	0.19	0.42	57		
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.17	0.37	57		
SmartSun (366) #2 TIG 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.15	0.33	57		
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	None	0.35	0.19	0.42	54		
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	7/8" CDL (no spacer)	0.35	0.17	0.38	54		
SmartSun (366) #2 TIG High Altitude 2.2mm / 6.5mm / 2.2mm / 6.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.15	0.33	54		
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.35	0.19	0.42	54		
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.17	0.37	54		
SmartSun (366) #2 TIG High Altitude 3.1mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.15	0.33	54		
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	None	0.35	0.19	0.42	54		
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	7/8" CDL (no spacer)	0.35	0.17	0.37	54		
SmartSun (366) #2 TIG High Altitude 3mm / 6.5mm / 3.1mm / 6.5mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.35	0.15	0.33	54		

Disclaimer

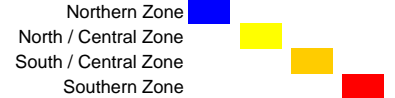
Actual unit performance values will vary depending upon specified design pressure, glass treatment option and unit size. Work with your local Eagle window and door dealer to make sure the product(s) you are ordering meet your specifications.

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



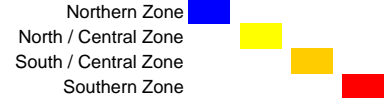
Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone	
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.33	0.28	0.48	52		
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.28	0.48	52		
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.25	0.42	52		
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.36	0.16	0.23	52		
HP Low-E4 (272)	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.37	0.16	0.23	52		
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.34	0.28	0.47	51		
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.28	0.47	51		
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.34	0.25	0.41	51		
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.36	0.25	0.41	51		
HP Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.37	0.25	0.41	51		
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.34	0.28	0.47	51		
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.28	0.47	51		
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.34	0.25	0.41	51		
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	1 1/8" MDL		0.36	0.25	0.41	51		
HP Low-E4 (272)	3mm / 9.8mm / 3.1mm	1 1/2" MDL		0.37	0.25	0.41	51		
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.37	0.25	0.42	49		
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.39	0.25	0.42	49		
HP Low-E4 (272)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.40	0.25	0.42	49		
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.25	0.41	48		
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.40	0.25	0.41	48		
HP Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.41	0.25	0.41	48		
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.25	0.41	48		
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" MDL		0.40	0.25	0.41	48		
HP Low-E4 (272)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/2" MDL		0.41	0.25	0.41	48		
Clear	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.40	0.25	0.41	40		
Clear	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.41	0.25	0.41	40		
Clear	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.40	0.25	0.41	40		
Clear	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.41	0.25	0.41	40		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	None		0.34	0.29	0.39	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.34	0.26	0.35	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.26	0.35	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.34	0.24	0.31	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.36	0.24	0.31	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.37	0.24	0.31	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	None		0.34	0.29	0.39	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)		0.34	0.26	0.35	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.26	0.35	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.34	0.24	0.31	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/8" MDL		0.36	0.24	0.31	51		
Bronze Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/2" MDL		0.37	0.24	0.31	51		
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.38	0.27	0.35	48		
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.27	0.35	48		
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.24	0.31	48		
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.40	0.24	0.31	48		
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.41	0.24	0.31	48		
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)		0.38	0.27	0.35	48		
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.27	0.35	48		
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.24	0.31	48		
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/8" MDL		0.40	0.24	0.31	48		
Bronze Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3mm	1 1/2" MDL		0.41	0.24	0.31	48		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	None		0.34	0.28	0.36	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.34	0.25	0.32	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.25	0.32	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.34	0.23	0.29	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.36	0.23	0.29	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.37	0.23	0.29	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	None		0.34	0.28	0.36	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)		0.34	0.25	0.32	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.35	0.25	0.32	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.34	0.23	0.29	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/8" MDL		0.36	0.23	0.29	51		
Gray Low-E4 (272)	3.1mm / 9.8mm / 3mm	1 1/2" MDL		0.37	0.23	0.29	51		
Gray Low-E4 (272)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.38	0.26	0.32	48		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Gray Low-E4 (272)	High Altitude	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.26	0.32	48		
Gray Low-E4 (272)	High Altitude	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.23	0.29	48		
Gray Low-E4 (272)	High Altitude	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.40	0.23	0.29	48		
Gray Low-E4 (272)	High Altitude	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.41	0.23	0.29	48		
Gray Low-E4 (272)	High Altitude	3.1mm / 9.8mm / 3mm	7/8" CDL (no spacer)	0.38	0.26	0.32	48		
Gray Low-E4 (272)	High Altitude	3.1mm / 9.8mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.26	0.32	48		
Gray Low-E4 (272)	High Altitude	3.1mm / 9.8mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.38	0.23	0.29	48		
Gray Low-E4 (272)	High Altitude	3.1mm / 9.8mm / 3mm	1 1/8" MDL	0.40	0.23	0.29	48		
Gray Low-E4 (272)	High Altitude	3.1mm / 9.8mm / 3mm	1 1/2" MDL	0.41	0.23	0.29	48		
Low-E 240	2.2mm / 11.5mm / 2.2mm		None	0.33	0.19	0.30	52		
Low-E 240	2.2mm / 11.5mm / 2.2mm		7/8" CDL (no spacer)	0.33	0.17	0.26	52		
Low-E 240	2.2mm / 11.5mm / 2.2mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.17	0.26	52		
Low-E 240	2.2mm / 11.5mm / 2.2mm		1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.16	0.23	52		
Low-E 240	2.2mm / 11.5mm / 2.2mm		1 1/8" MDL	0.36	0.16	0.23	52		
Low-E 240	2.2mm / 11.5mm / 2.2mm		1 1/2" MDL	0.37	0.16	0.23	52		
Low-E 240	3.1mm / 9.8mm / 3.1mm		None	0.34	0.19	0.29	50		
Low-E 240	3.1mm / 9.8mm / 3.1mm		7/8" CDL (no spacer)	0.34	0.17	0.26	50		
Low-E 240	3.1mm / 9.8mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.17	0.26	50		
Low-E 240	3.1mm / 9.8mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.16	0.23	50		
Low-E 240	3.1mm / 9.8mm / 3.1mm		1 1/8" MDL	0.36	0.16	0.23	50		
Low-E 240	3.1mm / 9.8mm / 3.1mm		1 1/2" MDL	0.37	0.16	0.23	50		
Low-E 240	3mm / 9.8mm / 3.1mm		None	0.34	0.19	0.29	50		
Low-E 240	3mm / 9.8mm / 3.1mm		7/8" CDL (no spacer)	0.34	0.17	0.26	50		
Low-E 240	3mm / 9.8mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.36	0.17	0.26	50		
Low-E 240	3mm / 9.8mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)	0.34	0.16	0.23	50		
Low-E 240	3mm / 9.8mm / 3.1mm		1 1/8" MDL	0.36	0.16	0.23	50		
Low-E 240	3mm / 9.8mm / 3.1mm		1 1/2" MDL	0.37	0.16	0.23	50		
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	None	0.37	0.20	0.30	49		
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)	0.37	0.18	0.26	49		
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.39	0.18	0.26	49		
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.37	0.16	0.23	49		
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	1 1/8" MDL	0.39	0.16	0.23	49		
Low-E 240	High Altitude	2.2mm / 11.5mm / 2.2mm	1 1/2" MDL	0.41	0.16	0.23	49		
Low-E 240	High Altitude	3.1mm / 9.8mm / 3.1mm	None	0.39	0.20	0.29	47		
Low-E 240	High Altitude	3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.39	0.18	0.26	47		
Low-E 240	High Altitude	3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.40	0.18	0.26	47		
Low-E 240	High Altitude	3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.16	0.23	47		
Low-E 240	High Altitude	3.1mm / 9.8mm / 3.1mm	1 1/8" MDL	0.40	0.16	0.23	47		
Low-E 240	High Altitude	3.1mm / 9.8mm / 3.1mm	1 1/2" MDL	0.41	0.16	0.23	47		
Low-E 240	High Altitude	3mm / 9.8mm / 3.1mm	None	0.39	0.20	0.29	47		
Low-E 240	High Altitude	3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)	0.39	0.18	0.26	47		
Low-E 240	High Altitude	3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.40	0.18	0.26	47		
Low-E 240	High Altitude	3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.39	0.16	0.23	47		
Low-E 240	High Altitude	3mm / 9.8mm / 3.1mm	1 1/8" MDL	0.40	0.16	0.23	47		
Low-E 240	High Altitude	3mm / 9.8mm / 3.1mm	1 1/2" MDL	0.41	0.16	0.23	47		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm		None	0.32	0.21	0.48	52		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm		7/8" CDL (no spacer)	0.32	0.19	0.43	52		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.19	0.43	52		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm		1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.17	0.38	52		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm		1 1/8" MDL	0.35	0.17	0.38	52		
SmartSun (366)	2.2mm / 11.5mm / 2.2mm		1 1/2" MDL	0.36	0.17	0.38	52		
SmartSun (366)	3.1mm / 9.8mm / 3.1mm		None	0.33	0.21	0.48	51		
SmartSun (366)	3.1mm / 9.8mm / 3.1mm		7/8" CDL (no spacer)	0.33	0.19	0.42	51		
SmartSun (366)	3.1mm / 9.8mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.19	0.42	51		
SmartSun (366)	3.1mm / 9.8mm / 3.1mm		1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.17	0.37	51		
SmartSun (366)	3.1mm / 9.8mm / 3.1mm		1 1/8" MDL	0.35	0.17	0.37	51		
SmartSun (366)	3.1mm / 9.8mm / 3.1mm		1 1/2" MDL	0.37	0.17	0.37	51		
SmartSun (366)	3mm / 9.8mm / 3.1mm		None	0.33	0.21	0.48	51		
SmartSun (366)	3mm / 9.8mm / 3.1mm		7/8" CDL (no spacer)	0.33	0.19	0.42	51		
SmartSun (366)	3mm / 9.8mm / 3.1mm		7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.35	0.19	0.42	51		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance

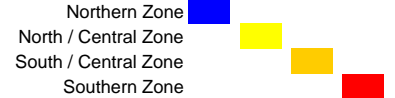


Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
SmartSun (366)	3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.33	0.17	0.37	51		
SmartSun (366)	3mm / 9.8mm / 3.1mm	1 1/8" MDL		0.35	0.17	0.37	51		
SmartSun (366)	3mm / 9.8mm / 3.1mm	1 1/2" MDL		0.37	0.17	0.37	51		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	None		0.36	0.21	0.48	50		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" CDL (no spacer)		0.36	0.19	0.43	50		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.38	0.19	0.43	50		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)		0.36	0.17	0.38	50		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/8" MDL		0.39	0.17	0.38	50		
SmartSun (366)	High Altitude 2.2mm / 11.5mm / 2.2mm	1 1/2" MDL		0.40	0.17	0.38	50		
SmartSun (366)	High Altitude 3.1mm / 9.8mm / 3.1mm	None		0.38	0.21	0.48	48		
SmartSun (366)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.38	0.19	0.42	48		
SmartSun (366)	High Altitude 3.1mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.19	0.42	48		
SmartSun (366)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.17	0.37	48		
SmartSun (366)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/8" MDL		0.39	0.17	0.37	48		
SmartSun (366)	High Altitude 3.1mm / 9.8mm / 3.1mm	1 1/2" MDL		0.40	0.17	0.37	48		
SmartSun (366)	High Altitude 3mm / 9.8mm / 3.1mm	None		0.38	0.21	0.48	48		
SmartSun (366)	High Altitude 3mm / 9.8mm / 3.1mm	7/8" CDL (no spacer)		0.38	0.19	0.42	48		
SmartSun (366)	High Altitude 3mm / 9.8mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.39	0.19	0.42	48		
SmartSun (366)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.38	0.17	0.37	48		
SmartSun (366)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/8" MDL		0.39	0.17	0.37	48		
SmartSun (366)	High Altitude 3mm / 9.8mm / 3.1mm	1 1/2" MDL		0.40	0.17	0.37	48		

Disclaimer

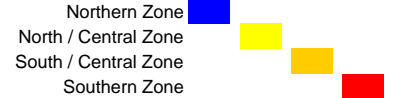
Actual unit performance values will vary depending upon specified design pressure, glass treatment option and unit size. Work with your local Eagle window and door dealer to make sure the product(s) you are ordering meet your specifications.

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



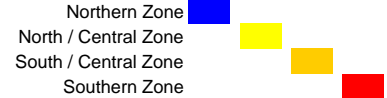
Glass Type		Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone			
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	None	0.29	0.36	0.62	54	Blue	Yellow		
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.32	0.55	54	Blue	Yellow		
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.32	0.55	54	Blue	Yellow		
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.29	0.49	54	Blue	Yellow	Orange	
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.30	0.29	0.49	54	Blue	Yellow	Orange	
HP Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.32	0.29	0.49	54	Blue	Yellow	Orange	
HP Low-E4 (272)	3.9mm / 13mm / 3.9mm	None	0.29	0.35	0.61	54	Blue	Yellow		
HP Low-E4 (272)	3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.29	0.32	0.55	54	Blue	Yellow		
HP Low-E4 (272)	3.9mm / 13mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.32	0.55	54	Blue	Yellow		
HP Low-E4 (272)	3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.29	0.49	54	Blue	Yellow	Orange	
HP Low-E4 (272)	3.9mm / 13mm / 3.9mm	1 1/8" MDL	0.31	0.29	0.49	54	Blue	Yellow	Orange	
HP Low-E4 (272)	3.9mm / 13mm / 3.9mm	1 1/2" MDL	0.32	0.29	0.49	54	Blue	Yellow	Orange	
HP Low-E4 (272)	3mm / 13mm / 3.1mm	None	0.29	0.36	0.62	54	Blue	Yellow		
HP Low-E4 (272)	3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.32	0.55	54	Blue	Yellow		
HP Low-E4 (272)	3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.32	0.55	54	Blue	Yellow		
HP Low-E4 (272)	3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.29	0.49	54	Blue	Yellow	Orange	
HP Low-E4 (272)	3mm / 13mm / 3.1mm	1 1/8" MDL	0.30	0.29	0.49	54	Blue	Yellow	Orange	
HP Low-E4 (272)	3mm / 13mm / 3.1mm	1 1/2" MDL	0.32	0.29	0.49	54	Blue	Yellow	Orange	
HP Low-E4 (272)	4.7mm / 13mm / 4.7mm	None	0.29	0.35	0.61	54	Blue	Yellow		
HP Low-E4 (272)	4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.29	0.32	0.54	54	Blue	Yellow		
HP Low-E4 (272)	4.7mm / 13mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.32	0.54	54	Blue	Yellow		
HP Low-E4 (272)	4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.29	0.48	54	Blue	Yellow	Orange	
HP Low-E4 (272)	4.7mm / 13mm / 4.7mm	1 1/8" MDL	0.30	0.29	0.48	54	Blue	Yellow	Orange	
HP Low-E4 (272)	4.7mm / 13mm / 4.7mm	1 1/2" MDL	0.32	0.29	0.48	54	Blue	Yellow	Orange	
HP Low-E4 (272)	5.7mm / 13mm / 5.7mm	None	0.29	0.34	0.60	54	Blue	Yellow		
HP Low-E4 (272)	5.7mm / 13mm / 5.7mm	7/8" CDL (no spacer)	0.29	0.31	0.54	54	Blue	Yellow		
HP Low-E4 (272)	5.7mm / 13mm / 5.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.32	0.54	54	Blue	Yellow		
HP Low-E4 (272)	5.7mm / 13mm / 5.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.28	0.48	54	Blue	Yellow	Orange	
HP Low-E4 (272)	5.7mm / 13mm / 5.7mm	1 1/8" MDL	0.30	0.28	0.48	54	Blue	Yellow	Orange	
HP Low-E4 (272)	5.7mm / 13mm / 5.7mm	1 1/2" MDL	0.32	0.28	0.48	54	Blue	Yellow	Orange	
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	None	0.32	0.36	0.62	51	Blue	Yellow		
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.33	0.55	51	Blue	Yellow		
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.29	0.49	51	Blue	Yellow	Orange	
HP Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.29	0.49	51	Blue	Yellow	Orange	
HP Low-E4 (272)	High Altitude 3.9mm / 13mm / 3.9mm	None	0.32	0.36	0.61	51	Blue	Yellow		
HP Low-E4 (272)	High Altitude 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.32	0.32	0.55	51	Blue	Yellow		
HP Low-E4 (272)	High Altitude 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.29	0.49	51	Blue	Yellow	Orange	
HP Low-E4 (272)	High Altitude 3.9mm / 13mm / 3.9mm	1 1/8" MDL	0.34	0.29	0.49	51	Blue	Yellow	Orange	
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	None	0.32	0.36	0.62	51	Blue	Yellow		
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.33	0.55	51	Blue	Yellow		
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.29	0.49	51	Blue	Yellow	Orange	
HP Low-E4 (272)	High Altitude 3mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.29	0.49	51	Blue	Yellow	Orange	
HP Low-E4 (272)	High Altitude 4.7mm / 13mm / 4.7mm	None	0.32	0.35	0.61	51	Blue	Yellow		
HP Low-E4 (272)	High Altitude 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.32	0.32	0.54	51	Blue	Yellow		
HP Low-E4 (272)	High Altitude 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.29	0.48	51	Blue	Yellow	Orange	
HP Low-E4 (272)	High Altitude 4.7mm / 13mm / 4.7mm	1 1/8" MDL	0.34	0.29	0.48	51	Blue	Yellow	Orange	
HP Low-E4 (272)	High Altitude 5.7mm / 13mm / 5.7mm	None	0.32	0.35	0.60	51	Blue	Yellow		
HP Low-E4 (272)	High Altitude 5.7mm / 13mm / 5.7mm	7/8" CDL (no spacer)	0.32	0.32	0.54	51	Blue	Yellow		
HP Low-E4 (272)	High Altitude 5.7mm / 13mm / 5.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.28	0.48	51	Blue	Yellow	Orange	
HP Low-E4 (272)	High Altitude 5.7mm / 13mm / 5.7mm	1 1/8" MDL	0.34	0.28	0.48	51	Blue	Yellow	Orange	
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	None	0.29	0.34	0.46	54	Blue	Yellow		
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.31	0.41	54	Blue	Yellow		
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.31	0.41	54	Blue	Yellow		
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.28	0.37	54	Blue	Yellow	Orange	
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.30	0.28	0.37	54	Blue	Yellow	Orange	
Bronze Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.32	0.28	0.37	54	Blue	Yellow	Orange	
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	None	0.29	0.34	0.46	54	Blue	Yellow		
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	7/8" CDL (no spacer)	0.29	0.31	0.41	54	Blue	Yellow		
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.31	0.41	54	Blue	Yellow		
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.28	0.37	54	Blue	Yellow	Orange	
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	1 1/8" MDL	0.30	0.28	0.37	54	Blue	Yellow	Orange	
Bronze Low-E4 (272)	3.1mm / 13mm / 3mm	1 1/2" MDL	0.32	0.28	0.37	54	Blue	Yellow	Orange	
Bronze Low-E4 (272)	3.9mm / 13mm / 3.9mm	None	0.29	0.32	0.43	54	Blue	Yellow		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



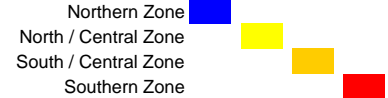
Glass Type		Divided Light Options		U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone			
Bronze Low-E4 (272)	3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)		0.29	0.29	0.39	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	3.9mm / 13mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.30	0.29	0.39	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.29	0.26	0.35	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	3.9mm / 13mm / 3.9mm	1 1/8" MDL		0.30	0.26	0.35	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	3.9mm / 13mm / 3.9mm	1 1/2" MDL		0.32	0.26	0.35	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	4.7mm / 13mm / 4.7mm	None		0.29	0.30	0.40	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)		0.29	0.27	0.36	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	4.7mm / 13mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.30	0.28	0.36	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.29	0.25	0.32	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	4.7mm / 13mm / 4.7mm	1 1/8" MDL		0.30	0.25	0.32	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	4.7mm / 13mm / 4.7mm	1 1/2" MDL		0.32	0.25	0.32	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	5.7mm / 13mm / 5.7mm	None		0.29	0.28	0.36	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	5.7mm / 13mm / 5.7mm	7/8" CDL (no spacer)		0.29	0.25	0.32	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	5.7mm / 13mm / 5.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.30	0.26	0.32	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	5.7mm / 13mm / 5.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.29	0.23	0.29	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	5.7mm / 13mm / 5.7mm	1 1/8" MDL		0.30	0.23	0.29	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	5.7mm / 13mm / 5.7mm	1 1/2" MDL		0.32	0.23	0.29	54	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	None		0.32	0.34	0.46	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)		0.32	0.31	0.41	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.28	0.37	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" MDL		0.34	0.28	0.37	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3mm	None		0.32	0.34	0.46	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3mm	7/8" CDL (no spacer)		0.32	0.31	0.41	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.28	0.37	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.1mm / 13mm / 3mm	1 1/8" MDL		0.34	0.28	0.37	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.9mm / 13mm / 3.9mm	None		0.32	0.32	0.43	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)		0.32	0.29	0.39	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.9mm / 13mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.29	0.39	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.26	0.35	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.9mm / 13mm / 3.9mm	1 1/8" MDL		0.34	0.26	0.35	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 3.9mm / 13mm / 3.9mm	1 1/2" MDL		0.36	0.26	0.35	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 13mm / 4.7mm	None		0.32	0.30	0.40	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)		0.32	0.28	0.36	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 13mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.28	0.36	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.25	0.32	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 13mm / 4.7mm	1 1/8" MDL		0.34	0.25	0.32	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 4.7mm / 13mm / 4.7mm	1 1/2" MDL		0.36	0.25	0.32	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 5.7mm / 13mm / 5.7mm	None		0.32	0.28	0.36	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 5.7mm / 13mm / 5.7mm	7/8" CDL (no spacer)		0.32	0.26	0.32	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 5.7mm / 13mm / 5.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.34	0.26	0.32	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 5.7mm / 13mm / 5.7mm	1 1/8" or 1 1/2" CDL (no spacer)		0.32	0.23	0.29	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 5.7mm / 13mm / 5.7mm	1 1/8" MDL		0.34	0.23	0.29	51	Blue	Yellow	Orange	Red
Bronze Low-E4 (272)	High Altitude 5.7mm / 13mm / 5.7mm	1 1/2" MDL		0.36	0.23	0.29	51	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm	None		0.29	0.33	0.42	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)		0.29	0.29	0.38	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.30	0.30	0.38	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)		0.29	0.27	0.34	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/8" MDL		0.30	0.27	0.34	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3.1mm	1 1/2" MDL		0.32	0.27	0.34	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3mm	None		0.29	0.33	0.42	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3mm	7/8" CDL (no spacer)		0.29	0.29	0.38	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.30	0.30	0.38	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)		0.29	0.27	0.34	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3mm	1 1/8" MDL		0.30	0.27	0.34	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.1mm / 13mm / 3mm	1 1/2" MDL		0.32	0.27	0.34	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.9mm / 13mm / 3.9mm	None		0.29	0.31	0.39	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)		0.29	0.28	0.35	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.9mm / 13mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles		0.30	0.28	0.35	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)		0.29	0.25	0.31	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.9mm / 13mm / 3.9mm	1 1/8" MDL		0.30	0.25	0.31	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	3.9mm / 13mm / 3.9mm	1 1/2" MDL		0.32	0.25	0.31	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	4.7mm / 13mm / 4.7mm	None		0.29	0.28	0.35	54	Blue	Yellow	Orange	Red
Gray Low-E4 (272)	4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)		0.29	0.26	0.32	54	Blue	Yellow	Orange	Red

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



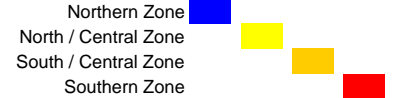
Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR® Zone
Gray Low-E4 (272) 4.7mm / 13mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.26	0.32	54	Blue, Yellow, Orange, Red
Gray Low-E4 (272) 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.23	0.28	54	Blue, Yellow, Orange, Red
Gray Low-E4 (272) 4.7mm / 13mm / 4.7mm	1 1/8" MDL	0.30	0.24	0.28	54	Blue, Yellow, Orange, Red
Gray Low-E4 (272) 4.7mm / 13mm / 4.7mm	1 1/2" MDL	0.32	0.24	0.28	54	Blue, Yellow, Orange, Red
Gray Low-E4 (272) 5.7mm / 13mm / 5.7mm	None	0.29	0.26	0.31	54	Blue, Yellow, Orange, Red
Gray Low-E4 (272) 5.7mm / 13mm / 5.7mm	7/8" CDL (no spacer)	0.29	0.24	0.28	54	Blue, Yellow, Orange, Red
Gray Low-E4 (272) 5.7mm / 13mm / 5.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.30	0.24	0.28	54	Blue, Yellow, Orange, Red
Gray Low-E4 (272) 5.7mm / 13mm / 5.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.21	0.25	54	Blue, Yellow, Orange, Red
Gray Low-E4 (272) 5.7mm / 13mm / 5.7mm	1 1/8" MDL	0.30	0.22	0.25	54	Blue, Yellow, Orange, Red
Gray Low-E4 (272) 5.7mm / 13mm / 5.7mm	1 1/2" MDL	0.32	0.22	0.25	54	Blue, Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3.1mm	None	0.32	0.33	0.42	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.30	0.38	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.30	0.38	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.27	0.34	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.27	0.34	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.36	0.27	0.34	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3mm	None	0.32	0.33	0.42	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3mm	7/8" CDL (no spacer)	0.32	0.30	0.38	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.30	0.38	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.27	0.34	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3mm	1 1/8" MDL	0.34	0.27	0.34	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.1mm / 13mm / 3mm	1 1/2" MDL	0.36	0.27	0.34	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.9mm / 13mm / 3.9mm	None	0.32	0.31	0.39	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.32	0.28	0.35	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.9mm / 13mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.28	0.35	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.25	0.31	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.9mm / 13mm / 3.9mm	1 1/8" MDL	0.34	0.25	0.31	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 3.9mm / 13mm / 3.9mm	1 1/2" MDL	0.36	0.25	0.31	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 4.7mm / 13mm / 4.7mm	None	0.32	0.29	0.35	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.32	0.26	0.32	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 4.7mm / 13mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.26	0.32	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.24	0.28	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 4.7mm / 13mm / 4.7mm	1 1/8" MDL	0.34	0.24	0.28	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 4.7mm / 13mm / 4.7mm	1 1/2" MDL	0.36	0.24	0.28	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 5.7mm / 13mm / 5.7mm	None	0.32	0.26	0.31	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 5.7mm / 13mm / 5.7mm	7/8" CDL (no spacer)	0.32	0.24	0.28	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 5.7mm / 13mm / 5.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.24	0.28	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 5.7mm / 13mm / 5.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.22	0.25	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 5.7mm / 13mm / 5.7mm	1 1/8" MDL	0.34	0.22	0.25	51	Yellow, Orange, Red
Gray Low-E4 (272) High Altitude 5.7mm / 13mm / 5.7mm	1 1/2" MDL	0.36	0.22	0.25	51	Yellow, Orange, Red
Low-E 240 3.1mm / 13mm / 3.1mm	None	0.29	0.22	0.34	54	Blue, Yellow, Orange, Red
Low-E 240 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.20	0.31	54	Blue, Yellow, Orange, Red
Low-E 240 3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.20	0.31	54	Blue, Yellow, Orange, Red
Low-E 240 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.31	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.32	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 3.9mm / 13mm / 3.9mm	None	0.29	0.21	0.33	54	Blue, Yellow, Orange, Red
Low-E 240 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.29	0.19	0.30	54	Blue, Yellow, Orange, Red
Low-E 240 3.9mm / 13mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.19	0.30	54	Blue, Yellow, Orange, Red
Low-E 240 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 3.9mm / 13mm / 3.9mm	1 1/8" MDL	0.31	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 3.9mm / 13mm / 3.9mm	1 1/2" MDL	0.32	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 3mm / 13mm / 3.1mm	None	0.29	0.22	0.34	54	Blue, Yellow, Orange, Red
Low-E 240 3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.29	0.20	0.31	54	Blue, Yellow, Orange, Red
Low-E 240 3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.20	0.31	54	Blue, Yellow, Orange, Red
Low-E 240 3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 3mm / 13mm / 3.1mm	1 1/8" MDL	0.31	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 3mm / 13mm / 3.1mm	1 1/2" MDL	0.32	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 4.7mm / 13mm / 4.7mm	None	0.29	0.21	0.33	54	Blue, Yellow, Orange, Red
Low-E 240 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.29	0.19	0.30	54	Blue, Yellow, Orange, Red
Low-E 240 4.7mm / 13mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.19	0.30	54	Blue, Yellow, Orange, Red
Low-E 240 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 4.7mm / 13mm / 4.7mm	1 1/8" MDL	0.31	0.18	0.27	54	Blue, Yellow, Orange, Red
Low-E 240 4.7mm / 13mm / 4.7mm	1 1/2" MDL	0.32	0.18	0.27	54	Blue, Yellow, Orange, Red

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



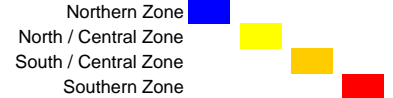
Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
Low-E 240 4.7mm / 13mm / 4.7mm	1 1/2" MDL	0.32	0.18	0.27	54		
Low-E 240 5.7mm / 13mm / 5.7mm	None	0.29	0.21	0.32	54		
Low-E 240 5.7mm / 13mm / 5.7mm	7/8" CDL (no spacer)	0.29	0.19	0.29	54		
Low-E 240 5.7mm / 13mm / 5.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.31	0.19	0.29	54		
Low-E 240 5.7mm / 13mm / 5.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.29	0.17	0.26	54		
Low-E 240 5.7mm / 13mm / 5.7mm	1 1/8" MDL	0.31	0.17	0.26	54		
Low-E 240 5.7mm / 13mm / 5.7mm	1 1/2" MDL	0.32	0.17	0.26	54		
Low-E 240 High Altitude 3.1mm / 13mm / 3.1mm	None	0.33	0.22	0.34	51		
Low-E 240 High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.20	0.31	51		
Low-E 240 High Altitude 3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.20	0.31	51		
Low-E 240 High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.18	0.27	51		
Low-E 240 High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.35	0.18	0.27	51		
Low-E 240 High Altitude 3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.36	0.18	0.27	51		
Low-E 240 High Altitude 3.9mm / 13mm / 3.9mm	None	0.33	0.22	0.33	51		
Low-E 240 High Altitude 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.33	0.20	0.30	51		
Low-E 240 High Altitude 3.9mm / 13mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.20	0.30	51		
Low-E 240 High Altitude 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.18	0.27	51		
Low-E 240 High Altitude 3.9mm / 13mm / 3.9mm	1 1/8" MDL	0.35	0.18	0.27	51		
Low-E 240 High Altitude 3.9mm / 13mm / 3.9mm	1 1/2" MDL	0.36	0.18	0.27	51		
Low-E 240 High Altitude 3mm / 13mm / 3.1mm	None	0.33	0.22	0.34	51		
Low-E 240 High Altitude 3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.33	0.20	0.31	51		
Low-E 240 High Altitude 3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.20	0.31	51		
Low-E 240 High Altitude 3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.18	0.27	51		
Low-E 240 High Altitude 3mm / 13mm / 3.1mm	1 1/8" MDL	0.35	0.18	0.27	51		
Low-E 240 High Altitude 3mm / 13mm / 3.1mm	1 1/2" MDL	0.36	0.18	0.27	51		
Low-E 240 High Altitude 4.7mm / 13mm / 4.7mm	None	0.33	0.22	0.33	51		
Low-E 240 High Altitude 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.33	0.20	0.30	51		
Low-E 240 High Altitude 4.7mm / 13mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.20	0.30	51		
Low-E 240 High Altitude 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.18	0.27	51		
Low-E 240 High Altitude 4.7mm / 13mm / 4.7mm	1 1/8" MDL	0.35	0.18	0.27	51		
Low-E 240 High Altitude 4.7mm / 13mm / 4.7mm	1 1/2" MDL	0.36	0.18	0.27	51		
Low-E 240 High Altitude 5.7mm / 13mm / 5.7mm	None	0.33	0.21	0.32	51		
Low-E 240 High Altitude 5.7mm / 13mm / 5.7mm	7/8" CDL (no spacer)	0.33	0.20	0.29	51		
Low-E 240 High Altitude 5.7mm / 13mm / 5.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.20	0.29	51		
Low-E 240 High Altitude 5.7mm / 13mm / 5.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.33	0.18	0.26	51		
Low-E 240 High Altitude 5.7mm / 13mm / 5.7mm	1 1/8" MDL	0.35	0.18	0.26	51		
Low-E 240 High Altitude 5.7mm / 13mm / 5.7mm	1 1/2" MDL	0.36	0.18	0.26	51		
SmartSun (366) 3.1mm / 13mm / 3.1mm	None	0.28	0.24	0.56	55		
SmartSun (366) 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.28	0.21	0.50	55		
SmartSun (366) 3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.29	0.21	0.50	55		
SmartSun (366) 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.19	0.44	55		
SmartSun (366) 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.30	0.19	0.44	55		
SmartSun (366) 3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.31	0.19	0.44	55		
SmartSun (366) 3.9mm / 13mm / 3.9mm	None	0.28	0.24	0.55	55		
SmartSun (366) 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.28	0.21	0.49	55		
SmartSun (366) 3.9mm / 13mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.29	0.21	0.49	55		
SmartSun (366) 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.19	0.44	55		
SmartSun (366) 3.9mm / 13mm / 3.9mm	1 1/8" MDL	0.30	0.19	0.44	55		
SmartSun (366) 3.9mm / 13mm / 3.9mm	1 1/2" MDL	0.31	0.19	0.44	55		
SmartSun (366) 3mm / 13mm / 3.1mm	None	0.28	0.24	0.56	55		
SmartSun (366) 3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.28	0.21	0.50	55		
SmartSun (366) 3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.29	0.21	0.50	55		
SmartSun (366) 3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.19	0.44	55		
SmartSun (366) 3mm / 13mm / 3.1mm	1 1/8" MDL	0.30	0.19	0.44	55		
SmartSun (366) 3mm / 13mm / 3.1mm	1 1/2" MDL	0.31	0.19	0.44	55		
SmartSun (366) 4.7mm / 13mm / 4.7mm	None	0.28	0.24	0.55	55		
SmartSun (366) 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.28	0.21	0.49	55		
SmartSun (366) 4.7mm / 13mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.29	0.21	0.49	55		
SmartSun (366) 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.19	0.44	55		
SmartSun (366) 4.7mm / 13mm / 4.7mm	1 1/8" MDL	0.30	0.19	0.44	55		
SmartSun (366) 4.7mm / 13mm / 4.7mm	1 1/2" MDL	0.31	0.19	0.44	55		
SmartSun (366) 5.7mm / 13mm / 5.7mm	None	0.28	0.24	0.54	55		
SmartSun (366) 5.7mm / 13mm / 5.7mm	7/8" CDL (no spacer)	0.28	0.21	0.48	55		

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



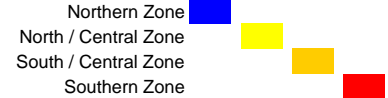
Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
SmartSun (366) 5.7mm / 13mm / 5.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.29	0.21	0.48	55	Blue	Northern Zone
SmartSun (366) 5.7mm / 13mm / 5.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.28	0.19	0.43	55	Yellow	North / Central Zone
SmartSun (366) 5.7mm / 13mm / 5.7mm	1 1/8" MDL	0.30	0.19	0.43	55	Yellow	North / Central Zone
SmartSun (366) 5.7mm / 13mm / 5.7mm	1 1/2" MDL	0.31	0.19	0.43	55	Yellow	North / Central Zone
SmartSun (366) High Altitude 3.1mm / 13mm / 3.1mm	None	0.32	0.24	0.56	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.22	0.50	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.1mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.22	0.50	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.1mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.1mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.9mm / 13mm / 3.9mm	None	0.32	0.24	0.55	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.32	0.22	0.49	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.9mm / 13mm / 3.9mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.22	0.49	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.9mm / 13mm / 3.9mm	1 1/8" MDL	0.34	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3.9mm / 13mm / 3.9mm	1 1/2" MDL	0.35	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3mm / 13mm / 3.1mm	None	0.32	0.24	0.56	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.32	0.22	0.50	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3mm / 13mm / 3.1mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.22	0.50	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3mm / 13mm / 3.1mm	1 1/8" MDL	0.34	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 3mm / 13mm / 3.1mm	1 1/2" MDL	0.35	0.20	0.44	53	Orange	South / Central Zone
SmartSun (366) High Altitude 4.7mm / 13mm / 4.7mm	None	0.32	0.24	0.55	52	Orange	South / Central Zone
SmartSun (366) High Altitude 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.32	0.22	0.49	52	Orange	South / Central Zone
SmartSun (366) High Altitude 4.7mm / 13mm / 4.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.22	0.49	52	Orange	South / Central Zone
SmartSun (366) High Altitude 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 4.7mm / 13mm / 4.7mm	1 1/8" MDL	0.34	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 4.7mm / 13mm / 4.7mm	1 1/2" MDL	0.35	0.20	0.44	52	Orange	South / Central Zone
SmartSun (366) High Altitude 5.7mm / 13mm / 5.7mm	None	0.32	0.24	0.54	52	Orange	South / Central Zone
SmartSun (366) High Altitude 5.7mm / 13mm / 5.7mm	7/8" CDL (no spacer)	0.32	0.22	0.48	52	Orange	South / Central Zone
SmartSun (366) High Altitude 5.7mm / 13mm / 5.7mm	7/8" & 5/8" MDL or 5/8" & 1" Between-Glass Grilles	0.34	0.22	0.48	52	Orange	South / Central Zone
SmartSun (366) High Altitude 5.7mm / 13mm / 5.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.32	0.20	0.43	52	Orange	South / Central Zone
SmartSun (366) High Altitude 5.7mm / 13mm / 5.7mm	1 1/8" MDL	0.34	0.20	0.43	52	Orange	South / Central Zone
SmartSun (366) High Altitude 5.7mm / 13mm / 5.7mm	1 1/2" MDL	0.35	0.20	0.43	52	Orange	South / Central Zone
Low-E4 (272) #2 TIG 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	None	0.22	0.33	0.57	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	7/8" CDL (no spacer)	0.22	0.30	0.51	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.22	0.27	0.46	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	None	0.22	0.33	0.56	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.22	0.30	0.51	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.22	0.27	0.45	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	None	0.22	0.32	0.56	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.22	0.29	0.50	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.22	0.27	0.45	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 3mm / 13mm / 3.1mm / 13mm / 3.1mm	None	0.22	0.33	0.56	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 3mm / 13mm / 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.22	0.30	0.51	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 3mm / 13mm / 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.22	0.27	0.45	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	None	0.22	0.32	0.55	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.22	0.29	0.49	64	Blue	Northern Zone
Low-E4 (272) #2 TIG 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.22	0.26	0.44	64	Blue	Northern Zone
Low-E4 (272) #2 TIG High Altitude 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	None	0.25	0.33	0.57	62	Blue	Northern Zone
Low-E4 (272) #2 TIG High Altitude 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	7/8" CDL (no spacer)	0.25	0.30	0.51	62	Blue	Northern Zone
Low-E4 (272) #2 TIG High Altitude 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.25	0.27	0.46	62	Blue	Northern Zone
Low-E4 (272) #2 TIG High Altitude 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	None	0.25	0.33	0.56	62	Blue	Northern Zone
Low-E4 (272) #2 TIG High Altitude 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.25	0.30	0.51	62	Blue	Northern Zone
Low-E4 (272) #2 TIG High Altitude 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.25	0.27	0.45	62	Blue	Northern Zone
Low-E4 (272) #2 TIG High Altitude 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	None	0.25	0.33	0.56	62	Blue	Northern Zone

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR [®] Zone
Low-E4 (272) #2 TIG High Altitude 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.25	0.29	0.50	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2 TIG High Altitude 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.25	0.27	0.45	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2 TIG High Altitude 3mm / 13mm / 3.1mm / 13mm / 3.1mm	None	0.25	0.33	0.56	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2 TIG High Altitude 3mm / 13mm / 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.25	0.30	0.51	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2 TIG High Altitude 3mm / 13mm / 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.25	0.27	0.45	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2 TIG High Altitude 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	None	0.25	0.32	0.55	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2 TIG High Altitude 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.25	0.29	0.49	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2 TIG High Altitude 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.25	0.26	0.44	62	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	None	0.17	0.31	0.50	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	7/8" CDL (no spacer)	0.17	0.28	0.45	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.17	0.25	0.40	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	None	0.17	0.30	0.49	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.17	0.27	0.44	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.17	0.25	0.39	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	None	0.17	0.30	0.49	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.17	0.27	0.44	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.17	0.24	0.39	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3mm / 13mm / 3.1mm / 13mm / 3mm	None	0.17	0.30	0.49	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3mm / 13mm / 3.1mm / 13mm / 3mm	7/8" CDL (no spacer)	0.17	0.27	0.44	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 3mm / 13mm / 3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.17	0.25	0.39	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	None	0.17	0.30	0.48	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.17	0.27	0.43	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.17	0.24	0.38	70	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	None	0.19	0.31	0.50	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	7/8" CDL (no spacer)	0.19	0.28	0.45	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.19	0.25	0.40	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	None	0.19	0.30	0.49	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.19	0.28	0.44	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.19	0.25	0.39	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	None	0.19	0.30	0.49	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.19	0.27	0.44	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.19	0.25	0.39	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3mm / 13mm / 3.1mm / 13mm / 3mm	None	0.19	0.30	0.49	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3mm / 13mm / 3.1mm / 13mm / 3mm	7/8" CDL (no spacer)	0.19	0.28	0.44	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 3mm / 13mm / 3.1mm / 13mm / 3mm	1 1/8" or 1 1/2" CDL (no spacer)	0.19	0.25	0.39	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	None	0.19	0.30	0.48	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.19	0.27	0.43	67	Blue, Yellow, Orange, Red
Low-E4 (272) #2&5 TIG High Altitude 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.19	0.24	0.38	67	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	None	0.22	0.22	0.52	64	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	7/8" CDL (no spacer)	0.22	0.20	0.46	64	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.22	0.18	0.41	64	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	None	0.22	0.22	0.51	64	Blue, Yellow, Orange, Red
SmartSun (366) #2 TIG 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.22	0.20	0.46	64	Blue, Yellow, Orange, Red

U-Factor - Rate of Heat Loss = 1/R
SHGC - Solar Heat Gain Coefficient
VLT- Visible Light Transmittance
CR - Condensation Resistance



Glass Type	Divided Light Options	U-VAL	SHGC	VLT	CR	ENERGY STAR®	Zone
SmartSun (366) #2 TIG 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.22	0.18	0.41	64	Blue	Blue
SmartSun (366) #2 TIG 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	None	0.22	0.22	0.50	64	Blue	Yellow
SmartSun (366) #2 TIG 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.22	0.20	0.45	64	Blue	Yellow
SmartSun (366) #2 TIG 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.22	0.18	0.40	64	Blue	Yellow
SmartSun (366) #2 TIG 3mm / 13mm / 3.1mm / 13mm / 3.1mm	None	0.22	0.22	0.51	64	Blue	Yellow
SmartSun (366) #2 TIG 3mm / 13mm / 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.22	0.20	0.46	64	Blue	Yellow
SmartSun (366) #2 TIG 3mm / 13mm / 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.22	0.18	0.41	64	Blue	Yellow
SmartSun (366) #2 TIG 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	None	0.22	0.22	0.49	64	Blue	Yellow
SmartSun (366) #2 TIG 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.22	0.20	0.44	64	Blue	Yellow
SmartSun (366) #2 TIG 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.22	0.18	0.39	64	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	None	0.24	0.22	0.52	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	7/8" CDL (no spacer)	0.24	0.20	0.46	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 2.2mm / 13mm / 2.2mm / 13mm / 2.2mm	1 1/8" or 1 1/2" CDL (no spacer)	0.24	0.18	0.41	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	None	0.24	0.22	0.51	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.24	0.20	0.46	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 3.1mm / 13mm / 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.24	0.18	0.41	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	None	0.24	0.22	0.50	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	7/8" CDL (no spacer)	0.24	0.20	0.45	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 3.9mm / 13mm / 3.9mm / 13mm / 3.9mm	1 1/8" or 1 1/2" CDL (no spacer)	0.24	0.18	0.40	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 3mm / 13mm / 3.1mm / 13mm / 3.1mm	None	0.24	0.22	0.51	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 3mm / 13mm / 3.1mm / 13mm / 3.1mm	7/8" CDL (no spacer)	0.24	0.20	0.46	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 3mm / 13mm / 3.1mm / 13mm / 3.1mm	1 1/8" or 1 1/2" CDL (no spacer)	0.24	0.18	0.41	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	None	0.24	0.22	0.49	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	7/8" CDL (no spacer)	0.24	0.20	0.44	62	Blue	Yellow
SmartSun (366) #2 TIG High Altitude 4.7mm / 13mm / 4.7mm / 13mm / 4.7mm	1 1/8" or 1 1/2" CDL (no spacer)	0.24	0.18	0.39	62	Blue	Yellow

Disclaimer

Actual unit performance values will vary depending upon specified design pressure, glass treatment option and unit size. Work with your local Eagle window and door dealer to make sure the product(s) you are ordering meet your specifications.