

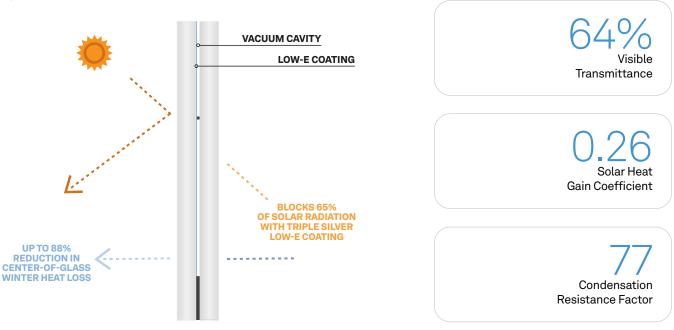
PRODUCT OVERVIEW

ENTHERMAL

ENTHERMAL. 10mm. R18.

AT THE CORE OF LUXWALL IS ENTHERMAL

With a u-factor of 0.056, a 20-year warranty, and fully tempered strength, **Enthermal** delivers superior thermal performance, energy savings, enhanced comfort, and acoustic control. Its ultra-slim 8-mm and 10-mm profiles offer endless design options from glass-only retrofits to one-inch insulating glass units with a u-factor of 0.043. Enthermal delivers exceptional condensation resistance, lower embodied carbon, and sleek modern aesthetics— without compromise.



1. Comparing to Double Pane Clear for Glass-Only Retrofit • 2. Center of Glass U-Value comparison of Enthermal Triple Silver on surface 2 (U-Value 0.056) vs. Double Pane IG, Air Fill (U-Value 0.473).

U-Factor



INTERIOR

COATING POSITION

Coatings applied to *Surface 2* of the Enthermal enables targeted thermal efficiency. Coatings can be selected to optimize for visible light transmission, passive solar design, insulating performance, and elevation specific design.

EXTERIOR

2

ENTHERMAL GLASS PERFORMANCE | 10-MM

	VISIBLE	VISIBLE LIGHT		DING	U-FACTOR			
	Visible Light	Exterior	T-UV	T-UV DW	SHGC	Argon Fill	LSG	
	Transmittance	Reflectance	1-0 V	ISO		IP / SI		
2 Cardinal LoĒ-180	78%	15%	26%	61	0.62	0.084 / 0.477	1.25	
2 Cardinal LoĒ ² -270	69%	12%	13%	50	0.35	0.062 / 0.355	1.96	
2 Cardinal LoĒ ³ -366	64%	11%	5%	42	0.26	0.055 / 0.315	2.48	
2 Cardinal LoĒ ³ -340	38%	13%	2%	27	0.16	0.055 / 0.315	2.42	
2 Solarban 60 [®]	72%	11%	19%	54	0.38	0.063 / 0.355	1.89	
2 Solarban 70 [®]	66%	13%	6%	44	0.26	0.056 / 0.315	2.57	

SPECIFICATIONS

ENTHERMAL DIMENSIONS

Maximum | 60" x 96" Minimum | 12" x 18"

GLASS STRENGTH Tempered Enthermal Temered Enthermal with Heat Soak

ENTHERMAL THICKNESS PROFILE 8-mm, 9-mm, 10-mm, 11-mm, 12-mm

COATED GLASS OPTIONS

Cardinal LoĒ-180 Cardinal LoĒ²-270 Cardinal LoĒ³-366 Cardinal LoĒ³-340 Solarban 60[®] Solarban 70[®]

INBOARD GLASS Clear Glass Only **BIRD FRIENDLY SOLUTIONS**

2" x 2", 2" x 4", and 4" x 4" array with 5 mm or 6 mm dot or square patterns

TINTED OUTBOARD OPTIONS

Solarban 60° and Solarban 70° are available on Optiblue[®], Optigray[®], Solaria[®], Solarbronze[®], Solargray[®], Solarblue[®] and Atlantica[®] substrates.

WARRANTY

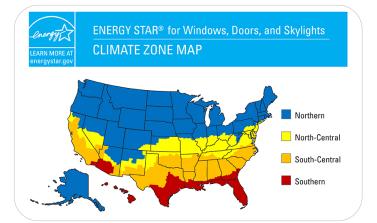
LuxWall Enthermal comes with a 20-year, 150% credit warranty when combined with insulating glass products. LuxWall has subjected Enthermal to accelerated durability testing well beyond the industry standard requirements of ASTM 2188/2189/2190 to ensure product longevity. LuxWall has successfully passed the following accelerated performance levels: -60° C to +130° C thermal cycling, +85° C with 85% relative humidity, +/- 90° C asymmetric thermal shock, DP Rating of 80, 25K door slam cycles, accelerated UV (up to 32X standard ultraviolet exposure), combinatorial humidity freeze, and salt spray.





ENERGY STAR® CERTIFICATION FOR RESIDENTAL WINDOWS ENERGY STAR® is a program run by the U.S. Environmental Protection Agency (EPA) that promotes energy efficiency in consumer products, including windows. ENERGY STAR 7.0 is the latest version of the ENERGY STAR program's requirements for windows.

LuxWall's Enthermal transparent insulation combined with defying insulating glass technology delivers best in class performance to meet the ENERGY STAR[®] criteria for all four climate zones.



ENERGY STAR [®] REQUIREMENTS	C180	C270	C366	C340	SB60	SB70
U-value ≤ 0.22, SHGC ≥ 0.17	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark
U-value ≤ 0.23, SHGC ≥ 0.35	\checkmark				\checkmark	
U-value ≤ 0.24, SHGC ≥ 0.35	\checkmark				✓	
U-value ≤ 0.25, SHGC ≥ 0.40	\checkmark					
U-value ≤ 0.26, SHGC ≥ 0.40	\checkmark					
U-value ≤ 0.25, SHGC ≤ 0.40		~	\checkmark	~	\checkmark	~
U-value ≤ 0.28, SHGC ≤ 0.23				~		
U-value ≤ 0.32, SHGC ≤ 0.23				\checkmark		

*Assumptions: Coating surfaces are located on surfaces 2. All lites are 5-mm thickness. Window LBNL calculation method.

ADDITIONAL PERFORMANCE AND AESTHETIC OPTIONS ARE AVAILABLE UPON REQUEST

LuxWall performance data is calculated in accordance with LBNL Windows 7 program. • Information within this document is subject to change without notice or obligation. • The information contained herein is offered in good faith and believed to be accurate. The stated information should not be used in substitution for customer's tests to ensure our products are safe, effective, and fully satisfactory for the intended end use.

