



*GE Structured Products*

**LEXAN® Thermoclear®  
Multi-Wall Polycarbonate Sheet**



**Thermoclear®**

# LEXAN® Thermoclear® Sheet

## Multi-Wall Translucent Thermal Glazing

- The cost-effective alternative for a wide variety of primary or overglazing applications.



**L**EXAN Thermoclear sheet from GE Structured Products is widely recognized as a leading solution for many roof and sidewall glazing applications including domestic conservatories, commercial greenhouses, stadiums, factory roof lights, walkways, canopies and industrial premises.

Available in two-, three-, four-, five-, or six-wall construction, LEXAN Thermoclear polycarbonate sheet offers varying degrees of thermal insulation, excellent impact resistance, outstanding light transmission, and fire resistance.

### Thermal Insulation

Sophisticated multi-wall construction creates an insulating air space within the internal channels, resulting in excellent energy-efficiency and significant reductions in heating costs.

LEXAN Thermoclear sheet features R-Values up to 3.7 or U-Values\* down to .27. Relative to sheet thickness, LEXAN Thermoclear sheet provides the highest level of thermal insulation available today in a polycarbonate sheet material.

### High Impact Resistance

Common to all LEXAN sheet products, LEXAN Thermoclear sheet offers extremely high impact resistance, minimizing the risk of damage or breakage resulting from fallen ice, snow, hail or dislodged roofing tiles. LEXAN Thermoclear sheet can also withstand constant thermal extremes, wind, and building settling/movement without cracking or splitting.

### Light Transmission

LEXAN Thermoclear sheet is available in transparent grades which allow up to 82% light transmission depending on thickness.

### Fire Performance

Unlike many thermoplastic materials, LEXAN Thermoclear sheet is CC-1\*\* flame rated† and passes E-84 steiner tunnel – a significant performance advantage compared to other plastic materials.

### Weather Resistant

LEXAN Thermoclear sheet offers outstanding, long-term performance even after prolonged exposure to sun, rain, and snow – while maintaining its new appearance year after year.

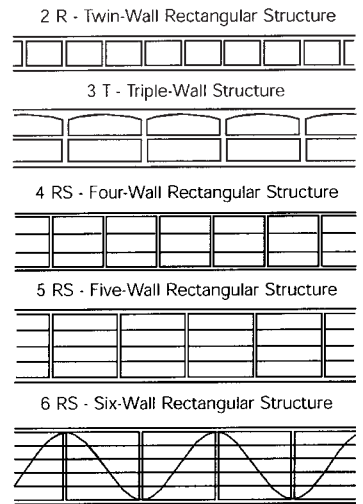
### 10-Year Warranty

The entire line of LEXAN Thermoclear sheet products carries a 10-year limited warranty†† against breakage, excessive yellowing and loss of light transmission.





### LEXAN Multi-Wall Sheet Structures



### Design Versatility

The lightweight yet rigid LEXAN Thermoclear sheet reduces the need for extensive supporting structures, allowing for attractive, wide-span installations. And since it can be easily cold-formed, cut and shaped, you can consider imaginative glazing designs that are virtually impossible using traditional materials.

### Easy Handling and Installation

LEXAN Thermoclear sheet is strong, yet extremely light, making it safe and easy to handle during installation. It can be cut to size using conventional workshop tools and fit into most existing glazing bars and frames. For new installations, a wide range of custom-designed glazing profiles and accessories are available from authorized GE Structured Products dealers.

### A Wide Range of Product Specifications to Meet Your Market Need

LEXAN Thermoclear sheet is available in six different sheet structures, and a variety of thicknesses and sheet sizes. Standard colors include Clear, Bronze, Opal, White, and Green (10mm only) with other colors available upon request<sup>‡</sup>.

LEXAN Thermoclear Drippard™ sheet features a proprietary treatment on the inward surface to inhibit the formation of water droplets during condensation. This property is particularly beneficial in helping to prevent plant spoilage in greenhouses.



### Thermoclear Thermal Properties Chart

Sheet Thickness	Structure	Weight	U-Value*	R-Value	Lb./Ft. <sup>2</sup>
6 mm	(2R6)	1300	.61	1.64	.27
8 mm	(2R8)	1700	.58	1.72	.35
10 mm	(2R10)	2000	.52	1.92	.41
16 mm	(3T16)	2800	.42	2.38	.57
16 mm	(4RS)	3000	.37	2.70	.61
20 mm	(5RS)	3300	.32	3.12	.68
25 mm	(6RS)	3500	.27	3.70	.72

\* Dual glazed systems can achieve U-values less than .20.

\*\* CC-1 for 6, 8, 10 mm., CC-2 for ≥ 10 mm.

† This rating is not intended to reflect hazards presented by this or any other material under actual conditions.

†† Ask for complete details.

‡ LEXAN Thermoclear Venetian is printed with white stripes on the non-UV coated side.

## Leading The Way In Every Way

GE Structured Products continues to be in the forefront of developing innovative glazing products to meet the diverse needs of the building and construction industries.

Once your design requirements have been finalized and you're ready to order GE sheet products, you'll find that our customer service standards are of the same high caliber as our thermoplastic materials and technical support. You'll appreciate the fast and efficient response, utilizing state-of-the-art electronic information and communications systems for order placement and tracking, as well as inventory planning.

Whatever your application, we invite you to take complete advantage of GE's advanced material and manufacturing technology and commitment to customer satisfaction.

For additional technical product information and details of our limited warranties, please call: (800) 451-3147 or (413) 448-5400.

For Customer Service Assistance, please call: (800) 329-7786



[www.structuredproducts.ge.com](http://www.structuredproducts.ge.com)

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