

EXTENDED WEATHERING TRANSLUCENT ROOF

EMBOSSED WITH ENHANCED TEAR RESISTANT (ETR) FABRIC

PRODUCT CODE: XLR

PRELIMINARY INFORMATION

PRODUCT

Kemlite® Extended Weathering Translucent Roof is a one-piece, high-strength fiberglass reinforced plastic (frp) roof that combines durability and enhanced weathering capabilities with natural lighting for a superior addition to our translucent roof product line. This product is comprised of random chopped fiberglass and polyester resin with woven reinforcement built into the roadside and curbside edges for additional strength at the fasteners. It contains an engineered fabric on the backside for enhanced tear resistance and a unique resin formulation for enhanced weatherability.

PURPOSE

Kemlite® Extended Weathering Roof is specifically designed and formulated for the use as a translucent roof for dry van trailers and truck bodies to improve visibility for safer loading and unloading of cargo.



DESIGN PROPERTIES

PRODUCT CODE	NOMINAL THICKNESS	NOMINAL WEIGHT	FINISH	MAXIMUM LENGTH	MINIMUM WIDTH	MAXIMUM WIDTH	COLOR
XLR	0.075" 1.9 mm	0.50 lbs/ft ² 2.44 kg/m ²	Embossed	Available up to 700' 213.4 m	11" 0.3 m	103" 2.6 m	Translucent White 08

TYPICAL PHYSICAL PROPERTIES

PROPERTY	XLR 0.075"		TEST METHOD
FLEXURAL STRENGTH	18 x 10 ³ psi	124 MPa	ASTM - D790
FLEXURAL MODULUS	0.6 x 10 ⁶ psi	4137 MPa	ASTM - D790
TENSILE STRENGTH	12 x 10 ³ psi	83 MPa	ASTM - D638
TENSILE MODULUS	1.1 x 10 ⁶ psi	7584 MPa	ASTM - D638
BARCOL HARDNESS	45	45	ASTM - D2583
COEFFICIENT OF LINEAR THERMAL EXPANSION	1.5 x 10 ⁻⁵ in/in/°F	27 µm/m/°C	ASTM - D696
THERMAL CONDUCTIVITY	0.4 Btu•in/hr•ft ² °F	5.0 cal•cm/hr•m ² °C	ASTM - C177
WATER ABSORPTION	0.3%/24hrs@77°F	0.3%/24hrs@25°C	ASTM - D570
SPECIFIC GRAVITY	1.6	1.6	ASTM - D792



SPECIFICATIONS

Crane Composites, Inc. (CCI) panels are manufactured in lengths and widths as required.

COMPOSITION

Reinforcement: Random chopped fiberglass.

Resin Mix: Modified polyester copolymer, inorganic fillers, and pigments.

FINISHED PANEL QUALITY

1. The front side of the panel shall have a pebble-like embossed finish. The backside of the panel shall have a smooth finish. The backside surface may have some variations which do not affect functional properties and are not cause for rejection. The backside of the panel is comprised of a polyester copolymer surface that is commonly bonded with adhesives or to foam in the lamination processes. Typically, no additional preparation is required as long as the surface is dirt and oil free.
2. Physical properties shall be as set forth on Page 1.
3. Dimensions shall be as specified on purchase order, subject to the following tolerances:
WIDTH: $\pm 1/8"$ (± 3.2 mm)
LENGTH: $\pm 1/8"$ (± 3.2 mm) up to 12' (3.7 m)
SQUARENESS: $\pm 1/8"$ (3.2 mm) in 48" (1.2 m) of width
4. Average Thickness: : For thickness $\leq 0.100"$, $\pm 0.010"$
For thickness $> 0.100"$, $\pm 10\%$
5. Bulk Coil policy #6207 applies.

FABRICATING RECOMMENDATIONS

NOTE: Protect your eyes with goggles; cover your nose and mouth with a filter mask; cover exposed skin when cutting CCI panels.

HAND FABRICATING: Drilling—High speed drill bit (60° cutting angle, with 12°-15° clearance) or hole saw.

STAPLING: Standard pneumatic stapler.

CUTTING: Sheet metal shears or circular saw with reinforced carborundum or carbide-tipped blade.

PRODUCTION FABRICATING: Use carbide-tipped tools. Straight cuts can be sheared (90° cutting edge with 0.002" [0.05 mm] clearance) or sawed. For irregular cuts, use die punch or band saw.

PAINTING PREPARATION: You should always test and validate the selected paint system with the frp panel prior to application.

To properly prepare the panel surface for painting, make sure the surface is clean, dry, and free from all oils, grease, silicones, dust, and other contaminants. Common practices for preparation before painting include using alkaline detergents or clean water. Sanding or roughening of the panel surface is recommended to promote paint adhesion. 600 grit or finer sand paper or a 3M "Ultrafine" Scotch-Brite® pad are commonly used to roughen the surface.

CLEANING INSTRUCTIONS: Available from CCI.

DESIGN DATA NOTES

Bulk coil may be ordered in long lengths or in specific cut-to-size pieces. Standard coil lengths are 250' and 500', custom sizes are available. Crane Composites reserves the right to manufacture and ship total linear footage of long length bulk coils ordered within the following parameter lengths per piece:

Min. 200' | 61.0 m

Max. 700' | 213.4 m

2. Cut-to-size lengths 12' (3.7 m) and over of the same width will be inter lapped (18"-36" [457.2 mm-914.4 mm] inter lap per panel) into a coil for ease of handling and shipping. Total length tolerance - 0" and +6" (-0 mm and +152.4 mm).

STAINING STATEMENT

Some staining/discoloration may occur to frp liner panels after they have been in service for several years. This is a normal wear condition. As long as acceptable cleaning methods (i.e., steam cleaning) are used, the surface should remain sanitary and acceptable.

STORAGE REQUIREMENTS

Crane Composites panels are designed for peak performance prior to and after the panels have been applied. Careful handling during the manufacturing process is important. Avoid excessive clamping, dropping and scraping. Keep contents dry. Store indoors in a well ventilated area. When outside storage is necessary, cover and protect from the weather and exposure to sunlight.

PLEASE NOTE THE FOLLOWING PRODUCT USE INFORMATION:

Products manufactured by CCI will provide a clean, aesthetically pleasing finished installation. However, by nature, fiberglass reinforced plastic panels may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation or lamination and original CCI skid tag/ticket number removed and retained. If any portion of material will not provide an acceptable appearance, CCI should be notified at once. Please report the non-conforming product utilizing the retained skid tag/ticket number. Upon verification of unacceptably, CCI will replace or refund the purchase price of the non-conforming product.