

### KEMPLY Laminated Panels

**PRODUCT CODE: KEM**

#### PRODUCT

Kemply Laminated Wall Panels are manufactured by laminating a fiberglass reinforced panel (FRP) "skin" to a substrate, such as oriented strand board (OSB), plywood, gypsum, fluted polypropylene, or aluminum composite core (ACP) and a variety of other materials. Ceilings are available in gypsum, fluted polypropylene and ACP substrates only.

Due to the fluctuation in substrate material costs, panels are quoted on a custom basis and quotes are valid for 30 days from date quoted unless otherwise negotiated.

#### PURPOSE

Kemply Laminated Wall and Ceiling Panels are used in a variety of applications where a sturdy laminated wall or ceiling panel is required.

DESIGN PROPERTIES		
SUBSTRATE	SUBSTRATE THICKNESS	AVAILABLE SIZES
<b>Gypsum</b>	1/2"   12.7 mm 5/8"   15.9 mm	4' x 8'   4' x 10'   23-3/4" x 23-3/4"   23-3/4" x 48" 1.2 m x 2.4 m   1.2 m x 3.0 m   603.3mm x 603.3mm   603.3mm x 1219.2mm
<b>Plywood</b>	1/4"   6.4 mm 1/2"   12.7 mm 5/8"   15.9 mm 3/4"   19.1 mm	4' x 8'   4' x 10'   4' x 12' 1.2 m x 2.4 m   1.2 m x 3.0 m   1.2 m x 3.7 m
<b>Oriented Strand Board (OSB)</b>	3/8"   9.5 mm 1/2"   12.7 mm 3/4"   19.1 mm 7/16"   11.1 mm (special order only)	4' x 8'   4' x 10'   4' x 12' 1.2 m x 2.4 m   1.2 m x 3.0 m   1.2 m x 3.7 m
<b>Fluted Polypropylene</b>	0.32"   8.1 mm 0.4"   10.2 mm	4' x 8'   4' x 10'   23-3/4" x 23-3/4"   23-3/4" x 48" 1.2 m x 2.4 m   1.2 m x 3.0 m   603.3mm x 603.3mm   603.3mm x 1219.2mm
<b>Aluminum Composite Core (ACP)</b>	0.12"   3mm Single or Double Sided 0.24"   6m Single or Double Sided Class A Fire Rated	23-3/4" x 23-3/4"   23-3/4" x 48" 603.3mm x 603.3mm   603.3mm x 1219.2mm

SANIGRID + KEMPLY LAMINATED CEILING PANEL SIZES				
GRID SIZE	GLASBORD LAMINATED PANEL SUBSTRATE THICKNESS			
	0.12"   3mm	0.24"   6mm	0.32"   8.1mm	0.4"   10.2mm
A   2' x 4'   0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m
B   2' x 2'   0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m
C   2' x 2'   0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m
GRID SIZE	0.12"   3mm	0.24"   6mm	0.32"   8.1mm	0.4"   10.2mm
A   2' x 4'   0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	NOT RECOMMENDED FOR CEILING INSTALLATION
B   2' x 2'   0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	
C   2' x 2'   0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	

## SPECIFICATIONS

Crane Composites, Inc. (CCI) panels are manufactured by a continuous laminating process in lengths as required.

## COMPOSITION

Reinforcement: Random chopped fiberglass.

Resin Mix: Polyester/styrene copolymer, inorganic fillers, and pigments.

## FINISHED PANEL QUALITY

- FRP skin shall not delaminate from the substrate when edges are securely fastened to an adequate structural system, and when joints are edges are protected with a permanently flexible silicone-like caulking compound and suitable for vinyl or metal division bars.
- Panels shall have a wear side with a pebble-like embossed finish or smooth finish. Color shall be uniform throughout as specified.
- Dimensions shall be as specified on purchase order, subject to the following tolerances:  
WIDTH:  $\pm 1/8"$  ( $\pm 3.2$  mm)  
LENGTH:  $\pm 1/8"$  ( $\pm 3.2$  mm) up to 12 (3.7 m)  
SQUARENESS:  $\pm 1/8"$  (3.2 mm) in 48" (1.2 m) of width
- Product quality standards and tolerances for panel weight and thickness shall be as set forth in Crane Composites' Quality Control Procedures/Standards which are available on request.
- Panels shall be installed in accordance with manufacturer's guidelines as set forth in the Cran

## CERTIFICATIONS

- Meets USDA/FSIS requirements.
- Some products have been tested and meet the requirements FMVSS 302. For a list products that have been tested to this requirement, see our test reports on our website at [www.cranecomposites.com/testreports.html](http://www.cranecomposites.com/testreports.html)
- FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274).
- KEM with 0.075" FSI laminated to ACP 3mm meets minimum requirements of major model building codes for Class A interior wall and ceiling finishes of flame spread  $\leq 25$ , smoke developed  $\leq 450$  (per ASTM E-84).
- This panel has earned GREENGUARD® Indoor Air Quality Certification (Certificate #15955-410) [greenguard.org](http://greenguard.org).



## FABRICATING RECOMMENDATIONS

SDS: Prior to working with our products, see our most current SDS at [cranecomposites.com/sds.html](http://cranecomposites.com/sds.html)

## STORAGE REQUIREMENTS

All Crane Composites FRP products should be stored indoors.

## SERVICEABLE TEMPERATURE RANGE

Panels will perform in temperatures from  $-40^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$ ) to  $130^{\circ}\text{F}$  ( $55^{\circ}\text{C}$ ). For use in environments beyond this range contact Crane Composites for recommendations.

## LIMITATIONS

Near Heat Source: Crane Composites panels will discolor when installed behind or near any heat source which radiates temperatures exceeding  $130^{\circ}\text{F}$  ( $55^{\circ}\text{C}$ ), such as cookers, ovens, and deep fryers. Do not install near a heat source.

Uneven Surface: Installation over uneven concrete block walls may result in areas of delamination and bulging.

## CRANE COMPOSITES TESTING

CLEANABILITY TEST: When Glasbord with Surfaseal and an ordinary FRP panel are heavily soiled, the Glasbord panel exhibits up to 10 times more cleanability per MacBeth Computer Colorimeter.

Stain Resistance Test: Prolonged direct contact to concentrated ammonia-based cleaner exhibited no color change per MacBeth Color Colorimeter.

## NOTICE

Panels will provide a clean, aesthetically-pleasing finished installation. However, by nature, fiberglass reinforced plastic paneling may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation. If any portion of material does not provide an acceptable appearance, Crane Composites should be notified at once. Upon verification of unacceptability, that portion of material will be replaced by Crane Composites. Crane Composites' sole responsibility is for the replacement of defective materials but not for labor or other handling or installation expenses.

### FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS

The numerical flame spread and smoke development ratings are not intended to reflect alleged hazards presented by Crane Composites products under actual fire conditions and this product has not been tested by Crane Composites except as set forth below. These ratings are determined by small-scale tests conducted by Underwriters Laboratories and other independent testing facilities using the American Society for Testing and Materials E-84 test standard (commonly referred to as the "Tunnel Test").

CRANE COMPOSITES PROVIDES THESE RATINGS FOR MATERIAL COMPARISON PURPOSES ONLY. Like other organic building materials (e.g. wood), panels made of fiberglass reinforced plastic resins will burn. When ignited, FRP may produce dense smoke very rapidly. All smoke is toxic. Fire safety requires proper design of facilities and fire suppression systems, as well as precautions during construction and occupancy. Local codes, insurance requirements and any special needs of the product user will determine the correct fire-rated interior finish and fire suppression system necessary for a specific installation. We believe all information given is accurate, without guarantee. Since conditions of use are beyond our control, all risks are assumed by the user. Nothing herein shall be construed as a recommendation for uses which infringe on valid patents or as extending a license under valid patents. [www.astm.org/Standards/E84.htm](http://www.astm.org/Standards/E84.htm).

A global leading provider of resilient wall and ceiling coverings. Kemlite® was established in 1954 and the company changed names to Crane Composites in 2007. Crane Composites is headquartered in Channahon, IL and all our products are manufactured in the United States. We work with hundreds of distributors, ensuring our products are easily accessible and readily available to our customers.

THE FOLLOWING ARE TRADEMARKS OF CRANE COMPOSITES, INC. OR A RELATED COMPANY: GLASBORD, KEMPLITE, KEMPLY, SURFASEAL, SANIGRID, SILHOUETTE TRIMS AND VARIETEX

