

Composites

COMPOSITE WALL PANEL

PRODUCT CODE: RCHWM

STRUCTURAL WITH HONEYCOMB CORE

U.S. Patent No. 8,757,704 and Patents Pending

PRODUCT

Crane Composite Wall Panels are made with a honeycomb core, boasting a durable exterior gel coat finish on one side and reinforced with a fiberglass resin matrix on the other side. This panel is wood free and offers high strength-to-weight characteristics for structural applications. The honeycomb core provides stiffness and weight savings compared to traditional materials such as aluminum, steel, wood and fiberglass reinforced plywood panels. The wall size can be customized to suit your vehicle's needs.

PURPOSE

Crane Composite Wall Panels have been designed and formulated for use as a structural sidewall panel for various applications, including dry vans, truck bodies, and delivery vans.



DESIGN PROPERTIES

PRODUCT CODE	NOMINAL THICKNESS	NOMINAL WEIGHT	MAXIMUM LENGTH	MINIMUM WIDTH	COLOR
RCHWM	0.39" 10 mm	1.7 lbs/ft ² 8.3 kg/m ²	Available up to 38' 11.5 m	Available up to 96" 2.4 m	White 403

TYPICAL PHYSICAL PROPERTIES

PROPERTY	RCHWM	TEST METHOD
FLEXURAL STRENGTH	5.53 x 10 ³ psi 38.1 MPa	ASTM - D790
FLEXURAL MODULUS	5.48 x 10 ³ psi 3780 MPa	ASTM - D790
BENDING STIFFNESS	2.71 x 10 ³ lbf-in 306 N-m	CALCULATED

SPECIFICATIONS

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

COMPOSITION

Reinforcement: Random chopped fiberglass roving.

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

FINISHED PANEL QUALITY

1. The frontside of the panel shall have a smooth 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 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. Dimensions shall be as specified on purchase order, subject to the following tolerances:

WIDTH:	±1/8" (±3.2 mm)
LENGTH:	±1/8" (±3.2 mm) up to 12' (3.7 m)
SQUARENESS:	±1/8" (3.2 mm) in 48" (1.2 m) of width
THICKNESS:	±10% in 0.400" (10 mm) of thickness

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: Contact us for cleaning instructions.

SDS: Prior to working with our products, see our most current SDS at cranecomposites.com/sds.html.

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.

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 unacceptability, CCI will replace or refund the purchase price of the non-conforming product.

This product is not intended for Interior use that requires a class C fire rating.

Note: The fiberglass resin "B" side is not a finished surface and may contain some level of textured anomalies. These do not impact the panels physical properties, are consistent with Crane's manufacturing methods and should be considered normal.

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.

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.

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