CRANE Composites

technical data
3701

COOLING TOWER non-fire-rated frp

PRODUCT CODE: ***CTN

PRODUCT

Cooling Tower Non-Fire Rated (CTN) opaque Fiberglass Reinforced Plastic (FRP) panels are intended for use as casings and louvers for cooling towers. This product contains random chopped fiberglass for reinforcement.

PURPOSE

Cooling Tower Non-Fire Rated is used in applications where no fire rating is required.

DESIGN PROPERTIES

PRODUCT CODE	DESCRIPTION	TYPE	WEIGHT	COLOR	SIZE
008CTN	4.2" x 1.06" Corrugated	Opaque	8 oz./ft^2 12 oz./ft^2 16 oz./ft^2	675 Gray	42' x 12' - 20'
041CTN	5.33" x 1.75" V-Beam	Opaque	8 oz./ft^2 12 oz./ft^2	675 Gray	45" x 12' - 20'
455CTN	7.2" x 1.5" Box Rib	Opaque	8 oz./ft^2 12 oz./ft^2	675 Gray	39.25" x 12' - 20'
152CTN	Corner Roll	Opaque	8 oz./ft^2 12 oz./ft^2	675 Gray	6" x 6" x 96"

Corner Roll only available in 8oz. | Other widths and lengths available upon quotation. For Load Span Tables & Profile Drawings refer to Form #3700
12,000 sq. ft. per product, weight and colors required to manufacture. Orders from different customers may be batched to obtain manufacturing minimums, however lead time may be affected.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	CTN 8oz./ft^2	CTN 12oz./ft^2	CTN 16oz./ft^2	TEST METHOD
FLEXURAL STRENGTH	25 x 10^3 psi 172 MPa	25 x 10^3 psi 172 MPa	25 x 10^3 psi 172 MPa	ASTM - D790
FLEXURAL MODULUS	0.70 x 10^6 psi 4826 MPa	0.70 x 10^6 psi 4826 MPa	1.0 x 10^6 psi 6895 MPa	ASTM - D790
TENSILE STRENGTH	10 x 10^3 psi 69 MPa	10 x 10^3 psi 69 MPa	15 x 10^3 psi 103 MPa	ASTM - D638
TENSILE MODULUS	1.4 x 10^6 psi 9653 MPa	1.4 x 10^6 psi 9653 MPa	1.2 x 10^6 psi 8274 MPa	ASTM - D638
AVERAGE BURN RATE	≤ 2.5 in/min	≤ 2.5 in/min	N/A	ASTM - D635

COOLING TOWER NON-FIRE-RATED PANELS

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TESTING

Crane Composites panels meet or exceed applicable requirements of the following standards:

1. ASTM D3841, Standard Specification for Glass Fiber Reinforced Polyester Plastic Panels.
2. Code requirements of most state, county and municipal building departments.
3. Crane Composites is a recognized UL90 component manufacturer.

SPECIFICATIONS

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

COMPOSITION

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

FINISHED PANEL QUALITY

1. Panels shall have a wear side with a smooth or textured finish. Color shall be uniform throughout as specified. The backside shall be smooth. The backside surface may have some variations which do not affect functional properties and are not cause for rejection.
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: ±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
4. 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.

CERTIFICATIONS

1. FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274).

For other product formulations see technical data sheet CTA #3702.

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

STORAGE RECOMMENDATIONS

Store panels properly. While a single panel is engineered to withstand exposure to sunlight and the elements, a stack of panels will trap heat and moisture, causing internal clouding and/or yellowing in the panels. To avoid this irreversible effect, panels must be stored in a dry, shaded, well ventilated area. Skids should be elevated at one end by wood spacers. Failure to comply with recommended storage procedures will void the warranty on the panels.

CAUTIONS AND SAFETY WARNINGS

DO NOT WALK ON PANELS. Crane Composites panels are not intended to support the undistributed weight of workers. Roofing ladders or 1" x 12" planks, or equivalent means of protection must be used during any work on roofs. Provide fall protection in accordance with OSHA standard 29 CFR 1910 [see paragraph 1910.23(a)(4) AND (e)(8)]. Compliance with this regulation as well as any other local, state or federal safety requirements is the responsibility of the building owner, contractor and/or erector.

MAINTENANCE

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.