

GLASBORD® EMBOSSED CEILING PANELS

CLASS C FIRE RATING PER ASTM E-84 and CAN/ULC-S102-10 TESTED

REV. 8 | 06/18

PRODUCT CODE: CGI

PRODUCT

Glasbord with Surfaseal is made of fiberglass reinforced plastic. Glasbord is a durable, flexible building material and will not mold, mildew, rot or corrode. It exhibits excellent resistance to mild chemicals and moisture. The panel has a Class C rating for flame spread and smoke development when tested per ASTM E-84.

SURFASEAL FINISH

Surfaseal is a unique surface treatment that, when compared to ordinary FRP, exhibits up to ten times cleanability, six times the stain resistance and twice the abrasion resistance.

PURPOSE

Glasbord with Surfaseal embossed panels are designed for interior ceiling finishes where a Class C, sanitary, easy-to-clean panel is desired.

CEILING APPLICATION

Glasbord panels are approved for lay-in ceiling applications in a steel suspended ceiling system, without overlaid gypsum or insulation panels or blankets.

DESIGN PROPERTIES

PRODUCT CODE	NOMINAL THICKNESS	FINISH	COLOR	AVAILABLE SIZES
CGI	0.10" 2.5 mm	Embossed	White 85	2' x 2' 2' x 4' 0.6m x 0.6m 0.6 x 1.2m

Additional lengths, widths and colors available by quotation. 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	CGI	TEST METHOD
FLEXURAL STRENGTH	10 x 10 ³ psi 69 MPa	ASTM - D790
FLEXURAL MODULUS	0.98 x 10 ⁶ psi 6757 MPa	ASTM - D790
TENSILE STRENGTH	3.6 x 10 ³ psi 25 MPa	ASTM - D638
TENSILE MODULUS	1.4 x 10 ⁶ psi 9653 MPa	ASTM - D638
BARCOL HARDNESS	60	ASTM - D2583
IZOD IMPACT	6.3 ft-lb/in notched 0.34 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	2.0 x 10 ⁻⁵ in/in/°F 36 µm/m/°C	ASTM - D696
GARDNER IMPACT STRENGTH	35 in-lb 4.0 J	ASTM - D5420
WATER ABSORPTION	0.16%/24hrs@77°F @25°C	ASTM - D570
SURFACE BURNING CHARACTERISTICS	Class C	ASTM - E84
TABER ABRASION RESISTANCE (cs-17 wheels, 1000 g. Wt, 25 cycles)	0.01% Max Wt. Loss	Taber Test





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

1. Panels shall have a wear side with a pebble-like embossed finish (FXE, FX, PIF, FTSTF, CGI, PWI, PCI, FTSTF/FTSTJ, FX/CGPF, LPCE, FRFRJ/FX) OR smooth finish (FSFM, FSI, PSIF, CNSI, IPSA/IPSC/IPCN, FSQF, FSI) OR matte embossed finish (RE/RE*, REI) OR consistent pattern (STA/SSTA/LBALN/LNAM, STC/SSTC/LBCLN/FTBB).

Color shall be uniform throughout as specified. OR Panels shall have a wear side with a gelcoat finish. There shall be a contrasting core color. | SMXGJ/MXGCJ

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.
5. Panels shall be installed in accordance with manufacturer's guidelines as set forth in the Crane Composites Installation Guide (Form #6876).



CERTIFICATIONS

1. Meets USDA/FSIS requirements.
2. 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

3. FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274).
4. Meets minimum requirements of major model building codes for Class A interior wall and ceiling finishes of flame spread ≤ 25, smoke developed ≤450 (per ASTM E-84).
FXE, FSFM, FX, STA/SSTA/LBALN/LNAM, FX/CGPF, IPSA/IPSC/IPCN, FRFRJ/FX, FSI
5. Meets minimum requirements of major model building codes for Class C interior wall and ceiling finishes of flame spread ≤ 200, smoke developed ≤450 (per ASTM E-84).
PIF, FTSTF, PSIF, CGI, PWI, RE/RE*, REI, STC/SSTC/LBCLN/FTBB, SMXGJ/MXGCJ, FTSTF/FTSTJ, FSQF, FX/CGPF, LPCE, IPSA/IPSC/IPCN
6. Meeting certification requirements for CAN/ULC-S102. | FX, PCI, IPCN, CNSI
7. MEA Certified. MEA 16-85M. VOL. II | FX
8. Fire-X Glasbord (FXE and FSFM) is the only fiberglass reinforced interior wall and ceiling panel that is accepted under Factory Mutual Research approved FRP, Plastic Interior Finish Materials when installed in accordance with Factory Mutual Research Approval Standard 4880. This information is available at www.approvalguide.com and www.FRP.com/FMApproved.pdf.
FXE, FSFM,
9. Agriculture and Agri-Food Canada Certified | PCI, CNSI
10. This panel has earned GREENGUARD® Indoor Air Quality Certification (Certificate #16349-410, 16364-410, 16351-410) greenguard.org. | Varietex Class A/C (Certificate #16352-410) greenguard.org. | Varietex Gelcoat (Certificate #16350-410) greenguard.org. | DESIGNS (Certificate #15955-410) greenguard.org. | Glasbord (Certificate #15956-410) greenguard.org. | Glasbord FM (Certificate #15957-410) greenguard.org. | Sequentia
11. Biological Resistance rating of 0 – Excellent per ISO 846. | FSFM
12. Particle Emission ISO Class 5 – 8 per ISO 14644-1.

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.

