

GLASBORD® Embossed Panels

PRODUCT CODE: PCI

CAN/ULC-S102-M Tested

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 been tested to CAN/ULC-S102-M for flame spread and smoke development.

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 wall finishes where a CAN/ULC-S102-M tested, 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
PCI	0.09" 2.3 mm	Embossed	White 85 Colonial White 83 Ivory 84 Soft Beige 70 Silver 66 Pearl Gray 48	42" to 96" x 5' to 500' 11m x 2.4m 15m x 152.4m

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	PCI	TEST METHOD
FLEXURAL STRENGTH	15 x 103 psi 103 MPa	ASTM - D790
FLEXURAL MODULUS	0.9 x 106 psi 6205 MPa	ASTM - D790
TENSILE STRENGTH	6 x 103 psi 41 MPa	ASTM - D638
TENSILE MODULUS	1.3 x 10 ⁶ psi 8963 MPa	ASTM - D638
BARCOL HARDNESS	55	ASTM - D2583
IZOD IMPACT	11.0 ft-lb/in notched 0.59 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	1.6 x 10 ⁻⁵ in/in/°F 28 µm/m/°C	ASTM - D696
R VALUE	0.23 hr·ft ² ·°F/Btu 0.047 hr·m ² ·°C/kcal	ASTM - D3029
WATER ABSORPTION	0.20%/24hrs @77°F 25°C	ASTM - D570
TABER ABRASION RESISTANCE (cs-17 wheels, 1000g, Wt. 25 cycles)	0.03% MAX WT. LOSS	Taber Test

SPECIFICATIONS

Valto, Inc. (VALTO) 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 pebbled-like embossed 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: $\pm 1/8"$ (± 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. Product quality standards and tolerances for panel weight and thickness shall be as set forth in VALTO's 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 VALTO 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.valtoem.com/testreports.html
3. FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274).
4. Meeting certification requirements for CAN/ULC-S102.
5. Agriculture and Agri-Food Canada Approval
6. This panel has earned GREENGUARD® Indoor Air Quality Certification (Certificate #15955-410) greenguard.org.



IDENTIFICATION

Product identified by 1 gray thread on the back.

STORAGE REQUIREMENTS

All VALTO FRP products should be stored indoors.

SERVICEABLE TEMPERATURE RANGE

Panels will perform in temperatures from -40°F (-40°C) to 130°F (55°C). For use in environments beyond this range contact VALTO for recommendations.

FABRICATING RECOMMENDATIONS

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

CLEANING INSTRUCTIONS: Available from VALTO.

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

LIMITATIONS

Near Heat Source: VALTO panels will discolor when installed behind or near any heat source which radiates temperatures exceeding 130°F (55°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.

VALTO 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, VALTO should be notified at once. Upon verification of unacceptability, that portion of material will be replaced by VALTO. VALTO's 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 VALTO products under actual fire conditions and this product has not been tested by VALTO 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").

VALTO 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.

At Valto, we partner with our customers, and through innovation, deliver advanced materials that enhance everyday environments. We succeed through a culture of collaboration, continuous improvement, and excellence. With integrity at our core, we challenge the status quo and pursue innovative approaches that benefit our customers and associates.

Since 1954, Valto Engineered Materials has provided innovative products and services and is a leading provider of FRP composite panels. Our lightweight composite products deliver unsurpassed strength and durability; and we continue to pioneer next level performance in building materials, recreational vehicles, and transportation.