VALTO | ENGINEERED MATERIALS

technical data
2501

SEQUENTIA® Embossed Panels

PRODUCT CODE: FTSTF + FTSTJ

CLASS C FIRE RATING PER ASTM E-84

PRODUCT

Sequentia is made of fiberglass reinforced plastic. Sequentia 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.

PURPOSE

Sequentia embossed panels are designed for interior wall finishes where a Class C, sanitary, easy-to-clean panel is desired.

DESIGN PROPERTIES

PRODUCT CODE	NOMINAL THICKNESS	FINISH	COLOR		AVAILABLE SIZES
FTSTF	0.09" | 2.3 mm	Embossed	White | 1130 Almond | 1114	Black | 1201	4' x 8' | 4' x 9' | 4' x 10' | 4' x 12' 1.2 m x 2.4 m | 1.2 m x 2.7 m | 1.2 m x 3.0 m | 1.2 m x 3.7 m
FTSTJ	0.090" | 2.3 mm	Embossed	Beige | 0070 Pearl Gray | 0048	Ivory | 0084 Silver | 0066	4' x 8' | 4' x 9' | 4' x 10' | 4' x 12' 1.2 m x 2.4 m | 1.2 m x 2.7 m | 1.2 m x 3.0 m | 1.2 m x 3.7 m
FTSTJ	0.12" | 3.0 mm	Embossed	White | 1130		4' x 8' | 4' x 9' | 4' x 10' | 4' x 12' 1.2 m x 2.4 m | 1.2 m x 2.7 m | 1.2 m x 3.0 m | 1.2 m x 3.7 m

FTSTF: 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.

FTSTJ: Additional widths and colors available by quotation. For high temperature and high humidity applications, please use PWI product (see form #6229 for more information or contact VALTO). 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	FTSTF 0.090"	FTSTJ 0.090"	FTSTF 0.12"	TEST METHOD
FLEXURAL STRENGTH	7×10^3 psi | 48 MPa	13×10^3 psi | 89 MPa	8×10^3 psi | 55 MPa	ASTM - D790
FLEXURAL MODULUS	0.2×10^6 psi | 1379 MPa	0.6×10^6 psi | 4137 MPa	0.35×10^6 psi | 2413 MPa	ASTM - D790
TENSILE STRENGTH	6×10^3 psi | 41 MPa	6.8×10^3 psi | 47 MPa	8×10^3 psi | 55 MPa	ASTM - D638
TENSILE MODULUS	0.5×10^6 psi | 3447 MPa	0.9×10^6 psi | 6205 MPa	0.5×10^6 psi | 3447 MPa	ASTM - D638
BARCOL HARDNESS	25	40	30	ASTM - D2583
IZOD IMPACT	3.0 ft-lb/in notched 0.16 J/mm	15.1 ft-lb/in notched 0.81 J/mm	4.0 ft-lb/in notched 0.21 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	2.3×10^{-5} 10/10/°F 41 µm/m/°C	1.6×10^{-5} 10/10/°F 29 µm/m/°C	2.3×10^{-5} 10/10/°F 41 µm/m/°C	ASTM - D696
GARDNER IMPACT STRENGTH	30 in-lb | 3.4 J	30 in-lb | 3.4 J	30 in-lb | 3.4 J	ASTM - D5420
WATER ABSORPTION	<0.75%/24hrs | @77°F | 25°C	<0.16%/24hrs @77°F | 25°C	<0.75%/24hrs | @77°F | 25°C	ASTM - D570
SURFACE BURNING CHARACTERISTICS	Class C	Class C	Class C	ASTM - E84
TABER ABRASION RESISTANCE (cs-17 wheels, 1000g. Wt, 25 cycles)	0.02%Max Wt. Loss	0.01%Max Wt. Loss	0.02%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 pebble-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: ±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 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. 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).
5. This panel has earned GREENGUARD® Indoor Air Quality Certification (Certificate #15957-410) greenguard.org.

GREENGUARD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD

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.

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.

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.

VALTOfrp.com | 1.800.435.0080 | sales@valtoem.com
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