KEMPLY® Laminated Panels

PRODUCT CODE: KEM

PRODUCT

Kemply Laminated Wall Panels are manufactured by laminating a fiberglass reinforced panel (FRP) "skin" to a substrate, such as oriented strand board (OSB), plywood, gypsum, fluted polypropylene, or aluminum composite core (ACP) and a variety of other materials. Ceilings are available in gypsum, fluted polypropylene and ACP substrates only.

Due to the fluctuation in substrate material costs, panels are quoted on a custom basis and quotes are valid for 30 days from date quoted unless otherwise negotiated.

PURPOSE

Kemply Laminated Wall and Ceiling Panels are used in a variety of applications where a sturdy laminated wall or ceiling panel is required.

DESIGN PROPERTIES

SUBSTRATE	SUBSTRATE THICKNESS	AVAILABLE SIZES
Gypsum	1/2" | 12.7 mm 5/8" | 15.9 mm	4' x 8' | 4' x 10' | 23-3/4" x 23-3/4" | 23-3/4" x 48" 1.2 m x 2.4 m | 1.2 m x 3.0 m | 603.3 mm x 603.3 mm | 603.3 mm x 1219.2 mm
Plywood	1/4" | 6.4 mm 1/2" | 12.7 mm 5/8" | 15.9 mm 3/4" | 19.1 mm	4' x 8' | 4' x 10' | 4' x 12' 1.2 m x 2.4 m | 1.2 m x 3.0 m | 1.2 m x 3.7 m
Oriented Strand Board (OSB)	3/8" | 9.5 mm 1/2" | 12.7 mm 3/4" | 19.1 mm 7/16" | 11.1 mm (spcial order only)	4' x 8' | 4' x 10' | 4' x 12' 1.2 m x 2.4 m | 1.2 m x 3.0 m | 1.2 m x 3.7 m
Fluted Polypropylene	0.32" | 8.1 mm 0.4" | 10.2 mm	4' x 8' | 4' x 10' | 23-3/4" x 23-3/4" | 23-3/4" x 48" 1.2 m x 2.4 m | 1.2 m x 3.0 m | 603.3 mm x 603.3 mm | 603.3 mm x 1219.2 mm
Aluminum Composite Core (ACP)	0.12" | 3mm Single or Double Sided 0.24" | 6m Single or Double Sided Class A Fire Rated	23-3/4" x 23-3/4" | 23-3/4" x 48" 603.3 mm x 603.3 mm | 603.3 mm x 1219.2 mm

SANIGRID + KEMPLY LAMINATED CEILING PANEL SIZES

GRID SIZE	GLASBORD LAMINATED PANEL SUBSTRATE THICKNESS			
	0.12" | 3mm	**0.24" | 6mm**	**0.32" | 8.1mm**	**0.4" | 10.2mm**
A | 2' x 4' | 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m
B | 2' x 2' | 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m
C | 2' x 2' | 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m
GRID SIZE	**0.12" | 3mm**	**0.24" | 6mm**	**0.32" | 8.1mm**	**0.4" | 10.2mm**
A | 2' x 4' | 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	23-3/4" x 48" 0.6m x 1.2m	NOT RECOMMENDED FOR CEILING INSTALLATION
B | 2' x 2' | 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	23-3/4" x 23-3/4" 0.6m x 0.6m	
C | 2' x 2' | 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	23-3/4" x 24" 0.6m x 0.6m	

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. FRP skin shall not delaminate from the substrate when edges are securely fastened to an adequate structural system, and when joints are edges are protected with a permanently felxible silicone-like caulking compound and suitable for vinyl or metal division bars.
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. KEM with 0.075" FSI laminated to ACP 3mm 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).
5. This panel has earned GREENGUARD® Indoor Air Quality Certification (Certificate #15955-410) 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.

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.

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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