

MARLITE MAP SYSTEM
SECTION 09770 PREFINISHED PANELS - INTERIOR

(rev. Sept. '09)

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Decorative pre-finished wall surfacing systems and trim

1.02 RELATED SECTIONS

- A. 09250 Gypsum Board
- B. 05400 Cold Formed Metal Framing
- C. 06010 Lumber

1.03 REFERENCES

- A. AWI Quality Standards (Architectural Woodwork Institute)
- B. ASTM E-84 (Method of test for surface burning characteristics of building materials)
- C. BHMA (Builder's Hardware Manufacturers Associations)

1.04 SUBMITTAL

- A. Provide manufacturer's product data sheets for approval.
- B. Provide manufacturer's recommended maintenance procedures to the owner.

1.05 DELIVERY, STORAGE AND HANDLING

- A. All products are to be packaged at the factory in heavy cardboard cartons or bulk packed on pallets..
All shipments to the job site shall be made on wooden pallets.

1.06 WARRANTY

- A. All products shall be warranted to be free from defects for a period of 30 days after installation.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Decorative interior wall surfacing system and trim shall be manufactured by Marlite, 202 Harger St., Dover, OH 44622; PH: (330) 343-6621.

2.02 MATERIALS

- A. All decorative interior wall surface systems shall be "SURFACE SYSTEMS", designated as System Ten, System Twenty, System Thirty, or System Forty (Specifier to select one).
 - 1. System Ten. Shall consist of panels with square cut edges, installed utilizing a concealed Horizontal Hidden Main Rail and concealed Vertical Hidden Cross Spline, for proper panel alignment.
(Specifier, see Item 5 below)
 - 2. System Twenty. Shall consist of panels with square cut edges, installed utilizing an exposed Horizontal Channel Main Rail and exposed Vertical Narrow Cross Spline, for proper panel alignment.
(Specifier, see Item 5 below)
 - 3. System Thirty. Shall consist of panels with square cut edges, installed utilizing an exposed Horizontal Channel Main Rail and exposed Vertical Channel Cross Spline, for proper panel alignment.
(Specifier, see Item 5 below)
 - 4. System Forty. Shall consist of panels with square cut edges, installed utilizing an exposed Horizontal Narrow Main Rail and exposed Vertical Narrow Cross Splines, for proper panel alignment.
(Specifier, see Item 5 below)
 - 5. System One Hundred. Shall consist of panels with square cut edges, installed utilizing an exposed Horizontal Broad Profile Main Rail and exposed Vertical Broad Profile Cross Spline, for proper panel alignment.
(Specifier, see Item 5 below)
 - 6. All exposed application hardware shall be (System Ten, Twenty, Thirty, Forty & One Hundred only) provided in (Specifier to select)
 - a. Clear Satin Anodized Aluminum
 - b. Black Satin Anodized Aluminum
- B. All decorative interior wall surfaces shall be "SURFACE SYSTEMS" with panel construction and finish as follows.
(Specifier to select one or more)
 - 1. Marlite Finish

Faux Prints are printed on a wood fiber substrate, and finished with a high heat cured modified acrylic topcoat. Panels are 3/4" thick, edges are square, and sealed, resulting in a black edge.

Specifier to select from 16 Woodgrain Series (vertical grain, standard) and 8 Abstracts Series.

2. Metal Veneers

Metal panels are .024" thick aluminum sheets (vertical grain), laminated to a MDF, Class C substrate. Panels are 3/4" thick, square cut, with a dark edge.

(Specifier to select from Standard Metal Veneer Selections)

2.02 MATERIALS

3. Wood Veneers

Wood Veneers utilize a wood fiber substrate coated with a furniture grade catalyzed finish. Panels are 3/4" thick, square cut, with color coordinating edges.

Each veneer will exhibit individual features and character marks, like any other wood veneer product. Twenty selected veneers are listed as standard, but custom veneers are available.

When matching custom veneer, it is advisable to request a flitch sample from the veneer to be used for the specific project after submission of a sample to be matched. Fire Rating Classification for Fire Rated Wood Veneer Applications (Specifier to choose fire rating Class A or Class C).

To meet ASTM E-84, BOCA, ICBO, SBCCI and NFPA requirements, Marlite Fire Rated Wood Veneer panels are comprised of Class A components, as requested by a specifier to meet, or exceed, restrictions where rated fire retardant surfaces are required.

ASTM E-84 Definition:

Strict interpretation of the ASTM E-84 fire rating applies only to surface burning characteristics of a panel. Marlite MAP System fire rated panels and trim are intended to provide a Class A fire rated application, as defined by ASTM E-84 classification, and are not intended to be included in the creation of fire rated demising wall construction. ASTM E-84 fire rating for a Class A material requires a flame spread 25 or less, along with a smoke development maximum of 450. ASTM E-84 fire rating for a Class C material requires a flame spread of between 26 and 200, along with a smoke development maximum of 450.

Marlite MAP System Veneer panels consist of three laminated components.

A. Veneer Face

The exposed surface is a layer of veneer measuring between .010" and .015". With a catalyzed finish of approx. .003". Totalling .013" to .018" for the face material.

As the panel face consists of a material that is less than 1/28" (.0357") thick and does not contribute to or pose an unusual hazard. This allows an exemption for the face material, according to the ICBO - Uniform Building Code. Due to this exemption, the substrate material must be rated to the local code requirements for a particular installation.

B. Substrate

The substrate is ASTM E-84 rated MDF wood fiber product.

Due to the exemption allowance provided for materials of less than 1/28" (.0357"), the substrate upon which the face material is applied must carry a fire rating as required by local code for a particular installation. Marlite's Fire Rated Panels use an ASTM E-84, Class A rated wood fiber substrate (MDF) that carries a rating as follows;

1. Class A

Tested by Underwriters Laboratories, Inc.

Flame spread	20	(12 mm – 25 mm MDF)
Smoke Developed	130	(12 mm – 25 mm MDF)

2. Class C

Tested by Intertek Testing Services, Inc.

Flame spread	115	.750 in. MDF
Smoke Developed	80	.750 in. MDF

C. Balancing Backer

As all current U.S. building fire rating codes are pertinent only to surface burning characteristics of applied materials, the balancing backer is not subject to scrutiny within fire ratings. The balancing backer is a veneer measuring between .015" and .025" and falls within the exemption outlined for finishes less than 1/28" (.0357") thickness that do not contribute to or pose an unusual additional hazard.

4. Azure Finishes

Azure panels utilize a wood fiber substrate with multiple coating layers consisting of seal coats, color coats, imaging and protective overcoats.

The Azure finishes are produced via a proprietary Marlite Giclee Imaging Process. Twenty-two finishes are listed as standard, but custom finishes can be produced to customer specification. (Specifier to select one or more)

When custom Azure finishes are specified, Marlite is to submit lab samples to simulate color, pattern and finish, for customer approval. Customer must provide artwork by submission or purchase. Size and quantity of samples will be determined by availability and customer needs.

2.02 MATERIALS

5. High Pressure Laminate

High Pressure Laminate panels have a "vertical grade" decorative laminate face on a wood fiber substrate. Specifier to choose decorative face. Panels are 3/4" thick, square cut. All edges are sealed black.

- C. Grain direction (if any) shall be manufacturer's standard (typically vertical), except as requested by specifier.
- D. All panel sizes shall be (specifier to select as required.)
 - 1. Nominal 24" wide x 24" high (actual panel size varies dependent upon system)
 - 2. Custom Sizes (Specifier must consult with Marlite before specifying)

2.03 ACCESSORIES

- A. All trim specified shall be heavy weight extruded aluminum 6063-T5 alloy prefinished at the factory. Specifier to select one (or more) trim profile(s) and trim finish.)
 - 1. Trim Profiles for 3/4" thick panels
 - a. Narrow Line - Outside Corner trim shall be Marlite's part #NL-760 Outside Corner, provided in 10' lengths.
 - b. Narrow Line - Edge/Inside Corner trim shall be Marlite's part #NL-770 Edge/Inside Corner, provided in 10' lengths.
 - c. Channel Profile Outside Corner w/ Bullnose Wood Insert, shall be Marlite's part #C-760-WB, provided in 10' lengths.

- d. Channel Profile Outside Corner w/ Fluted Wood Insert, shall be Marlite's part #C-760-WF, provided in 10' lengths.
- e. Narrow Profile Outside Corner w/ Bullnose Wood Insert, shall be Marlite's part #N-760-WB, provided in 10' lengths.
- f. Narrow Profile Outside Corner w/ Fluted Wood Insert, shall be Marlite's part #N-760-WF, provided in 10' lengths.
- g. Hidden Profile Outside Corner w/ Square Wood Insert, shall be Marlite's part #H-760-WS, provided in 10' lengths.

2. Trim Finishes (Specifier to select)

- a. Clear Satin Anodized Aluminum
- b. Black Satin Anodized Aluminum
- c. Wood Insert finished to customer spec.

2.03 ACCESSORIES

B. All Cap, Post and Signpost components shall be solid aluminum with powdercoated finish and shall provide for decorative and/or functional retail application. (Specifier to select component and finish)

- 1. Flat Cap & Anchor - 1-1/2" dia. X 1/2"
- 2. Flat Post & Anchor -1-1/2" dia. X 2-1/2"
- 3. Signpost & Anchor - 1-1/2" dia. X 3-1/4"
- 4. Finish
 - a. Clear Satin Anodized Aluminum
 - b. Black Satin Anodized Aluminum

2.04 FABRICATION

A. All Surface Systems panels, hardware and accessories shall be factory finished and ready to install. Field fabrication will be required at perimeter

conditions.

- B. Panel edges must be refinished per manufacturer's instruction after field cutting, before installation.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Many Surface Systems panels are man-made wood fiber products and are subject to the effects of humidity and temperature. Do not use in high humidity areas.
- B. Open cartons and carefully inspect all panels.
- C. Due to textures, woodgrain patterns, materials and manufacturing techniques, some panels may vary in color consistency, tone and pattern. These variations are not to be considered as defects.

For the most pleasing appearance, arrange panels on each wall to achieve the best combination of color, texture and grain, before installing.

Contact Marlite with questions or problems @ 800-377-1221.

PART 3 EXECUTION

3.02 PREPARATION

- A. Structural walls should be finished, with building completely closed. Walls shall be thoroughly dry before starting installation. A vapor barrier should be used on exterior walls behind backing to discourage warping.
- B. Panels must be applied over a smooth, solid, flat backing such as plywood or drywall. All drywall joints should be taped and finished. Walls should be primed before installation begins.
- C. Protect existing surfaces with drop cloths.

3.03 CONDITIONING

- A. All panels shall be allowed to equalize to the moisture and temperature in the room environment prior to installation. To ensure product performance, a temperature range

of 60°-80°F and a humidity range of 35-55% must be maintained during storage, installation and product life cycle.

3.04 INSTALLATION

- A. Install all materials in strict accordance with the manufacturer's installation instructions.
- B. C-109 Marlite Construction adhesive is the adhesive recommended for installation of Surface Systems. C-109 adhesive is a solvent based material and local code restrictions may require substitution. Any adhesive substitution must have the manufacturer's approval.

It is the responsibility of the specifier and/or contractor to determine conformance of Marlite's, or any other adhesive, with local code restrictions.

- C. Avoid contamination of the panel faces with adhesives, solvents or cleaners during installation.

PART 3 EXECUTION

3.05 CLEANING

- A. Clean panels, trim and hardware according to the manufacturer's recommendations.

END OF SECTION