

## SECTION 09 77 00

### SPECIAL WALL SURFACING | Decorative Interior Wall Panels

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Decorative wall panels with textured surfaces.
- B. Mounting hardware, adhesives, accessories and trims.

##### 1.02 RELATED SECTIONS

- A. Section 05 40 00 Cold-Formed Metal Framing
- B. Section 06 10 00: Rough Carpentry.
- C. Section 06 20 00: Finish Carpentry
- D. Section 09 21 16: Gypsum Board Assemblies.

##### 1.03 REFERENCES

**Specifier Note:** Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation, and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 01 References Section may establish the edition date of standards. This article does not require compliance with the standard(s) but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

- A. General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to the extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.

- 1. ASTM International
  - a. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.

##### 1.03 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide decorative wall panels which have been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.

##### 1.03 SUBMITTALS

- A. See Section 01 30 00 (01300) - Administrative Requirements, for submittals procedures.
- B. Product Data: Submit manufacturer's product data, storage, handling and preparation requirements, and installation instructions.
- C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors, patterns and textures. Indicate location and dimension of joints and fastener attachment.
- D. Samples: Submit selection and verification samples for finishes, colors and textures. Submit 2 samples of each type of panel, trim and fastener.
- E. Quality Assurance/Control Submittals: Submit the following:

1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
2. Certificates:
  - a. Submit manufacturer's certificate that products meet or exceed specified requirements.
  - b. Submit certificate of installer's qualifications.

**Specifier Note:** For more information on installation recommendations, visit manufacturer's website at [www.interra-usa.com](http://www.interra-usa.com).

3. Manufacturer's Instructions: Manufacturer's installation instructions
- F. Closeout Submittals: Submit the following:
1. Operations and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 01 Closeout Submittals (Maintenance Data and Operation Data) Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
  2. Warranty documents specified herein.

#### **1.04 QUALITY ASSURANCE**

**Specifier Note:** Article below should include prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 01 Quality Assurance Section.

- A. Installer Qualifications: Installer shall have a minimum of X years experience with composite wall panel work similar in scope and size to this project.

**Specifier Note:** Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 01 Regulatory Requirements Section. Repetitive statements should be avoided.

- B. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies].

**Specifier Note:** Retain paragraph below if mock-up is required.

- C. Mock-Ups: [Specify requirements for mock-up].
1. Subject to acceptance by owner, mock-up may be retained as part of finish work.
  2. If mock-up is not retained, remove and properly dispose of mock-up.

**Specifier Note:** Retain paragraph below if preinstallation meeting is required.

- D. Preinstallation Meetings: [Specify requirements for meeting].

#### **1.05 DELIVERY, STORAGE, & HANDLING**

**Specifier Note:** Article below should include special and unique requirements. Coordinate article below with Division 01 Product Requirements Section.

- A. General: Comply with Division 01 Product Requirements Section.
- B. Lead Time: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- D. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1. Store panels stacked flat indoors away from sunlight.
  2. Lay panels flat. Do not stand panels on edge.
  3. Protect panels from moisture.
  4. Do not store panels in contact with the floor or against an outside wall.
  5. Protect tongue edges of panels from damage when handling.
- E. Handling: Remove foreign matter from face of panel by using a soft bristle brush, avoiding abrasive action.

#### 1.06 PROJECT/SITE CONDITIONS

**Specifier Note:** In article below, state physical or environmental limitations or criteria for installation such as weather, temperature, humidity, ventilation or illumination required for proper installation or application.

- A. Environmental Requirements:
1. Installation shall not begin until building is enclosed, permanent heating and cooling equipment is in operation and residual moisture from plaster, concrete or terrazzo work has dissipated.
  2. Install panels at the same conditions as the room's normal operating temperatures after building is occupied.
  3. Provide ventilation to disperse fumes during application of adhesive as recommended by adhesive manufacturer.
  4. Do not install wall system until normal lighting conditions exist. Normal lighting conditions are described as those in place when the project is finished.
- B. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
1. Walls and openings must be level, plumb, straight, in-line, and square.

#### 1.07 WARRANTY

**Specifier Note:** Coordinate article below with Conditions of the Contract and with Division 01 Closeout Submittals (Warranty) Section.

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.

**Specifier Note:** Coordinate paragraph below with manufacturer's warranty requirements.

- C. Warranty Period: [Specify term] years commencing on Date of Substantial Completion.
1. Warranty extends to products assembled / installed and used in the manner intended and does not cover damage or failure caused by: misuse, abuse or accidents, exposure to extreme temperature, improper installation, improper maintenance and exposure to water or excessive humidity or excessive moisture.

#### 1.08 MAINTENANCE

**Specifier Note:** Retain article below for proprietary method specification. Add product attributes; performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

- A. Extra Materials: Provide [A recommended percentage of] [Specify percentage] additional material for use by owner in building maintenance and repair.

## PART 2 PRODUCTS

### 2.01 DECORATIVE WALL PANELS

**Specifier Note: Retain article below for proprietary method specification. Add product attributes; performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.**

- A. Manufacturer: Daiken (Japan)
1. Contact: Interra USA, Inc., 900 SW 16th Street, Suite 125, Renton, WA 98057; Telephone: (425) 277-7850; website: www.interra-usa.com.
- B. Proprietary Products/Systems: Composite wall panels, including the following:
1. Gravio Embossed Noncombustible Decorative Interior Wall Board
    - a. Texture: Textured [Specify texture.]
    - b. Composition: volcanic ash, a renewable material, combined with steel slug, as the base material; Volcanic silicates fiber-reinforced multi-layer board
    - c. Thickness: 3/8" (0.375")/9mm
    - d. Fire-Rating: ASTM E84 Class: A
    - e. Color: [Specify color(s)]
    - f. Size: 18 inches x 6 feet.

### 2.02 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

### 2.03 ACCESSORIES

**Specifier Note: Specify subordinate or secondary items that aid and assist primary products specified above or are necessary for preparation or installation of those items. Specify method of joint seam treatment below under Installation.**

**Specifier Note: Paragraphs below list proprietary durable, decorative wall panel products offered by Daiken (Interra). Select and retain product characteristics required; delete characteristics not required. Refer to manufacturer's product data or other publications for more information.**

- A. Joiners: [Specify Resin coordinating joiners] [Specify color]. [Specify Aluminum coordinating joiners] [Specify color]
- B. Outlet Spacers: [Specify manufacturer's optional outlet spacer]
- C. Adhesive: Speedle Constructions Adhesive (panel manufacturer specified).
- D. Tape: Speedle Construction Tape (panel manufacturer specified).
- E. Pin Nails: per manufacturer.
- F. Touch Up Paint: per manufacturer. [Specify color]

## PART 3 EXECUTION

### 3.01 MANUFACTURER'S INSTRUCTIONS

- A. Adhesive: Provide panel adhesive as recommended by panel manufacturer.
- B. Trim and Seam Treatment:
  - 1. Manufacturer: Acceptable to panel manufacturer.
  - 2. Manufacturer Designation: [Corner molding] [Division bar] [Cap] [Specify manufacturer designation.].

**Specifier Note: Retain one of the two subparagraphs below to suit project requirements.**

- 3. Material and Color: [Aluminum Moldings ] [Specify color ]
  - 4. Material and Color: [Standard Resin Moldings ] [Specify color ]
- C. Fasteners: Provide appropriate fasteners and accessories as required to properly complete installation.

### **3.02 PREPARATION**

- A. Comply with the instructions and recommendations of the durable, decorative wall panel manufacturer.

**Specifier Note: Specify actions to physically determine that conditions are acceptable to receive primary products of the section.**

- B. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions. Verify that site conditions are acceptable for installation of the decorative wall panels. Examine back-up surfaces to determine that corners are plumb and straight, surfaces are smooth, uniform, clean and free from foreign matter, nails are countersunk and joints and cracks are filled flush and smooth with the adjoining surface. Do not proceed with installation of the decorative wall panels until unacceptable conditions are corrected.

### **3.03 INSTALLATION**

- A. General: Prior to installing panels, remove packaging and allow panels to acclimate to room temperature and humidity for at least 48 hours.
- B. Wall substrate must be dry and free from dirt, dust, grease and other contaminants. Walls must be flat and even. Remove high spots and fill low spots with material acceptable to panel manufacturer.
- C. Remove wallpaper, soluble or loose paint and other foreign matter that might interfere with proper adhesive bond. Painted walls must be prepared to adhesive manufacturer specifications for proper adhesion.

**Specifier Note: Coordinate article below with manufacturer's recommended installation requirements. For more information on installation recommendations, visit manufacturer's website at [www.interra-usa.com](http://www.interra-usa.com).**

- D. Panel Installation Procedures:
  - 1. Inspect panels for any defects immediately. Do not install panels of unacceptable quality. Field cutting of all wall systems should be accomplished using a circular saw or a hand saw (Melamine saw).
  - 2. Position panel so that the saw blade enters the rear side of panel to avoid chipping or damage. Protect panel surfaces before starting work in compliance with manufacturer's recommendations.
  - 3. Follow adhesive manufacturer's recommendations for appropriate height of adhesive and do not allow adhesive to skin over. When decorative panels are installed on an exterior wall or wet area, provide a barrier sheet and/or follow the adhesive manufacturer's installation

recommendations for a secure bond.

- a. Plan panel layout so seams are not directly over seams of substrate.
- b. Apply adhesive directly to back back surface of wall panel in compliance with manufacturer's installation instructions.
- c. Install with pin nails or double sided tape per manufacturer's instructions.
- d. Install panel aligned with reference line at bottom of work area. Continue installing panels using this method working upwards.
- e. Align tongue portions of panels.
- f. When installing panels any from floors, use battens or similar support material to cary the weight of panel material until adhesive sets.
- g. Allow adhesive to fully set being careful to avoid movement of panels and allowing water to come into contact with the panels during curing.
- h. Install trim pieces in compliance with manufacturer's instructions.

### **3.04 CLEANING**

Specifier Note: Specify the final actions required to clean installed equipment or other completed work to properly function or perform. Coordinate article below with Division 01 Execution Requirements (Cleaning) Section.

- A. Clean panel surfaces in compliance with manufacturer's recommendations.

### **3.05 PROTECTION**

Specifier Note: Specify provisions for protecting work after installation but prior to acceptance by the owner. Coordinate article below with Division 01 Execution Requirements Section.

- A. Protect installed work from damage due to subsequent construction activity on the site.

**END OF SECTION**