

# SPECIFICATION

CSIGYPSUM3D®

## SECTION 06261 - MINERAL PROFILE PANELING

### 1. GENERAL

#### 1.1 SUMMARY

- A. Section Includes: composite mineral profile paneling and seam finishing materials to create a continuous, three dimensional sculptured wall surface.
- B. Related Requirements:
  - 1. 09912–Interior Painting

#### 1.2 ADMINISTRATIVE REQUIREMENTS

- A. Pre-installation Meetings:
  - 1. Convene meeting at project site within one week of scheduled start of installation with representatives of the following in attendance: Owner, Architect, General Contractor, Installer, Finisher, and Painter.
  - 2. Review substrate conditions, requirements of related work, installation instructions, seam finishing, and painting instructions, storage and handling procedures, and protection measures.
  - 3. Keep minutes of meeting including responsibilities of various parties and deviations from specifications and installation instructions.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: Each product specified.

- B. Shop Drawings: Show standard and project specific details including termination at adjacent surfaces.
- C. Samples: Minimum 12 by 12 inch panel of specified design(s).

#### **1.4 INFORMATIONAL SUBMITTALS**

- A. Manufacturer's installation instructions.

#### **1.7 QUALITY ASSURANCE**

- A. Field Samples:
  - 1. Provide in a location selected by Architect showing representative sample of installed product including finished seam.
  - 2. Minimum Size: 5 by 5 feet.
  - 3. Approved field samples may remain as part of completed Work.

#### **1.8 DELIVERY, STORAGE, AND HANDLING**

- A. Storage and Handling Requirements:
  - 1. Store panels in fully enclosed space, protected against damage from moisture, direct sunlight, and surface contamination.
  - 2. Store panels vertically, in shipping crates, until ready to be installed. Loosen crate lids to allow for venting. Do not stack or lean against walls.
  - 3. Store panels in area of installation minimum 24 hours prior to installation.

#### **1.9 FIELD CONDITIONS**

- A. Ambient Conditions:
  - 1. HVAC: Operate HVAC system to maintain occupancy level temperature and relative humidity conditions (35 to 67 percent) in the area of installation from 24 hours prior to delivery of panels to the installation area through remainder of construction period.
  - 2. Lighting: Permanent project lighting, including any special lighting used to highlight the

profiled panels, must be operational prior to seam finishing.

## 1.10 WARRANTY

- A. Manufacturer Warranty: Provide manufacturer's standard limited warranty.

## 2. PRODUCTS

### 2.1 MANUFACTURER

- A. CSI Wall Panels  
Tel: 800 213 0653  
E-mail: [info@csiwallpanels.com](mailto:info@csiwallpanels.com)  
Headquarters & Showroom: 9901 West 74th St. Minneapolis, MN 55344, USA
- B. Substitution Limitations: No substitutions allowed

### 2.2 COMPONENTS

- A. Profile Panel: Smooth surface mineral composite panel.
  - 1. Size: 24" x 24"
- C. Installation Materials.
  - 1. Dry Mix Joint Compound: SHEETROCK® brand EASY SANDTM 45, or BEADEX® brand SILVER SETTM 40.
  - 2. Acrylic Fortifier: THORO® ACRYL 60®.
  - 3. Construction Adhesive: PL® Polyurethane Premium Construction Adhesive.
  - 4. Primer Sealer: GLIDDEN® GRIPPER® WHITE PRIMER/SEALER GL-3210-1200.
  - 5. Countersink Drill Bit with Depth Stop-Collar: No. 7.
  - 6. Flexible Spreader: MUDTOOLS SMT-Y2
  - 7. Sandpaper: No-Load 220G, No-Load 150G.

## **2.3 ACCESSORIES**

- A. Anchors: As recommended by manufacturer for CMU substrate.
- B. Screws: Coarse thread, drywall type, length as required by panel design and in accordance with Manufacturer's Installation Instructions.

# **3. EXECUTION**

## **3.1 EXAMINATION**

- A. Examine substrates upon which profile paneling will be installed.
  - 1. Verify that substrate is a material listed as an acceptable substrate by the profile paneling manufacturer.
- B. Verify that permanent project lighting is in place and operational prior to seam finishing.
- C. Coordinate with responsible entity to correct unsatisfactory conditions.
- D. Commencement of work by installer is acceptance of substrate conditions.

## **3.2 INSTALLATION**

- A. Install profile paneling in accordance with Manufacturer's Installation Instructions. Sealing and painting shall be performed under Section 09912-Interior Painting.
- B. Seam finishing shall be level 5 performed per manufacturer's instructions under Section 09250-Gypsum Board
  - 1. Level 5: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges, and apply skim coat of joint compound over entire surface.

## **3.3 PROTECTION**

A. Protect finished work from damage during remainder of construction period.

END OF SECTION 06261

# SPECIFICATION

CSIGYPSUM3D®

## SECTION 09912 - INTERIOR PAINTING

### 1. GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section includes surface preparation and the application of paint systems on the following interior substrates:
  1. Concrete/ CMU.
  2. Steel.
  3. Gypsum board.

#### 1.3 DEFINITIONS

- A. Gloss Level 1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523, a matte flat finish.
- B. Gloss Level 2: Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523, a high-side sheen flat, velvet-like finish.
- C. Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523, an eggshell finish.

- D. Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523, a satin-like finish.
- E. Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523, a semi-gloss finish.
- F. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523, a gloss finish.

#### **1.4 ACTION SUBMITTALS**

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
- B. Samples for Initial Selection: For each type of topcoat product.
- C. Samples for Verification: For each type of paint system and in each color and gloss of topcoat.
  - 1. Submit Samples on rigid backing, 8 inches (200 mm) square.
  - 2. Step coats on Samples to show each coat required for system.
  - 3. Label each coat of each Sample.
  - 4. Label each Sample for location and application area.
- D. Product List: For each product indicated, include the following:
  - 1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
  - 2. VOC content.

#### **1.5 CLOSEOUT SUBMITTALS**

- A. Coating Maintenance Manual: Provide coating maintenance manual including area summary with finish schedule, area detail designating location where each product/color/finish was used, product data pages, material safety data sheets, care and cleaning instructions, touch-up procedures, and color samples of each color and finish used.

#### **1.7 QUALITY ASSURANCE**

- A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
  - 1. Architect will select one surface to represent surfaces and conditions for application of each paint system specified in Part 3.
    - a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft. (9 sq. m).
    - b. Other Items: Architect will designate items or areas required.
  - 2. Final approval of color selections will be based on mockups.
    - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.
  - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
  - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

## **1.8 DELIVERY, STORAGE, AND HANDLING**

- A. Delivery and Handling: Deliver products to Project site in an undamaged condition in manufacturer's original sealed containers, complete with labels and instructions for handling, storing, unpacking, protecting, and installing. Packaging shall bear the manufacturer's label with the following information:
  - 1. Product name and type (description).
  - 2. Batch date.
  - 3. Color number.
  - 4. VOC content.
  - 5. Environmental handling requirements.
  - 6. Surface preparation requirements.
  - 7. Application instructions.
- B. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
  - 1. Maintain containers in clean condition, free of foreign materials and residue.
  - 2. Remove rags and waste from storage areas daily.

## **1.9 FIELD CONDITIONS**

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F (10 and 35 deg C).
- B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.

## **2. PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Basis-of-Design Product: Subject to compliance with requirements, provide PPG Porter Paints products indicated .
- B. Source Limitations: Obtain paint materials from single source from single listed manufacturer.
  - 1. Manufacturer's designations listed on a separate color schedule are for color reference only and do not indicate prior approval.

### **2.2 PAINT, GENERAL**

- A. Standards: Provide products that comply with Manufacture's Premium 1st Quality standards indicated and like VOC limits.
- B. Material Compatibility:
  - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  - 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- C. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction.
  - 1. Flat Paints and Coatings: 50 g/L.
  - 2. Nonflat Paints and Coatings: 150 g/L.
  - 3. Dry-Fog Coatings: 400 g/L.
  - 4. Primers, Sealers, and Undercoaters: 200 g/L.

5. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L.
  6. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
  7. Pretreatment Wash Primers: 420 g/L.
  8. Floor Coatings: 100 g/L.
  9. Shellacs, Clear: 730 g/L.
  10. Shellacs, Pigmented: 550 g/L.
- D. Low-Emitting Materials: Interior paints and coatings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- E. Colors: As indicated in finish schedule

### **2.3 SOURCE QUALITY CONTROL**

- A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:
1. Owner will engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
  2. Testing agency will perform tests for compliance with product requirements.
  3. Owner may direct Contractor to stop applying coatings if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

## **3. EXECUTION**

### **3.1 EXAMINATION**

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements

for maximum moisture content and other conditions affecting performance of the Work. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers. Where acceptability of substrate conditions is in question, apply samples and perform in-situ testing to verify compatibility, adhesion, and film integrity of new paint application.

1. Report, in writing, conditions that may affect application, appearance, or performance of paint.

**B. Substrate Conditions:**

1. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
  - a. Concrete: 12 percent.
  - b. Masonry (Clay and CMU): 12 percent.
  - c. Wood: 15 percent.
  - d. Gypsum Board: 12 percent.
  - e. Plaster: 12 percent.
2. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
3. Plaster Substrates: Verify that plaster is fully cured.
4. Spray-Textured Ceiling Substrates: Verify that surfaces are dry.

- C.** Proceed with coating application only after unsatisfactory conditions have been corrected; application of coating indicates acceptance of surfaces and conditions.

## **3.2 PREPARATION**

- A.** Comply with manufacturer's written instructions.
- B.** Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C.** Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

- D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.
  - 1. Concrete Floors: Remove oil, dust, grease, dirt, and other foreign materials. Comply with SSPC-SP-13/NACE 6 or ICRI 03732.
- E. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceed that permitted in manufacturer's written instructions.
- F. Steel Substrates: Remove rust, loose mill scale, and shop primer, if any. Clean using methods recommended in writing by paint manufacturer.
- G. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- H. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal fabricated from coil stock by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
- I. Aluminum Substrates: Remove loose surface oxidation.
- J. Wood Substrates:
  - 1. Scrape and clean knots, and apply coat of knot sealer before applying primer.
  - 2. Sand surfaces that will be exposed to view, and dust off.
  - 3. Prime edges, ends, faces, undersides, and backsides of wood.
  - 4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.
- K. Cotton or Canvas Insulation Covering Substrates: Remove dust, dirt, and other foreign material that might impair bond of paints to substrates.

### **3.3 APPLICATION**

- A. Apply paints according to manufacturer's written instructions.

1. Use applicators and techniques suited for paint and substrate indicated.
  2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
  3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
  4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
  5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- E. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
1. Paint the following work where exposed in occupied spaces:
    - a. Equipment, including panelboards.
    - b. Uninsulated metal piping.
    - c. Uninsulated plastic piping.
    - d. Pipe hangers and supports.
    - e. Metal conduit.
    - f. Plastic conduit.
    - g. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.
    - h. Other items as directed by Architect.
  2. Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces.

### **3.4 FIELD QUALITY CONTROL**

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
  - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
  - 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

### **3.5 CLEANING AND PROTECTION**

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

### **3.6 INTERIOR PAINTING SCHEDULE**

- A. Concrete/ CMU Substrates, Nontraffic Surfaces:
  - 1. Interior CMU classrooms, hallways, offices
    - a. Prime Coat: 1 coat 6-15 Speedhide Interior/Exterior Masonry Latex Block Filler.
    - b. Intermediate and Topcoat: 2 coats PP375 Hi-Hide Satin Interior Latex Wall Paint.
  - 2. Interior CMU for Activity Centers, Restrooms, and similar high traffic areas.
    - a. Prime Coat: 1 coat 6-15 Speedhide Interior/Exterior Masonry Latex Block Filler.
    - b. Intermediate and Topcoat: 2 coats PP915 Advantage 900 Semi-Gloss Int/Ext Acrylic.

B. Metal Substrates:

1. Interior Metal doors, door jambs, handrails, etc.
  - a. Prime Coat: Primer, rust-inhibitive, 1 coat 4160 Multiprime Tank and Structural
  - b. Intermediate and Topcoat: 2 coats 4308 Devguard Industrial Enamel
2. Water-Based Dry-Fall System:
  - a. Top Coat: Dry-fall latex, flat: SPEEDHIDE Interior Dry-Fog Spray Paint.

C. Gypsum Board Substrates:

1. Interior Gypsum Board classrooms, hallways, offices
  - a. Prime Coat: 1 coat 6-2 Speedhide Interior Latex Sealer Quick Drying
  - b. Intermediate and Topcoat: 2 coats PP375 Hi-Hide Satin Interior Latex Wall Paint
2. Interior Gypsum Board for Activity Centers, Restrooms, and similar high traffic areas.
  - a. Prime Coat: 1 coat 6-2 Speedhide Interior Latex Sealer Quick Drying
  - b. Intermediate and Topcoat: 2 coats PP915 Advantage 900 Semi-Gloss Int/Ext Acrylic

END OF SECTION 09912