



Dimensional Surfacing

SECTION 09776(09 77 60)
ARCHITECTURAL SURFACING PANEL SYSTEM

Part 1: General

1.01 Related Documents

A. Conditions of the Contract and portions of Division One of this Project Manual apply to this Section as though repeated herein.

1.02 Summary

A. Section Includes

Edit the following subparagraphs as the scope of the Project requires.

1. Gage 78 Earth Metal Panels
2. Extruded Trim.
3. Installation Accessories.
4. All labor and material for a complete and acceptable installation.

1.03 References

Edit the following subparagraphs as the scope of the Project requires. Refer to the Design and Finishes matrix in the catalog or the website (www.gage78.com) for results appropriate to the specified design or finish.

A. Standards.

1. Extruded Aluminum Panels: ASTM B209 - Alloy 6063 - T5.
 - a. Wall Thickness: Minimum 0.080".
 - b. Tensile Strength: 22,000 psi.
 - c. 66% recycled content - 50% post consumer.
2. Aluminum Trim: ASTM B 209.
3. Fire Rating: ASTM E-84, Class A.
4. Topcoat Pencil Hardness: ASTM D-3363, F minimum.
5. Topcoat Abrasion Resistance: ASTM D-4060, 500 grams /

- 500 cycles.
6. Topcoat Adhesion Tape Test: ASTM D-3359, Pass.
 7. Topcoat Impact Test: ASTM D-2794, Gardner 40 psi.
 8. Topcoat Humidity Test: ASTM D-2247, 100% humidity – 96 hours minimum.
 9. Topcoat Solvent Resistance: ASTM D-5402, MEK 20 – no Removal.
 10. Topcoat Cleaning Chemicals: ASTM D-1308, 20 minutes – no Change.
 11. Topcoat Mar Resistance: ASTM D-5178, 300 gram minimum.
 12. Topcoat AAMA Specification: 611-Class 1, 2603, 2604, or 2605.

1.04 Submittals

Edit the following paragraphs as required by the scope of the project.

A. Shop Drawings

1. Include the following:
 - a. Dimensioned lay-out all of the panels.
 - b. Dimensioned lay-out of all of the trim.
 - c. Dimensioned lay-out of all of the mounting accessories.

B. Product Data

Edit the following subparagraphs as the scope of the Project requires.

1. Descriptive Literature: Fully describing the cast panel and accessories that include the following.
 - a. Type 6063 - T5 aluminum with wall thickness per design matrix.
 - b. Top Coat finishes and related test performance.
 - c. Substrate (by installing contractor).
 - d. Extruded Trim.
 - e. Installation Accessories.
 - f. Maintenance Instructions
2. Installation Instructions.
3. Adhesive Material Safety Data Sheets.

C. Samples

Edit the following subparagraph as the scope of the Project requires.

1. Provide three 5 inch long samples of each extruded trim type, material and color reflecting anticipated color range of finished product.
2. Provide three 2" x 8" samples of each Earth Metal panel, pattern,

and finish reflecting anticipated color range of finished product.

D. Closeout Submittals

Edit the following subparagraph as the scope of the Project requires.

1. Maintenance Instructions relative to [panel topcoat] and/or [extruded trim finish coat].

1.05 Quality Assurance

A. Mock-Ups

Edit the following subparagraph as the scope of the Project requires.

1. Installed in location as directed by the Architect. Demonstrate the proposed range of aesthetic effects and workmanship. Installed panel with extruded trim may be left in place as part of the finished installation if accepted. Obtain Architect's approval before proceeding with remaining work (Mockup subject to purchase from manufacturer at prevailing cost for required quantity).

Edit Subparagraph "B. 1." As scope of Project requires.

B. Pre-Installation Meetings

1. Go through installation procedure with factory trained personnel at the job site. Applicator, Contractor, and/or Architect to attend.

C. Installation Contractor and Crew

1. Totally familiar with all means and methods required for a compliant and approved finished installation.

1.06 Delivery, Storage and Handling

A. Packing, Shipping, Handling and Unloading

1. Protect from excessive moisture.

Edit the following subparagraph as the scope of the Project requires.

2. Deliver in unopened packaging clearly marked as to panel, extruded trim and accessory included. For panels, extruded trim indicate type, size, color and pattern.
3. Do not deliver until all wet work is complete and cured.

B. Acceptance at Site

1. Immediately inspect upon delivery.
2. Verify that packaging is not damaged and that all materials have been received and are correct and undamaged.
3. *Place in climate controlled warehouse prior to delivery to site.*

C. Storage and Protection

1. Store products in an area where finished space ambient temperature occurs for at least 48 hours prior to installation.
2. Protect panel edges from damage.

3. Store panel/sheet containers flat.

1.07 Project/Site Conditions

A. Existing Conditions

1. Field verifies substrate dimensions and readiness for installation. Adjust installation process accordingly.

1.08 Maintenance

A. Extra Materials

1. Maintenance Stock: Produced from same lot number as remaining product for panels, trim reveals, etc.
Edit the following subparagraph as the scope of the Project requires.
2. Panels: 1 full size panel for every [insert number based upon scope of Project and Owner's storage space availability] full size panels of each different color and pattern.
Edit the following subparagraph as the scope of the Project requires.
3. Trim: 1 full length extruded trim piece for every [insert number based upon scope of Project and Owner's storage space availability] full length piece of each different color and configuration.

Part 2: Products

Strike the following Article and subsequent paragraph if a performance specification is required.

2.01 Manufacturer

- A.** Gage 78, Inc., 205 South Fifth Street, Suite 500, LaCrosse, WI, 54601; 877- 784-4243; www.gage78.com; info@gage78.com.

2.02 EM 7800 Series Extruded Dimensional Architectural Surfacing Panels

- A.** Manufactured panels to be Gage 78 Earth Metal (TM) type with the following features.
- B.** Panel Surface
 1. 6063 T5 aluminum with a recycled content of 66% (50% post consumer, 16% pre consumer).
 2. Wall thickness to be appropriate for the specific design - refer to design matrix in catalog or www.gage78.com.
 - a.** Panel Design (Insert Design Name and Number, i.e. Metal Valley EM 7804).
 - b.** Finish (Insert Finish Name and Number, i.e. Honest Aluminum (HA)).

- c. Metal: 6063 aluminum - T5 / 66% recycled content
- d. AAMA Specification: (Enter AAMA finish specification from the finish matrix)

2.03 Equipment

A. Installation Tools: As required by manufacturer's printed installation instructions.

2.04 Components

A. Panel Surface

1. 6063 T5 aluminum with a recycled content of 66% (50% post consumer, 16% pre-consumer).
2. Wall thickness to be appropriate for the specific design - refer to design matrix in catalog or www.gage78.com.
 - a. Panel Design: (Insert Design Name and Number, i.e. Metal Valley EM 7804).
 - b. Finish: (Insert Finish Name and Number, i.e. Honest Aluminum (HA))
 - c. Metal: 6063 aluminum - T5 / 66% recycled content
 - d. AAMA specification: Enter AAMA finish specification from the finish matrix

Part 3: Execution

3.01 Examination

- A.** Site Verification of Conditions.
1. Examine substrates with installer present.
 2. Verify compliance with requirements for installation tolerances and other conditions affecting final installation.
 3. Proceed only after all defects have been corrected.

3.02 Installation

- A.** Acclimatize panels and trim within installation area 48 hours prior to installation.
- B.** Install panels at locations indicated with vertical surfaces and edges plumb, horizontal edges level and in alignment with other panels.

Mechanical fasteners shall engage studs which would need to be 8" on center to fit the Earth Metal panel system. Coordinate panel size selection with stud spacing. The use of a continuous layer of 1/2 inch plywood over the studs before the application of the wall substrate surface will allow for more flexibility in panel installation.

C. Variation From Plumb: Plus or minus 1/8 inch.

D. Variation of Joints From Hairline: Less than 1/8 inch.

3.03 Cleaning

A. Clean panels, in accord with manufacturer's printed instructions. Contractor to replace panels at no additional cost that cannot be properly cleaned to the satisfaction of the Architect.

3.04 Protection

A. Protect installation until final completion of the Project. Contractor to replace damaged components at no additional cost in a manner approved by the Architect.

END OF SECTION 09776(09 77 60)

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