



DURATION Moulding & Millwork
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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The CSI Construction Specifications Practice Guide*.

This section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all “Specifier Notes” after editing this section.

Section numbers and titles are based on *MasterFormat 2014 Update*.

SECTION 07 46 49

POLY-ASH SIDING

Specifier Notes: This section covers DURATION Moulding and Millwork “DURATION” siding. The exterior, poly-ash siding is made from a proprietary polymeric blend, fly ash, and glass fibers. Use of DURATION siding may contribute toward LEED credits. Consult DURATION Moulding and Millwork for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Poly-ash siding.

1.2 RELATED REQUIREMENTS

Specifier Notes: Edit the following list of related sections as necessary. Limit the list to sections with specific information that the reader might expect to find in this section, but is specified elsewhere.

- A. Section [09 91 13]– Exterior Painting: Field painting poly-ash siding with topcoat.

1.3 REFERENCE STANDARDS

Specifier Notes: List reference standards used elsewhere in this section, complete with designations and titles.

- A. American Wood Protection Association (AWPA) (www.awpa.com):
 - 1. AWPA E1 – Standard Method for Laboratory Evaluation to Determine Resistance to Subterranean Termites.
 - 2. AWPA E10 – Standard Method of Testing Wood Preservatives by Laboratory Soil-Block Cultures.

- B. ASTM International (ASTM) (www.astm.org):
 - 1. ASTM D 570 – Standard Test Method for Water Absorption of Plastics.
 - 2. ASTM D 1037 – Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.
 - 3. ASTM D 1622 – Standard Test Method for Apparent Density of Rigid Cellular Plastics.
 - 4. ASTM D 6109 – Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastic Lumber and Related Products.
 - 5. ASTM D 6341 – Standard Test Method for Determination of the Linear Coefficient of Thermal Expansion of Plastic Lumber and Plastic Lumber Shapes Between –30 and 140°F (–34.4 and 60°C).
 - 6. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.

- C. California Department of Forestry and Fire Protection (CAL FIRE) (www.fire.ca.gov):
 - 1. Wildland-Urban Interface (WUI) CA SFM 12.7A-1 – Exterior Wall Siding and Sheathing.

- D. International Building Code (IBC)

- E. International Residential Code (IRC)

1.4 SUBMITTALS

Specifier Notes: Edit submittal requirements as necessary. Delete submittals not required.

- A. Comply with Section 01 33 00 – Submittal Procedures.

- B. Product Data: Submit manufacturer's product data, including installation instructions.

- C. Samples: Submit manufacturer's sample of poly-ash siding.
 - 1. Sample Size: Minimum 6 inches long.

- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.

- E. Product Evaluation Reports: Submit manufacturer's product evaluation reports from accredited, evaluation service.

- F. Warranty Documentation: Submit manufacturer's standard warranty

1.5 STORAGE AND HANDLING

A. Storage and Handling Requirements:

1. Store and handle materials in accordance with manufacturer's instructions.
2. Product must be stored flat, on a level surface in a clean, dry location.
3. Product should not be stored in direct contact with the ground.
4. Keep products wrapped and protected from the elements until ready for installation.
5. Always replace covers after removing partial amounts of the material
6. Protective corners should be used under all banding.
7. If stored outside, it is required to protect the product with the original, waterproof DURATION cover free of rips or tears, or with an additional fully waterproof covering.

B. Handling Requirements

1. DURATION Siding must be carried on the edge.
2. Whenever possible, DURATION products should be moved by two people, one person at each end of the board carrying the product on edge.
3. If only one person must carry the board, they should position themselves in the middle of the board with their arms spread apart at a safe distance while keeping the board sturdy. Improper carrying techniques can cause the board to break.

1.6 WARRANTY

- A. Warranty Period for Poly-Ash Siding: 20 years.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: DURATION Moulding and Millwork, 65 Klockner Road, Hamilton, New Jersey 08619. Toll Free 888-388-7852. Website www.DURATIONMillwork.com. E-mail Info@DURATIONMillwork.com

Specifier Notes: Specify if substitutions will be permitted.

- B. Substitutions: [Not permitted] [In accordance with Division 1].

2.2 POLY-ASH SIDING

A. Poly-Ash Siding: "DURATION" siding.

1. Siding is used as exterior wall covering over sheathing on wood stud framing.
2. Material: Polymeric blend, fly ash, and glass fibers.
3. Formed in continuous process, cut to 16-foot lengths, and milled to give a surface profile.

Specifier Notes: Specify siding width and profile

4. Width: [____] inches].
5. Actual Thickness: 11/16" [____] inches]

Specifier Notes: "DURATION" siding can be installed with either side exposed to meet the designed aesthetic. The siding is intended to be installed with the finished/profiled side as the exposed surface i.e. it is NOT reversible.

6. Exposed Texture:
 - Smooth.
 - Woodgrain
7. Nonstructural material. DURATION Siding should not be used in structural applications beyond wind load design pressures noted in product certification reports.

B. Listings and Reports:

1. Cal Fire (WUI), CA SFM 12.7A-1: Listing No. 8140-2134:0103.
2. IBC, IRC; Intertek CCRR0300
3. Florida Product Approval; EC-92
4. Texas Department of Insurance; EC-92
5. Recycled Content; SCS Global Services SCS-RC-02467

C. Recycled Content:

1. Post-Industrial Recycled Content: Minimum 70 percent, by weight.

D. Properties:

1. Density, ASTM D 1622: 40 to 50 pcf.
2. Flexural Strength, ASTM D 6109: Greater than 1,600 psi.
3. Coefficient of Linear Expansion, ASTM D 6341: Less than 1.40 E-05 in/in/degree F.

E. Performance:

1. Fungi Rot, AWPA E10:
 - a. Brown Rot: Negligible loss.
 - b. White Rot: Negligible loss.
2. Termite Resistance, AWPA E1: Greater than 9.0 (10 being best).
3. Water Absorption, ASTM D 570: Less than 1.5 percent.
4. Surface Burning Characteristics, ASTM E 84:
 - a. Flame Spread Index: Less than ≤ 25
 - b. Smoke Developed Index: ≤ 450 .
 - c. Meets Class A requirements of IBC 803. 1.2.

2.3 FABRICATION

A. Manufacturing Tolerances:

1. Width: Plus or minus 1/16 inch.
2. Thickness: Plus or minus 1/16 inch.
3. Length: Plus 2 inches, minus 0 inch.

2.4 FINISHES

A. Primer:

1. Acrylic based.
2. Low VOC.
3. Factory applied.

B. Unprimed

2.5 ACCESSORIES

- A. Fasteners:
 - 1. Minimum 8d by 2-1/2-inch-long stainless steel ring-shank nails.
 - 2. Follow the manufacturer's installation instructions in accordance with local building codes.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine wood framing members to receive poly-ash siding. Exterior wall surface should be flat and smooth prior to installation of DURATION siding.
- B. Notify Architect of conditions that would adversely affect installation.
- C. Do not begin installation until unacceptable conditions are corrected.

3.2 INSTALLATION

- A. Install poly-ash siding in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Do not install poly-ash siding in structural or load-bearing applications.
- C. Make sure product is completely dry before installation begins.
- D. Install poly-ash siding plumb, level, square and true to line
- E. Fastening: Install fasteners in accordance with manufacturer's installation instructions and local building codes.

Specifier Notes: "DURATION" siding must be field painted with a topcoat of exterior paint. Failure to field paint the siding will void the warranty. Include the section number for the section that specifies exterior painting.

- F. Painting:
 - 1. DURATION Siding must be painted with a quality, exterior grade paint
 - 2. Apply topcoat of exterior paint:
 - a. Within 150 days of installing poly-ash siding.
 - b. As specified in Section [09 91 13].
 - 3. Ensure poly-ash siding is clean and dry before painting.

3.3 ADJUSTING

- A. Repair minor damages to poly-ash siding in accordance with manufacturer's instructions and as approved by Architect.
- B. Remove and replace with new material, damaged poly-ash siding that cannot be successfully repaired, as determined by Architect.

3.4 PROTECTION

- A. Protect installed poly-ash siding to ensure that, except for normal weathering, siding will be without damage or deterioration at time of Substantial Completion.

END OF SECTION