



SECTION 07464

VINYL SIDING

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Solid vinyl siding.
- B. Solid vinyl soffit.
- C. Vented vinyl soffit.
- D. Vinyl trim.

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry: Framing and Sheathing.
- B. Section 07260 - Vapor Retarders.
- C. Section 07900 - Joint Sealers.

1.3 REFERENCES

- A. ASTM D 256 - Standard Test Method for Determining the Pendulum Impact Resistance of Notched Specimens of Plastics.
- B. ASTM D 635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position.
- C. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics.
- D. ASTM D 648 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load.
- E. ASTM D 696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30 Degrees C. and 30 Degrees C.
- F. ASTM D 1784 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.

- G. ASTM D 2843 - Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics.
- H. ASTM D 3679 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding.
- I. ASTM D 4477 - Standard Specification for Rigid Unplasticized Poly(Vinyl Chloride) (PVC) Soffit.
- J. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- K. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2000.
- L. UBC STD 26-9 - Method of Test for the Evaluation of Flammability Characteristics of Exterior, Nonload-Bearing Wall Assemblies Containing Combustible Components Using the Intermediate-Scale, Multistory Test Apparatus; 1997.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Code compliance in accordance with the following:
 - 1. Metropolitan Dade County, Florida.
 - 2. ICC Evaluation Service.
 - 3. State of Florida.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.

- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.

- C. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

- D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

- E. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- F. LEED Submittals:
 - 1. Energy and Atmosphere (EA)
 - a. Product Certificates for Credit EA 1: For products that Optimize Energy Performance (Structure EPS Insulated Siding only)
 - b. Product Certificates for Credit EA 3: For products that contribute to prevention of Air Infiltration (Structure EPS Insulated Siding only)

- G. NGBS Submittals:
 - 1. Practice 601.7: Provide a list of building materials that do not require additional site applied finishes. Include manufacturer's product literature showing type of finish applied to building materials.
 - 2. Practice 602.8: Provide a list of materials that are Termite Resistant
 - 3. Practice 608.1: Provide documentation indicating manufacturing location of indigenous materials that are extracted, processed, and manufactured within 500 miles of project site.
 - 4. Practice 609.1: Select the more environmentally preferable product or assembly
 - 5. Practice 702.2: Provide documentation on products with Energy Efficiency features, implemented to achieve energy cost performance that exceeds IECC (Structure EPS Insulated Siding only)

6. Practice 703.1.1: Provide documentation on products with total building thermal envelope UA is less than required by section 402.1.4 of the IECC (Structure EPS Insulated Siding only)
7. Practice 703.1.2: Provide documentation on Third-party graded insulation (Structure EPS Insulated Siding only)
8. Practice 1001.1(20): Provide documentation indicating how to maintenance and care for material.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Provide installer with not less than three years of experience with products specified.
- B. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 1. Finish areas designated by Architect.
 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 3. Refinish mock-up area as required to produce acceptable work.
 4. Accepted mock-ups shall be comparison standard for remaining work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store on a flat surface under cover, stacked no more than 12 boxes high. Do not store in location where temperatures may exceed 130 degrees F.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.9 WARRANTY

- A. Provide manufacturer's standard limited lifetime warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Mastic Home Exteriors, 2600 Grand Blvd., Suite 900, Kansas City, MO 64108. ASD. Telephone Toll Free: (800) 962-6973 or (800) 788-1964. Fax: (866) 656-1900, Website: www.mastic.com. Email: support@mastichomesinfo.com.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 MATERIALS

- A. Siding and Soffit - General Requirements: Polyvinyl chloride products with the following characteristics:
 - 1. Siding: Comply with ASTM D 3679, Class 2.
 - 2. PVC cell classification in accordance with ASTM D 1784: 13334.

3. Coefficient of linear expansion in accordance with ASTM D 696: 0.000029 inch per inch per degree F.
 4. Tensile strength when tested in accordance with ASTM D 638: Minimum 7,100 pounds per square inch.
 5. Modulus of elasticity when tested in accordance with ASTM D 638: Minimum 360,000 pounds per square inch, average.
 6. Izod impact, standard 1/8 inch bar when tested in accordance with ASTM D 256: 3.30 foot-pounds per inch, average.
 7. Shore D Hardness: Minimum 73.
 8. Specific Gravity: Minimum 1.39.
 9. Deflection temperature when tested in accordance with ASTM D 648: 170 degrees F, 264 pounds per square inch.
 10. Smoke density rating when tested in accordance with ASTM D 2843: 48 percent, average.
 11. Horizontal flammability, when tested in accordance with ASTM D 635:
 - a. Burn distance: 20 mm.
 - b. Burn time: Less than 5 seconds.
 12. Surface burning characteristics when tested in accordance with ASTM E 84: Flame spread less than 20, fuel contribution 0, smoke density 400.
 13. Fire Resistance - Siding: 1 hour, when tested in accordance with ASTM E 119, with siding applied over gypsum sheathing.
 14. Flammability - Siding: Comply with requirements of UBC Std 26-9.
- B. Fasteners: Aluminum nails, alloy 5056 or 6110, having minimum tensile strength 63,000 pounds per square inch.
- C. Vapor Retarder: Specified in Section 07260.
- D. Joint Sealers: Specified in Section 07900.

2.3 VINYL SIDING AND TRIM

A. Vinyl Siding Type ____: Structure Foamed Backed Siding.

1. Product Description: Double 6 profile, 12 inches exposure; nominal 0.046 inch material thickness (Vinyl); 12 foot 6 inch or 16 feet 8 inch piece length.
2. Product Description: Single 7 profile, 7 inches exposure; nominal 0.046 inch material thickness (Vinyl); 12 foot 3 inch or 16 feet 8 inch piece length.
3. Product Description: Double 4 profile, 8 inches exposure; nominal 0.046 inch material thickness (Vinyl); 12 foot 6 inch piece length.
4. Product Description: Double 4-1/2 Dutch Lap profile, 9 inches exposure; nominal 0.046 inch material thickness (Vinyl); 12 foot 1 inch piece length or 16 feet 8 inch piece length.
5. Nailing Hem: Enhanced 1-3/8 inch wide nail hem with 1-1/4 inch elongated nail slots on 1-5/8 inch centers.
6. Finish: Cedar woodgrain texture.
7. Color: As selected from manufacturer's full range of available colors.
8. Color: _____.

B. Vinyl Siding Type ____: Quest Siding.

1. Product Description: Double 4 profile, 8 inches exposure; nominal 0.046 inch material thickness; 12 feet 6 inch piece, 16 feet 8 inch piece or 25 feet 6 inch piece lengths.
2. Product Description: Double 5 profile, 10 inches exposure; nominal 0.046 inch material thickness; 12 foot piece length.
3. Product Description: Double 4-1/2 Dutch Lap profile, 9 inches exposure; nominal 0.046 inch material thickness; 12 feet 6 inch piece, 16 feet 8 inch piece or 25 feet 6 inch piece lengths.
4. Nailing Hem: Double layer, reinforced nail hem with elongated nailing holes 1 inch or 1-1/4 inches long at 1-5/8 inches on center.
5. Finish: Cedar woodgrain texture.
6. Color: As selected from manufacturer's full range of available colors.
7. Color: _____.

C. Vinyl Siding Type ____: Carvedwood 44 Siding.

1. Product Description: Double 4 profile, 8 inches exposure; nominal 0.044 inch material thickness; nominal 12 feet 6 inch piece length; smooth finish.
2. Product Description: Double 4 profile, 8 inches exposure; nominal 0.044 inch material thickness; nominal 12 feet 6 inch piece length; woodgrain finish.
3. Product Description: Double 4-1/2 Dutch Lap profile, 9 inches exposure; nominal 0.044 inch material thickness; nominal 12 feet 1 inch piece length; woodgrain finish.
4. Product Description: Double 5 profile, 10 inches exposure; nominal 0.044 inch material thickness; nominal 12 feet piece length; woodgrain finish.
5. Product Description: Triple 3 profile, 9 inches exposure; nominal 0.044 inch material thickness; nominal 12 feet 1 inch piece length; smooth finish.
6. Nailing Hem: Rolled, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
7. Product Description: 8-inch profile (brushed), 8 inches exposure; nominal 0.048 inch material thickness; nominal 12 feet 6 inches piece length.
8. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
9. Color: As selected from manufacturer's full range of available colors.
10. Color: _____.

D. Vinyl Siding Type ____: TLok Barkwood Siding.

1. Product Description: Double 4 profile, 8 inches exposure; nominal 0.048 inch material thickness; nominal 12 feet 6 inch piece length.
2. Product Description: Double 5 profile, 10 inches exposure; nominal 0.048 inch material thickness; nominal 12 feet piece length.
3. Product Description: Double 5 Dutch Lap profile, 10 inches exposure; nominal 0.048 inch material thickness; nominal 12 feet piece length.
4. Product Description: Triple 2-2/3 inches profile, 9 inches exposure, nominal 0.048 inch material thickness; nominal 12 feet 6 inch piece length.
5. Product Description: 8-inch profile, 8 inches exposure; nominal 0.048 inch material thickness; nominal 12 feet 6 inch piece length.
6. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.

7. Finish: Woodgrain texture.
8. Color: As selected from manufacturer's full range of available colors.
9. Color: _____.

E. Vinyl Siding Type ____: Liberty Elite Siding.

1. Product Description: Double 4 profile, 8 inches exposure; nominal 0.048 inch material thickness; nominal 12 feet 6 inch piece length.
2. Product Description: Double 5 profile, 10 inches exposure; nominal 0.048 inch material thickness; nominal 12 feet piece length.
3. Product Description: Double 5 Dutch Lap profile, 10 inches exposure; nominal 0.048 inch material thickness; nominal 12 feet piece length.
4. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
5. Finish: Woodgrain texture.
6. Color: As selected from manufacturer's full range of available colors.
7. Color: _____.

F. Vinyl Siding Type ____: Charleston Beaded Collection Siding.

1. Product Description: 6-1/2 inch Beaded profile (brushed/contemporary bead), 6-1/2 inches exposure; nominal 0.044 inch material thickness; nominal 12 feet 4 inch piece length.
2. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
3. Finish: Cedar woodgrain texture or low-gloss brushed texture.
4. Color: As selected from manufacturer's full range of available colors.
5. Color: _____.

G. Vinyl Siding Type ____: Board and Batten Siding.

1. Product Description: Single 6-1/4" Board with 1-3/4" Batten profile, 8 inches exposure; nominal 0.050 inch material thickness; nominal 12 feet piece length.

2. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
3. Finish: Woodgrain texture.
4. Color: As selected from manufacturer's full range of available colors.
5. Color: _____.

H. Vinyl Siding Type ____: Silhouette Classic Siding.

1. Product Description: Double 4 profile (woodgrain), 8 inches exposure; nominal 0.044 inch material thickness; nominal 12 feet 6 inch piece length.
2. Product Description: Double 4-1/2 Dutch Lap profile (woodgrain), 9 inches exposure; nominal 0.044 inch material thickness; nominal 12 feet 1 inch piece length.
3. Product Description: Double 5 profile (woodgrain), 10 inches exposure; nominal 0.044 inch material thickness; nominal 12 feet piece length.
4. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
5. Finish: Low gloss brushed texture or woodgrain texture.
6. Color: As selected from manufacturer's full range of available colors.
7. Color: _____.

I. Vinyl Siding Type ____: Ovation Siding.

1. Product Description: Double 4 profile, 8 inches exposure; nominal 0.042 inch material thickness; nominal 12 feet 6 inch piece length.
2. Product Description: Double 4.5 Dutch Lap profile, 9 inches exposure; nominal 0.042 inch material thickness; nominal 12 feet 1 inch piece length.
3. Product Description: Double 5 profile, 10 inches exposure; nominal 0.042 inch material thickness; nominal 12 feet piece length.
4. Product Description: Triple 3 profile, 9 inches exposure; nominal 0.042 inch material thickness; nominal 12 feet 1 inch piece length.
5. Product Description: 6-1/2 inch Beaded profile (brushed/traditional bead), 6-1/2 inches exposure; nominal 0.042 inch material thickness; nominal 12 feet 4 inch piece length.

6. Nailing Hem: Rolled, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
7. Finish: Double 4, Double 5, Double 4.5 Dutch lap- Cedar Woodgrain texture, Triple 3- Smooth texture
8. Color: As selected from manufacturer's full range of available colors.
9. Color: _____.

J. Vinyl Siding Type ____: Mill Creek Siding.

1. Product Description: Double 4 profile, 8 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet 6 inch piece length.
2. Product Description: Double 4 Dutch Lap profile, 8 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet 6 inch piece length.
3. Product Description: Double 5 profile, 10 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet piece length.
4. Product Description: Double 5 Dutch Lap profile, 10 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet piece length.
5. Product Description: Triple 3 profile, 9 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet 1 inch piece length.
6. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
7. Finish: Cedar woodgrain texture.
8. Color: As selected from manufacturer's full range of available colors.
9. Color: _____.

K. Vinyl Siding Type ____: TradeMark(cg) Siding.

1. Product Description: Double 4 profile, 8 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet 6 inch piece length.
2. Product Description: Double 4-1/2 Dutch Lap profile, 9 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet 1 inch piece length.
3. Product Description: Double 5 profile, 10 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet piece length.

4. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
5. Finish: Woodgrain texture.
6. Color: As selected from manufacturer's full range of available colors.
7. Color: _____.

L. Vinyl Siding Type ____: Brentwood Siding.

1. Product Description: Double 4 profile, 8 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet 6 inch piece length.
2. Product Description: Double 4-1/2 inch Dutch Lap profile, 9 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet 1 inch piece length.
3. Product Description: Double 5 profile, 10 inches exposure; nominal 0.040 inch material thickness; nominal 12 feet piece length.
4. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
5. Finish: Woodgrain texture.
6. Color: As selected from manufacturer's full range of available colors.
7. Color: _____.

M. Vinyl Trim:

1. Universal Outside Corner Post: 4 inches by 4 inches post, 3/4 inch wide siding recess; _____ color.
2. Traditional Outside Corner Post with Foam Inserts: 5-1/2 inches by 5-1/2 inches post, 3/4 inch wide siding recess; _____ color.
3. Fluted Outside Corner Post with Foam Inserts: 5-1/2 inches by 5-1/2 inches post, 3/4 inch wide siding recess; _____ color.
4. Standard Inside Corner Post: 2 inches by 2 inches covered projection, 3/4 inch wide siding recess; _____ color.
5. J-Trim: Channel, 1-3/4 inches nailing leg, 3/4 inch forward leg, 5/8 inch channel width; _____ color.
6. J-Trim: Channel, 1-3/4 inches nailing leg, 3/4 inch forward leg, 7/8 inch channel width; _____ color.

7. J-Trim: Channel, 1-3/4 inches nailing leg, 3/4 inch forward leg, 1-1/4 inch channel width; _____ color.
8. Finishing Trim: 1-1/2 inches nailing leg, 3/4 inch forward leg; _____ color.
9. Double Finish Trim: 1-1/2 inches nailing leg, 3/4 inch forward leg, double channel 7/8 inch total width; _____ color.
10. Wide Window Casing: 3-1/2 inches nailing leg, 2-1/2 inch forward leg with 7/8 inch return; white color.
11. Wide Window Casing: 3-1/2 inches nailing leg, 2-1/2 inch forward leg with 1-1/4 inch return; white color.
12. Wide Window Casing: 3-1/2 inches nailing leg, 2-1/2 inch forward leg with 3/4 inch return; white, cameo, pebblestone clay, desert sand, and victorian grey color.
13. Starter Strip: Single-row nailing hem with elongated nailing holes 1-1/4 inches long 1-5/8 inches on center, 1/4 inch base projection; white color.
14. Starter Strip: Single-row nailing hem with elongated nailing holes 1-1/4 inches long 1-5/8 inches on center, 1-1/4 inch base projection; white color.

2.4 VINYL SOFFIT AND TRIM

A. Vinyl Soffit Type ____: Ventura Hidden Vent Soffit.

1. Product Description: Vented Triple 3-1/3 V-groove profile, 10 inches exposure, 5/8 inch depth; nominal 0.044 inch material thickness; nominal 12 feet piece length.
2. Product Description: Non-vented Triple 3-1/3 V-groove profile, 10 inches exposure, 5/8 inch depth; nominal 0.044 inch material thickness; nominal 12 feet piece length.
3. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
4. Finish: Low-gloss brushed texture.
5. Ventilation - Supply ventilation type soffit material having .156 by .750 openings with 9.19 square inches free air space per square foot of soffit area.
6. Color: As selected from manufacturer's full range of available colors.

7. Color: _____.

B. Vinyl Soffit Type ____: Pro-Select Soffit.

1. Product Description: Double 5 V-groove profile, 10 inches exposure, 5/8 inch depth; nominal 0.046 inch material thickness; nominal 12 feet piece length.
2. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
3. Finish: Low-gloss brushed texture.
4. Color: As selected from manufacturer's full range of available colors.
5. Color: _____.
6. Supply ventilating type soffit material having 1/8 inch diameter holes for 7.53 square inches free air space per square foot of soffit area.
7. Supply non-ventilating type soffit material.
8. Supply both ventilating type and non-ventilating type soffit materials to achieve indicated patterns.

C. Vinyl Soffit Type ____: Pro-Tech Plus Soffit.

1. Product Description: Triple 4 V-groove profile, 12 inches exposure, 5/8 inch depth; nominal 0.040 inch material thickness; nominal 12 feet piece length.
2. Product Description: Double 5 V-groove profile, 10 inches exposure, 1/2 inch depth; nominal 0.042 inch material thickness; nominal 12 feet piece length.
3. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
4. Finish: Low-gloss matte texture.
5. Color: As selected from manufacturer's full range of available colors.
6. Color: _____.
7. Supply ventilating type soffit material having 1/8 inch diameter holes for 5.87 square inches free air space per square foot of soffit area.
8. Supply center ventilating type soffit material having 1/8 inch diameter holes for 1.96 square inches free air space per square foot of soffit area.
9. Supply non-ventilating type soffit material.

10. Supply both ventilating type and non-ventilating type soffit materials to achieve indicated patterns.

D. Vinyl Soffit Type ____: Pro-Bead Soffit.

1. Product Description: Triple 2-2/3 Bead profile, 8 inches exposure, 3/8 inch depth; nominal 0.040 inch material thickness; nominal 12 feet 6 inches piece length.
2. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
3. Finish: Low-gloss matte texture.
4. Color: As selected from manufacturer's full range of available colors.
5. Color: _____.
6. Supply ventilating type soffit material having concealed lanced openings for 1.54 square inches free air space per square foot of soffit area.
7. Supply non-ventilating type soffit material.
8. Supply both ventilating type and non-ventilating type soffit materials to achieve indicated patterns.

E. Vinyl Soffit Type ____: Universal Soffit.

1. Product Description: Triple 4 V-groove profile, 12 inches exposure, 1/2 inch depth; nominal 0.036 inch material thickness; nominal 12 feet piece length.
2. Nailing Hem: Single-row, with elongated nailing holes 1-1/4 inches long at 1-5/8 inches on center.
3. Finish: Low-gloss matte texture.
4. Color: As selected from manufacturer's full range of available colors.
5. Color: _____.
6. Supply ventilating type soffit material having 1/8 inch diameter holes for 5.87 square inches free air space per square foot of soffit area.
7. Supply center ventilating type soffit material having 1/8 inch diameter holes for 1.96 square inches free air space per square foot of soffit area.
8. Supply non-ventilating type soffit material.

9. Supply both ventilating type and non-ventilating type soffit materials to achieve indicated patterns.

F. Vinyl Trim:

1. Soffit J-Trim: Channel, 1-1/2 inches nailing leg, 3/4 inch forward leg, 1/2 inch channel width; _____ color.
2. Soffit J-Trim: Channel, 1-3/4 inches nailing leg, 1 inch forward leg, 5/8 inch channel width; _____ color.
3. T-Channel: 1-3/4 inches batten, 5/8 inch recess; _____ color.
4. Frieze Runner F-Channel: _____ color.
5. Pro-Bead Soffit J-Trim: Channel, 2-3/8 inch nailing leg, 1-3/8 inch forward leg, 3/8 inch channel width; _____ color.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared. Verify dimensions and acceptability of substrate
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Installation of vapor retarder is specified in Section 07260.
- C. Attach vinyl products to substrate for weathertight installation; ensure that horizontal components are installed true to level, that vertical components are installed true to plumb.
- D. Stagger lap joints in horizontal siding in uniform pattern as successive courses of siding are installed.
- E. Install joint sealers are specified in Section 07900.

3.4 ADJUSTING AND CLEANING

- A. Clean dirt from surface of installed products, using mild soap and water.
- B. After completing installation, remove from project site excess materials and debris resulting from installation of vinyl products.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION



CEDAR DISCOVERY SIDING

Mastic Cedar Discovery Shingle Siding is manufactured by:

Mastic Home Exteriors

2600 Grand Blvd, Suite 900

Kansas City, MO 64108

Toll-Free: (800) 962-6973

Mastic Cedar Discovery Shingle Siding is designed for use in residential and light commercial applications. Cedar Discovery provides the look of wood shingles, but does not require the maintenance which is common to wood.

PART 1: GENERAL

1.1. SECTION INCLUDES

A. Rigid Polypropylene Siding

1.2 QUALITY ASSURANCE

A. Technical Data: Cedar Discovery Shingle Siding, tested in compliance to ASTM flame test procedures, meets or exceeds the following properties as required by the national code bodies.

1. Burn Rate, ASTM D635 – 1.15 inches/minute
2. Minimum Self-Ignition Temperature, ASTM D1929 – 673 F
3. Minimum Flash-Ignition Temperature, ASTM D1929 – 651 F
4. Flame Spread and Smoke Developed, ASTM E84 – Flame 150 Smoke 710
5. Windload, ASTM D5206 – 80 PSF 210 MPH

*Note**Cedar Discovery has been tested per ASTM D5206, standard test method for windload resistance of rigid PVC siding. Check with your local building inspector for windload requirements in your area.*

B. Important Fire Safety Information: Rigid polypropylene siding is made from organic materials and will melt or burn when exposed to a significant source of flame or heat. Property owners, occupants and maintenance personnel should be familiar with the performance characteristics of underlayment materials. For maximum safety, non-combustible underlayment materials are recommended. Normal precautions to protect rigid polypropylene building materials from sources of fire should be taken. Barbecues and combustible materials, such as dry leaves, mulch and trash, should be kept away from polypropylene siding.

1.3 DELIVERY, STORAGE, AND HANDLING

A. Deliver rigid polypropylene siding products to project site in original packaging.

B. Store rigid polypropylene products in original packaging, on flat surface under cover, stacked no more than 12 boxes high. Do not store in location where temperatures may exceed 130 degrees F.

1.4 WARRANTY

A. Mastic Cedar Discovery Shingle Siding has a Mastic V.I.P. Limited Lifetime Warranty. Consult actual product warranty for complete coverage details.

PART 2: PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Mastic Home Exteriors, Inc. 2600 Grand Blvd. Suite 900, Kansas City, MO 64108; Ph: (800) 962-6973; website: www.mastic.com

2.2 POLYPROPYLENE SIDING PANELS

A. Cedar Discovery Perfection 7" Shingle Siding

1. Style: Double 7 inch profile, 14 inch exposure
2. Butt Dimension: 3/4 inch
3. Length: 67-1/2 inches
4. Nail Hem: Continuous locking nail hem
5. Thickness: nominal .080 inches
6. Material: Polypropylene

7. Color: White, Almond, American Walnut, Autumn Gold, Cameo, Classic Cream, Colonial Yellow, Deep Granite, Desert Sand, English Wedgewood, Everest, Harbor Grey, Lakeshore Fern, Linen, Montana Suede, Pebblestone Clay, Portsmouth Blue, Quiet Willow, Rugged Canyon, Russet Red, Sage, Sandtone, Scottish Thistle, Silver Grey, Terra Cotta, Timberstone, Tuscan Olive, Victorian Grey, Wicker, Cape Cod Grey, Natural Cedar

B. Cedar Discovery Perfection 5" Shingle Siding

1. Style: Triple 5 inch profile, 15 inch exposure
2. Butt Dimension: 3/4 inch
3. Length: 69-1/2 inches
4. Nail Hem: Continuous locking nail hem
5. Thickness: nominal .080 inches
6. Material: Polypropylene

7. Color: White, Almond, Autumn Gold, Cameo, Classic Cream, Colonial Yellow, Deep Granite, Desert Sand, English Wedgewood, Everest, Harbor Grey, Lakeshore Fern, Linen, Montana Suede, Pebblestone Clay, Portsmouth Blue, Quiet Willow, Rugged Canyon, Russet Red, Sage, Sandtone, Scottish Thistle, Silver Grey, Terra Cotta, Tuscan Olive, Victorian Grey, Wicker, Cape Cod Grey, Natural Cedar

C. Cedar Discovery Half Rounds

1. Style: Double Round 6-1/4 inch profile, 12-1/2 inch exposure
2. Butt Dimension: 3/4 inch
3. Length: 51-3/4 inches
4. Nail Hem: Continuous locking nail hem
5. Thickness: Nominal .080 inches
6. Material: Polypropylene
7. Color: White, Almond, Autumn Gold, Cameo, Classic Cream, Colonial Yellow, Deep Granite, Desert Sand, English Wedgewood, Everest, Harbor Grey, Lakeshore Fern, Linen, Montana Suede, Pebblestone Clay, Portsmouth Blue, Quiet Willow, Rugged Canyon, Russet Red, Sage, Sandtone, Scottish Thistle, Silver Grey, Terra Cotta, Tuscan Olive, Victorian Grey, Wicker

D. Cedar Discovery Hand-Split Shake Shingle

1. Style: Double 9-3/8 inch profile, 18-3/4 inch exposure
2. Butt Dimension: 7/8 inch
3. Length: 67-3/4 inches
4. Nail Hem: Continuous locking nail hem
5. Thickness: Nominal .080 inches
6. Material: Polypropylene
7. Color: White, Almond, American Walnut, Autumn Gold, Cameo, Classic Cream, Colonial Yellow, Deep Granite, Desert Sand, English Wedgewood, Everest, Harbor Grey, Lakeshore Fern, Linen, Montana Suede, Pebblestone Clay, Portsmouth Blue, Quiet Willow, Rugged Canyon, Russet Red, Sage, Sandtone, Scottish Thistle, Silver Grey, Terra Cotta, Timberstone, Tuscan Olive, Victorian Grey, Wicker, Cape Cod Grey, Natural Cedar

E. Accessories: Mastic manufactures siding accessories which are compatible with Cedar Discovery Shingle Siding styles and colors. Accessory products include installation components, corner posts, window and door trim, window and corner lineals, and decorative moldings.

PART 3: EXECUTION

3.1 EXAMINATION

- A. Examine substrate conditions before beginning installation of rigid polypropylene products; verify dimensions and acceptability of substrate.
- B. Do not proceed with installation of rigid polypropylene products until unacceptable conditions have been corrected.

3.2 INSTALLATION

- A. Complete instructions for installing Cedar Discovery Shingle Siding are available. Please review this information prior to installation. It contains important installation requirements.

3.3 ADJUSTING AND CLEANING

- A. Mastic Cedar Discovery is virtually maintenance-free, with a wash-clean surface and long-lasting color that eliminates the need for painting. Printed care and maintenance instructions are available on request.
- B. After completing installation of rigid polypropylene products, remove from project site excess materials and debris resulting from installation of rigid polypropylene products.



Specifiers: Click on the ¶ icon in the WORD toolbar to reveal detailed instructions

SECTION 07 46 16
ALUMINUM SIDING
Mastic Home Exteriors by Ply Gem

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Horizontal aluminum siding
- B. Siding Accessories
- C. Aluminum [Soffits] [and] [Trim]

1.2 REFERENCES

- A. American Architectural Manufacturers Association (AAMA)
 - 1. AAMA 1402: Standard Specifications for Aluminum Siding, Soffit and Fascia.

1.3 SUBMITTALS

- A. Refer to Section [01 33 00 Submittal Procedures] [insert section number and title].
- B. Product Data: Submit manufacturer current technical literature for each type of product.
- C. Samples: Provide nominal 3 x 5 inch sample of each color indicated for aluminum siding and accessories.
- D. LEED Submittals:
 - 1. Material and Resources (MR)
 - a. Product Certificates for Credit MR 2.2: For Environmentally Preferable Products having recycled content, documentation indicating percentages by weight of postconsumer and pre-consumer recycled content.

E. NGBS Submittals:

1. Practice 601 – Quality of Construction Materials and Waste
 - a. Practice 601.7: Provide a list of building materials that do not require additional site applied finishes. Include manufacturer’s product literature showing type of finish applied to building materials.
2. Practice 604 – Recycled-Content Building Materials
 - a. Practice 604.1: Provide documentation indicating percentages, by weight, of recycled content.
3. Practice 608 – Indigenous Materials
 - a. Practice 608.1: Provide documentation indicating manufacturing location of indigenous materials that are extracted, processed, and manufactured within 500 miles of project site.
4. Practice 1001 – Building Owners’ Manual for One- and Two-Family Dwellings
 - a. Practice 1001.1(20): Provide documentation indicating how to maintenance and care for material.

F. Quality Assurance Submittals

1. Manufacturer Instructions: Provide manufacturer’s written instructions including proper material storage, material handling, installation sequence, and attachment methods.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer shall have a minimum of five (5) years experience in the production of aluminum siding.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Refer to Section [01 60 00 Product Requirements] [insert section number and title].
- B. Deliver siding materials and components in manufacturer’s original, unopened, undamaged packaging with identification labels intact.
- C. Store siding materials on dry, level, firm, and clean surface.

1.6 WARRANTY

- A. Limited Warranty:
 1. Manufacturing Defects: Standard form in which manufacturer agrees to repair or replace items that fail by blistering, checks, crazes, flakes, peels or weathers unevenly due to a defect in manufacturing within warranty period.
 2. Warranty Period: [Lifetime] [50 years].

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Mastic Home Exteriors by Ply Gem (800-788-1964) (www.mastic.com); 2600 Grand Boulevard, Suite 900; Kansas City, Missouri 64108.

1. Product: Mastic ; “[Envoy] [Endurance] Aluminum Siding”.

B. Substitutions:

1. [Not Permitted.]

2. [Requests for substitutions will be considered in accordance with provisions of [Section 01 60 00 – Product Requirements] [insert section number and title].]

2.2 MATERIALS

A. General: Formed and coated aluminum siding complying with AAMA 1402.

2.3 SIDING

A. Product Description:

1. Panel Size: Overall 8 inch exposure; plain, single-board style.
2. Profile: Horizontal Clapboard.
3. Thickness: Nominal 0.024 inches.
4. Texture: Smooth
5. Finish: 2 coat acrylic
6. Color: White.

B. Product Description:

1. Panel Size: Overall [8] [10] inch exposure; plain, double-board style.
2. Profile: Horizontal Clapboard.
3. Thickness: Nominal 0.024 inches.
4. Texture: [Rustic] [Horizon]
5. Finish: 2 coat acrylic
6. Color: [As selected from manufacturer’s full color line] [Insert Color selection] [As indicated on Drawings].

C. Product Description:

1. Panel Size: Overall [8] [10] inch exposure; plain, double-board style.
2. Profile: [Horizontal Clapboard] [Dutch Lap]
3. Thickness: Nominal 0.019 inches.
4. Texture: [Rustic] [Dutch Oak]
5. Finish: 2 coat acrylic
6. Color: [As selected from manufacturer’s full color line] [Insert Color selection] [As indicated on Drawings].

2.4 INSULATION

- A. Board Insulation: Provided under Section [07 21 00 Thermal Insulation] [insert section number and title].

2.5 ALUMINUM SOFFITS

- A. General: Formed and coated aluminum soffits complying with AAMA 1402; Nominal 0.019 inch material thickness.

1. Product Description:

a. Product Name:

- 1) Mastic "Performance Metals® Envoy® Soffit"

b. Standard Panels:

- 1) [Panel Size: 6 inch exposed width, single panels.
- 2) Ribs: V-Groove.
- 3) Soffit type: [Solid, no venting] [Full Vented].]
- 4) [Panel Size: 12 inch exposed width, [double 6] [triple 4] inch panels with [one] [two] intermediate rib(s).
- 5) Ribs: [U-Groove] [V-Groove]
- 6) Soffit type: [Solid, no venting] [Center Vented] [Full Vented].]
- 7) [Panel Size: 16 inch exposed width, quad 4 inch panels with three intermediate ribs.
- 8) Ribs: U-Groove.
- 9) Soffit type: Solid, no venting.]

c. Texture: Smooth.

d. Finish: 2 coat acrylic.

e. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].

- B. General: Formed and coated aluminum soffit complying with AAMA 1402; Nominal 0.016 inch material thickness.

1. Product Description:

a. Product Name:

- 1) Mastic "Performance Metals® Endurance® Soffit"

b. Standard Panels

- 1) [Panel Size: 12 inch exposed width, double 6 inch panels with one intermediate rib.
- 2) Ribs: [U-Groove] [V-Groove]
- 3) Soffit type: [Solid, no venting] [Full Vented].]
- 4) [Panel Size: 12 inch exposed width, triple 4 inch panels with two intermediate rib(s).
- 5) Ribs: U-Groove
- 6) Soffit type: [Solid, no venting] [Center Vented] [Full Vented].]

- c. Texture: Smooth.
 - d. Finish: 2 coat acrylic.
 - e. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].
- C. General: Formed and coated aluminum soffit complying with AAMA 1402; Nominal 0.013 inch material thickness.
1. Product Description:
- a. Product Name:
 - 1) Mastic "Performance Metals® Economy Aluminum Soffit"
 - b. Standard Panels
 - 1) Panel Size: 12 inch exposed width, triple 4 inch panels with two intermediate ribs.
 - 2) Ribs: U-Groove
 - 3) Soffit type: [Solid, no venting] [Center Vented] [Full Vented].
 - c. Texture: Smooth.
 - d. Finish: 2 coat acrylic.
 - e. Color: White.

2.6 TRIM

A. Fascia:

1. General: Formed and coated aluminum trim complying with AAMA 1402; Nominal 0.024 inch material thickness. Formed metal "L" shaped fascia with 1 inch return.
- a. Product Name:
 - 1) Mastic "Performance Metals® Envoy® Fascia".
 - b. Fascia Width: [4] [6] [8] [10] inches.
 - c. Texture: [Smooth] [Smooth, ribbed] [Striated] [Woodgrain].
 - d. Finish: [2 coat acrylic] [PVC Coated]
 - e. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].
2. General: Formed and coated aluminum siding complying with AAMA 1402; Nominal 0.019 inch material thickness. Formed metal "L" shaped fascia with 1 inch return.
- a. Product Name:
 - 1) Mastic "Performance Metals® Endurance® Fascia".
 - b. Fascia Width: [4] [6] [8] [10] inches.
 - c. Texture: Smooth, ribbed.
 - d. Finish: 2 coat acrylic.
 - e. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].

B. Corner Boards:

1. Manufacturer's standard nominal 0.024 inch thick, [Smooth] [Rustic] [Dutch Oak] formed metal outside corner. Factory painted finish.
2. Width: [2 ¼] [3 ½] inch.
3. Color: [White] [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings]

C. Window and door trim:

1. General: Coil stock for field forming window and door trim, configuration as indicated on drawings.
2. Product Name: Mastic "Performance Metals® Trim Sheet [Ultra TS] [TS24]".
3. Product Description:
 - a. Material Thickness: Nominal [0.019] [0.024] inches.
 - b. Coil Width: 24 inches.
 - c. Coil Length: 50 feet.
 - d. Texture: Smooth.
 - e. Finish: 2 coat acrylic.
 - f. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].
4. Product Description:
 - a. Material Thickness: Nominal [0.019] [0.024] inches.
 - b. Coil Width: 24 inches.
 - c. Coil Length: 50 feet.
 - d. Texture: Striated.
 - e. Finish: PVC coated.
 - f. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].
5. Product Description:
 - a. Material Thickness: Nominal 0.019 inches.
 - b. Coil Width: 24 inches.
 - c. Coil Length: 50 feet.
 - d. Texture: Textured.
 - e. Finish: PVC coated.
 - f. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].
6. Product Description:
 - a. Material Thickness: Nominal 0.019 inches.
 - b. Coil Width: 24 inches.
 - c. Coil Length: 150 feet.
 - d. Texture: Smooth.
 - e. Finish: 2 coat acrylic.
 - f. Color: White.

7. Product Description:
 - a. Material Thickness: Nominal 0.019 inches.
 - b. Coil Width: [20] [and] [18] [16] [12] [10] [8] inches.
 - c. Coil Length: 50 feet.
 - d. Texture: Smooth.
 - e. Finish: 2 coat acrylic.
 - f. Color: White.

8. Product Description:
 - a. Material Thickness: Nominal 0.019 inches.
 - b. Coil Width: 14 inches.
 - c. Coil Length: 50 feet.
 - d. Texture: Smooth.
 - e. Finish: 2 coat acrylic.
 - f. Color: [White] [Musket Brown].

D. Window and door trim:

1. General: Coil stock for field forming window and door trim, configuration as indicated on drawings.
2. Product Name: Mastic "Performance Metals® Standard Trim Coil".
3. Product Description:

- a. Material Thickness: Nominal 0.019 inches.
- b. Coil Width: 24 inches.
- c. Coil Length: 50 feet.
- d. Texture: Smooth.
- e. Finish: 2 coat acrylic.
- f. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].

4. Product Description:
 - a. Material Thickness: Nominal 0.019 inches.
 - b. Coil Width: 14 inches.
 - c. Coil Length: 50 feet.
 - d. Texture: Smooth.
 - e. Finish: 2 coat acrylic.
 - f. Color: [White] [Black] [Musket Brown] [Royal Brown].

5. Product Description:
 - a. Material Thickness: Nominal 0.019 inches.
 - b. Coil Width: 24 inches.
 - c. Coil Length: 50 feet.
 - d. Texture: Striated.
 - e. Finish: PVC coated.
 - f. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].

6. Product Description:
 - a. Material Thickness: Nominal 0.019 inches.
 - b. Coil Width: 24 inches.

- c. Coil Length: 50 feet.
- d. Texture: Textured.
- e. Finish: Polymer coated.
- f. Color: White.

E. Window and door trim:

1. General: Coil stock for field forming window and door trim, configuration as indicated on drawings.
2. Product Name: Mastic "Performance Metals® Economy Trim Coil".
3. Product Description:
 - a. Material Thickness: Nominal 0.018 inches.
 - b. Coil Width: 24 inches.
 - c. Coil Length: 50 feet.
 - d. Texture: Smooth.
 - e. Finish: Polymer coated.
 - f. Color: White.
4. Product Description:
 - a. Material Thickness: Nominal 0.019 inches.
 - b. Coil Width: 24 inches.
 - c. Coil Length: 50 feet.
 - d. Texture: Striated.
 - e. Finish: PVC coated.
 - f. Color: White.

2.7 ACCESSORIES

A. Fasteners:

1. [Stainless steel] [Aluminum] fasteners, as recommended by manufacturer, of sufficient length to penetrate minimum 1 inch into substrate.
2. Size: As recommended by manufacturer.

B. Aluminum Accessories:

1. General: Accessories includes, but is not limited to, drip edges, starter strips, "J" and "F" channels.
2. Texture: Smooth.
3. Color: Match Siding.

C. Flashing: Provide [aluminum] [stainless-steel] [Insert metal] flashing complying with Section [07 62 00 Sheet Metal Flashing and Trim] [insert section number and title] at window and door heads and where indicated.

1. [Finish for Aluminum Flashing: [Same as aluminum siding] [Siliconized polyester coating, same color as siding] [Insert finish].]
2. [Finish for Stainless Steel: Dull Satin Finish; No. 6.]

D. Sealants: Mildew-Resistant Silicone Joint Sealant per panel manufacturer's details, refer to Section [07 92 00 – Joint Sealants] [Insert section number and title].

PART 3 - EXECUTION

3.1 PREPARATION

- A. Verify that substrate is in place and ready for installation of aluminum siding.
- B. Verify weather barrier installation is complete and ready for the installation of aluminum siding.
- C. Install board insulation over existing siding forming a smooth, level surface for new siding.

3.2 INSTALLATION

- A. General: Install siding per manufacturer's written installation instructions.
 - 1. Do not install damaged components.
 - 2. Center nails in elongated nailing slots without binding siding to allow for thermal movement.
 - 3. Install siding and accessories according to AAMA 1402.
- B. Install flashings over head condition of openings as indicated on Drawings. Lap weather barrier over flashing.
- C. Install fasteners at no more than [24 inches] [insert spacing] on center.
- D. Stagger siding panel joints uniform pattern as siding installation progresses.
- E. Apply joint sealants at joints per manufacturer's installation instructions and to meet the requirements of Section [07 92 00 – Joint Sealants] [Insert section number and title].

3.3 CLEANING AND PROTECTION

- A. Remove damaged, defective or improperly installed materials. Replace with new materials installed per requirements of this section.
- B. Clean finished surfaces according to manufacturer's written instructions; maintain clean condition until Final Completion.

END OF SECTION



TRIM SHEET TRIM COIL

Trim Sheet and Trim Coil products are designed for use in residential and light commercial applications.

Manufacturing Physicals

All Trim Sheet and Trim Coil shall be produced from 3105 aluminum sheet (minimum tensile strength 28,000 psi - minimum yield strength 25,000 psi) or equivalent. On trim sheet products TS81, TS101, TS121, TS14, TS16, TS18, TS20, TS24, TS24024, WC24, SHL24, SRL24, SCR24, SJH24, SVY24, SKP24, TS24150, S24, and S14 the metal shall receive a special cleaning process to assure maximum paint adhesion. The finish for these products shall be a two-coat acrylic (Alumalure 2000) applied in a two-phase operation which includes a corrosion inhibiting primer and a baked on high performance acrylic topcoat. TS24T, TS24TX, TS24024T, WC24T, SHL24T, SCR24T, SJH24T, SKP24T, SVY24T, SRL24T, and S24T trim coil is manufactured with a PVC striated finish on one side. The finish shall be a PVC (Plastisol) coating applied in a two-coat operation which includes adhesion promoting primer and a baked on high performance PVC topcoat. Plastisol is a baked on coating and not a laminate. The film thickness of the coating shall be a nominal 3 ¼ mils thick, or 3 ½ to 4 times thicker than most other coatings. The PVC coating shall be of a "HMH" (High Molecular Homopolymer) type which shall include pigments which meet the AAMA high performance specification criteria. Mastic Home Exterior offers economy trim sheets, EC24 which has a smooth polymer topcoat, and EC24T which has a textured polymer topcoat.

Material

All trim sheet/coil material has a nominal thickness of .019 with the exception of TS24024 and TS24024T which has a nominal thickness of .024 and EC24 or EC24T at a nominal thickness of .018. All trim sheet/coil is manufactured in 50-foot length coils (1 coil/carton), with the exception of TS24150 which is packaged in a 150-foot length coil.

Product Design

Trim sheet/coil is available painted white/white or color/white. TS81, TS101, TS121, TS14, TS16, TS18, TS20, TS24, TS24024, WC24, SHL24, SRL24, SCR24, SJH24, SVY24, SKP24, TS24150, S24, and S14 are available in Alumalure 2000 color/white. TS24T, TS24024T, WC24T, SHL24T, SCR24T, SJH24T, SKP24T, SVY24T, SRL24T, and S24T are made available in PVC (plastisol) colors. Please see product literature for color availability. Trim sheet/coil is field formed to cover areas such as window trims, door casings, drip edges, fascias, flashing, etc. Trim sheet/coil shall be fastened with color matched aluminum or stainless steel trim nails.

Protection

Direct contact of aluminum products with certain dissimilar materials, or contact with water run-off from dissimilar materials, is likely to result in corrosion. See carton, warranty and installation instructions for more details.

Warranty

Select Trim Sheet (except those with codes beginning with E) is backed by an exclusive V.I.P Limited Lifetime Warranty. Consult actual product warranty certificates for complete coverage details.

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SECTION 07 71 23
MANUFACTURED GUTTERS AND DOWNSPOUTS
Mastic Gutters and Downspouts
by Ply Gem

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Aluminum gutters
- B. Aluminum downspouts
- C. Accessories

1.2 SUBMITTALS

- A. Refer to Section [01 33 00 Submittal Procedures] [insert section number and title].
- B. Product Data: Submit manufacturer current technical literature for each type of product.
- C. Samples: Provide nominal 3 x 5 inch sample of each color indicated for aluminum gutters, downspouts and accessories.
- D. LEED Submittals:
 - 1. Material and Resources (MR)
 - a. Product Certificates for Credit MR 2.2: For Environmentally Preferable Products having recycled content, documentation indicating percentages by weight of postconsumer and pre-consumer recycled content.
- E. NGBS Submittals:
 - 1. Practice 601 – Quality of Construction Materials and Waste
 - a. Practice 601.7: Provide a list of building materials that do not require additional site applied finishes. Include manufacturer's product literature showing type of finish applied to building materials.

2. Practice 604 – Recycled-Content Building Materials
 - a. Practice 604.1: Provide documentation indicating percentages, by weight, of recycled content.
3. Practice 608 – Indigenous Materials
 - a. Practice 608.1: Provide documentation indicating manufacturing location of indigenous materials that are extracted, processed, and manufactured within 500 miles of project site.
4. Practice 1001 – Building Owners’ Manual for One- and Two-Family Dwellings
 - a. Practice 1001.1(20): Provide documentation indicating how to maintenance and care for material.

F. Quality Assurance Submittals

1. Manufacturer Instructions: Provide manufacturer’s written instructions including proper material storage, material handling, installation sequence, and attachment methods.

1.3 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer shall have a minimum of five (5) years experience in the production of aluminum gutters and downspouts.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Refer to Section [01 60 00 Product Requirements] [insert section number and title].
- B. Deliver materials and components in manufacturer’s original, unopened, undamaged packaging with identification labels intact.
- C. Store gutter and downspout materials on dry, level, firm, and clean surface.

1.5 WARRANTY

A. [Limited Warranty – Sectional Gutters and Downspouts:

1. Manufacturing Defects: Standard form in which manufacturer agrees to repair or replace items that fail by blistering, checks, crazes, flakes, peels or weathers unevenly due to a defect in manufacturing within warranty period from date of original installation.
2. Warranty Period: [Lifetime] [50 years.]

B. [Limited Warranty – Gutter Coil:

1. Manufacturing Defects: Standard form in which manufacturer agrees to repair or replace items that fail by blistering, checks, crazes, flakes, peels or weathers unevenly due to a defect in manufacturing within warranty period from date of original installation.
2. Warranty Period: 20 years.]

- C. Gutter Protection Warranty (Leaf Relief Warranty): Standard form in which the manufacturer warrants to the end user that gutter and downspouts, when installed in the manner specified by the manufacturer, will not clog and overflow as a result of the interior of the gutter or downspout filling with debris, such as leaves, twigs, needles or seeds.

1. Warranty Period: Ten (10) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Mastic Home Exteriors by Ply Gem (800-788-1964) (www.mastic.com); 2600 Grand Boulevard, Suite 900; Kansas City, Missouri 64108.

1. Product: Mastic "Performance Metals" Aluminum Gutters and Downspouts.

- B. Substitutions:

1. [Not Permitted.]
2. [Requests for substitutions will be considered in accordance with provisions of [Section 01 60 00 – Product Requirements] [insert section number and title].]

2.2 MATERIALS

- A. General:

1. Formed and coated aluminum coil stock; 3105 H24 aluminum.
2. Gutter Material Thickness: [0.027] [0.032]
3. Downspout Material Thickness: 0.019

2.3 ALUMINUM GUTTERS

- A. Coil Stock:

1. Gutter Size: [5] [6] inches.
2. Profile: Ogee.
3. Texture: Smooth
4. Finish: 2 coat acrylic; applied to [one-side] [two-sides].
5. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].

- B. Sectional Gutters:

1. Gutter Size: Overall [5] [6] inch.
2. Profile: Ogee.
3. Texture: Smooth.
4. Length: [16] [21] [26] [33] [37] feet.
5. Finish: 2 coat acrylic.
6. Color: [As selected from manufacturer's full color line] [Insert Color selection] [As indicated on Drawings].

C. Accessories:

1. Gutter Support:

- a. [Spike and Ferrule: [7] [8] inch spike; white finish.]
- b. [Zip hanger; Mill finish.]
- c. [Combination strap hanger; Mill finish.]
- d. [Snap-in hanger; Mill finish.]
- e. [Snug-fit Hanger; Mill finish.]
- f. [Combination Hanger; Mill finish.]
- g. [Strap Hanger; Mill finish.]
- h. [Bar Hanger; Mill finish.]
- i. [Bar Hanger; Mill finish.]
- j. [Roof Hanger; Mill finish.]

2. Gutter Protection System: Mill finish aluminum; 0.019 inch thick perforated gutter protection; 10 feet long. Size and shape as required for gutter size, style and gutter support. Provide factory fabricated inside and outside corners.
3. Miscellaneous Components: Provide all necessary inside and outside corners, corner reinforcing, eave tubes, and end caps required for a complete installation.

2.4 ALUMINUM DOWNSPOUTS

A. Coil Stock:

1. Downspout Size: [2 by 3] [3 by 4] inches.
2. Profile: Rectangular
3. Texture: Corrugated
4. Finish: 2 coat acrylic.
5. Color: [As selected from manufacturer's full color line] [Insert Color selection] [Match Gutters] [As indicated on Drawings].

B. Sectional Downspouts:

1. Downspout Size: [2 by 3] [3 by 4] inches.
2. Profile: Rectangular
3. Texture: Corrugated
4. Length: [8] [10] feet.
5. Finish: 2 coat acrylic.
6. Color: [As selected from manufacturer's full color line] [Insert Color selection] [Match Gutters] [As indicated on Drawings].

C. Accessories:

1. Downspout Support: Concealed bracket; mill finish.
2. Downspout Support:
 - a. Profile: [Exposed strap] [Downspout clip]
 - b. Color: [As selected from manufacturer's full color line] [Insert Color selection] [Match Downspout] [As indicated on Drawings].

3. Miscellaneous components: Provide all necessary elbows, downspout offset sections, and pop rivets as required for a complete installation. All miscellaneous components shall match downspouts.

2.5 ACCESSORIES

A. Fasteners:

1. [Stainless steel] [Aluminum] fasteners, as recommended by manufacturer, of sufficient length to penetrate minimum 1 inch into substrate.
2. Size: As recommended by manufacturer.

B. Flashing: Provide 0.019 inch thick aluminum roof apron and fascia apron flashing; color [to match gutters] [shall be [insert color]] [As selected from manufacturer's full color line]

C. Flashing: Provide aluminum flashing complying with Section [07 62 00 Sheet Metal Flashing and Trim] [insert section number and title] at roof apron, fascia apron, and where indicated. Flashing color [to match gutters] [shall be [insert color]]

D. Sealants: Mildew-Resistant Joint Sealant as recommended by manufacturer at gutter joints. Color shall be [white] [mill finish].

E. Splash Pans: Fabricate from the following. Size and shape as indicated on Drawings.

1. Copper: [16 ounce per square foot] [insert weight]
2. Aluminum: [0.040 inch] [insert thickness] thick.
3. Stainless Steel: [0.019 inch] [insert thickness] thick.
4. Pre-cast Concrete: Concrete shall be 3,000 psi at 28 days with minimum of 5 percent air entrainment.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Verify that substrates are in place and ready for installation of gutters and downspouts.

3.2 INSTALLATION

- A. General: Install gutters and downspouts per manufacturer's written installation instructions. Install Work securely in place and provide for expansion and contraction of components using lapped and sealed joints
 1. Do not install damaged components.
 2. Separate dissimilar metals to prevent galvanic action through the use of bituminous coating or other permanent separation recommended by SMACNA.
 3. Space expansion joints in gutters at a maximum of 50 foot centers
 4. Rivet joints where required for strength, exposed rivet shall match gutter or downspout color.
 5. Torch cutting of components is not allowed.
- B. Install roof apron flashings at roof edge conditions as indicated on Drawings.

C. Gutters:

1. Install gutter supports at no more than [36 inches] [insert spacing] on center.
2. Slope gutters evenly to downspouts; provide end caps at gutter ends and seal watertight per manufacturer's instructions.
3. Install eave tubes at all downspout locations, seal watertight.
4. Apply joint sealants at gutter joints per manufacturer's installation instructions and to meet the requirements of Section [07 92 00 – Joint Sealants] [Insert section number and title].
5. Install gutter protection per manufacturer's instructions; provide factory fabricated corners at all inside and outside corners.

D. Downspouts:

1. Install downspouts, provide elbows and offsets, and secure downspouts to wall construction using downspout supports spaced no more than [10 feet] [insert spacing] on center. Maximum distance of downspout support from top or bottom of downspout shall be 2 feet. Provide 45 degree elbow at bottom of downspout to direct water away from wall surface or foundation.
2. Where downspout connects to building perimeter drainage system, lap downspout and perimeter drainage pipe a minimum of 3 inches. At concrete perimeter drainage pipe, grout downspout in place, slope grout to shed rain away from downspout.
3. Install [pre-cast concrete] [formed metal] splash pans under downspouts.

3.3 CLEANING AND PROTECTION

- A. Remove damaged, defective or improperly installed materials. Replace with new materials installed per requirements of this section.
- B. Clean finished surfaces according to manufacturer's written instructions; maintain clean condition until Final Completion.

END OF SECTION



SECTIONAL GUTTERS RAIN REMOVAL ACCESSORIES

Mastic Home Exteriors Sectional Gutters and Rain Removal Accessory products are designed for use in residential and light commercial applications.

Manufacturing Physicals

All Mastic Home Exteriors Rain Removal Systems shall be made of 3105-H26 aluminum sheet (minimum tensile strength 26,000 psi – minimum yield strength 22,000 psi) or equivalent. Mastic Home Exteriors Rain Removal Systems are designed to be free-floating, enabling the gutters to expand and contract with temperature changes, while minimizing stress points which cause buckling and leaks.

Mastic Home Exteriors gutters, when properly installed, will support a minimum of 50 pounds per lineal foot. Seven different types of free-floating hanger systems are available in the 5" series, and four hanger systems are available in the 6" series. These hanger systems permit the gutter to be used in both new construction and all types of remodeling work. Gutter hangers to be nominal .051 – .082 thickness, depending on the style specified.

All hanger systems provide a concealed attachment at the front of the gutter, eliminating any exposed protrusions that would detract from the appearance of the gutter. Spikes and ferrules (which restrict the movement of the gutter) and brackets attached to the outside periphery of the gutter shall not be used.

Two different types of high-quality, corrosion-resistant rain removal systems are available.

System Description

Envoy 5" is a premium-quality 5" system used in single-family homes and light commercial building applications. Available with a heavier gauge material in both 2" x 3" and 3" x 4" downspout sizes to accommodate most rain removal requirements.

Envoy 6" works best on large homes where a bigger system will enhance the architecture, or apartments, multifamily complexes and other light commercial buildings. Designed to be a heavy-duty, large-capacity rain removal system, it is available with a 3" x 4" downspout.

Dimensions

Gutters:

Envoy 5": nominal .032 thickness, 16'0", 21'0", 26'0", 33'0" and 37'0" lengths, seven hangers

Envoy 6": nominal .032 thickness, 21'0" and 37'0" lengths, four hangers

Downspouts:

2" x 3": nominal .024 thickness, 10'0"

3" x 4": nominal .024 thickness, 10'0"

Accessories

All accessories used with Mastic Home Exteriors Rain Removal Systems shall be Mastic Home Exteriors accessories designed for use with the gutters and have the same finish. Mill finish accessory components include eave tubes, hangers and expansion joints.

Roof aprons: nominal .032 thickness

End caps: nominal .024 thickness both in the 5" and 6"

Inside and outside miters: nominal .032 thickness

Sealant material: Mastic Home Exteriors Gutterseal

Expansion joints: aluminum lined with neoprene

Downspout clip: nominal .024 thickness

Protection

Direct contact of aluminum products with certain dissimilar materials, or contact with water run-off from dissimilar materials, is likely to result in corrosion. See warranty and installation instructions for more details.

Warranty

Mastic Home Exteriors Rain Removal Systems are backed by an exclusive V.I.P. Limited Lifetime Warranty. Consult actual product warranty certificates for complete coverage details.



ALUMINUM GUTTER COIL

Mastic Home Exteriors Gutter and Downspout Coil products are designed for use in residential and light commercial applications.

Manufacturing Physicals

All Gutter and Downspout Coil shall be produced from 3105 H24 aluminum sheet (minimum tensile strength 21,000 psi - minimum yield strength 15,000 psi) or equivalent. Width tolerance is maintained at the specified width +/- .010. Both sides of the aluminum sheet are coated using roller coater technology. The product has a corrosion inhibiting primer or pretreatment system and an acrylic or polyester topcoat. For color availability, please see product literature.

Material

Aluminum Gutter Coil is manufactured in both nominal .027 and nominal .032 thickness. Mastic Home Exteriors Downspout Coil is produced in nominal .019 thickness material.

Accessories

Accessories available include the following:

- Downspouts – 2" x 3" & 3" x 4" (nominal .019 thickness)
- Downspout with 1.5" Offset– 2" x 3" (nominal .019 thickness)
- Downspout with 3" Offset– 2" x 3" (nominal .019 thickness)
- Elbows (A Style) – 2" x 3" & 3" x 4" (nominal .019 thickness)
- (B Style) – 2" x 3" & 3" x 4" (nominal .019 thickness)
- Inside Box Miter – 5" & 6" (nominal .019 thickness)
- Outside Box Miter – 5" & 6" (nominal .019 thickness)
- Inside Strip Miter – 5" & 6" (nominal .032 thickness)
- Outside Strip Miter – 5" & 6" (nominal .032 thickness)
- Inside Bay Miter – 5" (nominal .032 thickness)
- Outside Bay Miter – 5" (nominal .032 thickness)
- End Caps (Left & Right) – 5" & 6" (nominal .019 thickness)
- Outlet Tubes – 2" x 3" – 3" x 4"
- Spike & Ferrules
- Downspout Pipe Band (nominal .019 thickness)
- Pop Rivets
- Touch-Up Paint

Protection

Direct contact of aluminum products with certain dissimilar materials, or contact with water run-off from dissimilar materials, is likely to result in corrosion. See cartons, warranty and installation instructions for more details.

Warranty

Mastic Home Exteriors Gutter Coil and Related Accessories are backed by a limited 20-year transferable prorated warranty. Consult actual product warranty certificates for complete coverage details.

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Specifiers: Click on the ¶ icon in the WORD toolbar to reveal detailed instructions

SECTION 05 58 00
FORMED METAL FABRICATIONS
Monticello Columns by Ply Gem

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Formed [wrap-around] [and] [primary support] aluminum columns.
- B. Accessories including column base and capital.

1.2 REFERENCES

- A. ASTM International
 - 1. ASTM B26: Standard Specification for Aluminum-Alloy Sand Castings.
 - 2. ASTM B247: Standard Specification for Aluminum and Aluminum-Alloy Die Forgings, Hand Forgings, and Rolled Ring Forgings.

1.3 SUBMITTALS

- A. Refer to Section [01 33 00 Submittal Procedures] [insert section number and title].
- B. Product Data: Submit manufacturer current technical literature for each type of product.
- C. Samples: Provide nominal 3 x 5 inch of each color indicated.
- D. NGBS Submittals:
 - 1. Practice 601 – Quality of Construction Materials and Waste
 - a. Practice 601.7: Provide a list of building materials that do not require additional site applied finishes. Include manufacturer’s product literature showing type of finish applied to building materials.
 - 2. Practice 604 – Recycled-Content Building Materials
 - a. Practice 604.1: Provide documentation indicating percentages, by weight, of recycled content.

3. Practice 608 – Indigenous Materials
 - a. Practice 608.1: Provide documentation indicating manufacturing location of indigenous materials that are extracted, processed, and manufactured within 500 miles of project site.
4. Practice 1001 – Building Owners’ Manual for One- and Two-Family Dwellings
 - a. Practice 1001.1(20): Provide documentation indicating how to maintenance and care for material.

E. Quality Assurance Submittals

1. Manufacturer Erection Instructions: Provide manufacturer’s written installation instructions including proper material storage, material handling, installation sequence, and attachment methods.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Installer shall have a minimum of three (3) years experience in the installation of products listed in this section.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Refer to Section [01 60 00 Product Requirements] [insert section number and title].
- B. Deliver materials and components in manufacturer’s original, unopened, undamaged packaging with identification labels intact.
- C. Store wall materials on dry, level, firm, and clean surface. Stack no more than two bundles high. Elevate one end of bundle to allow moisture run-off, cover and ventilate to allow air to circulate and moisture to escape.

1.6 WARRANTY

- A. Limited Warranty:
 1. Manufacturing Defects: Standard form in which manufacturer agrees to repair or replace items that fail by blistering, checks, crazes, flakes, peels or weathers unevenly due to a defect in manufacturing within warranty period.
 2. Warranty Period: [Lifetime] [50 years].

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Monticello by Ply Gem (800-788-1964) (www.plygem.com); 2600 Grand Boulevard, Suite 900; Kansas City, Missouri 64108.

1. Basis of Design: “Monticello Columns”.

B. Substitutions:

1. [Not Permitted.]
2. [Requests for substitutions will be considered in accordance with provisions of [Section 01 60 00 – Product Requirements] [insert section number and title].]

2.2 MATERIALS

- A. Die and Hand Forgings: ASTM B247 , Alloy 6061-T6.
- B. Castings: ASTM B26, Alloy A356.0-T6.

2.3 ALUMINUM COLUMNS

A. Round:

1. Construction: [Wrap-around] [Primary support].
2. [Diameter: 6 inch
3. Length: [8] [10] feet.]
4. Color: [White] [Almond] [Clay]]
5. [Diameter: 8 inch
6. Length: [8] [9] [10] [12] [16] feet.
7. Color: [White] [Almond] [Clay]]
8. [Diameter: 10 inch
9. Length: [10] [12] [16] [18] feet.
10. Color: White]
11. [Diameter: 12 inch
12. Length: [12] [16] [20] feet
13. Color: White]
14. [Diameter: 15 inch
15. Length: [16] [18] [20] [24] feet
16. Color: White]

B. Square Fluted:

1. Construction: [Wrap-around] [Primary support].
2. [Size: 4 inch square.
3. Length: 8 feet.
4. Color: [White] [Almond] [Clay]]
5. [Size: 5 ½ inch square.
6. Length: [8] [10] feet.
7. Color: [White] [Almond] [Clay]]
8. [Size: 7 ½ inch square
9. Length: [8] [9] [10] [12] [16] feet.]
10. Color: [White] [Clay]]
11. [Size: 9 ½ inch square
12. Length: [10] [12] [16] [18] feet.]
13. Color: White]

C. Panel:

1. Construction: [Wrap-around] [Primary support].
2. [Size: 5 ½ inch square.

3. Length: [8] [10] feet.
4. Color: White]
5. [Size: 7 ½ inch square
6. Length: [8] [10] [12] feet.
7. Color: White]

2.4 ACCESSORIES

A. Fasteners:

1. Self drilling fasteners, as recommended by manufacturer.
2. Size: As recommended by manufacturer.
3. Manufacturer's standard attachment brackets.

B. Capital and Base:

1. Description: Cast aluminum, [two piece] [one piece], finish to match column.
2. Capital: [Corinthian] [Match base].
3. Base: Manufacturer's standard [round] [square] base.

C. Sealants: Mildew-Resistant Silicone Joint Sealant per manufacturer's details, refer to Section [07 92 00 – Joint Sealants] [Insert section number and title].

2.5 FINISH

A. Manufacturer's painted finish: Premium Poly Coated finish; 0.75 to 0.85 dry mil thickness

PART 3 - EXECUTION

3.1 PREPARATION

- A. Verify that structure is in place and ready for installation of aluminum column.
- B. Verify that substrate is square and plumb and ready for placement of base and capital.
- C. Remove dirt and debris from column location prior to placement of column, capital and base.

3.2 INSTALLATION

- A. Locate base, column and capital level and plumb and in alignment with adjacent construction. Fasten components together per manufacturer's installation instructions.
- B. Use concealed anchorages where possible.
- C. Apply joint treatment at joints per manufacturer's installation instructions.

3.3 CLEANING AND PROTECTION

- A. Touch-up, repair or replace components that have been damaged.
- B. Protect components from damage until project is complete.

END OF SECTION



SECTION 04730

SIMULATED STONE

Display hidden notes to specifier. (Don't know how? [Click Here](#))

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Simulated stone veneer.

1.2 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete: Concrete supporting wall.
- B. Section 04200 - Masonry Units: CMU Walls prepared for stone veneer application.
- C. Section 04810 - Unit Masonry Assemblies: Masonry supporting wall.
- D. Section 05400 - Cold-Formed Metal Framing: Formed steel framed supporting wall.
- E. Section 05500 - Metal Fabrications: Shelf angles, structural supports, anchors and other built-in components for building into manufactured stone veneer masonry by this section.
- F. Section 06100 - Rough Carpentry: Wall framing and blocking for stone veneer application.
- G. Section 06112 - Framing and Sheathing: Wood frame supporting wall.
- H. Section 07620 - Sheet Metal Flashing and Trim.
- I. Section 07650 - Flexible Flashing.
- J. Section 07900 - Joint Sealers: Sealant for perimeter and control joints, treating gaps and penetrations.

1.3 REFERENCES

- A. LEED: US Green Building Council's Leadership in Energy and Environmental Design Green Building Rating System.
- B. National Association of Home Builders (NAHB):
 - 1. Section 601.7 - No site finish.
 - 2. Section 602.8 - Termite resistance.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, showing

compliance with requirements.

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.
4. Cleaning methods.

C. Shop Drawings:

1. Submit elevations, sections and details of assembly components; indicate locations, configurations, large scale plans.
2. Show connection to substrate, rough-in and anchor placement dimensions and tolerances and clearances required.
3. Show sequence of installation, attachment and anchor details, and weather sealing.
4. Show location of members, other items of work and related work of other Sections to be coordinated with the series.
5. Submit detail drawings depicting proper installation and flashing techniques. Coordinate locations with those found on the Contract Drawings.

D. Verification Samples: For each finish product specified, two samples, minimum size 2 feet by 4 feet (610 mm by 1219 mm), representing actual products, styles, patterns, and textures.

E. Product Compliance: Submit manufacturer's certification that products comply with NAHB Section 601.7 and 602.8.

F. Submittals:

1. Credit MR 4.1, 4.2 - Recycled Content: Provide percentage of recycled content (post-consumer and pre-consumer).
2. Credit MR 5.1, 5.2 - Regional Materials:
 - a. Provide distance between Project site and extraction site.
 - b. Provide distance between Project site and final manufacturing location.

G. Closeout Submittals: Submit the following items:

1. Maintenance instructions.
2. Manufacturer's warranty.

1.5 QUALITY ASSURANCE

A. Provide a building cladding system that is designed, manufactured and installed to provide a natural stone appearance.

B. Manufacturer Qualifications: Company specializing in manufacturing the veneer system products specified.

C. Installer Qualifications: Certified and trained by manufacturer.

D. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.

1. Finish areas designated by Architect.
2. Include all stone unit types and sizes to be used including a typical corner condition, special shapes and mortar joint treatment. Clean the sample panel using the same materials and tools as planned for the final stone masonry construction.
3. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
4. Refinish mock-up area as required to produce acceptable work.
5. Remove sample panel at the completion of the work.

- 6. Sample panel may be incorporated into the work.
- E. Conduct a pre-installation meeting to verify all products, application procedures, site conditions and warranty terms. Conduct this and all meetings in accordance with Section 01310.
- F. Product Performance: Provide products complying with NAHB Section 601.7 and 602.8.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle materials in accordance with the manufacturers written instructions.
- B. Store products in manufacturer's unopened labeled packaging until ready for installation.
- C. Store products in a covered, ventilated area; do not store near steam pipes, radiators, or in sunlight.
- D. Prior to installation protect material from precipitation combined with freezing temperatures. Product with visible frozen moisture should not be installed.
- E. Store materials on flat surface to maximum height recommended by manufacturer.
- F. Store adhesive, sealant and other installation accessories in compliance recommendations of manufacturer.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Proceed with work only when existing and forecasted weather conditions will permit work to be performed in accordance with manufacturer's recommendations.

1.8 SEQUENCING

- A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
- B. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.9 WARRANTY

- A. Warranty: Provide to the Owner an original of the manufacturer's 50 year non transferable warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Ply Gem - Stone, which is located at: 2600 Grand Suite 900 ; Kansas City, MO 64108; Toll Free Tel: 877-804-1670; Email: [request info \(support@plygemstoneinfo.com\)](mailto:request_info@plygemstoneinfo.com); Web: www.plygemstone.com

- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.
 - 1. When submitting request for substitution, provide complete product data specified above under Submittals, for each substitute product.

2.2 SIMULATED STONE VENEER

- A. Fieldstone Collection: Simulated stone veneer as manufactured by Ply Gem Stone, a division of Ply Gem.
 - 1. Description: Irregular shapes, rounded edges, considered a grouted stone (with mortar joint).
 - 2. Face Texture: Smooth to slightly rugged.
 - 3. Lengths: Range from 6 inches to 20 inches (153 mm to 508 mm).
 - 4. Widths: Range from 4 inches to 12 inches (102 mm to 305 mm).
 - 5. Style: Antigo Fieldstone.
 - 6. Style: Autumn Fieldstone.
 - 7. Style: Buckingham Fieldstone.
 - 8. Style: Buff Fieldstone.
 - 9. Style: Chardonnay Fieldstone.
 - 10. Style: Chester Fieldstone.
 - 11. Style: Columbia Fieldstone.
 - 12. Style: Earthtone Fieldstone.
 - 13. Style: Easton Fieldstone.
 - 14. Style: Glen Rock Fieldstone.
 - 15. Style: Gray Fieldstone.
 - 16. Style: Hampton Fieldstone.
 - 17. Style: Honey Fieldstone.
 - 18. Style: Lehighton Fieldstone.
 - 19. Style: Limestone Fieldstone.
 - 20. Style: Millheim Fieldstone.
 - 21. Style: Omaha Fieldstone.
 - 22. Style: PA Lime Fieldstone.
 - 23. Style: Shade Mountain Fieldstone.
 - 24. Style: Shelby Fieldstone.
 - 25. Style: Shenandoah Fieldstone.
 - 26. Style: Sherwood Fieldstone.
 - 27. Style: Tioga Fieldstone.
 - 28. Style: Wasco Fieldstone.
 - 29. Style: As selected by Architect from manufacturer's full range of style options.
 - 30. Style: As indicated on the Drawings.
- B. Tuscan Fieldstone Collection: Simulated stone veneer as manufactured by Ply Gem Stone, a division of Ply Gem.
 - 1. Description: Irregular shapes, considered a grouted stone.
 - 2. Face Texture: Very detailed face texture.
 - 3. Lengths: Range from 8 inches to 22 inches (203 mm to 559 mm).
 - 4. Widths: Range from 3 inches to 12 inches (76 mm to 305 mm).
 - 5. Style: Autumn Tuscan Fieldstone.
 - 6. Style: Buckingham Tuscan Fieldstone.
 - 7. Style: Penns Valley Tuscan Fieldstone.
 - 8. Style: Shenandoah Tuscan Fieldstone.
 - 9. Style: As selected by Architect from manufacturer's full range of style options.
 - 10. Style: As indicated on the Drawings.
- C. Shadow Ledge Stone Collection: Simulated stone veneer as manufactured by Ply

Gem Stone, a division of Ply Gem.

1. Description: Serrated edges, considered a drystack stone (without a mortar joint).
2. Surface Texture: Rough surface.
3. Lengths: Range from 6 inches to 18 inches (153 mm to 457 mm).
4. Widths: Range from 3 inches to 6 inches (76 mm 153 mm).
5. Style: Aberdeen Shadow LedgeStone.
6. Style: Antigo Shadow LedgeStone.
7. Style: Autumn Shadow LedgeStone.
8. Style: Bradford Shadow LedgeStone.
9. Style: Buckingham Shadow LedgeStone.
10. Style: Chardonnay Shadow LedgeStone.
11. Style: Earthtone Shadow LedgeStone.
12. Style: Easton Shadow LedgeStone.
13. Style: Hampton Shadow LedgeStone.
14. Style: Honey Shadow LedgeStone.
15. Style: Lehighon Shadow LedgeStone.
16. Style: PA Lime Shadow LedgeStone.
17. Style: Shade Mountain Shadow LedgeStone.
18. Style: Shenandoah Shadow LedgeStone.
19. Style: Sherwood Shadow LedgeStone.
20. Style: As selected by Architect from manufacturer's full range of style options.
21. Style: As indicated on the Drawings.

D. LedgeStone Collection: Simulated stone veneer as manufactured by Ply Gem Stone, a division of Ply Gem.

1. Description: Very uniform, considered a drystack stone (without a mortar joint).
2. Face Texture: Smooth to slightly rough
3. Lengths: Range from 6 inches to 18 inches (153 mm to 457 mm).
4. Widths: Range from 2 inches to 6 inches (51 mm to 153 mm).
5. Style: Autumn LedgeStone.
6. Style: Buckingham LedgeStone.
7. Style: Buff LedgeStone.
8. Style: Chardonnay LedgeStone.
9. Style: Easton LedgeStone.
10. Style: Gray LedgeStone.
11. Style: Rockaway LedgeStone.
12. Style: Shade Mountain LedgeStone.
13. Style: Sherwood LedgeStone.
14. Style: As selected by Architect from manufacturer's full range of style options.
15. Style: As indicated on the Drawings.

E. Cut Cobblestone Collection: Simulated stone veneer as manufactured by Ply Gem Stone, a division of Ply Gem.

1. Description: More uniform profile, considered a grouted stone (with mortar joint).
2. Face Texture: Chiseled face texture.
3. Lengths: Range from 6 inches to 20 inches (153 mm to 508 mm).
4. Widths: Range from 3 inches to 12 inches (76 mm to 305 mm).
5. Style: Aberdeen Cut Cobblestone.
6. Style: Autumn Cut Cobblestone.
7. Style: Benson Cut Cobblestone.
8. Style: Buckingham Cut Cobblestone.
9. Style: Chardonnay Cut Cobblestone.
10. Style: Earthtone Cut Cobblestone.

11. Style: Easton Cut Cobblestone.
12. Style: Gray Cut Cobblestone.
13. Style: Honey Cut Cobblestone.
14. Style: Jonestown Cut Cobblestone.
15. Style: Lehighton Cut Cobblestone.
16. Style: Millheim Cut Cobblestone.
17. Style: PA Lime Cut Cobblestone.
18. Style: Shade Mountain Cut Cobblestone.
19. Style: Sherwood Cut Cobblestone.
20. Style: Winfield Cut Cobblestone.
21. Style: As selected by Architect from manufacturer's full range of style options.
22. Style: As indicated on the Drawings.

F. Cobblestone Collection: Simulated stone veneer as manufactured by Ply Gem Stone, a division of Ply Gem.

1. Description: Very uniform, considered a grouted stone (with a mortar joint).
2. Face Texture: Smooth to slightly rough.
3. Lengths: Range from 6 inches to 16 inches (153 mm to 406 mm).
4. Widths: Range from 4 inches to 12 inches (102 mm to 305 mm).
5. Style: Autumn Cobblestone.
6. Style: Buckingham Cobblestone.
7. Style: Buff Cobblestone.
8. Style: Gray Cobblestone.
9. Style: Millheim Cobblestone.
10. Style: Shade Mountain Cobblestone.
11. Style: Sherwood Cobblestone.
12. Style: As selected by Architect from manufacturer's full range of style options.
13. Style: As indicated on the Drawings.

G. Ridgestone Collection: Simulated stone veneer as manufactured by Ply Gem Stone, a division of Ply Gem.

1. Description: More of a uniform pattern, considered a drystack stone (without a mortar joint).
2. Face Texture: Grooved face texture.
3. Lengths: Range from 6 inches to 18 inches (153 mm to 457 mm).
4. Widths: Range from 2 inches to 8 inches (51 mm to 203 mm).
5. Style: Autumn Ridgestone.
6. Style: Buckingham Ridgestone.
7. Style: Chardonnay Ridgestone.
8. Style: Honey Ridgestone.
9. Style: Shade Mountain Ridgestone.
10. Style: As selected by Architect from manufacturer's full range of style options.
11. Style: As indicated on the Drawings.

H. Riverstone Collection: Simulated stone veneer as manufactured by Ply Gem Stone, a division of Ply Gem.

1. Description: Irregular, circular shapes, considered a grouted stone (with a mortar joint).
2. Face Texture: Smooth face texture.
3. Lengths: Range from 4 inches to 14 inches (102 mm to 356 mm).
4. Widths: Range from 4 inches to 14 inches (102 mm to 356 mm).
5. Style: Buff Riverstone.
6. Style: Earthtone Riverstone.
7. Style: Gray Riverstone.
8. Style: Midwest Riverstone.
9. Style: Shade Mountain Riverstone.

10. Style: As selected by Architect from manufacturer's full range of style options.
11. Style: As indicated on the Drawings.

2.3 ACCESSORIES

- A. Colonial Brick: As manufactured by Ply Gem Stone, a division of Ply Gem.
 1. Description: Uniform size, smooth to textured face, grouted the same as real brick, same size in length and wide as real brick,
 2. Style: Chester Colonial.
 3. Style: Clarion Colonial.
 4. Style: Fulton Colonial.
 5. Size: 1 inch (25 mm).
 6. Size: 2 inches (51 mm).
 7. Size: As selected by Architect from manufacturer's standard size options.
 8. Size: As indicated on the Drawings.
- B. Monroe Standard Brick: As manufactured by Ply Gem Stone, a division of Ply Gem.
 1. Size: 2 inches (51 mm).
- C. Monroe Brick Sill: As manufactured by Ply Gem Stone, a division of Ply Gem.
 1. Size: 2-1/2 inches D by 3 inches H by 18-1/2 inches L (64 mm D by 76 mm H by 470 mm L).
- D. Brick Corner: As manufactured by Ply Gem Stone, a division of Ply Gem.
 1. Size: 3-3/4 inches by 7-1/2 inches (95 mm by 191 mm).
- E. Capstone: As manufactured by Ply Gem Stone, a division of Ply Gem.
 1. Size: 12 inches by 19 inches (305 mm by 483 mm).
 2. Color: Brown.
 3. Color: Country.
 4. Color: Cream.
 5. Color: Lime.
- F. Tapered Capstone: As manufactured by Ply Gem Stone, a division of Ply Gem.
 1. Size: 14 inches by 32 inches (356 mm by 813 mm).
 2. Size: 14 inches by 19 inches (356 mm by 483 mm).
 3. Size: As selected by Architect from manufacturer's standard size options.
 4. Size: As indicated on the Drawings.
 5. Color: Brown.
 6. Color: Country.
 7. Color: Cream.
 8. Color: Lime.
- G. Hearthstone: As manufactured by Ply Gem Stone, a division of Ply Gem.
 1. Size: 19 inches by 19 inches (483 mm by 483 mm).
 2. Color: Brown.
 3. Color: Country.
 4. Color: Cream.
 5. Color: Lime.
- H. Trim Stone: As manufactured by Ply Gem Stone, a division of Ply Gem.
 1. Size: 7 inches by 11 inches (178 mm by 279 mm).
 2. Color: Brown.
 3. Color: Country.
 4. Color: Cream.
 5. Color: Lime.

- I. Quoin Corner: As manufactured by Ply Gem Stone, a division of Ply Gem.
1. Size: 6 inches D by 7 inches H by 12 inches L (153 mm D by 178 mm H by 305 mm L).
 2. Color: Brown.
 3. Color: Country.
 4. Color: Cream.
 5. Color: Lime.
- J. Shutter Block: As manufactured by Ply Gem Stone, a division of Ply Gem.
1. Size: 3 inches D by 3 inches H by 14 inches L (76 mm D by 76 mm H by 356 mm L).
 2. Size: 3 inches D by 3 inches H by 15 inches L (76 mm D by 76 mm H by 381 mm L).
 3. Size: As selected by Architect from manufacturer's standard size options.
 4. Size: As indicated on the Drawings.
 5. Color: Brown.
 6. Color: Country.
 7. Color: Cream.
 8. Color: Lime.
- K. Solider: As manufactured by Ply Gem Stone, a division of Ply Gem.
1. Size: 5 inches by 9 inches (127 mm by 229 mm).
 2. Size: 6 inches by 8 inches (153 mm by 203 mm).
 3. Size: As selected by Architect from manufacturer's standard size options.
 4. Size: As indicated on the Drawings.
 5. Color: Brown.
 6. Color: Country.
 7. Color: Cream.
 8. Color: Lime.
- L. Tapered Sill: As manufactured by Ply Gem Stone, a division of Ply Gem.
1. Size: 3 inches D by 2-1/4 inches H by 18 inches L (76 mm D by 57 mm H by 457 mm L).
 2. Size: 3 inches D by 2-1/4 inches H by 24 inches L (76 mm D by 57 mm H by 610 mm L).
 3. Size: As selected by Architect from manufacturer's standard size options.
 4. Size: As indicated on the Drawings.
 5. Color: Brown.
 6. Color: Country.
 7. Color: Cream.
 8. Color: Lime.
- M. Keystone: As manufactured by Ply Gem Stone, a division of Ply Gem.
1. Size: 5 inch (127 mm) base, 10-1/2 inch (267 mm) height, 9 inch (227 mm) top.
 2. Color: Brown.
 3. Color: Country.
 4. Color: Cream.
 5. Color: Lime.
- N. Mantel Bracket: As manufactured by Ply Gem Stone, a division of Ply Gem.
1. Size: 3-1/2 inch (89 mm) base, 8-1/2 inch (216 mm) height, 3-1/4 inch (83 mm) top.
 2. Color: Brown.
 3. Color: Country.
 4. Color: Cream.
 5. Color: Lime.

- O. Date/Address Stone: As manufactured by Ply Gem Stone, a division of Ply Gem.
 - 1. Size: 7-1/4 inches by 11-1/2 inches (184 mm by 292 mm).
 - 2. Color: Brown.
 - 3. Color: Country.
 - 4. Color: Cream.
 - 5. Color: Lime.

- P. Electrical Box: As manufactured by Ply Gem Stone, a division of Ply Gem.
 - 1. Size: 8 inches by 8 inches (203 mm by 203 mm).
 - 2. Size: 8 inches by 12 inches (203 mm by 305 mm).
 - 3. Size: As selected by Architect from manufacturer's standard size options.
 - 4. Size: As indicated on the Drawings.
 - 5. Color: Brown.
 - 6. Color: Country.
 - 7. Color: Cream.
 - 8. Color: Lime.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation.
- B. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to installer. Notify Architect of unsatisfactory preparation before proceeding.
- C. Verify roofs have gutters or water diffusers to direct moisture away from the stone exterior walls.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation to be free of dirt, dust, debris, and other contaminants.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in strict accordance with manufacturer's installation instructions and in proper relationship with adjacent construction. Provide color-matched caulking.

3.4 CLEANING AND PROTECTION

- A. Clean installed veneer with a mild soap and water solution.
- B. Protect installed products until completion of project. Protect finished work from ice melting salts or other chlorine based chemicals.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

CERTIFICATION OF CONFORMANCE VINYL SIDING AND SOFFIT

Mastic Home Exteriors® siding panels are designed for use in residential and light commercial applications.

FINISH

Mastic Home Exteriors vinyl siding and soffit are produced from PVC compound using high quality materials and standards. Close control of color and gloss is maintained to provide for an attractive, weatherable surface. Textured vinyl panels are uniformly embossed to provide an attractive woodgrain pattern.

For Quest® cedar colors, **Kynar® 500 has been formulated into a film, which becomes an integral part of an exclusive layering process.

With the combination layers of cedar graining and shading, and a Kynar® 500 finish, Quest cedar colors are resistant to the effects of sun, wind, temperature extremes and environmental pollutants.

The film finish system exhibits no cracking, blistering, corrosion or loss of adhesion when subjected to extreme test cycles of cold, heat, acid rain and humidity. Test results are available upon request.

MANUFACTURING PHYSICALS

Solid vinyl siding, soffit and accessories are extruded polyvinylchloride (PVC) compound as defined in ASTM D3679, "Standard Specification for PVC Siding." The cell classification as defined by ASTM D1784 is 13344-B. Mastic Home Exteriors PVC resin meets or exceeds the properties as listed here:

Tensile strength (psi)	7,100 - 7,600
Tensile modulus (psi)	360,000 - 400,000
Specific gravity	1.39 - 1.49
Hardness (Shore D)	76±3
Heat deflection under load 264 psi	170°F
Izod impact strength (ft-lbs/in. of notch)	3.3
Chemical resistance	Excellent
Coefficient of expansion (in./in./°F)	2.9 (73.7) x 10 ⁻⁵
R-Value	3.8 (Structure)
Water absorption	0.5% (Structure)
Water diffusion	0.5 (Structure)
Impact resistance	175 in.lbs. (Structure)
Sound transmission class	18 (Structure)
STC wall system	38 (Structure)

THICKNESS

All Mastic vinyl siding and soffit panels exceed requirements per ASTM D3679 section 4.2

SIDING

Structure® D6, Single 7 (Vinyl)	.046" nominal
Structure® D4, D4 1/2 Dutch Lap (Vinyl)	.046" nominal
Liberty Elite®	.048" nominal
Board & Batten	.050" nominal
Silhouette Classic™	.044" nominal
Charleston Beaded® Traditional	.046" nominal
Charleston Beaded® Contemporary	.044" nominal
Ovation®	.042" nominal
Mill Creek®	.040" nominal
Trade•Markcc®	.040" nominal
T-lok® Barkwood®	.048" nominal
QUEST®	.046" nominal
Carvedwood 44™	.044" nominal
Brentwood	.040" nominal

SOFFIT

Ventura®	.044" nominal
Pro-Bead®	.040" nominal
Pro-Tech Plus® Triple 4"	.040" nominal
Pro-Tech Plus® Double 5"	.042" nominal
Pro-Select®	.046" nominal
Trade•Markcc®	.040" nominal
Universal	.036" nominal

SOFFIT VENTILATION AREA

Ventura®	9.19 sq. in.
Free air space area sq. in./sq. ft.:	
Pro-Bead®	1.54 sq. in.
Pro-Tech Plus® Triple 4"	5.87 sq. in.
Pro-Tech Plus® Double 5"	7.53 sq. in.
Pro-Select®	7.53 sq. in.
Trade•Markcc®	7.53 sq. in.
Universal	5.87 sq. in.

FIRE-RESISTANCE RATINGS

ASTM E84	
Flame spread	less than 20
Fuel contribution	0
Smoke density	400
Structure flame spread	45
ASTM D635	
Avg. time of burning	less than 5 sec.
Avg. length of burning	20mm
Note: No self-sustained burning occurred.	
ASTM D2843 (U.B.C. #52-2)	
Smoke density	48
ASTM E-119	
1-hour firewall, Standard Test method for Fire Tests of Building Construction and Materials	
UBC 26-9	
Intermediate-Scale Multistory Fire Test	

RELEVANT STANDARDS /CODES

Mastic Home Exteriors vinyl siding and soffit products meet or exceed the following industry standards and/or building code approvals:

STANDARDS AND CODES REPORT

ASTM	C1363
ASTM	C272
ASTM	D2843
	(U.B.C. #52-2)
ASTM	D3679
ASTM	D4226
ASTM	D635
ASTM	E84
ASTM	E90
ASTM	E96
ICBO	1478
ICC Evaluation Service	NER-638
Metro Dade	08-0429.11
State of Florida	5538-R1
State of Florida	11191
State of Florida	5544
State of Florida	12141
Texas State Board of Insurance Ruling	EC-27



WARRANTY

Mastic Home Exteriors backs its vinyl siding and soffit with a Mastic V.I.P. Limited Lifetime Warranty, ensuring that the products are free from manufacturing defects when installed according to the manufacturer's specifications. This warranty includes hail coverage. When the property is owned by other than an individual(s), such as in the case of a corporation, etc., the warranty period shall be 50 years from the original date of installation. Many products also include hail coverage. Consult actual product warranty certificates for complete coverage details.

*All data are applicable to Mastic brand name vinyl siding products.

**Kynar 500 is a registered trademark of Elf Atochem North America, Inc.

CERTIFICATION OF CONFORMANCE

ALUMINUM SIDING AND SOFFIT

Mastic Home Exteriors siding panels are designed for use in residential and light commercial applications.

MANUFACTURING PHYSICALS

Mastic Home Exteriors Aluminum siding and soffit are made of 3105 aluminum sheet (minimum tensile strength 28,000 psi; minimum yield strength 25,000 psi).

FINISH

The Alupalure 2000® finish is a two-coat acrylic applied in a two-phase operation that includes corrosion-inhibiting primer and a baked-on, high-performance acrylic topcoat.

THICKNESS

SIDING	(NOMINAL)
Rustic™	
Endurance Double 4"	.019
Envoy Double 4"	.024
Dutch Oak®	
Endurance Double 5"	.019
Dutch Lap	
Traditional™ Select	
Envoy Single 8"	.024
Horizon Collection™	
Envoy Double 5"	.024
V-GROOVE SOFFIT	
Double 6"	
Envoy Solid/Perforated	.019
Endurance Solid/Perforated	.016
U-GROOVE SOFFIT	
Triple 4" / Double 6" / Quad 4"	
Envoy Solid/Lanced	.019
Triple 4" / Double 6"	
Endurance Solid/Lanced	.016

R-VALUE

Mastic Home Exteriors aluminum siding, when installed over a flat wall, have an R-Value of approximately 0.74. If applied over foil, the R-Value increases to approximately 1.10.

SOFFIT VENTILATION AREA

Envoy V-Groove	
12" Double 6"	15.0 sq. in.
6" Single	7.5 sq. in.
Endurance V-Groove	
12" Double 6"	15.0 sq. in.
Envoy U-Groove	
12" Double 6"	10.6 sq. in.
12" Triple 4" (center)	4.4 sq. in.
12" Triple 4" (full)	13.2 sq. in.
16" Quad 4" (center)	8.9 sq. in.
Endurance U-Groove	
12" Double 6"	10.6 sq. in.
12" Triple 4" (center)	4.4 sq. in.
12" Triple 4" (full)	13.2 sq. in.
Economy U-Groove	
12" Triple 4" (center)	4.4 sq. in.
12" Triple 4" (full)	13.2 sq. in.

RELEVANT STANDARDS/CODES

Mastic Home Exteriors aluminum siding and soffit products meet or exceed the following industry standards and/or building code approvals:

STANDARDS + CODES	REPORT #
AAMA	1402.86
FHA for single-family dwellings	4900.1
FHA for two-family dwellings	4910.1
DOD for military family dwellings	4720.21
ICBO	1478
ICC Evaluation Service	NER-638
Metro Dade	07-1026.01
State of Florida	5543
State of Florida	5544-R1
State of Florida	5546
Texas State Board of Insurance Ruling	EC-27

WARRANTY

Mastic Home Exteriors, Inc. backs its aluminum siding and non-economy soffit with a V.I.P. Limited Lifetime Warranty that the product is free from manufacturing defects when installed according to the manufacturer's specifications. When the property is owned by other than an individual(s), such as the case of a corporation, etc., the warranty period shall be 50 years from the original date of installation. Many products also include hail coverage. Consult product warranty certificates for complete coverage details



CODE APPROVALS

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Mastic Home Exteriors vinyl siding and accessories meet or exceed the following code approvals:

- International Conference of Building Officials (ICBO) Report No. 1478
- Metropolitan Dade County (Fla.) Board of Rules and Appeals Acceptance No. 08-0429.11
- ICC Evaluation Service NER-638
- Texas Department of Insurance (TDI) EC-27
- State of Florida 5538-R1 (siding/soffit)
- State of Florida 5544 (Structure®, Board & Batten)
- State of Florida 11191 (soffit)
- State of Florida 12141 (siding)

Mastic Home Exteriors aluminum siding and accessories meet or exceed the following code approvals:

- International Conference of Building Officials (ICBO) Report No. 1478
- Metropolitan Dade County (Fla.) Board of Rules and Appeals Acceptance No. 07-1026.01
- State of Florida 11191 (soffit)
- State of Florida 5544-R1(siding)

Model Building Code Bodies

ICBO
International Conference
of Building Officials
5360 Workman Mill Road
Whittier, CA 90601
562/699-0541

CABO
Council of American Building Officials
5203 Leesburg Pike, Ste 708
Falls Church, VA 22041
703/931-4533