Aluminum Specifications

Section 07 46 33

(905) 738-5731 General

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Aluminum siding.

B. Aluminum soffit.

C. Aluminum fascia.

D. Aluminum trim coil and accessories.

1.2 RELATED SECTIONS

.1 [Section 06 10 00 - Rough Carpentry]

.2 [Section 07 21 13 - Board Insulation]

.3 [Section 07 25 13 - Modified Bituminous Air and Vapour Retarders]

.4 [Section 07 26 00 - Vapour Retarders]

.5 [Section 07 62 00 - Sheet Metal Flashing and Trim]

.6 [Section 07 92 00 - Joint Sealants].

.7 [Section 07 60 00 – Flashing and sheet metal].

1.3 REFERENCES

A. CAN/ULC-S135 Fire test for the determination of combustibility parameters of building materials

B. CGSB 93.2-M91 Prefinished aluminum siding soffits and fascia, for residential use

C. AAMA 1402 Standard Specifications for Aluminum Siding, Soffit and Fascia

1.4 SUBMITTALS

A. Submit under provisions of Section 01 30 00 - Administrative Requirements.

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.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Maintain rigorous production quality control standards to ensure that aluminum siding will perform as expected for its intended use.

B. Installer Qualifications: Installer with not less than three years documented experience with aluminum products

C. Mock-Up: Provide a mock-up for evaluation of surface installation techniques and workmanship.

1. Finish areas designated by Architect.
2. Do not proceed with remaining work until Architect approves workmanship, color, and sheen.
3. Reinstall mock-up area as required to produce acceptable work.

D. Regulatory Requirements:

1. International Building Code (IBC)
2. International Residential Code (IRC)
3. Florida Building Code
4. CAN/ULC-S135 Standard Method of Test for Determination of Degrees of Combustibility of Building Materials Using an Oxygen Consumption Calorimeter (Cone Calorimeter)

1.6 DELIVERY, STORAGE AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Package products in cartons. Cartons to be marked with manufacturer's name, siding style, color, identifying lot number.

C. Store aluminum siding, soffits, and accessories in clean, dry area, out of direct sunlight.

D. Handle material to prevent damage. Do not allow cartons to crease.

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.

1.8 WARRANTY

A. Provide manufacturer's 25 year prorated limited warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Royal Building Products, which is located at:750 Creditstone Road, Concord ON, Canada L4K 5A5; Toll Free Tel: 800-387-2789; Tel: 905-738-4171; Fax: 905-738-5731; Email: request info (RBPCustomerCare@royalbuildingproducts.com); Web: www.royalbuildingproducts.com

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 MATERIALS

A. Typical Physical Properties 3105 Aluminum alloy

B. Fire Properties: Meets S-135

2.3 SIDING

A. Royal Cedar Renditions Design Series – Roll-formed 6" Siding Profile.

1. 6 inch reveal siding profile.
2. Length:
   12 feet (3.65 m).

3. Width: 6 inches (152.4 mm)
4. Thickness: 0.027 inch (0.6858 mm).
5. Profile finish: smooth woodgrain
6. Nail hem.
7. Color: As selected by Architect from manufacturer's colors.

B. Royal Cedar Renditions Design Series – Roll-formed 4" Siding Profile.
1. 4 inch reveal siding profile.
2. Length:
12 feet (3.65 m).
3. Width: 4 inches (101.6 mm)
4. Thickness: 0.027 inch (0.6858 mm).
5. Profile finish: smooth woodgrain
6. Nail hem.
7. Color: As selected by Architect from manufacturer's colors.

C. Royal Cedar Renditions Design Series – Roll formed 1" Face 5/8 J-trim and starter strip
12 feet (3.65 m).
1. Width: 1 inch face (25.4 mm).
2. Thickness: 0.021 inch (0.5334 mm).
3. Profile finish: smooth woodgrain

D. Royal Cedar Renditions – V-Groove Soffit Vented and plain
12 feet (3.65 m).
1. Width: 8 inches (203.2 mm).
2. Each 8.00 inch (203.2 mm) wide horizontal siding panel nominally configured as two 3-inch (76.2 mm) panels in locking style.
3. Thickness: 0.021 inch (0.5334 mm).
4. Profile finish: smooth woodgrain
5. Nail hem
6. Ventilation area 2.95 sq in per sq foot
7. Color: As selected by Architect from manufacturer's colors.

E. Royal Cedar Renditions D4 and D4D Siding
12 feet (3.65 m).
1. Width: 7.50 inches (190.5 mm).
2. Each 7.50 inch (190.5 mm) wide horizontal siding panel nominally configured as two 3.75-inch (95.25 mm) panels in locking style.
3. Thickness: 0.021 inch (0.5334 mm).
4. Profile finish: smooth woodgrain
5. Nail hem
6. Color: As selected by Architect from manufacturer's colors.

2.4 ACCESSORIES

A. Standard Siding Accessories: Provide outside corners, j-channels, trim coil, and fascia as indicated on the Drawing or as required for the project.
1. Color: As selected by Architect from manufacturer's colors.
2. Produced from the same compound materials and with comparable properties as the siding.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared in accordance with all requirements.

B. Confirm that all critical dimensions are as specified on the drawings.

C. 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. Repair substrate flaws or defects before applying siding or soffits.

C. Where necessary, fur surfaces to an even plane and free from obstructions before application.

D. 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 siding and soffits in accordance with the latest edition of the manufacturer's Installation Instructions.

B. Install aluminum siding, soffits, and accessories in accordance with best practice, with all joint members plumb and true.

C. Securely attach siding using methods and materials recommended by siding/soffit manufacturer for wind load conditions at project site.

3.4 FIELD QUALITY CONTROL

A. After installation of siding and soffits, check entire surface for obvious flaws or defects.

B. Replace and repair any problem areas, paying close attention to the substrate for causes of the problem.

3.5 CLEANING

A. After application of siding and soffits, clean as necessary to remove all fingerprints and soiled areas.

B. Upon completion of siding application, clean entire area, removing all scrap, packaging, and unused materials related to this work.

3.6 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION