

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 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
- D. IAMPO UES-ER 794 Section Roofing & Siding panels and Aluminum Siding

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" 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 8" Siding Profile.
 - 1. 8" reveal siding profile.
 - 2. Length: 12 feet (3.65m).
 - 3. Width: 8 inches (203.2 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 Board & Batten Siding Profile.
 - 1. Board & Batten siding profile.
 - 2. Length: 10 feet (3.048 m).
 - 3. Width: 7.91" (200.91 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 color
- D. Royal Cedar Renditions Design Series roll-formed 1" Face 5/8 J-trim and starter strip
 - 1. 1" Face 5/8 J-trim and starter strip
 - 2. Length: 12 feet (3.65m).
 - 3. Width: 1" face (25.4 mm).
 - 4. Thickness: 0.021" (0.5334 mm).
 - 5. Profile finish: smooth woodgrain
 - 6. Color: As selected by Architect from manufacturer's colors.

E. Royal Cedar Renditions D4 and D4D Siding

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

2.4 SOFFIT

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

1. 6" reveal soffit 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. Ventilation area: 6.10 sq in per sq foot
8. Color: As selected by Architect from manufacturer's colors.

B. Royal Cedar Renditions – V-Groove Soffit Vented and plain

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

2.5 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