



SECTION 07 46 33
VINYL SIDING

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Vinyl siding.
- B. Vinyl soffits.
- C. Vinyl trim and accessories.

1.2 RELATED SECTIONS

- A. Section 06 10 00 - Rough Carpentry.
- B. Section 07 21 26 - Blown Insulation.
- C. Section 07 26 00 - Vapor Retarders.
- D. Section 07 60 00 - Flashing and Sheet Metal.
- E. Section 07 90 00 - Joint Protection.

1.3 REFERENCES

- A. ASTM D 635 - Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supported Plastics in a Horizontal Position.
- B. ASTM D 638 - Test Method for Tensile Properties of Plastics.
- C. ASTM D 648 - Test Method for Deflection Temperature of Plastics Under Flexural Load.
- D. ASTM D 696 - Test Method for Coefficient of Linear Expansion of Plastics.
- E. ASTM D 1929 - Test Method for Ignition Properties of Plastics.
- F. ASTM D 2843 - Test Method for Density of Smoke from the Burning or Decomposition of Plastics.
- G. ASTM D 3679 - Specification for Rigid Poly Vinyl Chloride (PVC) Siding.
- H. ASTM D 4226 - Test Methods for Impact Resistance of Rigid Poly Vinyl Chloride (PVC) Building Products.
- I. ASTM E 84 - Test Method for Surface Burning Characteristics of Building Materials.
- J. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
- K. CAN/CGSB 41-24-95 - Rigid Vinyl Siding, Soffits and Fascia

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Royal Building Products - Siding & Trim Board, which is located at: 91 Royal Group Crescent; Woodbridge, ON, Canada L4H 1X9; Toll Free Tel: 800-387-2789; Tel: 905-850-9700 ; Fax: 905-850-9184 ;
Email: chris.j.johnson@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:
 - 1. Tensile Strength: Greater than 6000 PSI, per ASTM D 638.
 - 2. Modulus of Elasticity: Greater than 365,000 PSI, per ASTM D 638.
 - 3. Deflection Temperature Under Load: 165 degrees F (77 degrees C) @ 264 Psi per ASTM D 648.
 - 4. Coefficient of Linear Expansion: Less than 3.5 x 10⁻⁵ in/in/degrees F, per ASTM D 696.
 - 5. Impact Resistance: > 60 in-lbs at 73 degrees F (23 degrees C) when tested in accordance with ASTM D 4226.
 - 6. Low Temperature Flexibility: passed CAN/CGSB 41-24-95.
 - 7. Surface Distortion (oil can): No distortion at 120 degrees F when tested in accordance with ASTM D 3679.
- B. Fire Properties: Meets UBC 42-1:
 - 1. Flame Spread Index: Less than 25 when tested in accordance with ASTM E 84.
 - 2. Fuel Contribution: 0 when tested in accordance with ASTM E 84.
 - 3. Smoke Developed Index: 510.2 when tested in accordance with ASTM E 84.
 - 4. Self-ignition temperature: 810 degrees F when tested in accordance with ASTM D 1929.
 - 5. Smoke Density Rating: 42.1 percent when tested in accordance with ASTM D 2843.
 - 6. Maximum smoke density: 56.0 percent when tested in accordance with ASTM D 2843.
 - 7. Visibility of exit sign: Good when tested in accordance with ASTM D 2843.
 - 8. Total burn time: Less than 5 seconds when tested in accordance with ASTM D 635.
 - 9. Extent of burning: Less than 10 mm when tested in accordance with ASTM D 635.
 - 10. Fire resistance rating: 1 hour when tested in accordance with ASTM E 119.

2.3 SIDING

- A. Royal Woodland double 4-1/2 inch (114 mm) Traditional Profile.
 - 1. 4-1/2 inch (114 mm) clapboard profile.
 - 2. Each 10.350 inch (263 mm) wide horizontal siding panel nominally configured as two 4-1/2 inch (114 mm) panels in the clapboard style with .675 inch (17 mm) butt height.
 - 3. Length:
 - a. 12 feet (3.65 m).
 - b. 16 feet (4.87 m).
 - c. 25 feet (7.62 m).
 - 4. Width: 10.350 inches (263 mm).
 - 5. Thickness: 0.046 inch (1.17 mm).
 - 6. Double nail hem.
 - 7. Wind Resistance: Design pressure of minus105 psf with standard installation.

5. Length: 12 feet (3.66 m).
 6. Width: 11.320 inch (288 mm).
 7. Thickness: 0.044 inch (1.12 mm).
 8. Color: As selected by Architect from manufacturer's standard colors.
- G. Estate Colonial Beaded Profile.
1. 6-1/2 inch (165 mm) beaded clapboard profile.
 2. Each 7.880 inch (288 mm) wide horizontal siding panel nominally configured as 6-1/2 inch (165 mm) panel in the beaded clapboard style with .625 inch (15.8 mm) butt height.
 3. Single nail hem.
 4. Wind Resistance: design pressure of minus 87 psf with standard installation
 5. Length: 12 feet 4 inches (3.76 m).
 6. Width: 7.880 inch (288 mm).
 7. Thickness: 0.044 inch (1.12 mm).
 8. Color: As selected by Architect from manufacturer's standard colors.
- H. Residential Double 4 inch (102 mm) Traditional Profile.
1. 4 inch (102 mm) clapboard profile.
 2. Each 8.481 inch (215 mm) wide horizontal siding panel nominally configured as two 4 inch (102 mm) panels in the clapboard style with .500 inch (12.7 mm) butt height.
 3. Curl nail hem.
 4. Wind Resistance: design pressure of minus 93 psf with standard installation.
 5. Length: 12 feet 6 inches (3.81 m).
 6. Width: 8.481 inch (215 mm).
 7. Thickness: 0.042 inch (1.12 mm).
 8. Color: As selected by Architect from manufacturer's standard colors.
- I. Residential Double 4.5 inch (102 mm) Traditional Profile.
1. 4.5 inch (114 mm) clapboard profile.
 2. Each 9.655 inch (245 mm) wide horizontal siding panel nominally configured as two 4.5 inch (114 mm) panels in the clapboard style with .500 inch (12.7 mm) butt height.
 3. Curl nail hem.
 4. Wind Resistance: design pressure of minus 93 psf with standard installation.
 5. Length: 12 feet (3.65 m).
 6. Width: 9.055 inch (229 mm).
 7. Thickness: 0.042 inch (1.02 mm).
 8. Color: As selected by Architect from manufacturer's standard colors.
- J. Residential Double 4-1/2 inch (114 mm) Designer Profile.
1. 4-1/2 inch (114 mm) designer profile.
 2. Each 10.350 inch (263 mm) wide horizontal siding panel nominally configured as two 4-1/2 inch (114 mm) panels in the designer style with .500 inch (12.7 mm) butt height.
 3. Curl nail hem.
 4. Wind Resistance: design pressure of minus 93 psf with standard installation.
 5. Length: 12 feet (3.66 m).
 6. Width: 10.350 inch (263 mm).
 7. Thickness: 0.042 inch (1.12 mm).
 8. Color: As selected by Architect from manufacturer's standard colors.
- K. Residential Double 5 inch (127 mm) Traditional Profile.
1. 5 inch (127 mm) clapboard profile.
 2. Each 11.473 inch (291 mm) wide horizontal siding panel nominally configured as two 5 inch (127 mm) panels in the clapboard style with .500 inch (12.7 mm) butt height.
 3. Curl nail hem.
 4. Wind Resistance: design pressure of minus 65 psf with standard installation.
 5. Length: 12 feet (3.66 m).

6. Width: 10.350 inch (263 mm).
 7. Thickness: 0.042 inch (1.12 mm).
 8. Color: As selected by Architect from manufacturer's standard colors.
- L. Residential Triple 3 (114 mm) Profile.
1. 3 inch (76 mm) clapboard profile.
 2. Each 10.325 inch (262 mm) wide horizontal siding panel nominally configured as three 3 inch (76 mm) panels in the triple 3 style with .500 inch (12.7 mm) butt height.
 3. Curl nail hem.
 4. Wind Resistance: design pressure of minus 93 psf with standard installation.
 5. Length: 12 feet (3.66 m).
 6. Width: 10.325 inch (262 mm).
 7. Thickness: 0.042 inch (1.12 mm).
 8. Color: As selected by Architect from manufacturer's standard colors.
- M. Royal Crest Double 4 inch (102 mm) Traditional Profile.
1. 4 inch (102 mm) clapboard profile.
 2. Each 9.450 inch (240 mm) wide horizontal siding panel nominally configured as two 4 inch (102 mm) panels in the clapboard style with .500 inch (12.7 mm) butt height.
 3. Curl nail hem.
 4. Wind Resistance: design pressure of minus 65 psf with standard installation.
 5. Length: 12 feet 6 inches (3.81 m).
 6. Width: 9.450 inches (240 mm).
 7. Thickness: 0.040 inch (1.02 mm).
 8. Color: As selected by Architect from manufacturer's standard colors.
- N. Royal Crest Double 4 inch (102 mm) Vertical Profile.
1. 4 inch (102 mm) soffit profile.
 2. Each 9.180 inch (233 mm) wide horizontal siding panel nominally configured as two 4 inch (102 mm) panels in the soffit style with .500 inch (12.7 mm) butt height.
 3. Single nail hem.
 4. Wind Resistance: design pressure of minus 81 psf with standard installation.
 5. Length: 10 feet (3.05 m).
 6. Width: 9.180 inches (233 mm).
 7. Thickness: 0.040 inch (1.02 mm).
 8. Color: As selected by Architect from manufacturer's standard colors.
- O. Royal Crest Double 4 inch (102 mm) Designer Profile.
1. 4 inch (102 mm) clapboard profile.
 2. Each 9.297 inch (236 mm) wide horizontal siding panel nominally configured as two 4 inch (102 mm) panels in the clapboard style with .500 inch (12.7 mm) butt height.
 3. Curl nail hem.
 4. Wind Resistance: design pressure of minus 65 psf with standard installation.
 5. Length: 12 feet 6 inches (3.81 m).
 6. Width: 9.297 inches (236 mm).
 7. Thickness: 0.040 inch (1.02 mm).
 8. Color: As selected by Architect from manufacturer's standard colors.
- P. Royal Crest Double 5 inch (127 mm) Traditional Profile.
1. 5 inch (127 mm) clapboard profile.
 2. Each 11.473 inch (291 mm) wide horizontal siding panel nominally configured as two 5 inch (127 mm) panels in the clapboard style with .500 inch (12.7 mm) butt height.
 3. Curl nail hem.
 4. Wind Resistance: design pressure of minus 65 psf with standard installation.
 5. Length: 12 feet (3.66 m).
 6. Width: 11.493 inches (291 mm).
 7. Thickness: 0.040 inch (1.02 mm).