

## PART 1 – GENERAL

### 1.01 Scope of Work

- A. Furnish all necessary labor, material and equipment for complete installation of Kaycan Vinyl Skirting and related work as shown on drawings or specified herein.

### 1.02 References

- A. American Society for Testing and Materials (ASTM)
  - ASTM D256 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics
  - ASTM D618 - Standard Practices for Conditioning Plastics for Testing
  - ASTM D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position
  - ASTM D638 - Standard Test Method for Tensile Properties of Plastics
  - ASTM D648 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position
  - ASTM D696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer
  - ASTM D790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
  - ASTM D1929 - Standard Test Method for Determining Ignition Temperature of Plastics
  - ASTM D2843 - Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics
  - ASTM D3679 - Standard Specification for Rigid Poly-Vinyl Chloride (PVC) Siding
  - ASTM D4216 - Standard Specification for Rigid Poly-Vinyl Chloride (PVC) and Related PVC and Chlorinated Poly-Vinyl Chloride (CPVC) Building Products Compounds
  - ASTM D4226 - Standard Test Methods for Impact Resistance of Rigid Poly-Vinyl Chloride (PVC) Building Products
  - ASTM D4477 - Standard Specification for Rigid (Unplasticized) Poly (Vinyl Chloride) (PVC) Soffit
  - ASTM D5206 - Standard Test Method for Wind-load Resistance of Rigid Plastic Siding
  - ASTM D6864 - Standard Specification for Color and Appearance Retention of Solid Colored Plastic Siding Products
  - ASTM D7251 - Standard Specification for Color and Appearance Retention of Variegated Color Plastic Siding Products
  - ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials

### 1.03 Submittals

- A. Submit samples of skirting design, size and color for approval.
- B. Product data: Manufacturers standard printed product data and installation instruction for specified products.
- C. Selection samples: Submit color chips of manufacturer's full range of colors for Architects selection.
- D. Verification samples: Submit three samples, each 12 inch in length, of each specified vinyl product in the specified color.
- E. Quality assurance submittals: Submit evidence of Code compliance specified in the quality assurance section of this specification.

### 1.04 Quality Assurance

- A. Manufacturer to certify that vinyl skirting as supplied meets or exceeds the conditions specified in section 2.02.
- B. Regulatory compliance:
  - 1. Conforms to ASTM D3679 and ASTM D4477

### 1.05 Delivery, Storage and Handling

- A. Skirting Panel is packed in cardboard cartons identified with stickers bearing the manufacture's name, product name, product code, number of pieces, size, and date of manufacture.
- B. Prior to application, vinyl skirting panel and accessories are to be stored in an area that is clean, dry and out of direct sunlight
- C. Handle material in a manner to prevent damage. Do not allow skirting material to crease.

### 1.06 Warranty

- A. Upon completion provide a written Lifetime, Transferable, Limited Warranty and for Non-Residential a Fifty Year Warranty

## PART 2 – PRODUCTS

### 2.01 Manufacturer

- A. Materials to be supplied by Kaycan Ltd., [www.kaycan.com](http://www.kaycan.com)
- B. Substitutions not permitted.

### 2.02 Materials

- A. Vinyl skirting panels shall conform to the requirements established in ASTM Specification D3679 and ASTM D4477, developed in cooperation with the industry and published by the American Society for Testing and Materials. Manufacturer shall maintain rigorous production quality control standards to assure that Kaycan Vinyl Skirting Panel will perform as expected for its intended use.
- B. **Typical Compound Properties:** Vinyl Skirting Panel is produced from Kaycan's exclusive Duratron formula: a Poly Vinyl Chloride (PVC) compounds meeting the requirements of ASTM D3679, ASTM D4477 and ASTM D4216 with the following manufacturing and product specifications.  
Test Criteria: Typical Properties  
Tensile Strength (ASTM D638): 7000 psi  
Modulus of Elasticity (ASTM D638): 400,000 psi  
Izod Impact @70° F (ASTM D 256): 4.20 lb./in. notch  
Izod Impact @32° F (ASTM D 256): 2.40 lb./in. notch  
Deflection Temperature with 264 psi load (ASTM D648):  
> 70° C
- C. **Fire Resistance Properties:**  
Average Time of Burning (ASTM D635): < 5 sec  
Average Extent of Burning (ASTM D635): < 5 mm  
Flame Spread Classification ULC S102: 21  
Flame Spread Index (ASTM E84): 20  
Smoke Developed Index (ASTM E84): 250  
Fuel Contribution (ASTM E-84): 0  
Smoke Density (ASTM D2843) : <50%  
Ignition Properties (ASTM D1929): Self ignition did not occur. At 824° F sample began to smolder and continued until consumed.

## D. Typical Physical Properties:

Test Criteria: Typical Properties

Warp (ASTM D3679): < 0.125 in

Heat Shrinkage (ASTM D3679) : <1.9%

Impact Resistance (ASTM D4226):

2.36 in/mil (Procedure A, H.25)

Weatherability (ASTM D3679): No surface or structural defects such as peeling, cracking, chipping.

Coefficient of Linear Expansion (ASTM D3679):

$3.00 \times 10^{-5}$  in/in  $^{\circ}$ F /  $5.10 \times 10^{-5}$  cm/cm  $^{\circ}$ C

Gloss (ASTM D3679): plus or minus 5 units

Surface Distortion (ASTM D3679): No distortion at 120  $^{\circ}$ F

## E. Skirting Dimensions and Description: (Select Profile)

**Solid Skirting Panel:** vertical panel; 13", 16" width; 12' length.

Thickness: 0.038 inch. Embossing: Woodgrain

Color: Controlled by optical instrumentation.

**Vented Skirting Panel:** vertical panel; 13", 16" width; 12' length.

Thickness: 0.038 inch. Embossing: Woodgrain.

Free air space: 7.5 in<sup>2</sup>/ ft<sup>2</sup>

Color: Controlled by optical instrumentation.

E. Measure the skirting panels to the proper height, subtracting  $\frac{1}{4}$ " of expansion. Slide panels over the back skirting trim and into the vinyl ground channel, interlocking the panels as you install them.

F. Snap the front skirting trim into place to hold panels securely.

## 3.04 Field Quality Control

A. After installation of skirting panels check entire surface for obvious flaws or defects. Replace and repair any problem areas.

## 3.05 Cleaning

A. After the vinyl skirting has been applied, clean as necessary to remove all fingerprints and soiled areas.

B. Clean and remove all scrap, packaging and unused materials resulting from the installation of vinyl products.

All KAYCAN Vinyl Skirting Panels and accessories are backed by a Lifetime Limited Warranty.

## 2.03 Accessories:

A. Accessories shall be consistent with the shape, size and properties as shown in the drawing and as required for complete installation. Color shall be matched or color coordinated to the skirting panel according the architect's specifications.

Accessories shall be produced from the same compound materials and with comparable properties as the skirting panel.

## 2.04 Fasteners:

A. Galvanized nails or other corrosion-resistant fasteners, as recommended by manufacturer for specific application shall be used to install the skirting panel.

# PART 3 – EXECUTION

## 3.01 Examination

A. Confirm that all critical dimensions are as specified in the drawings.

## 3.02 Preparation

A. Any substrate flaws or defects must be repaired and free from obstructions before the vinyl skirting panel is applied.

## 3.03 Installation

A. Solid sheathing and a weather resistive barrier shall be provided behind the skirting, as required by the applicable code.

B. Install the vinyl ground channel directly under the outside edge of the wall, using galvanized nails. Install the back skirting trim. Nail the trim pieces to the wall using nail slots.

C. Nails shall be long enough to penetrate the nailing base by at least  $\frac{7}{8}$  in. Make sure that nail in the center of the slot and do not hammer tightly.

D. Install in accordance with the Kaycan installation guide.