

DIVISION: 07 00 00 - Thermal and Moisture Protection
Section: 07 46 33 - Plastic Siding

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REPORT SUBJECT:

Kerrafront Cellular PVC Siding

- **Kerrafront Classic (FS-201 and FS-202)**
- **Kerrafront Wood Design (FS-201)**
- **Kerrafront T-Rex (FS-202)**

1.0 SCOPE OF EVALUATION

This research report addresses compliance with the following Codes:

2012 International Building Code (IBC)
2012 International Resident Code (IRC)

2014 Florida Building Code (FBC)
Excluding High Velocity Hurricane Zones

Kerrafront Cellular PVC Siding has been evaluated for the following properties:

- Durability
- Surface Burning
- Wind Load Resistance (Negative Transverse)
- Weather Resistance

2.0 USES

2.1. Kerrafront is a lap cladding intended for use as an exterior siding attached to an approved structural sheathing for building of Type VB construction (IBC) and all construction types permitted under the IRC.

3.0 DESCRIPTION

3.1. Materials and Process – Kerrafront Siding products are co-extruded with a foam polyvinyl chloride (PVC) foam core and a PVC cap. Corner, center joint, joint covers, trim, starter trim and other accessories are manufactured with the same material.

3.2. Profiles – Kerrafront Siding has two profiles, Single board FS-201 and Double board FS-202. The FS-201 has an exposure width of 180 mm (7.1 inches) and a nominal wall thickness of 7 mm (0.28 inches), see Figure 1. The FS-202 has an exposure width of 332 mm (13.1 inches) and a nominal wall thickness of 7 mm (0.28 inches), see Figure 2. FS-201 and FS-202 is produced in lengths of 3760 mm (148 inches).

3.3. Kerrafront Siding is produced in several colors and wood grain texture. The FS-201 is produced in two styles: the Kerrafront Classic and Kerrafront Wood Design. The FS-202 is produced in two styles: the Kerrafront Classic and the Kerrafront T-Rex.

3.3.1. The Kerrafront Classics are produced in the following colors: White, Crème, Beige, Claystone, Olive, Anthracite, Grey, Light Grey and Quartz Grey.

3.3.2. The Kerrafront Wood Design is produced in Wood Design Graphite, Wood Design Silvergrey and Wood design Golden Oak.

3.3.3. The Kerrafront T-Rex is produced in Crème, Beige, Blue and Sand.

4.0 PERFORMANCE CHARACTERISTICS

4.1. Wind load Resistance – Maximum allowable design pressures are shown in Table 1 for the Kerrafront Siding when installed in accordance with this report.

4.1.1. Kerrafront siding products have not been evaluated for resisting positive wind pressures. Siding must be installed over structural wood sheathing designed to resist positive design wind pressure in accordance with the applicable code.



4.1.2. Wind load resistance values are in accordance with ASTM D3679.

Exception: A pressure equalization factor (PEF) was not applied to reduce the required test pressure.

4.2. Materials used have a flame spread index of less than 200 when tested in accordance with ASTM E 84.

5.0 INSTALLATION

Kerrafront Siding must be installed in accordance with the manufacturer's published installation instructions, the applicable code and this Research Report. The manufacturer's published installation instructions and this Research Report must be strictly adhered to, and a copy of the instructions must be available on the jobsite during installation.

5.1. Kerrafront Siding shall be installed over an approved structural wood sheathing; plywood complying with DOC PS1 or Oriented Strand Board (OSB) Exposure 1 sheathing complying with DOC PS2.

5.2. Sheathing must be covered by an approved water-resistive barrier in accordance with IBC Section 1404.2 and IRC Section R703.1.1, and provide a means for draining water that enters the assembly to the exterior.

5.3. Flashing shall be installed in accordance with IBC Section 1405 and IRC Section 703.8

5.4. Protection against condensation shall be provided in accordance with IBC Section 1405.3.

5.5. See Table 1 for FS-201 and FS-202 fastenings. Fasteners shall be spaced at a maximum of 16 inches on center and shall penetrate through the sheathing and into wood studs.

6.0 SUPPORTING EVIDENCE

6.1. Manufacturer's drawings and installation instructions.

6.2. Reports of testing demonstrating compliance with ICC-ES AC227, Acceptance Criteria for Rigid Cellular PVC Nonload-Bearing Exterior Trim, effective June 2012 and ICC-ES AC37 Acceptance Criteria for Vinyl Siding, Approved February 2014.

6.3. Reports of testing in accordance with ASTM D3679-09, Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding for: Extent of Burn, Heat Shrinkage, Impact Resistance, Surface Distortion, Coefficient of Linear Expansion and Wind load Resistance.

6.4. Reports of testing in accordance with ASTM D635-06, Test Method for Rate of Burning and/or Extent and Time of Burning of Self-supporting plastics in a Horizontal Position.

6.5. Reports of testing in accordance with ASTM D1929-96(2001)e01, Test Method for Determining Ignition Properties of Plastics.

6.6. Reports of testing in accordance with ASTM D1761-06, Test Method for Mechanical Fasteners in Wood.

6.7. Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

7.0 CONDITIONS OF USE

The Kerrafront Siding described in this Research Report complies with, or is a suitable alternative to, what is specified in those Codes listed in Sections 1.0 and 2.0 of this report, subject to the following conditions:

7.1. Installation must comply with this Research Report, the manufacturer's published installation instructions and the applicable Code. In the event of a conflict between the manufacturer's instructions and this report, this report governs.

7.2. Wind design pressures determined in accordance with the applicable code shall not exceed the allowable wind design pressures as identified in Table 1 for Kerrafront Siding.

7.3. Kerrafront Siding products are limited to the following construction types:

7.3.1. Nonload-bearing exterior trim on buildings of combustible construction.

7.3.2. Use on building of combustible nonfire-resistance-rated construction: IBC Type V-B (5B)





construction and all construction types permitted under the IRC.

7.4. Compatibility of the supporting construction materials with all fasteners, components and other hardware components is subject to approval by the code official.

7.5. Only those types of fasteners and fastening methods described in this report have been evaluation for the installation of the Kerrafront Siding. Other methods of attachment are outside the scope of this report.

7.6. All products are manufactured in Czerwonak, Poland by Profile VOX in accordance with the manufacturer's approved quality control system with inspections by Intertek (IAS AA-676).

8.0 IDENTIFICATION

The Kerrafront Siding products described in this Research Report are identified by a marking bearing the report holder's name ([Profile VOX]), and the Intertek Code Compliance Research Report mark and number (CCRR-0247).



9.0 CODE COMPLIANCE RESEARCH REPORT USE

9.1. Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

9.2. Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

9.3. Reference to the Intertek website address: whdirectory.intertek.com is recommended to ascertain the current version and status of this report.

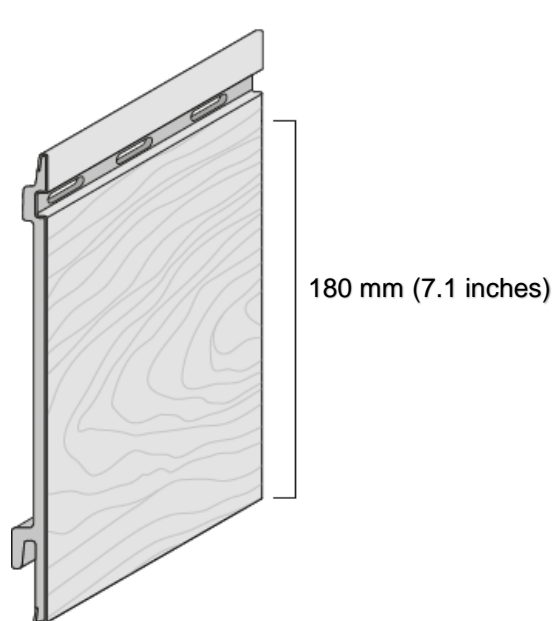
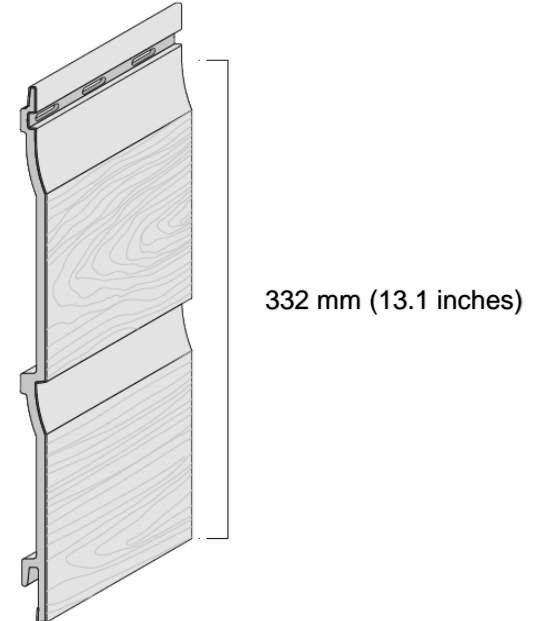
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TABLE 1 – Kerrafront Siding Allowable Design Pressures

| Kerrafront Siding | | Fastener | | Allowable Design Pressure |
|-------------------|---------|--|----------|---------------------------|
| Exposure Width | Profile | Description | Spacing | |
| 7" | FS-201 | 1-1/2" long roofing nail, 1/8" shank dia., 7/16" head dia. | 16" o.c. | 65 psf |
| 7" | FS-201 | Vox 0.14 x 1.38 inches (3.5 x 35 mm) T15 Torx, A2-50 Stainless steel fasteners | 16" o.c. | 52 psf |
| 13" | FS-202 | 1-1/2" long roofing nail, 1/8" shank dia., 7/16" head dia. | 16" o.c. | 28 psf |
| 13" | FS-202 | Vox 0.14 x 1.38 inches (3.5 x 35 mm) T15 Torx, A2-50 Stainless steel fasteners | 16" o.c. | 20 psf |

Note: All fasteners shall penetrate through sheathing and into wood studs.


Figure 1 – Single Board FS-201

Figure 2 – Double Board FS-202