



## Code Compliance Research Report

CCRR-0149

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### Wolfpac Technologies, Inc.

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### 1.0 Subject

*Versatex*<sup>®</sup> Trim Boards (Smooth & Timber Ridge)

*Versatex*<sup>®</sup> Sheets

*Versatex*<sup>®</sup> Bead Boards

*Versatex*<sup>®</sup> Corner Boards

*Versatex*<sup>®</sup> Stealth Trim

### 2.0 Research Scope

#### 2.1 Building Codes:

2009 International Building Code (IBC)

2009 International Residential Code (IRC)

#### 2.2 Properties:

Durability

Surface Burning

Termite Resistance

Corrosion Resistance

Weather Resistance

Structural-negative-transverse wind loads on soffits

### 3.0 Description

3.1 General – *Versatex*<sup>®</sup> trim boards, sheets, bead board, corner boards, and Stealth trim are rigid cellular PVC solid cross sections intended for use as corner boards, window / door surrounds, soffits, fascias, frieze boards, non-load bearing rake boards, door and window trim, skirt boards, door pilasters, column / post wraps, and architectural millwork.

3.2 Materials and Processes – *Versatex*<sup>®</sup> trim boards and sheets are manufactured with expanded poly-vinyl-chloride (cellular PVC) using an extrusion process. Finished products exhibit a small cell micro structure and are produced with a minimum density of 0.55 g/cm<sup>3</sup>.

3.3 Profiles – *Versatex*<sup>®</sup> products are supplied in the following profiles:

3.3.1. *Versatex*<sup>®</sup> trim boards are supplied with either a smooth surface or reversible textured 'Timber Ridge' finish. They are available in nominal widths of 2, 3, 4, 5, 6, 8, 10, 12, and 16 inches; nominal thicknesses of 5/8, 1, 1-1/4, and 1-1/2 inches; and lengths of 18 and 20 feet.

3.3.2. *Versatex*<sup>®</sup> sheets are supplied in four foot widths and with lengths up to twenty feet in thicknesses of 1/4, 3/8, 1/2, 5/8, 3/4, 1 and 1-1/4 inches.

3.3.3. *Versatex*<sup>®</sup> bead boards are supplied in widths of 3-1/2 and 5-1/2 inches and are 1/2 inch thick in 18 foot lengths.

3.3.4. *Versatex*<sup>®</sup> corner boards are supplied in nominal 1-1/4 and 1-1/2 inches thickness and nominal 4, 6, 8 and 10 inches outside corner sizes and in 10 feet, 12 feet, 20 feet, and 22 feet lengths.

### 4.0 Performance Characteristics

4.1 Materials used have a flame spread index of 20 when tested in accordance with ASTM E 84. The referenced criteria, AC227, requires a flame spread index not exceeding 200.

4.2 Materials used are deemed equivalent to preservative treated or naturally durable wood for resistance to weathering effects and attack from termites.

4.3 Materials used are not affected by corrosion due to contact with ACQ-D preservative-treated wood.

4.4 Soffit assemblies consisting of 1 inch x 12 inch boards installed on framing spaced 16 inches on center have a maximum allowable design load of 40 psf for negative (suction) wind pressure when attached to SPF (G=0.42) wood framing or 55 psf when attached to SYP (G=0.55) wood framing. Installation consists of two 8d finish nails (2.5 inch long) installed in each wood framing member spaced 16 inches on center.

### 5.0 Installation

Installation shall be in accordance with the manufacturer's installation instructions and this report. Where differences occur between this report and the manufacturer's installation instructions, this report shall govern.

5.1 Fasteners shall be stainless steel or hot-dipped galvanized steel and designed for wood trim and siding. Fasteners shall have blunt points and full round heads. The fastener must be long enough to penetrate the wood substrate a minimum of 1.5 inches.

5.2 Except as noted in Section 4.4 of this report, the trim boards and sheets shall be installed over solid backing material, including approved exterior sheathing or exterior wall coverings. *Versatex*<sup>®</sup> fascia must be installed over an approved structural sub-fascia.

### **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 January 1, 2005.

6.3 Quality control manual in accordance with ICC-ES AC10, Acceptance Criteria for Quality Documentation, effective March 1, 2009.

### **7.0 Conditions of Use**

The *Versatex*<sup>®</sup> trim applications identified in this report are deemed to comply with the intent of the provisions of the referenced building codes subject to the following conditions:

7.1 *Versatex*<sup>®</sup> trim boards and sheets are limited to nonload-bearing exterior use on Type V-B (5B) construction.

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

7.3 Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of the *Versatex*<sup>®</sup> trim boards and sheets. Other methods of attachment are outside the scope of this report.

7.4 All products are manufactured in Aliquippa, Pennsylvania by Wolfpac Technologies, Inc. in accordance with the manufacturer's approved quality control system with inspections by Architectural Testing (AA-676).

### **8.0 Identification**

*Versatex*<sup>®</sup> trim boards that are produced in accordance with this report shall be identified with labeling on the individual product skids that includes the following information:

8.1 Name and/or trademark of the manufacturer and the manufacturer's address.

8.2 The mark of the independent inspection agency, Architectural Testing (AA-676).

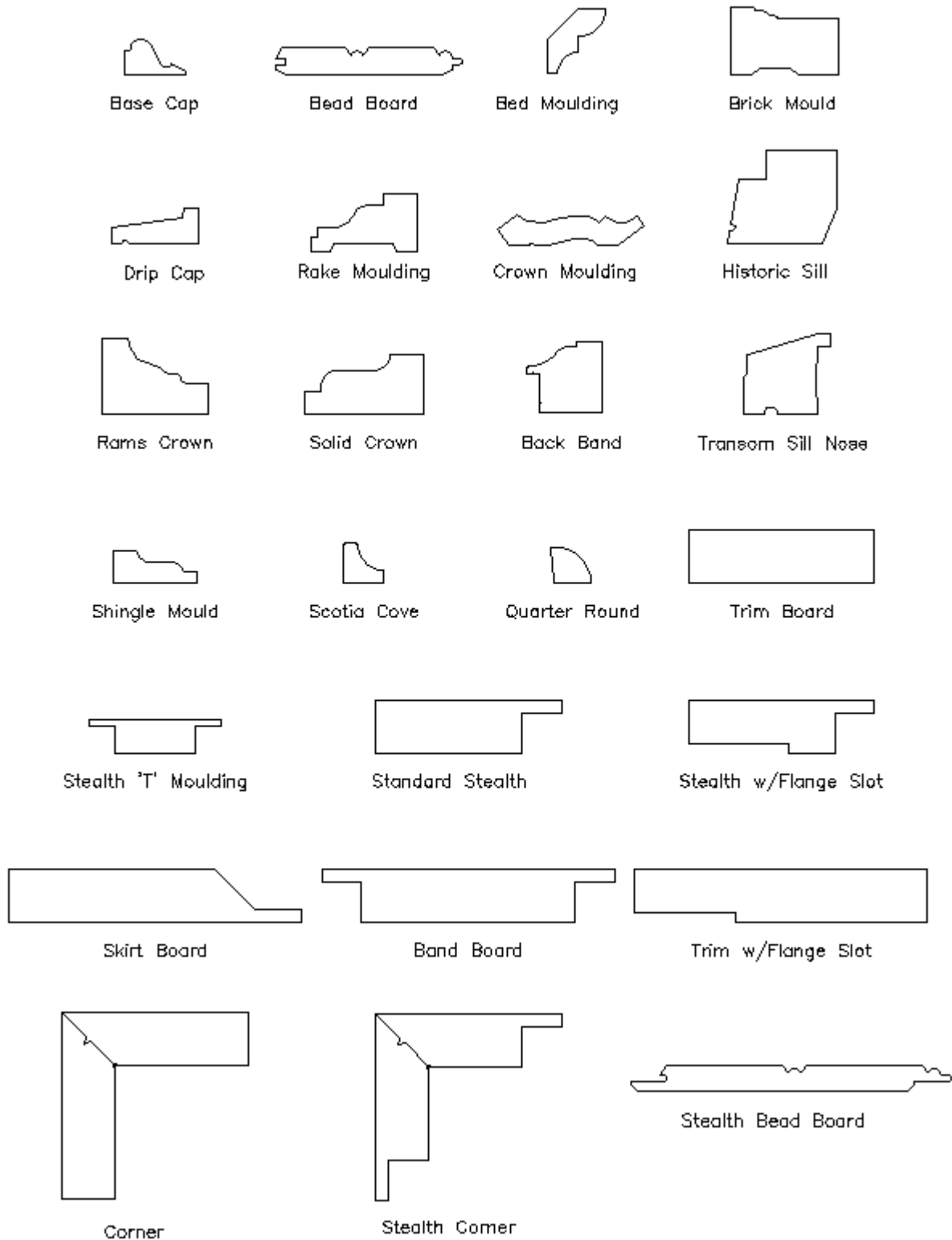
8.3 The Architectural Testing Code Compliance Research Report number (CCRR-0149).

### **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 or manufacturer by Architectural Testing.

9.3 Reference to the Architectural Testing internet web site address at [www.archtest.com](http://www.archtest.com) is recommended to ascertain the current version and status of this report.



**Figure 1 – Versatex® Trim Profiles**