

## Product Evaluation

EC76 | 0419

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

**Evaluation ID:** EC-76

**Effective date:** April 1, 2019

**Re-evaluation date:** April 2023

**Product name:** Polypropylene Exterior Wall Siding

**Manufacturer:** Derby Building Products LLC  
1111 NW 165<sup>th</sup> Street  
Miami, FL 33169  
(786) 284-1989

### General description:

This evaluation report applies to the following polypropylene siding products.

### Horizontal Siding:

Profile	Overall Size	Nominal Panel Thickness
TandoShake™ Rustic Cedar 9	72-7/8" x 11-1/2"	0.090"
TandoShake™ Hand-Split Shake	41-3/8" x 18-1/2"	0.090"
TandoShake™ Rough Sawn Cedar Dual	59-1/8" x 15"	0.090"
TandoShake™ Rough Sawn Cedar Single	90-1/16" x 8-1/2"	0.090"
TandoShake™ R&R 4.5"	43-5/8" x 15-1/2"	0.090"
TandoShake™ Scalloped Perfection	59-1/8" x 15-1/8"	0.090"
TandoStone™ Brick	44-1/4" x 18-3/4"	0.090"
TandoStone™ Hand-Cut Stone or TandoStone™ Craftsman Cut Stone	44-3/16" x 18-5/8"	0.090"

**Horizontal Siding (Continued):**

Profile	Overall Size	Nominal Panel Thickness
TandoStone™ Stacked Stone or NovikStone™ MS	44-1/2" x 19-3/8"	0.090"
TandoStone™ Creek LedgeStone or NovikStone™ CS	45-3/4" x 19-1/4"	0.090"

**Limitations:**

**Design Drawings:** Install the polypropylene siding in accordance with Derby Building Products LLC Polypropylene Siding Installation Anchorage Details; drawing number DERBY1001; sheets 1 thru 11 of 11, dated June 22, 2018; signed and sealed by Robert J. Amoruso, P.E. on January 31, 2019. This product evaluation report references the drawings as the "approved drawings."

**Design Pressure:** The Design Pressure Schedule on sheet 1 of 11 of the approved drawings specifies the allowable design pressures for the polypropylene siding products.

**Installation:**

**General Installation Requirements:** Install the polypropylene siding in accordance with this product evaluation report and the approved drawings. Install the polypropylene siding over wood frame and metal frame wall construction sheathed with wood structural panels or directly over concrete and hollow block wall construction. Refer to the approved drawings for the specific applications to the host structure.

**Fasteners:** The Design Pressure Schedule on sheet 1 of 11 of the approved drawings specifies the type of fasteners and the required fastener spacing. Drive fasteners into the center of the nailing slot without exerting pressure under the anchor head with the exception of the anchors installed into the center of the pre-punched hole on each panel. Refer to the Host Structure Anchor Schedule for minimum edge distance and minimum embedment requirements for the fasteners.

**Wall Sheathing:** Sheath the exterior surface of wood frame and metal frame walls with minimum 15/32" thick wood structural panels. If applying non-structural materials (such as foam or fiberboard) over the wood structural panels, then the length of the fasteners used to secure the polypropylene siding to the framing or wall sheathing must be increased by the thickness of the non-structural material.

**Wall Construction:** The maximum wall stud spacing for wood frame and metal frame walls must not exceed 16" on center. Use minimum Spruce-Pine-Fir dimension lumber for wall studs for wood frame walls. Use minimum 18-gauge steel, minimum  $F_y = 33$  ksi and  $F_u = 45$  ksi for metal frame wall studs. Concrete walls must be minimum 2000 psi. Hollow concrete block walls must be ASTM C90.

**Starter Strips, Corner Posts and J-Channels:** Apply the starter strips with fasteners spaced in accordance with the anchor spacing in the Design Pressure Schedule table. Attach J-Channels to the framing member with a maximum fastener spacing of 8" on center. Corner posts must have a fastener maximum spacing of 8" on center.

**Note:** Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.