



# Product Evaluation

EC07 | 0216

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 must 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-07

**Effective Date:** February 1, 2016

**Re-evaluation Date:** January 2020

**Product Name:** Vinyl Siding

**Manufacturer:** Variform, Inc.  
303 West Major  
P.O. Box 559  
Kearney, Missouri 64060  
Telephone: (816) 903-8293

**Product Description:**

This evaluation applies to the following products:

**Horizontal Siding:**

Variform	
Timber Oak Double 4"	Heritage Cedar Double 7
Timber Oak Double 4" Dutchlap	Heritage Cedar Round Cut
Timber Oak Double 5"	Nottingham
Timber Oak Double 5" Dutchlap	Victoria Harbor Single 6-1/2"
Contractor's Choice Double 4"	Contractor's Choice Double 4-1/2" Dutchlap
Contractor's Choice Double 5"	Contractor's Choice Triple 3"
Heritage Cedar Hand Split	
ClimaForce	Camden Pointe Double 5"
Hampton III Triple 3"	Camden Pointe Double 5" Dutchlap
Ashton Heights	Vortex Extreme
Heritage Cedar Round Cut	

<b>Georgia Pacific</b>	
Board & Batten	Parkside Double 4"
Caliber (insulated)	Parkside Double 5"
Cedar Lane Double 4"	Parkside Double 4-1/2" Dutchlap
Cedar Lane Double 4" Dutchlap	Parkside Double 4" Dutchlap
Cedar Lane Double 5"	Parkside Double 5" Dutchlap
Cedar Lane Double 5" Dutchlap Cedar Spectrum Double 7 Cedar Spectrum Half-Round Cedar Spectrum Half-Split	Parkside Triple 3-1/3"
Compass	Forest Ridge Double 4"
Shadow Ridge Double 4" Dutchlap	Forest Ridge Double 5"
Shadow Ridge Double 5" Dutchlap	Oakside Double 4"
Vision Pro Double 4"	Oakside Double 4" Dutchlap
Vision Pro Double 5"	Oakside Double 4-1/2" Dutchlap
Vision Pro Double 4" Dutchlap	Oakside Double 5" Dutchlap
Vision Pro Double 5" Dutchlap	
Somerset Single 6-1/2"	
Chatham Ridge Triple 3"	

<b>Napco</b>	
American 76 Collection Triple 3"	American Splendor Double 4-1/2" Dutchlap
American 76 Collection 6-1/2" Beaded	American Essence (Insulated)
American 76 Collection Double 4"	American Splendor Double 5"
American Herald Double 4"	Board & Batten
American Herald Double 4" Dutchlap	Double 5" Dutchlap
American Herald Double 5"	American Tradition Double 4"
American Herald Double 5" Dutchlap	American Tradition Double 4-1/2" Dutchlap
American Comfort Double 4-1/2" Dutchlap	American Tradition Double 5"
American Comfort Triple 3"	American Splendor Double 4" Cedar Select Double 7 Cedar Select Half Round Cedar Select Half-Split
American Comfort Double 4"	
American Comfort Double 5"	

<b>Truwell</b>	
Series 4000 4200, 4400, 4800	

**Vertical Siding:**

<b>Variform</b>	<b>Georgia-Pacific</b>
Beaded 7" Vertical/Soffit	Beaded 7" Vertical/Soffit
Double Vertical/Soffit	Double 5" Vertical/Soffit
Classic Weave Triple 4" Vertical/Soffit	Cedar Lane Double 5" Vertical/Soffit
Board and Batten	Triple 4" (Soffit only)
Tri-Vent	Premium Triple (3-1/3)

<b>Truwell</b>	<b>Napco</b>
Series 9500 (D5 Premium)	American Splendor Double 5" Soffit
Series 9200 (D5 Standard)	Double 5" Vertical/Soffit
Series 9100 (Triple 4)	Triple 4" Vertical/ Soffit
	Beaded 7" (Soffit only)
	Triad Plus (Triple 3-1/3)

**General Installation Instructions:**

All fasteners must be corrosion resistant. Fasteners must be driven in the center of the nailing slot, leaving a minimum 1/32" space between the nail head and the vinyl siding. Wall studs must be minimum SPF lumber. The studs must be spaced a maximum of 16" on center.

As a minimum, either the interior or exterior surface of the wall must be sheathed with either structural or non-structural materials. If non-structural materials (such as foam or fiberboard) are used on the exterior side of the wall, then the length of the fasteners used to secure the vinyl siding to the framing must be increased by the thickness of the non-structural material.

Apply the starter strip with fasteners spaced a maximum of 8" on center. The fasteners for the corner posts must be spaced a maximum of 8" on center. Attach the J-channels to the framing members with fasteners spaced a maximum of 10" on center.

**Soffits:** Soffit material may be installed without a listing in this product evaluation report. If the soffit is perforated (the soffit must be perforated along its entire length) or if the overhang is 24" in width or less, then the soffit material may be installed in accordance with the manufacturer's installation instructions. All other soffit installations must be in accordance with a listing in this product evaluation report.

**Installation for Assemblies 1–6, (Horizontal Siding - Fasteners Penetrating into Stud):** The vinyl siding must be fastened to the wall framing with the indicated fasteners spaced a maximum of 16" on center. Panel ends should be staggered from adjacent courses.

**Installation for Assembly 2A, (Horizontal Siding – Fasteners Penetrating into the sheathing and studs):** The studs must be sheathed with nominal 3/8" thick wood structural panels siding (#2 SPF) The studs are to be spaced a maximum of 24" on center. The vinyl siding must be fastened to alternate wall framing and sheathing with the indicated fasteners spaced a maximum of 12" on center.

**Installation for Assembly 3A, (Horizontal Siding – Fasteners Penetrating into the sheathing and studs):**

The studs must be sheathed with nominal 3/8" thick wood structural panels siding (#2 SPF). The studs are to be spaced a maximum of 24" on center. The vinyl siding must be fastened to alternate wall framing and sheathing with the indicated fasteners spaced a maximum of 12" on center.

**Installation for Assembly 7 (Horizontal Siding - Fasteners Penetrating Sheathing):**

The studs must be sheathed with nominal 7/16" thick wood structural panels or solid wood siding (DF-L). The vinyl siding must be fastened to alternate wall framing and sheathing with the indicated fasteners spaced a maximum of 8" on center.

**Installation for Assembly 10 (Vertical/Soffit Siding - Fasteners Penetrating into Sheathing):**

The framing members must be sheathed with nominal 7/16" thick wood structural panels or solid wood siding (DF-L). The vinyl siding must be fastened to the panels or siding with indicated fasteners spaced a maximum of 8" on center.

**Wind Resistant Assemblies****Assembly No. 1**

Horizontal Siding - Fasteners Penetrating into Studs

- Design pressure: -56 psf
- Nominal thickness: 0.044"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The following Variform products are applicable: Victoria Harbor Single 6.5.
- The following Georgia-Pacific products are applicable: Somerset Single 6.5.
- The following Napco products are applicable: Napco American Collection 6-1/2" Beaded.

**Assembly No. 2**

Horizontal Siding - Fasteners Penetrating into Studs

- Design pressure: -67 psf
- Nominal thickness: 0.045"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The following Variform products are applicable: Timber Oak (Double 4, Double 4 Dutchlap); Variform Vortex Extreme (Double 4, Double 5, and Double 4-1/2)
- The following Georgia-Pacific products are applicable: Cedar Lane (Double 4, Double 4 Dutchlap); Wyndham Lane (Double 4; Double 4 Dutchlap)

**Assembly No. 2A**

Horizontal Siding - Fasteners Penetrating into the Sheathing and Studs

- Design pressure: -56 psf
- Nominal thickness: 0.040"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The following Variform products are applicable: Variform Vortex Extreme (Double 4, Double 5, and Double 4-1/2)

**Assembly No. 3**

## Horizontal Siding - Fasteners Penetrating into Studs

- Design pressure: -57 psf
- Nominal thickness: 0.040"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The following Variform products are applicable: Timber Oak (Double 5, Double 5 Dutchlap); Variform Ashton Heights (Double 4, Double 5, Double 4-1/2 Dutchlap); Nottingham (Double 4, Double 4-1/2 Dutchlap); Contractor's Choice (Double 5, Double 4, Double 4-1/2 Dutchlap, Triple 3); Hampton III Triple 3)
- The following Georgia-Pacific products are applicable: Forest Ridge (Double 5, Double 4); Shadow Ridge (Double 5, Double 4 Dutchlap); Chatham Ridge Triple 3; Vision Pro (Double 4, Double 4 Dutchlap, Double 5, Double 5 Dutchlap); Cedar Lane (Double 5, Double 5 Dutchlap); Compass (Double 4, Double 4-1/2 Dutchlap).
- The following Napco products are applicable: American 76 Collection (Double 4, 6-1/2 Beaded, Triple 3); American Herald (Double 5, Double 5 Dutchlap, Double 4, Double 4 Dutchlap); American Comfort (Double 5, Double 4-1/2 Dutchlap, Double 4, Triple 3).
- The following Truwall products are applicable: Truwall Series (4000, 4200, 4400, 4800)

**Assembly No. 3A**

## Horizontal Siding - Fasteners Penetrating into Sheathing and Studs

- Design pressure: -56 psf
- Nominal thickness: 0.040"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The following Variform products are applicable: Variform Ashton Heights (Double 4, Double 5, Double 4-1/2 Dutchlap).

## The following is applicable to Georgia Pacific Products:

- Design Pressure: -102 psf (Cedar Spectrum Double 7)
- Design Pressure: - 37 psf (Cedar Spectrum Half Round)
- Design Pressure: - 65 psf (Cedar Spectrum Hand Split)
- Nominal Thickness: 0.90 (Cedar Spectrum Double 7)
- Nominal Thickness: 0.100 (Cedar Spectrum Half-Round)
- Nominal Thickness: 0.120 (Cedar Spectrum Hand Split)
- Fasteners: 1/8" shank diameter, 3/8" head diameter, length of nail sufficient to provide 1-3/8" penetration in wall studs and full penetration into sheathing

## The following Georgia Pacific products are applicable:

- Cedar Spectrum Double 7
- Cedar Spectrum Half-Round
- Cedar Spectrum Hand Split

## The following is applicable to Napco Products:

- Design Pressure: -102 psf (Cedar Select Double 7)
- Design Pressure: - 37 psf (Cedar Select Half Round)
- Design Pressure: - 65 psf (Cedar Select Hand Split)
- Nominal Thickness: 0.90 (Cedar Select Double 7)
- Nominal Thickness: 0.100 (Cedar Select Half-Round)
- Nominal Thickness: 0.120 (Cedar Select Hand Split)
- Fasteners: 1/8" shank diameter, 3/8" head diameter, length of nail sufficient to provide 1-3/8" penetration in wall studs and full penetration into sheathing

**Assembly No. 3A (continued)**

The following Georgia Pacific products are applicable:

- Cedar Spectrum Double 7
- Cedar Spectrum Half-Round
- Cedar Spectrum Hand Split

The following is applicable to Variform Products:

- Design Pressure: - 65 psf (Heritage Cedar Heritage Cedar Hand Split)
- Nominal Thickness: 0.120 (Heritage Cedar Hand Split)
- Design Pressure: -102 psf (Heritage Cedar Double 7)
- Nominal Thickness: 0.090 (Heritage Cedar Double 7)
- Design Pressure: -37 psf Heritage Cedar Round Cut
- Nominal Thickness: 0.100 (Heritage Cedar Round Cut)
- Fasteners: 1/8" shank diameter, 3/8" head diameter, length of nail sufficient to provide 1-3/8" penetration in wall studs and full penetration into sheathing

The following Variform products are applicable:

- Heritage Cedar Hand Split
- Heritage Cedar Double 7
- Heritage Cedar Round Cut

**Assembly No. 4**

Horizontal Siding - Fasteners Penetrating into Studs

- Design pressure: -68 psf
- Nominal thickness: 0.035"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The Camden Pointe (Double 5, Double 5 Dutchlap, Double 4, Double 4 Dutchlap) Variform products are applicable.

The following Georgia-Pacific products are applicable:

- Oakside (Double 5 Dutchlap, Double 4-1/2 Dutchlap, Double 4, Double 4 Dutchlap)
- Parkside (Double 5, Double 5 Dutchlap, Double 4-1/2 Dutchlap, Double 4, Double 4 Dutchlap, Triple 3-1/3)

The American Tradition (Double 5, Double 4, Double 4-1/2 Dutchlap) Napco products are applicable.

**Assembly No. 5**

Horizontal Siding - Fasteners Penetrating into Studs

- Design pressure: -77 psf
- Nominal thickness: 0.046"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The American Splendor (Double 5, Double 4, Double 4-1/2 Dutchlap) Napco products are applicable.

**Assembly No. 6**

Horizontal Siding - Fasteners Penetrating into Studs

- Design pressure: -41.8 psf
- Nominal thickness: 0.036"
- Fasteners: 16 gage staples (1-1/2" leg x 7/16" crown)
- The Park Ridge (Double 4, Double 4 Dutchlap Double 4-1/2" Dutchlap Double 5, Double 5 Dutchlap) Georgia Pacific products are applicable.

**Assembly No. 7**

## Horizontal Siding - Fasteners Penetrating into Sheathing

- Design pressure: -97 psf
- Nominal thickness: 0.036"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The Park Ridge (Double 4, Double 4 Dutchlap, Double 4-1/2" Dutchlap, Double 5, Double 5 Dutchlap) Georgia Pacific products are acceptable.

**Assembly No. 8**

## Vertical/Soffit Siding - Fasteners Penetrating into Sheathing

- Design pressure: -76 psf
- Nominal thickness: 0.037"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The Beaded 7 Variform products are applicable.
- The Beaded 7 Georgia-Pacific products are applicable.

**Assembly No. 9**

## Vertical/Soffit Siding - Fasteners Penetrating into Sheathing

- Design pressure: -67 psf
- Nominal thickness: 0.040"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The following Variform products are applicable: Double 5 Vertical/Soffit; Classic Weave Triple 4 Soffit; Timber Oak Double 5 Vertical/Soffit, Double 5 Standard (Soffit only)
- The following Georgia-Pacific products are applicable: Double 5 Vertical/Soffit; Cedar Lane Double 5 Vertical/Soffit
- The following Napco products are applicable: Double 5 Vertical/Soffit; American Splendor Double 5 Vertical/Soffit

**Assembly No. 10**

## Vertical/Soffit Siding - Fasteners Penetrating into Sheathing

- Design pressure: -62 psf
- Nominal thickness: 0.038"
- Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)
- The following Variform products are applicable: Classic Weave Triple 4 Soffit; Board and Batten, Tri-Vent.
- The following Napco products are applicable: T4 5 Vertical/Soffit; Triad Plus.
- The following Georgia Pacific products are applicable: Premium Triple 3-1/2.

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