



Product Evaluation

EC10 | 0815

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-10

Effective Date: August 1, 2015

Re-evaluation Date: August 2017

Product Name: Heartland Vinyl Siding and Soffits

Manufacturer: Heartland Siding
301 Industrial Park Rd.
Booneville, Mississippi 38829
Telephone: 662-728-6261

PRODUCT DESCRIPTION:

Horizontal Siding:

- | | |
|---------------------------------|----------------------------------|
| Autumnwood Double 4" | Ultra Double 4" |
| Autumnwood Double 5" | Ultra Double 4" Dutchlap |
| Autumnwood Double 4" Dutchlap | Ultra Double 5" Dutchlap |
| Autumnwood Double 5" Dutchlap | Traditional Single 8" |
| Arbor Glen Double 4.5" | CedarMAX Double 6" |
| Arbor Glen Double 4.5" Dutchlap | CedarMAX Triple 4" Dutchlap |
| Heart-Tech Double 4" | CedarMAX Single 7" |
| Heart-Tech Double 5" | Cedar Peaks Double 4.5" |
| Heart-Tech Double 4" Dutchlap | Cedar Peaks Double 4.5" Dutchlap |
| Heart-Tech Double 5" Dutchlap | Cedar Peaks 6.5" Beaded |

Vertical/Soffit Siding:

Board N Batten Single 7"
 Cedar Peaks 8" Board N Batten
 CedarMAX 8" Board N Batten
 Beaded Soffit/Wain Scot Triple 1-3/4"
 Heart-Tech Soffit Double 6"
 Universal Soffit Triple 4"
 Universal Soffit Double 5"
 Wood Haven Soffit Triple 3-1/3"
 Beaded Soffit/Wain Scot Triple 1-3/4"
 Heart-Tech Soffit Double 6"
 Universal Soffit Triple 4"
 Universal Soffit Double 5"
 Wood Haven Soffit Triple 3-1/3"

Installation:

General: All fasteners shall be corrosion resistant. If non-structural sheathing (foam or fiberboard) is used, then the length of the fasteners used to secure the vinyl siding to the framing shall be increased by the thickness of the non-structural sheathing. Nails shall be driven in the center of the nailing slot, leaving a minimum 1/32" space between the nail head and the vinyl siding.

Apply the starter strip with fasteners spaced a maximum of 8" on center. The inside and outside corner posts, J-channels, and other accessories shall be nailed a maximum of 10" on center, starting at the top. Panel ends should be staggered from adjacent courses.

Horizontal Siding - Fasteners Penetrating into Studs: Wall studs shall be minimum SPF (Spruce—Pine-Fir) or No. 3 grade lumber. Studs shall be spaced a maximum of 16" on center. The vinyl siding shall be fastened to the wall studs with fasteners to allow a minimum of 1-1/2" of penetration into the framing member. Panel ends shall be staggered from adjacent course.

Horizontal Insulated Assemblies Installation- Fasteners Penetrating into Studs: Wall studs shall be minimum SPF (Spruce-Pine-Fir) or No. 3 grade lumber. Studs shall be spaced a maximum of 16" on center. The vinyl siding shall be fastened to the wall studs with fasteners to allow a minimum of 1-1/2" of penetration into the framing member (typically, 2-1/2" long fasteners to allow for insulation thickness). Panel ends shall be staggered from adjacent course.

Vertical Siding - Fasteners Penetrating into Studs: Wall studs shall be minimum SPF (Spruce-Pine-Fir) or No. 3 grade lumber. Studs shall be spaced a maximum of 16" on center. The vinyl siding shall be fastened to the wall studs with fasteners to allow a minimum of 1-1/2" of penetration into the framing member. Panel ends shall be staggered from adjacent course. Horizontal furring strips may be required to ensure attachment to wood member.

Vertical Siding/Soffit - Fasteners Penetrating into Sheathing: Wall studs or framing shall be minimum SPF Stud or No. 3 grade lumber. The studs or framing shall be spaced a maximum of 24" on center. The vinyl siding or soffit shall be installed over minimum 1/2" thick structural sheathing. The vinyl siding or soffit shall be fastened to the sheathing with fasteners spaced a maximum of 12" on center. Panel ends should be staggered from adjacent courses.

Wind Resistant Assemblies:**Horizontal Siding - Fasteners Penetrating into Studs****Assembly No. 1**

Design pressure: -92 psf

Minimum thickness: 0.042 inches (Autumnwood)

Minimum thickness: 0.040 inches (Ultra)

Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)

The following products are applicable: **Autumnwood** (Double 4; Double 4 Dutchlap; Double 5; Double 5 Dutchlap), **Ultra** (Double 4, Double 4 Dutchlap, Double 5 Dutchlap)

Assembly No. 2

Design pressure: -84 psf (Double 4.5)

Design Pressure: -89.6 psf (Single 8")

Minimum thickness: 0.042"

Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)

The following products are applicable: **Arbor Glen** (Double 4.5, Double 4.5 Dutchlap) **Traditional** Single 8".

Assembly No. 3

Design pressure: -128 psf

Minimum thickness: 0.044"

Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)

The following products are applicable: **HeartTech** (Double 4; Double 4 Dutchlap; Double 5; Double 5 Dutchlap).

Assembly No. 4

Design pressure: -113.21 psf

Minimum thickness: 0.046"

Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)

The following products are applicable: **Cedar Peaks** (Double 4.5, Double 4.5 Dutchlap, and 6.5 Beaded).

Horizontal Insulated Assemblies Installation- Fasteners Penetrating into Studs

Assembly No. 5

Design pressure: -144 psf

Minimum thickness: 0.046" (Triple 4" Dutchlap)

Minimum thickness: 0.050" (Double 6")

Minimum thickness: 0.050" (Single 7")

Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)

The following products are applicable: **Cedar Max** (Double 6", Triple 4 Dutchlap, Single 7").

Vertical Siding - Fasteners Penetrating into Studs

Assembly No. 6

Design pressure: -101 psf

Minimum thickness: 0.046"

Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)

The following products are applicable: **Board & Batten Single 7"**, **Cedar Peaks 8" Board N Batten**, **CedarMAX 8" Board N Batten**.

Vertical Siding/Soffit - Fasteners Penetrating into Sheathing

Assembly No. 7

Design pressure: -47 psf

Minimum thickness: 0.040"

Fasteners: 1-1/2" long roofing nails (3/8" diameter head, 1/8" shank diameter)

The following products are applicable: Universal Soffit, Heart-Tech Soffit, Beaded Soffit, Board N Batten, and Wood Haven Soffit.

Note: If the soffit material is perforated or if the overhang is 24" in width or less, then the soffit may be installed in accordance with the manufacturer's installation instructions.

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