



Certificate of Conformance

SPECIFICATIONS:

Generations® Thermal Core Siding

- Polystyrene backing meets or exceeds all the requirements of SPI specifications ASTM C-578-87A (type 1)

LONG TERM THERMAL PERFORMANCE:

The system "R"-Value for Generations® Thermal Core Siding was determined by ASTM C-236 "Guarded Hot Box" method. Generations® Thermal Core Siding products demonstrate no thermal drift with age. "R"-Values vary by profile as follows:

- D/4 2.88
- D/5 Dutchlap 3.53
- D/6 3.57

IMPACT RESISTANCE:

Generations® Thermal Core Siding has been tested for impact resistance in accordance with ASTM D4226, with the following results:

- Standard vinyl siding – Failure at 60 in./lbs.
- Generations® Thermal Core Siding – Failure at 235 in./lbs.

DESIGN WINDLOAD

Generations® Thermal Core Siding has been tested for windload resistance in accordance with ASTM D5206 to the following:

- Static Windload Test Pressure 60 psf
- Design Windload = 215mph*

*The MPH windspeed reported above is calculated using the VSI Windspeed Calculation Guidelines. It is an estimate of windspeed resistance given one uniform set of assumptions. Please note that vinyl siding is a decorative covering that is not intended to provide structural reinforcement to a wall. The wind resistance of a wall system may be less than the maximum wind speed rating for a siding product and will not be increased as a result of installing vinyl siding.

WARRANTY:

- The structural lamination integrity & thermal performance of Generations® Thermal Core Siding is guaranteed for twenty (20) years.
- Vinyl Siding component carries a Lifetime Warranty against manufacturing defects.
- Limited Lifetime Fade Warranty to a color change of 3 standard color units.

FIRE RESISTANCE (for vinyl siding only, not foam)

All Norandex/Reynolds siding, soffit and accessories have a Class 1 flame spread classification per 1997 Uniform Fire Code.

ASTM E84:

Flame Spread Index ≤20
Smoke Developed Index >450
Fuel Contribution 0

ASTM D1929:

Self-Ignition temperature 780°F

RELEVANT CODES AND REGULATIONS COMPLIANCE – on the vinyl siding only (D4 and D5DL)

ASTM D-3679, UBC 14-2, Texas Department of Insurance EC-43,

PHYSICAL DATA:

Polystyrene Thickness (Nominal)

- D/4 – 1-1/8"
- D/5 Dutchlap – 1-1/8"
- D/6 – 1-¼"

Vinyl Siding Thickness

- .044 +/- .001

SAFE TO USE:

Generations® Thermal Core Siding products are environmentally friendly & fully recyclable. They are constructed from inert organic materials and contain no CFC's, HCFC's or Formaldehyde.

THERMAL EXPANSION:

Generations® Thermal Core Siding is very compatible with vinyl siding due to their nearly identical coefficients of expansion & contraction.

Generations® Thermal Core Siding coefficient of thermal expansion is .000035 in./in./degree F. Vinyl siding will range from .000031 to .000036 in./in./degree F.

POLYSTYRENE SPECIFICATIONS:

- Density: Nominal 1.0 pound per cubic foot. (Test method ASTM C-303)
- Flammability: Generations® Thermal Core Siding is fabricated using modified expandable polystyrene, treated with a fire retardant chemical, and will not support combustion. Although "Modified EPS" contains a flame-retardant agent, it is an organic material and should therefore be considered flammable if exposed to an open flame or ignition source.
- Water Permeability: Not less than 5.0 perm/inch maximum (Test method ASTM E-96).
- Polystyrene breathes and is not a vapor barrier.
- Water Absorption: Less than 4.0% by volume. (Test method ASTM C-272)
- Capillarity: None

COLORS:

White, Champagne, Cream, Silver, Tan, Almond, Dune, Linen, Hazel*, Ivy*, Tumbleweed*, Cobblestone*, Saddle*, Granite*, Wedgewood*, Russet*, Firebrick*, Steel Blue*, Evergreen*

*Premium colors featuring Colorhold® capping resins, a UV-Stable acrylic polymer.

ASTM D635 (FOR VINYL SIDING ONLY, NOT FOAM):

Classified CC1**

*Tested Specimens did not burn to 25mm mark. Material was shown to be self-extinguishing. Therefore no average time of burning or average extent of burning can be calculated. For more info, obtain a brochure on the fire properties of siding by contacting the Vinyl Siding Institute at www.vinylsiding.org.

