

## CedarBoards™ Insulated Siding

**General Description:** CedarBoards™ Insulated Vinyl Siding provides the thermal benefit and added strength of rigid foam insulation with the easy maintenance of vinyl. CedarBoards siding is manufactured with TrueTexture™ rough cedar finish molded directly from real cedar boards and is available in a selection of profiles. It is appropriate for use in new construction for single family homes, multi-housing projects and light commercial developments. CedarBoards Insulated Siding is also an ideal product for remodeling.

### Styles:

Profile	Finish	Panel Projection (Nominal)	Vinyl Wall Thickness (Nominal)	Lock Design	Colors	Length	Accessory Pocket
Double 6" Clapboard	Rough Cedar	1-1/4" with foam	.044"	DuraLock™ post-formed positive lock	18	12'6" and 16'8"	1-1/4"
Single 7" Clapboard	Rough Cedar	1-1/4" with foam	.044"	DuraLock™ post-formed positive lock	18	12'6" and 16'8"	1-1/4"
Double 4" Clapboard	Rough Cedar	1-1/4" with foam	.044"	DuraLock™ post-formed positive lock	15	12'6"	1-1/4"
Double 4-1/2" Dutchlap	Rough Cedar	1-1/4" with foam	.044"	DuraLock™ post-formed positive lock	15	12'1"	1-1/4"
Single 12" Vertical Board & Batten	Rough Cedar	1-1/4" with foam	.052"	DuraLock™ post-formed positive lock	12	10'	1-1/4"

**Colors:** CedarBoards Insulated Siding profiles are available in the industry's widest selection of colors. All colors are Spectrophotometer controlled and utilize exclusive PermaColor™ color science.

Colonial White (01)	Sandstone Beige (15)	Cypress (42)	Arbor Blend (57)*
Desert Tan (07)	Savannah Wicker (59)	Granite Gray (34)	Frontier Blend (51)*
Heritage Cream (11)	Snow (31)	Natural Clay (60)	Timber Blend (52)*
Light Maple (55)	Sterling Gray (33)	Oxford Blue (32)	
Sandpiper (13)**	Buckskin (41)**	Suede (14)**	*D6 and S7 only **12 ft horizontal panels only

**STUDfinder™:** The patented STUDfinder Installation System for horizontal siding combines precisely engineered nail slot locations with graphics. Nail slots are positioned 16" on center to allow for alignment with studs. STUDfinder graphics centered at each slot provide a quick and easy guide to help locate studs.

**Lock:** CedarBoards Insulated Siding's exclusive DuraLock™ is a substantially larger lock than is found on competing products, with a rigid teardrop shape and engineered angular locking leg for a positive, snap fit application and exceptional wind resistance.

**Accessories:** CertainTeed manufactures a wide range of siding accessories that are compatible with CedarBoards Insulated Siding styles and colors. Accessory products include installation components, soffit, window and door trim, corner lineals, corner systems, decorative moldings and insulated shims.

**Composition:** CedarBoards Insulated Siding products are produced of components using CertaVin™ custom-formulated PVC resin produced exclusively by CertainTeed, extruded and fused with expanded Polystyrene (EPS) foam insulation.

**Technical Data:** CedarBoards Insulated Siding is in compliance with ASTM specification for Rigid Polyvinyl Chloride (PVC) Siding D 3679, the ASTM specification for Rigid, Cellular Polystyrene Thermal Insulation C 578, and the requirements of sections 1404.9 and 2603 of the International Building Code. CedarBoards Insulated Siding meets or exceeds the properties noted in Table 1.

Table 1

ASTM D 4226	Impact Resistance: 159.2 in./lb.
ASTM D 3679	Surface Distortion: No distortion at 120° F.
ASTM C 303	Polystyrene Density: 1.0 lb./cu. ft.
ASTM C 236	R-Value: Up to 2.7 (R-Values vary slightly depending on profile.) Water Permeability: Not less than 5.0 perm/inch maximum

ASTM E 96	Water Permeability: Not less than 5.0 perm/inch maximum
ASTM C 272	Water Absorption: <2.75% by volume
ASTM E 84	Fire Characteristics: Vinyl Siding Facing Flame Spread Index 20 Smoke Development Index 390 EPS Backing Flame Spread Index 75 Smoke Development Index 450
ASTM D 1929	Self-ignition temperature 813°F
ASTM D 635	Material is self-extinguishing with no measurable extent of burn when tested in accordance with this specification.
NFPA 268	Radiant Heat Test - Ignition Resistance of Exterior Walls - Conclusion that Insulated Siding met the conditions for allowable use as specified in section 1406 of the International Building Code.

**Important Fire Safety Information:** When rigid vinyl siding is exposed to significant heat or flame, the vinyl will soften, sag, melt or burn, and may thereby expose material underneath. Although the expanded polystyrene backing is treated with a fire retardant chemical and will not support combustion, it is an organic material and should therefore be considered flammable if exposed to an open flame or ignition source. Also, care must be exercised when selecting underlayment materials because many underlayment materials are made from organic materials that are combustible. You should ascertain the fire properties of underlayment materials prior to installation. All materials should be installed in accordance with local, state and federal Building Code and fire regulations.

**Sustainability:**

- CedarBoards D6 contains a minimum of 60% post-consumer and post-industrial recycled material.
- Life cycle analysis tools such as BEES show vinyl siding to have a lower environmental impact than a majority of cladding options.
- Installation of Vinyl Siding eliminates the need for paint and caulk, decreasing maintenance and the projects’ environmental impact.
- The majority of raw materials used to manufacture our vinyl products are shipped by rail, decreasing emissions and the need for over-the-road transportation.
- Unlike a majority of cladding choices, Vinyl Siding is recyclable. CertainTeed is leading an initiative to take back post-consumer siding from builders and manufactured housing plants, creating a “cradle to cradle” system that will close the loop on manufacturing our vinyl products.
- The manufacturing process used by vinyl producers is less energy and resource intensive than that used by other cladding choices such as brick and stucco.
- Can increase overall thermal performance, helping to reduce energy costs
- Almost 100% of raw material inputs are used in the manufacturing process of CertainTeed’s Vinyl Siding product lines, practically eliminating landfill waste from manufacturing these products.
- Contributes to earning LEED points:

LEED-H CREDITS (Based on LEED-H January 2008)	Possible Points
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**Materials & Resources**

- Environmentally Preferable Products (credit 2.2/Environmentally Preferable Materials): Use products that are environmentally preferable. 0.5
- Environmentally Preferable Products (credit 2.2/Environmentally Preferable Materials—Local): Use products that are extracted, processed and manufactured within 500 miles of home. (CedarBoards only) 0.5

**Energy & Atmosphere**

- ENERGY STAR Labeled Home (credit 1.2): Exceed requirements of ENERGY STAR for Homes; home must be third-party inspected. (CedarBoards only) 1-34

LEED-NC CREDITS (Based on LEED-NC Version 3)	Possible Points
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**Materials & Resources**

- Minimum Energy Performance (prerequisite 2): Establish a minimum level of building energy performance to exceed ASHRAE/IESNA Standard 90.1-2007 by 10% for new construction or 5% for major renovations to existing REQ

buildings. (CedarBoards only)

Optimize Energy Performance (credit 1): Achieve increasing levels of building energy performance above required minimum performance standards. (CedarBoards only) 1-19

### Energy & Atmosphere

Recycled Content (credit 4): Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of the pre-consumer content constitutes at least 10% or 20% (based on cost) of the total value of the materials in the project. (CedarBoards only) 1-2

Regional Materials (credit 5): Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% or 20% (based on cost) of the total materials value. 1-12

- Contributes to earning NAHB points:

### Resource Efficiency

601.7 No Site Applied Finishing Materials: Building materials or assemblies are utilized that do not require additional site-applied material for finishing. 2-5

602.8 Termite-resistant Materials: Use termite-resistant construction materials appropriate for the level of termite infestation probability as defined by the NAHB National Green Building Standard. 2-6

604.1 Recycled-content Materials: Use recycled-content building materials for two minor and/or two major components of the building with a recycled content of 25% or greater. (CedarBoards only) 2-4

605.3 Construction Materials are Recycled Offsite: Construction materials such as wood, cardboard, metals, drywall, plastic, etc., are recycled offsite. 3

608.1 Locally Available, Indigenous Materials: Use indigenous materials for major elements of the building. 2

609.1 Use LCA to Determine Most Environmentally Preferable Material: A more environmentally preferable product or assembly is selected for an application based on the use of a Life Cycle Assessment (LCA) tool compliant with ISO 14044 or other recognized standards that compare the environmental impact of building materials, assemblies or the whole building. 3

### Energy Efficiency

702.2 Energy Cost Performance: Energy efficiency features are implemented to achieve energy cost performance that exceeds ICC IECC by 15-60%. (CedarBoards only) 30-120

703.1.1 Building Envelope: Total building thermal envelope UA improved by 10-20% over that required by IECC. Insulation must receive a grade 1 rating. (CedarBoards only) 10-36

**Wind Load Testing:** CedarBoards Double 4" siding has been tested per ASTM D 5206 standard test method for resistance to negative wind load pressures of 35 psf, which equates to 118 mph, when installed with nails positioned 16" on center. CedarBoards Double 6" siding has been tested per the same criteria to 33.3 psf or 115 mph. Single 7" siding has been tested to 50 psf or 141 mph, and Board & Batten siding has been tested to 43.3 psf or 131 mph. Check with your local building inspector for wind load requirements in your area on the type of structure you are building.

**Thermal Expansion:** The EPS backing is very compatible with vinyl siding due to their nearly identical coefficients of expansion and contraction. Its coefficient of thermal expansion is 0.000035 in./in./degree F. Vinyl siding will range from 0.000031 to 0.000036 in./in./degree F.

**Documents:** CertainTeed Vinyl Siding meets the requirements of one or more of the following specifications.

Texas Department of Insurance Product Evaluation EC-11

New York City Approval MEA #285-93M, 284-93-M

Conforms to ASTM Specification D4477

ICC-ES Evaluation Report ESR-1066

For specific product evaluation/approval information, call 800-233-8990.

Conforms to UBC Standard 14-2

Conforms to ASTM Specification D3679

Florida BCIS Approval FL1573, FL10421

CCMC #13008-L

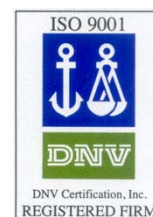
**Installation:** Prior to commencing work, verify governing dimensions of building, examine, clean and repair, if necessary, any adjoining work on which the siding is in any way dependent for its proper installation. Sheathing materials must have an acceptable working surface. Siding, soffit and accessories shall be installed in accordance with the latest editions of CertainTeed installation manuals on siding and soffit. Installation manuals are available from CertainTeed and its distributors.

**Warranty:** CertainTeed supports CedarBoards Insulated Siding products with a Lifetime Limited Warranty including PermaColor Lifetime Fade Protection to the original homeowner. The warranty is transferable if the home is sold.

**Technical Services:** CertainTeed maintains an Architectural Services staff to assist building professionals with questions regarding CertainTeed siding products. Call 800-233-8990 for samples and answers to technical or installation questions.

**Sample Short Form Specification:** Siding as shown on drawings or specified herein shall be CedarBoards Insulated Siding as manufactured by CertainTeed Corporation, Valley Forge, PA.

**Three-part Format Specifications:** Long form specifications in three-part format are available from CertainTeed by calling our Architectural Services Staff at 800-233-8990. These specifications are also available on our website at [certainteed.com](http://certainteed.com).



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