

CertainTeed WeatherBoards™ FiberCement Siding and Trim

FiberCement Siding

General Description: WeatherBoards™FiberCement siding is available in different products providing both traditional and contemporary aesthetics. It is suitable for residential and light commercial applications. These products offer a high degree of dimensional stability and impact resistance.

Styles:

Shapes	Lap	Vertical	Trim
Perfection Shingles	Textured Dutchlap	Stucco	Cedar
Random Square Straight Edge	Textured Beaded Lap	Smooth	
Random Square Staggered Edge	Smooth Beaded Lap	Cedar/no groove	
Half-Rounds	Smooth Lap	Cedar/8" grooved	
Octagons	Cedar Lap		

Finishes: CertainTeed’s exclusive FiberTect® Sealing System ready for field top coating with high quality, acrylic latex paint or stains. Factory prefinishing available with paint or stain. CertainTeed WeatherBoards FiberCement Siding must be allowed to breathe; therefore, it must never be primed, painted or stained on the back side.

Surface Patterns: Smooth, redwood grain, cedar-textured grain, stucco texture, vertical grain

Sizes: Shapes – 8-1/4" x 12' (209mm x 3657mm), 12" x 48" (305mm x 1219mm), 16" x 48" (406mm x 1219mm)
 Lap Siding – 5-1/4" (133mm), 6-1/4" (159mm), 7-1/4" (185mm), 7-1/2" (191mm), 8-1/4" (209mm), 9-1/4" (235mm), 12" (305mm) x 12' (3657mm) length
 Vertical – 4' x 8' (1219mm x 2438mm), 4' x 9' (1219mm x 2743mm), 4' x 10' (1219mm x 3048mm), 4' x 12' (1219 mm x 3657mm)
 Trim – (7/16" thick – 11mm) – 3-1/2" (89mm), 5-1/2" (140mm), 7-1/4" (185mm), 9-1/4" (235mm), 11-1/4" (286mm) x 12' (3657mm) length

Thickness: 5/16" (8mm) on shapes, lap and vertical siding, 7/16" (11mm) on trim

Composition: The products are manufactured using a multi-step high-pressure process combining Portland cement, fly ash, wood fiber and specialty additives. Wood grains and other architectural features are pressed into the surface.

Technical Data: CertainTeed WeatherBoards™FiberCement siding was tested in accordance with the American Society for Testing & Materials (ASTM) standards of the following specifications:

ASTM C1186-02	Standard Specification for Flat Non-Asbestos Fiber Cement Sheets
ASTM C1185-96	Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards
ASTM E72-95	Conducting Strength Tests of Panels for Building Construction
ASTM E84	Surface Burning Characteristics of Building Materials
ASTM E119-95a	Fire Tests of Building Construction and Materials
ASTM E136	Non-Combustible
ASTM E330-96	Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
ASTM G26-95	Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials

Approvals: ICC ESR-1668
Texas Dept. of Insurance Product Evaluation EC-16

Weather and Other Considerations: Product offers resistance to freeze/thaw cycles and is highly dimensionally stable. It is resistant to damaging ultraviolet (UV) rays and salt spray. It is immune to wood-boring insects. Product can resist high wind forces when installed in accordance with CertainTeed application instructions; see instructions for details.

Fire Resistance Characteristics: CertainTeed WeatherBoards™FiberCement siding products have a Class 1 (A) Flame Spread Rating - 0, Smoke developed - 5, per ASTM E84, and is considered Non-Combustible in accordance with ASTM E136.

Installation: Preparatory Work – CertainTeed WeatherBoards™ FiberCement siding products are cut and installed like conventional wood siding. Handle and store product according to CertainTeed recommendations. WeatherBoards™ FiberCement siding may be applied over sheathed walls or directly to studs spaced up to 24" (610mm) o.c. where local codes permit. When applying direct to wood or metal studs, a continuous weather-resistive barrier, not a vapor retarder, must be applied. A vapor barrier, permeability of 1 perm (57.5 ng/(Pa·s·m²) or less, should be used in the wall when required and as described in the ASHRAE design manual. Consult a qualified mechanical engineer or other design professional.

Note: CertainTeed WeatherBoards™ FiberCement siding must be installed with the textured or smooth finished exterior surface facing out.

Methods – Complete installation recommendations are available from the manufacturer. Pneumatic nailing is recommended for attachment to wood framing. Use double hot-dipped galvanized or stainless steel nails. Do not use staples. For steel framing application use corrosion resistant bugle head screws. Vertical joints on Prefinished FiberTect®-Sealed lap siding should be moderately butted. Unfinished or unsealed joints must be gapped 1/8" maximum and caulked. Follow caulk manufacturer's application instructions. Use drip cap flashing above all openings.

Precautions – Avoid breathing dust created by drilling, cutting, sawing, sanding, or otherwise abrading the material. Use with adequate ventilation and a dust collection system; see MSDS for additional dust precautions. Use of plastic foam insulation may call for special installation attention. FiberTect®-Sealed siding must be painted within 24 months of application.

Building Codes – Current data on building code requirements and product compliance may be obtained from CertainTeed. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

Warranty: CertainTeed offers a prorated warranty to the original purchaser and the first transferee for a period of 50 years from the date of purchase. The warranty includes SureStart™ Protection for the original purchaser only for a period of 2 years following the date of installation. Under SureStart, CertainTeed, at no charge, will pay to repair or replace any FiberCement siding proven to be defective during the 2-year SureStart period. CertainTeed warrants that the product will be free from manufacturing defects and will not crack, rot or delaminate and will not suffer damage from termites when stored, installed and maintained according to CertainTeed printed instructions. See warranties for details and limitations.

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.

Green Aspects: CertainTeed FiberCement siding products are made from recycled materials and sustainably harvested wood pulp. These green aspects ensure that these products contribute to the achievement of credits under both LEED and NAHB Green Building Standards.

- A. **Recycled Content:** CertainTeed FiberCement siding products contain a minimum of 30% fly ash, a post-industrial (pre-consumer) recycled material.
- B. **Sustainably Harvested Wood:** Sustainably managed forests ensure that wood is grown, harvested, and processed in accordance with the principles of sustainability. CertainTeed FiberCement siding products are made with a majority of wood fiber that is from sustainably managed forests.
- C. **Use of Fly Ash:** Fly ash is a by-product of coal-fired electric generation facilities. Over 50,000 tons of fly ash is used in the manufacture of CertainTeed FiberCement siding products each year, diverting all of this material from the landfill. Fly ash also improves the strength and durability of these products, while decreasing their weight by 5%.
- D. **Water Recycling:** CertainTeed FiberCement plants use a closed-loop water system, which results in the conservation of over 1.5 billion gallons of water per year.
- E. **Local Manufacturing:** Using products that are produced locally decreases the environmental impacts associated with transportation, including the emission of greenhouse gases. Many of the raw materials used to manufacture CertainTeed FiberCement siding products are sourced from within 500 miles of our plants to reduce transportation impacts. For specific information visit our website or contact your sales representative.
- F. **Durability:** CertainTeed FiberCement siding products have excellent durability characteristics. These products are impervious to wood boring insects, resistant to UV radiation, have a Class 1 (A) Flame Spread Rating, will not rot, and have superior impact resistance. CertainTeed FiberCement siding products also have a 50 year warranty, demonstrating CertainTeed’s confidence in the durability of their product.
- G. **No Additional Finish Required:** ColorMax Products come prefinished from the factory which eliminates the need for painting or staining at the job site. This reduces labor and avoids the emission of VOCs and other chemicals at the jobsite.

Green Building Standards: Green Building Standards, including LEED and NAHB, provide specific criteria for determining whether a building qualifies as green or not. These organizations then certify that the building is green according to their standards. The tables below show the credits that CertainTeed FiberCement siding products can contribute to in both the LEED and NAHB Green Building Standards.

A) LEED-NC (New Construction)

CERTAINTEED FIBERCEMENT SIDING PRODUCT CONTRIBUTIONS TO LEED CREDIT*	POSSIBLE POINTS
Materials & Resources	
Recycled Content 10% (credit 4.1): Use materials with recycled content that constitutes at least 10% (based on cost) of total value of materials in project.	1
Recycled Content 20% (credit 4.2): Use materials with recycled content that constitutes at least 20% (based on cost) of total value of materials in project.	1
Regional Materials 10% (credit 5.1): Use building materials/products that have been extracted, harvested or recovered as well as manufactured within 500 miles of project site for a minimum of 10% (based on cost) of the total materials. Depends on location of project site.	1
Regional Materials 20% (credit 5.2): Use building materials/products that have been extracted, harvested or recovered as well as manufactured within 500 miles of project site for a minimum of 20% (based on cost) of the total materials. Depends on location of project site.	1

*Based on LEED NC Version 2.2

B) LEED-H (Homes)

CERTAINTED FIBERCEMENT SIDING PRODUCT CONTRIBUTIONS TO LEED-H CREDIT*	
Materials & Resources	
Environmentally Preferable Products – Local Materials (credit 2): Use materials that were extracted, manufactured, and processed within 500 miles of the home.	.5

*Based on LEED H 2008

C) NAHB

CERTAINTED FIBERCEMENT SIDING PRODUCT CONTRIBUTIONS TO NAHB*	POSSIBLE POINTS
Resource Efficiency	
No Additional Finish Required 601.7 (2.1.5): Use building materials that do not require additional site applied material for finishing. (ColorMax Only)	2:5
Termite-Resistance 602.8 (2.2.8): Use termite-resistant materials for exterior claddings of walls, floors, concealed roof spaces not accessible for inspection, and exterior decks in geographical areas that have slight to moderate or greater subterranean termite infestation potential.	2:6
Recycled Content 604.1 (2.4.1): Use recycled-content building materials for two minor and/or two major components of the building with a recycled content of 25-75%.	1:2
Resource-Efficient Material 607.1 (2.7.1): Use products that contain fewer resources than traditional products	3
Locally Available 608.1 (2.8.1): Use indigenous materials for major elements of the building.	2

*Based on NAHB Green Building Standards – 12/21/07.

Numbers in () are a cross reference to the NAHB Model Green Home Building Guidelines 2006

CertainTeed Corporation
P.O. Box 860
Valley Forge, PA 19482
www.certainteed.com
© 8/08 CertainTeed Corporation