

CertainTeed

Green Building Products

Superior performance. Environmental consciousness.

buildingresponsibly™

Vol. 5



PARTNER OF THE YEAR



CertainTeed respects the environment through the responsible development of sustainable building products and systems.

Builders, contractors and manufacturers continue to look for ways to reduce our industry's impact on the environment while meeting customer demand for products that deliver beauty, comfort and performance. CertainTeed's commitment to these goals is reflected here, highlighting our ongoing effort to become the preeminent supplier of green building materials.

p⁶⁻¹⁷

SYSTEMS

- LEED for New Construction
- LEED for Schools
- LEED for Homes Advanced Design
- LEED for Homes Standard Design
- NAHB Advanced Design
- NAHB Standard Design

p¹⁸⁻²³

INTERIOR PRODUCTS

- Ceilings
- Gypsum
- Insulation

p²⁴⁻³³

EXTERIOR PRODUCTS

- Fence, Railing and Deck
- FiberCement Siding and Trim
- Foundations
- Polymer Shakes and Shingles,
Vinyl Siding and Trim
- Roofing

p³⁴⁻⁴³

GLOSSARY OF TERMS

As homeowners and municipalities become more environmentally conscious, building professionals are more likely to be asked about adhering to green building standards—whether they be the Leadership in Energy and Environmental Design (LEED) Green Building Rating System™, the National Association of Home Builders (NAHB) National Green Building Standard™, or local codes with environmental components.



The LEED® rating system was developed by the U.S. Green Building Council to provide a national benchmark for the design, construction and operation of high performance sustainable buildings. In order for a building to become LEED certified, it must meet certain prerequisites and achieve specified performance levels to qualify for rating points. CertainTeed is a member of the U.S. Green Building Council and supports the LEED program. This brochure details potential LEED credits that can be earned by CertainTeed products under LEED for Homes (LEED-H); LEED for New Construction (LEED-NC); LEED for Core & Shell (LEED-CS); LEED for Commercial Interiors (LEED-CI); and LEED for Schools.

NAHB collaborated with the International Code Council (ICC) to develop an ANSI standard for green building practices. This standard, known as the National Green Building Standard (NGBS), provides a system for certifying homes as green buildings, awarding points to homes based on the design and material choices made in constructing the home. The NAHB credits listed in this brochure are based on the final version of the standard, approved by ANSI in early 2009.



CertainTeed offers many products that will achieve points toward NAHB's NGBS certification. In addition, many of these products have received the NAHB Research Center Green Approved third-party endorsement, evidence that they meet specific green criteria that facilitate achievement of NGBS credits. Through the program, points are awarded based on a variety of factors that contribute to the sustainability of a product, including recycled content, ISO 14001 plant certification, and the use of durable, termite-resistant materials. Receiving Green Approval for a number of products is another way CertainTeed has validated its commitment to being the industry leader in the development of sustainable building products and the environmentally friendly operation of its manufacturing facilities.



Both LEED and NAHB standards provide verification that a building project meets the high performance standards for green buildings. LEED certification is recognized nationwide as proof that a building is designed to be environmentally responsible and a healthy place to live and work.

CertainTeed Corporation and its parent company, Saint-Gobain, were selected as a 2009 ENERGY STAR® Partner of the Year by the U.S. Environmental Protection Agency (EPA). The award recognizes Saint-Gobain and all of its North American businesses, including CertainTeed, for their accomplishments and leadership in reducing greenhouse gas emissions through energy efficiency. CertainTeed manufacturing facilities were instrumental in achieving these reductions, both through significant reductions in the energy used by manufacturing operations and through the manufacture of products that help make homes and buildings more comfortable and energy efficient.





Comcast Center

LEED® Gold for Core and Shell

Towering over the Philadelphia skyline at 58 stories (975 feet), Comcast Center is a high-performance sustainable building with an abundance of features that will conserve energy and reduce impact on the environment. A number of CertainTeed products are featured throughout the building, including: CertaPro™ AcoustaTherm™ Batt Insulation, SoftTouch™ Duct Wrap Insulation, and Ecophon® Focus™ D and Dg ceiling panels. The Ecophon ceiling panels gave the project a significant green boost; with a LEED recycled content of 73%, they boast the highest such percentage of any ceiling panel available in North America.



Waterfront Technology Center at Camden

LEED® Gold for Core and Shell

CertainTeed CertaPro™ unfaced fiber glass batt insulation provides New Jersey's Waterfront Technology Center at Camden superior thermal protection and energy efficiency as well as acoustic control for improved working conditions within the building. The unfaced light-density batt is designed for steel stud construction and easy friction-fit installation.



Asa Flats + Lofts

This Portland, Oregon development aims for LEED Gold with green building products from CertainTeed Gypsum. ProRoc® Moisture and Mold Resistant with M2Tech® gypsum board and GlasRoc® EGRG sheathing panels were key elements in the sustainable design and construction of this Pacific Northwest project. The environmentally friendly attributes of the CertainTeed products will contribute to earning valuable LEED credits.



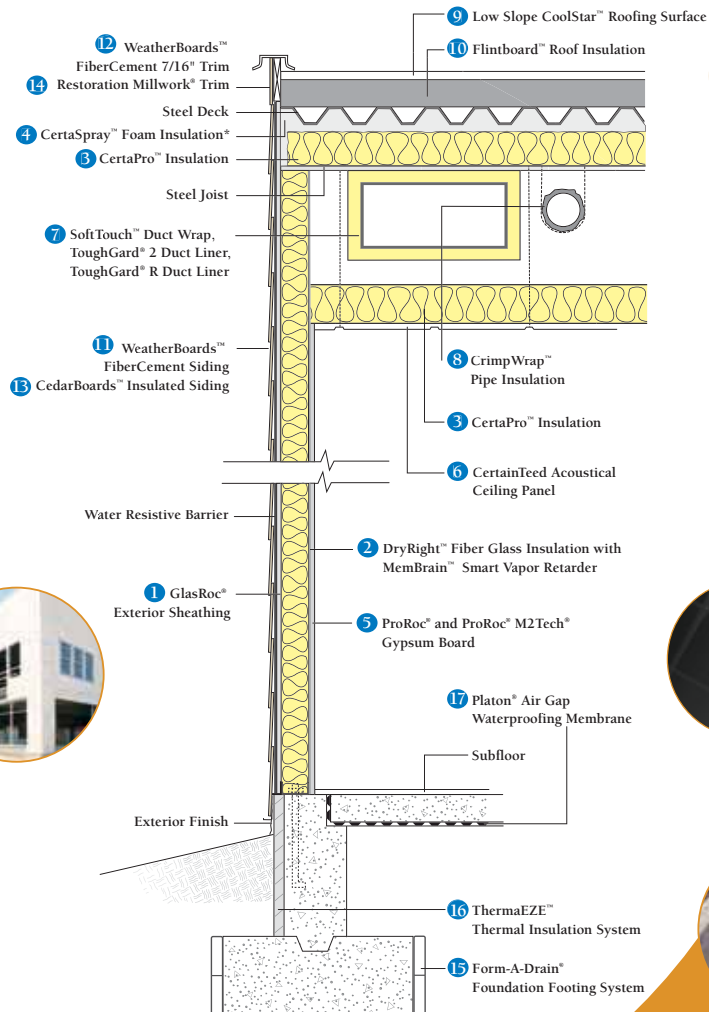
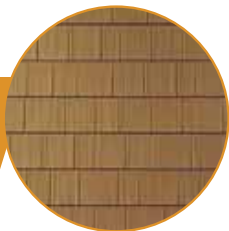
Green Building Products

At-A-Glance

	Percent Recycled Content	Does Not Emit Harmful Chemicals	Third-party Certifications	Manufacturing Plant ISO 14001 Certified (+) or has an Environmental Management System (☑)	Contributes to Energy Efficiency ³ (☑) or is ENERGY STAR Certified (C) or an ENERGY STAR Partner (P)	Reduces Carbon Footprint ⁴	Certified Green Approved Products for NAHB National Green Building Standard Credits	Contributes to Achieving LEED®-H Credits	Contributes to Achieving LEED®-NC, LEED®-CS or LEED® for Schools Credits	Contributes to Achieving LEED®-CI Credits
Form-A-Drain®	92%	☑		☑		☑	☑	☑	☑	
ThermaEZE™		☑			P	☑		☑	☑	
Platon®	81%	☑		☑			☑	☑	☑	
T-Roc™		☑			☑	☑		☑	☑	
WeatherBoards™ FiberCement Siding and Trim	50%	☑	SFI ²	☑			☑	☑	☑	
Cedar Impressions® Polymer Shakes and Shingles, CedarBoards™ Insulated Siding, Vinyl Siding and Trim	60% ⁵	☑	GreenCircle™ ^{5,6}	☑	☑ ⁵	☑ ⁵	☑	☑ ⁵	☑	
Restoration Millwork®		☑					☑	☑	☑	
Insulation—Batts and Blowing Wool	30-40%	☑	GREENGUARD	+	P	☑	☑	☑	☑	☑
CertaSpray™ Spray Foam Insulation		☑			☑	☑		☑	☑	☑
Insulation—HVAC	20-80%	☑	GREENGUARD	+	P	☑	☑	☑	☑	☑
Gypsum—ProRoc®, GlasRoc® and ProRoc® M2Tech®	5-99% ¹	☑		+			☑	☑ ¹	☑	☑
Roofing—Residential	1-89%	☑			☑	☑	☑	☑	☑	☑
Roofing—Low Slope	1-28%	☑			C	☑	☑	☑	☑	☑
Ceilings	0-85%	☑	GreenCircle™ ⁶ , FSC ⁷		☑	☑		☑	☑	☑
Fence	5-10%	☑		☑					☑	
Deck	5-27%	☑		☑					☑	
Panorama® Railing	90%	☑		☑			☑	☑	☑	



- 1 Depends on plant: Products made at Toronto, ON; Moundsville, WV; and Carrollton, KY, plants contain enough recycled content to qualify as EPP for LEED-H.
- 2 Sustainable Forestry Initiative (SFI) certification pending for all pulp in FiberCement products.
- 3 Contributes to Energy Efficiency – This product reduces the energy consumption of the building in which it is installed by reducing the energy needed to light, heat, and/or cool the building.
- 4 Reduces Carbon Footprint – This product reduces the carbon emissions related to the building in which it is installed either because less fossil fuel was used in its production or installation than comparable materials, or because the product reduces the energy used in the operation of the building (i.e., heating, cooling, lighting, etc.).
- 5 CedarBoards™ D6 only.
- 6 GreenCircle™ Certified – Sustainable Solutions Corporation (SSC) provides independent third-party certification of green and sustainable aspects of products and manufacturing operations. SSC utilizes the GreenCircle™ Certification System (GCCS) to provide Independent third-party certification for sustainability claims.
- 7 Forest Stewardship Council (FSC) – Decousters Quadri®r, Solo™ and Solo M™ ceiling panels only.



*Apply thermal or ignition barrier.
Check local code.

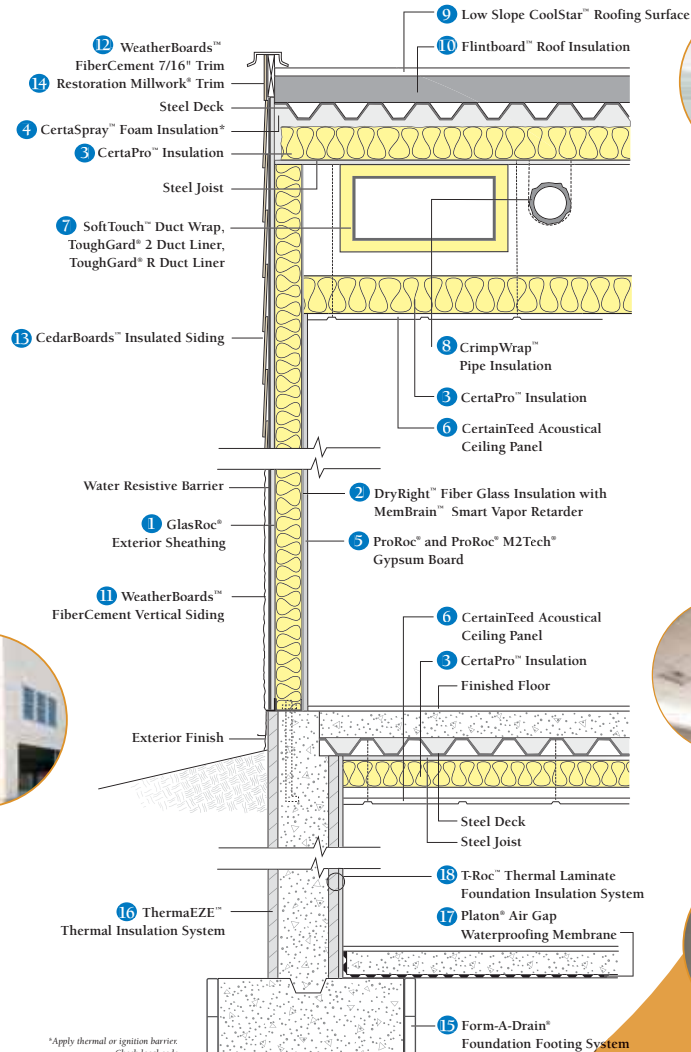
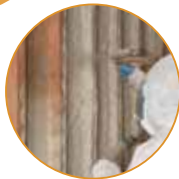
CERTAINTEED PRODUCT CONTRIBUTIONS TO LEED-NC CREDITS

LEED Version 3, 2009

PRODUCT	CREDITS	POINTS
1. GlasRoc® Exterior Sheathing	MR 5. Regional Materials	1–2
2. DryRight™ Insulation with MemBrain™	EA Prerequisite 2. Minimum Energy Performance	Required
3. CertaPro™ Insulation	EA 1. Optimize Energy Performance	1–19
4. CertaSpray™ Foam Insulation	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
	IEQ 7. Thermal Comfort	1
5. ProRoc® and ProRoc® M2Tech® Gypsum Board for Walls	MR 2. Construction Waste Management	1–2
	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
6. CertainTeed Acoustical Ceiling Panel	EA 1. Optimize Energy Performance	1–19
	MR 2. Construction Waste Management	1–2
	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
	MR 6. Rapidly Renewable Materials	1
	IEQ 8.1. Daylight and Views—Daylight	1
7. SoftTouch™ Duct Wrap, ToughGard® 2 Duct Liner, ToughGard® R Duct Liner*	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
	IEQ 7. Thermal Comfort	1
8. CrimpWrap™ Pipe Insulation	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2

* Does not achieve MR 4

PRODUCT	CREDITS	POINTS
9. Low Slope CoolStar™ Roofing Surface	SS 7.2. Heat Island Effect—Roof	1
	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	MR 5. Regional Materials	1–2
	IEQ 7. Thermal Comfort	1
10. FlintBoard™ Roof Insulation	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
	IEQ 7. Thermal Comfort	1
11. WeatherBoards™ FiberCement Siding	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
12. WeatherBoards™ FiberCement 7/16" Trim and Soffit	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
13. CedarBoards™ Insulated Siding	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	MR 4. Recycled Content	1–2
14. Restoration Millwork® Trim	MR 5. Regional Materials	1–2
15. Form-A-Drain® Foundation Footing System	MR 4. Recycled Content	1–2
16. ThermaEZE™ Thermal Insulation System	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	IEQ 7. Thermal Comfort	1
17. Platon® Air Gap Waterproofing Membrane	MR 4. Recycled Content	1–2



*Apply thermal or ignition barriers.
Check local code.

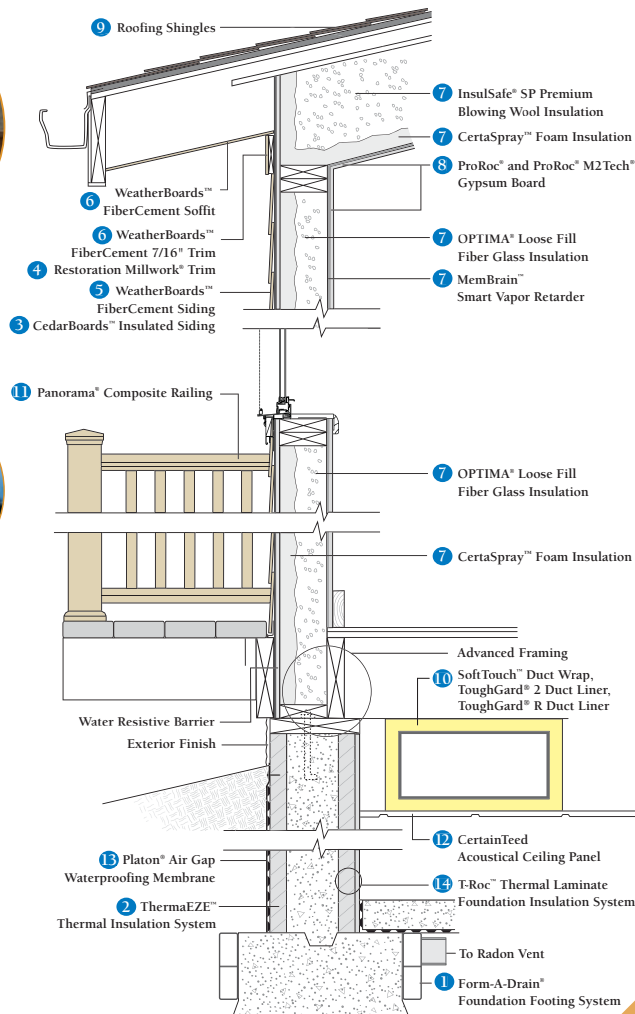
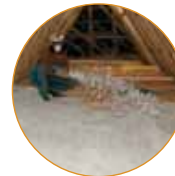
CERTAINTEED PRODUCT CONTRIBUTIONS TO LEED FOR SCHOOLS CREDITS

LEED Version 3, 2009

PRODUCT	CREDITS	POINTS
1. GlasRoc® Exterior Sheathing	MR 5. Regional Materials	1–2
2. DryRight™ Insulation with MemBrain™	EA Prerequisite 2. Minimum Energy Performance	Required
3. CertaPro™ Insulation	EA 1. Optimize Energy Performance	1–19
4. CertaSpray™ Foam Insulation	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
	IEQ 7.1. Thermal Comfort	1
5. ProRoc® and ProRoc® M2Tech® Gypsum Board for Walls	MR 2. Construction Waste Management	1–2
	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
	IEQ 10. Mold Prevention	1
6. CertainTeed Acoustical Ceiling Panel	EA 1. Optimize Energy Performance	1–19
	MR 2. Construction Waste Management	1–2
	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
	MR 6. Rapidly Renewable Materials	1
	IEQ Prerequisite 3. Minimum Acoustical Performance	Required
	IEQ 4.6. Low-Emitting Materials—Ceiling and Wall Systems	1
	IEQ 8.1. Daylight and Views—Daylight	1–3
	IEQ 9. Enhanced Acoustical Performance	1
7. SoftTouch™ Duct Wrap, ToughGard® 2 Duct Liner, ToughGard® R Duct Liner*	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
	IEQ 7.1. Thermal Comfort	1
8. CrimpWrap™ Pipe Insulation	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2

PRODUCT	CREDITS	POINTS
9. Low Slope CoolStar™ Roofing Surface	SS 7.2. Heat Island Effect—Roof	1
	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	MR 5. Regional Materials	1–2
	IEQ 7.1. Thermal Comfort	1
10. FlintBoard™ Roof Insulation	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
	IEQ 7.1. Thermal Comfort	1
11. WeatherBoards™ FiberCement Vertical Siding	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
12. WeatherBoards™ FiberCement 7/16" Trim and Soffit	MR 4. Recycled Content	1–2
	MR 5. Regional Materials	1–2
13. CedarBoards™ Insulated Siding	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	MR 4. Recycled Content	1–2
14. Restoration Millwork® Trim	MR 5. Regional Materials	1–2
15. Form-A-Drain® Foundation Footing System	MR 4. Recycled Content	1–2
16. ThermaEZE™ Thermal Insulation System	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	IEQ 7.1. Thermal Comfort	1
17. Platon® Air Gap Waterproofing Membrane	MR 4. Recycled Content	1–2
18. T-Roc™ Thermal Laminate Foundation Insulation System	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1–19
	IEQ 7.1. Thermal Comfort	1

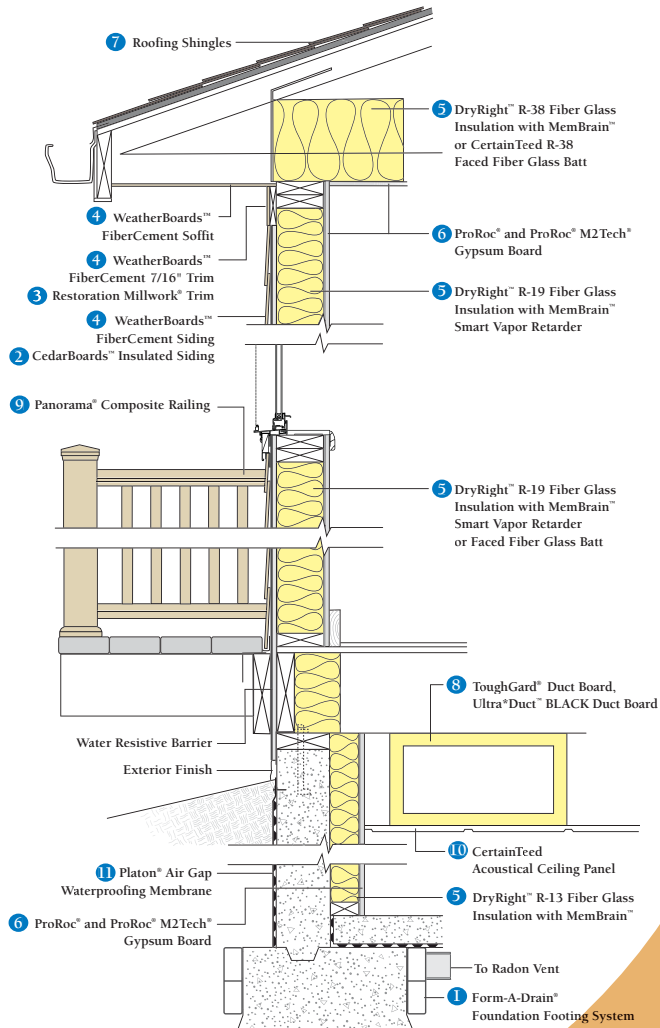
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CERTAINTEED PRODUCT CONTRIBUTIONS TO LEED-H ADVANCED DESIGN CREDITS

LEED-H, 2008

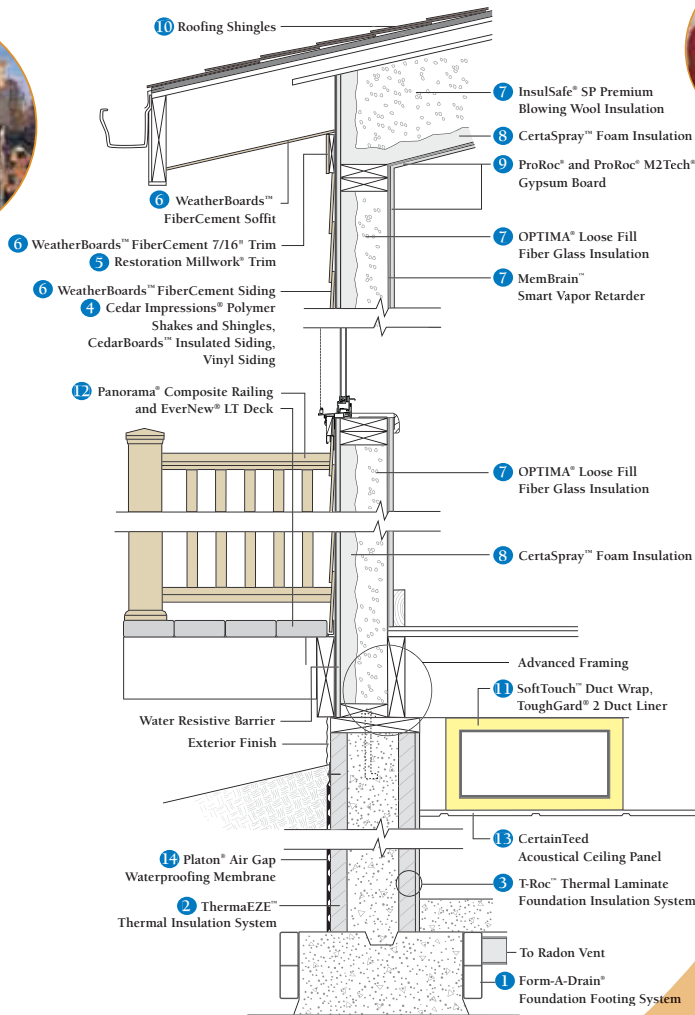
PRODUCT	CREDITS	POINTS	PRODUCT	CREDITS	POINTS
1. Form-A-Drain® Foundation Footing System	ID 2. Durability Management Process IEQ 9. Radon Protection	3 1	8. ProRoc® and ProRoc® M2Tech® Gypsum Board for Walls and Ceilings	MR 2.2. Environmentally Preferable Products—Materials MR 2.2. Environmentally Preferable Products—Local	0.5 0.5
2. ThermaEZE™ Thermal Insulation System	EA 1. Optimize Energy Performance EA 2. Insulation	1–34 2	9. Roofing Shingles	EA 1. Optimize Energy Performance MR 2.2. Environmentally Preferable Products—Local	1–34 0.5
3. CedarBoards™ Insulated Siding	EA 1. Optimize Energy Performance MR 2.2. Environmentally Preferable Products—Materials	1–34 0.5	10. SoftTouch™ Duct Wrap, ToughGard® 2 Duct Liner, ToughGard® R Duct Liner	EA 5. Heating and Cooling Distribution System	2–3
4. Restoration Millwork® Trim	MR 2.2. Environmentally Preferable Products—Local	0.5	11. Panorama® Composite Railing	MR 2.2. Environmentally Preferable Products—Materials	0.5
5. WeatherBoards™ FiberCement Siding	MR 2.2. Environmentally Preferable Products—Materials	0.5	12. CertainTeed Acoustical Ceiling Panel	MR 2.2. Environmentally Preferable Products—Materials MR 2.2. Environmentally Preferable Products—Local MR 3. Construction Waste Management	0.5 0.5 0.5–3
6. WeatherBoards™ FiberCement 7/16" Trim and Soffit	MR 2.2. Environmentally Preferable Products—Local	0.5	13. Platon® Air Gap Waterproofing Membrane	ID 2. Durability Management Process	3
7. CertaSpray™ Foam Insulation, OPTIMA® Loose Fill Fiber Glass Insulation, MemBrain™ Smart Vapor Retarder, InsulSafe® SP Premium Blowing Wool Insulation	ID 2. Durability Management Process EA 1. Optimize Energy Performance EA 2. Insulation MR 2.2. Environmentally Preferable Products—Materials MR 2.2. Environmentally Preferable Products—Local MR 2.2. Environmentally Preferable Products—Emission Specifications	3 1–34 2 0.5 0.5 0.5	14. T-Roc™ Thermal Laminate Foundation Insulation System	EA 1. Optimize Energy Performance EA 2. Insulation	1–34 2



CERTAINTEED PRODUCT CONTRIBUTIONS TO LEED-H STANDARD DESIGN CREDITS

LEED-H, 2008

PRODUCT	CREDITS	POINTS	PRODUCT	CREDITS	POINTS
1. Form-A-Drain® Foundation Footing System	ID 2. Durability Management Process IEQ 9. Radon Protection	3 1	6. ProRoc® and ProRoc® M2Tech® Gypsum Board for Walls and Ceilings	MR 2.2. Environmentally Preferable Products—Materials MR 2.2. Environmentally Preferable Products—Local	0.5 0.5
2. CedarBoards™ Insulated Siding	EA 1. Optimize Energy Performance MR 2.2. Environmentally Preferable Products—Materials	1–34 0.5	7. Roofing Shingles	EA 1. Optimize Energy Performance MR 2.2. Environmentally Preferable Products—Local	1–34 0.5
3. Restoration Millwork® Trim	MR 2.2. Environmentally Preferable Products—Local	0.5	8. ToughGard® Duct Board, Ultra*Duct BLACK Duct Board	EA 5. Heating and Cooling Distribution System	2–3
4. WeatherBoards™ FiberCement Siding, 7/16" Trim and Soffit	MR 2.2. Environmentally Preferable Products—Materials MR 2.2. Environmentally Preferable Products—Local	0.5 0.5	9. Panorama® Composite Railing	MR 2.2. Environmentally Preferable Products—Materials	0.5
5. R-13, R-19 and R-38 DryRight™ with MemBrain™ or R-38 Faced Fiber Glass Batt— Walls and Rim Joist	ID 2. Durability Management Process EA 1. Optimize Energy Performance EA 2. Insulation MR 2.2. Environmentally Preferable Products—Materials MR 2.2. Environmentally Preferable Products—Local MR 2.2. Environmentally Preferable Products—Emission Specifications	3 1–34 2 0.5 0.5 0.5	10. CertainTeed Acoustical Ceiling Panel	MR 2.2. Environmentally Preferable Products—Materials MR 2.2. Environmentally Preferable Products—Local MR 3. Construction Waste Management	0.5 0.5 0.5–3
			11. Platon® Air Gap Waterproofing Membrane	ID 2. Durability Management Process	3



CERTAINTEED PRODUCT CONTRIBUTIONS TO NAHB ADVANCED DESIGN CREDITS

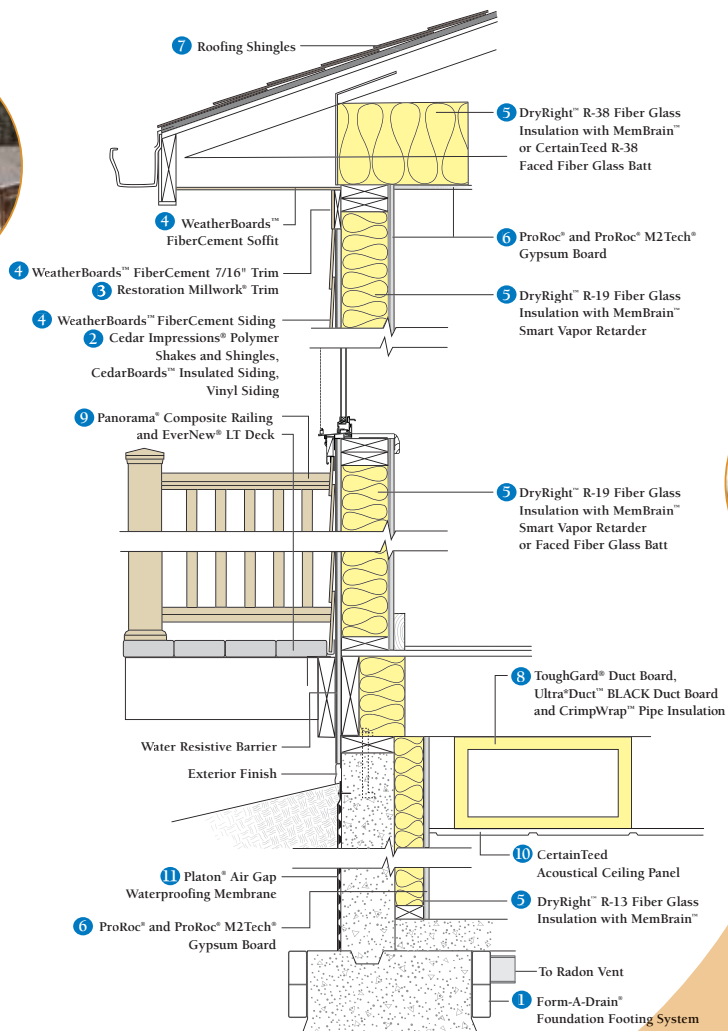
NAHB National Green Building Standard, 2008

PRODUCT	CREDITS	POINTS
1. Form-A-Drain® Foundation Footing System	602.3 Foundation Drainage	4
	604.1 Recycled Content	3
	608.1 Indigenous Materials	2
	902.3 Radon Control	10–15
2. ThermaEZE™ Thermal Insulation System	602.8 Termite-Resistant Materials	2–6
	608.1 Indigenous Materials	2
	702.2 Energy Cost Performance Levels	30–120
3. T-Roc™ Thermal Laminate Foundation Insulation System	703.1 Building Envelope	10–36
	703.2.1 Insulation and Air Sealing	3–15
4. Cedar Impressions® Polymer Shakes and Shingles, CedarBoards™ Insulated Siding, Vinyl Siding	601.7 Site-Applied Finishing Materials	2–5
	602.8 Termite-Resistant Materials	2–6
	604.1 Recycled Content (CedarBoards D6 only)	2–4
	605.3 Recycled Construction Materials	3
	608.1 Indigenous Materials	2
5. Restoration Millwork® Trim	609.1 Life Cycle Analysis	3
	702.2 Energy Cost Performance Levels (CedarBoards only)	30–120
	703.1 Building Envelope (CedarBoards only)	10–36
6. WeatherBoards™ FiberCement Siding, WeatherBoards™ FiberCement 7/16" Trim and Soffit	601.7 Site-Applied Finishing Materials (ColorMax™ Finishing System only)	2–5
	602.8 Termite-Resistant Materials	2–6
	604.1 Recycled Content	1–2
	608.1 Indigenous Materials	2
7. OPTIMA® Loose Fill Fiber Glass Insulation, MemBrain™ Vapor Retarder, InsulSafe® SP Premium Blowing Wool Insulation	604.1 Recycled Content	1–2
	608.1 Indigenous Materials	2
	609.1 Life Cycle Analysis	3
	610.1 Manufacturer's Environmental Management System Concepts	1–10
	702.2 Energy Cost Performance Levels	30–120
	703.1 Building Envelope	10–36
	703.2.1 Insulation and Air Sealing	3–15
	901.11 Insulation	4

PRODUCT	CREDITS	POINTS
8. CertaSpray™ Foam Insulation	608.1 Indigenous Materials	2
	702.2 Energy Cost Performance Levels	30–120
	703.1 Building Envelope	10–36
	703.2.1 Insulation and Air Sealing	3–15
9. ProRoc® and ProRoc® M2Tech® Gypsum Board for Walls and Ceilings	604.1 Recycled Content	2–6
	608.1 Indigenous Materials	2
	609.1 Life Cycle Analysis	3
	610.1 Manufacturer's Environmental Management System Concepts	1–10
10. Roofing Shingles	602.13 Roof Surfaces	3
	608.1 Indigenous Materials	2
	702.2 Energy Cost Performance Levels	30–120
	703.1 Building Envelope	10–36
11. SoftTouch™ Duct Wrap, ToughGard® 2 Duct Liner	604.1 Recycled Content	1
	608.1 Indigenous Materials	2
	610.1 Manufacturer's Environmental Management System Concepts	1–10
	702.2 Energy Cost Performance Levels	30–120
	703.5.4.1 Water Heating Design, Equipment and Installation	1
	901.11 Insulation	1
	903.5.2 Plumbing	2
12. Panorama® Composite Railing and EverNew® LT Deck	903.6 Duct Insulation	2
	601.7 Site-Applied Finishing Materials	2–5
	602.8 Termite-Resistant Materials (Green Approved for railing only)	2–6
	604.1 Recycled Content	1–3
	606.3 Manufacturing Energy	2
13. CertainTeed Acoustical Ceiling Panel	608.1 Indigenous Materials	2
	601.7 Site-Applied Finishing Materials	2–5
	604.1 Recycled Content	1–3
	605.3 Recycled Construction Materials	3
14. Platon® Air Gap Waterproofing Membrane	608.1 Indigenous Materials	2
	602.7 Termite Barrier	4
	602.11 Foundation Waterproofing	4
	604.1 Recycled Content	3
	608.1 Indigenous Materials	2
	903.3.1 Crawlspace	6



Note: Green text indicates product has been Green Approved by the NAHB Research Center to automatically earn points for this particular credit.



CERTAINTEED PRODUCT CONTRIBUTIONS TO NAHB STANDARD DESIGN CREDITS

NAHB National Green Building Standard, 2008

PRODUCT	CREDITS	POINTS
1. Form-A-Drain® Foundation Footing System	602.3 Foundation Drainage 604.1 Recycled Content 608.1 Indigenous Materials 902.3 Radon Control	4 3 2 10–15
2. Cedar Impressions® Polymer Shakes and Shingles, CedarBoards™ Insulated Siding, Vinyl Siding	601.7 Site-Applied Finishing Materials 602.8 Termite-Resistant Materials 604.1 Recycled Content (CedarBoards D6 only) 605.3 Recycled Construction Materials 608.1 Indigenous Materials	2–5 2–6 2–4 3 2
3. Restoration Millwork® Trim	609.1 Life Cycle Analysis 702.2 Energy Cost Performance Levels (CedarBoards only) 703.1 Building Envelope (CedarBoards only)	3 30–120 10–36
4. WeatherBoards™ FiberCement Siding, WeatherBoards™ FiberCement 7/16" Trim and Soffit	601.7 Site-Applied Finishing Materials (ColorMax™ Finishing System only) 602.8 Termite-Resistant Materials 604.1 Recycled Content 608.1 Indigenous Materials	2–5 2–6 1–2 2
5. R-13, R-19 and R-38 DryRight™ with MemBrain™ or R-38 Faced Fiber Glass Batt—Walls and Rim Joist	604.1 Recycled Content 608.1 Indigenous Materials 609.1 Life Cycle Analysis 610.1 Manufacturer's Environmental Management System Concepts 702.2 Energy Cost Performance Levels 703.1 Building Envelope 703.2.1 Insulation and Air Sealing 901.11 Insulation	1–2 2 3 1–10 30–120 10–36 3–15 4

PRODUCT	CREDITS	POINTS
6. ProRoc® and ProRoc® M2Tech® Gypsum Board for Walls and Ceilings	604.1 Recycled Content 608.1 Indigenous Materials 609.1 Life Cycle Analysis 610.1 Manufacturer's Environmental Management System Concepts	2–6 2 3 1–10
7. Roofing Shingles	602.13 Roof Surfaces 608.1 Indigenous Materials 702.2 Energy Cost Performance Levels 703.1 Building Envelope	3 2 30–120 10–36
8. ToughGard® Duct Board, Ultra*Duct™ BLACK Duct Board and CrimpWrap™ Pipe Insulation	604.1 Recycled Content 608.1 Indigenous Materials 610.1 Manufacturer's Environmental Management System Concepts 702.2 Energy Cost Performance Levels 703.5.4.1 Water Heating Design, Equipment and Installation 901.11 Insulation 903.5.2 Plumbing 903.6 Duct Insulation	1 2 1–10 30–120 1 1 2 2
9. Panorama® Composite Railing and EverNew® LT Deck	601.7 Site-Applied Finishing Materials 602.8 Termite-Resistant Materials (Green Approved for railing only) 604.1 Recycled Content 606.3 Manufacturing Energy 608.1 Indigenous Materials	2–5 2–6 1–3 2 2
10. CertainTeed Acoustical Ceiling Panel	601.7 Site-Applied Finishing Materials 604.1 Recycled Content 605.3 Recycled Construction Materials 608.1 Indigenous Materials	2–5 1–3 3 2
11. Platon® Air Gap Waterproofing Membrane	602.7 Termite Barrier 602.11 Foundation Waterproofing 604.1 Recycled Content 608.1 Indigenous Materials 903.3.1 Crawlspace	4 4 3 2 6



Note: Green text indicates product has been Green Approved by the NAHB Research Center to automatically earn points for this particular credit.

Understanding the role of CertainTeed Ceilings in meeting **Green Building Standards**



CertainTeed Ceilings is a leader in promoting sustainable design. We offer a recycling program for the return and recycling of old ceiling panels into new ones. The cost savings from exercising this option instead of sending the panels to landfills provides the added benefit of allowing participants to qualify for valuable points under the LEED rating system for Construction Waste Management.

Our L'Anse, Michigan plant uses 100% renewable electricity from a nearby biomass-fueled power plant for all operations. Waste heat from the biomass plant is utilized in the manufacturing process, which reduces natural gas usage by 25%. In addition, water and manufacturing waste from the L'Anse facility are used to grow crops on nearby land, creating an almost zero waste facility.

green facts:

- > CertainTeed ceilings offer outstanding acoustical performance, which contributes to achieving credit on LEED for Schools projects.
- > Our Ecophon® line of products—with 70% post-consumer recycled content—offers the highest LEED recycled content of any ceiling tile in North America.
- > Most of our products have been third party certified for recycled content.
- > CertainTeed mineral fiber ceiling panels incorporate steel mill slag waste as well as post-consumer waste such as newspaper.
- > More than 90% of manufacturing waste is recycled into ceiling products.
- > Many CertainTeed ceiling products comply with the Collaborative for High Performance Schools (CHPS) standards.
- > Our Ecophon product line is the only fiberglass ceiling panel available in North America that is posted on the CHPS Low Emitting Materials list.
- > Some CertainTeed ceilings products reflect light and work well in architectural designs that promote daylighting; reductions in lighting density made possible by such designs can result in energy savings and greenhouse gas reductions.
- > Decoustics Quadrillo®, Solo™ and Solo M™ ceiling panels have been certified by the Forest Stewardship Council, which helps projects earn points towards LEED and NAHB certification.



CERTAINTEED CEILINGS PRODUCT CONTRIBUTIONS*

NAHB

(Based on NAHB National Green Building Standard, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
601.7	Site-Applied Finishing Materials	2–5
604.1	Recycled Content	1–3
605.3	Recycled Construction Materials	3
608.1	Indigenous Materials	2

LEED-H

(Based on LEED-H, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Materials & Resources		
MR 2.2	Environmentally Preferable Products—Materials	0.5
MR 2.2	Environmentally Preferable Products—Local	0.5
MR 3	Waste Management	0.5–3

LEED-NC, LEED-CS AND LEED FOR SCHOOLS

(Based on LEED Version 3, 2009)

CREDIT	DESCRIPTION	POSSIBLE POINTS		
Energy & Atmosphere				
EA 1	Optimize Energy Performance	NC 1–19	CS 3–21	Schools 1–19
Materials & Resources				
MR 2	Construction Waste Management	1–2	1–2	1–2
MR 4	Recycled Content	1–2	1–2	1–2
MR 5	Regional Materials	1–2	1–2	1–2
MR 6	Rapidly Renewable Materials	1	NA	1
Indoor Environmental Quality				
IEQ Prereq. 3	Minimum Acoustical Performance	NA	NA	Req
IEQ 4.6	Low-Emitting Materials— Ceiling and Wall Systems	NA	NA	1
IEQ 8.1	Daylight and Views—Daylight	1	1	1–3
IEQ 9	Enhanced Acoustical Performance	NA	NA	1

LEED-CI

(Based on LEED-CI Version 3, 2009)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Energy & Atmosphere		
EA 1.1	Optimize Energy Performance—Lighting Power	1–5
Materials & Resources		
MR 2	Construction Waste Management	1–2
MR 4	Recycled Content	1–2
MR 5	Regional Materials	1–2
MR 6	Rapidly Renewable Materials	1
Indoor Environmental Quality		
IEQ 8.1	Daylight and Views—Daylight	1–2

CertainTeed Ecophon® Focus™ Dg ceiling tiles feature 70% post-consumer recycled content.



CERTAINTEED CEILINGS PLANT LOCATIONS:



Ellenton, FL • L'Anse, MI • Plymouth, WI • Toronto, ON

*Visit www.buildingresponsibly.com for more details about which products qualify for these credits and full credit descriptions.

CertainTeed Building Responsibly



Understanding the role of CertainTeed Gypsum in meeting **Green Building Standards**

CertainTeed Gypsum operates its manufacturing facilities with a responsible and environmentally conscious ethic that includes reclamation, preservation of natural resources, recycling and waste management.

All face and back paper used on our gypsum board products is made from 100% post-consumer recycled paper, and multiple CertainTeed Gypsum plants use synthetic gypsum for the primary raw material. When combined with the recycled paper, this yields a total recycled content of up to 99% for ProRoc® gypsum board. Some of our plants have implemented construction waste management programs that incorporate post-consumer gypsum board back into the production process.

Gypsum board product innovation is also carried out with a focus on environmental responsibility; research and development emphasize minimizing environmental impacts to the greatest extent possible.

green facts:

- > Our gypsum board, paperless glass-mat board, finishing compound and joint tape manufacturing locations can provide regional materials coverage throughout North America.
- > ProRoc® Moisture and Mold Resistant Gypsum Board with M2Tech® products are specially formulated for applications where enhanced moisture and mold resistance is preferred. Products are GREENGUARD® Children & Schools Certified.
- > GlasRoc® Sheathing and Tile Backer are paperless, moisture and mold resistant products.
- > Gypsum board and finishing products manufactured at CertainTeed Gypsum plants certified to ISO 14001 have been Green Approved by the NAHB Research Center.
- > CertainTeed Gypsum is committed to resource conservation:
 - The face and back paper used for our gypsum board consists of 100% recycled paper.
 - Synthetic gypsum, derived as a by-product of the scrubbing of flue gases at coal-fired power plants, is used at plants where sources are available.
 - The total recycled content is 99% for CertainTeed Gypsum wallboard products using synthetic gypsum.

CERTAINTEED GYPSUM PRODUCT CONTRIBUTIONS*

NAHB

(Based on NAHB National Green Building Standard, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
604.1	Recycled Content	2–6
608.1	Indigenous Materials	2
609.1	Life Cycle Analysis	3
610.1	Manufacturer's Environmental Management System Concepts	1–10

LEED-H

(Based on LEED-H, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Materials & Resources		
MR 2.2	Environmentally Preferable Products—Materials	0.5
MR 2.2	Environmentally Preferable Products—Local	0.5

LEED-NC, LEED-CS AND LEED FOR SCHOOLS

(Based on LEED Version 3, 2009)

CREDIT	DESCRIPTION	POSSIBLE POINTS		
Materials & Resources				
		NC	CS	Schools
MR 2	Construction Waste Management	1–2	1–2	1–2
MR 4	Recycled Content	1–2	1–2	1–2
MR 5	Regional Materials	1–2	1–2	1–2
Indoor Environmental Quality				
IEQ 4.6	Low Emitting Materials— Ceiling and Wall Systems	NA	NA	1



ProRoc® Gypsum Board with M2Tech® has achieved GREENGUARD® Children & Schools certification.

LEED-CI

(Based on LEED-CI Version 3, 2009)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Materials & Resources		
MR 2	Construction Waste Management	1–2
MR 4	Recycled Content	1–2
MR 5	Regional Materials	1–2

Note: Green text indicates product has been Green Approved by the NAHB Research Center to automatically earn points for this particular credit.

CERTAINTEED GYPSUM PLANT LOCATIONS:



Calgary, AB • Carrollton, KY • Cody, WY • Fort Dodge, IA • Junction City, KS • Kent, WA • Las Vegas, NV • McAdam, NB • Montreal, QC
Moundsville, WV • Napa, CA • Nashville, AR • Oakville, ON • Seattle, WA • Toronto, ON • Vancouver, BC • Winnipeg, MB

*Visit www.buildingresponsibly.com for more details about which products qualify for these credits and full credit descriptions.

CertainTeed Building Responsibly

Understanding the role of CertainTeed Insulation in meeting **Green Building Standards**



CertainTeed insulation products by their very nature improve building energy efficiency and reduce building energy consumption for the life of the structure, conserving nonrenewable energy sources, decreasing dependence on foreign oil and lowering greenhouse gas emissions.



Sand—a naturally inert, abundant and rapidly renewable resource—is the primary raw material used to make fiber glass. In addition, our fiber glass products average 30-40% in the US and 60-70% in Canada for recycled glass content (pre- and post-consumer), well exceeding the EPA Recovered Material Guideline of 20-25% for fiber glass products.

Most CertainTeed insulation is GREENGUARD® Children & Schools Certified, ensuring very low or no emissions of volatile organic compounds (VOCs), including formaldehyde.

green facts:

- > A typical pound of fiber glass insulation saves 12 times as much energy in its first year in place as the energy used to produce it.
- > CertainTeed fiber glass insulation continues to save energy for the life of the building, with no additional maintenance or expense required.
- > CertainTeed Insulation is an ENERGY STAR Insulation Manufacturing Partner.
- > Most CertainTeed insulation is GREENGUARD® Children & Schools Certified.
- > CertainTeed CertaSpray polyurethane spray foam insulation can also provide an effective air seal, which helps to reduce energy loss and improves indoor air quality.
- > All insulation products improve acoustical performance and environmental comfort of buildings.
- > Our fiber glass products average 30-40% in the US and 60-70% in Canada for recycled glass content (pre- and post-consumer).
- > CertainTeed's patented innovations MemBrain™, the smart vapor retarder and air barrier film, and DryRight™ insulation help keep moisture out of wall cavities, reducing the risk of damaging mold growth and helping to maintain better indoor air quality.



CERTAINTEED INSULATION PRODUCT CONTRIBUTIONS*

NAHB

(Based on NAHB National Green Building Standard, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
604.1	Recycled Content	1–2
608.1	Indigenous Materials	2
609.1	Life Cycle Analysis	3
610.1	Manufacturer's Environmental Management System Concepts	1–10
Energy Efficiency		
702.2	Energy Cost Performance Levels	30–120
703.1	Building Envelope	10–36
703.2.1	Insulation and Air Sealing	3–15
703.5.4.1	Water Heating Design, Equipment and Installation	1
Indoor Environmental Quality		
901.11	Insulation	4
903.5.2	Plumbing	2
903.6	Duct Insulation	2

MemBrain™ vapor retarder and air barrier film can be applied over fiber glass batts to reduce the risk of mold growth in wall cavities.

LEED-H

(Based on LEED-H, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Innovation & Design		
ID 2	Durability Management Process	3
Energy & Atmosphere		
EA 1	Optimize Energy Performance	1–34
EA 2	Insulation	2
EA 5	Heating and Cooling Distribution System	2–3
Materials & Resources		
MR 2.2	Environmentally Preferable Products—Materials	0.5
MR 2.2	Environmentally Preferable Products—Local	0.5
MR 2.2	Environmentally Preferable Products—Emission Specifications	0.5



LEED-NC, LEED-CS AND LEED FOR SCHOOLS

(Based on LEED Version 3, 2009)

CREDIT	DESCRIPTION	POSSIBLE POINTS		
Energy & Atmosphere		NC	CS	Schools
EA				
Prereq. 2	Minimum Energy Performance	Req	Req	Req
EA 1	Optimize Energy Performance	1–19	3–21	1–19
Materials & Resources				
MR 4	Recycled Content	1–2	1–2	1–2
MR 5	Regional Materials	1–2	1–2	1–2
Indoor Environmental Quality				
IEQ 7	Thermal Comfort	1	NA	NA
IEQ 7.1	Thermal Comfort	NA	1	1

LEED-CI

(Based on LEED-CI Version 3, 2009)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Energy & Atmosphere		
EA		
Prereq. 2	Minimum Energy Performance	Req
EA 1.3	Optimize Energy Performance—HVAC	5–10
Materials & Resources		
MR 4	Recycled Content	1–2
MR 5	Regional Materials	1–2
Indoor Environmental Quality		
IEQ 7.1	Thermal Comfort	1

Note: Green text indicates product has been Green Approved by the NAHB Research Center to automatically earn points for this particular credit.

CERTAINTEED INSULATION PLANT LOCATIONS:



Athens, GA • Chowchilla, CA • Kansas City, KS • Mountaintop, PA • Ottawa, ON • Redcliff, AB • Sherman, TX

*Visit www.buildingresponsibly.com for more details about which products qualify for these credits and full credit descriptions.

CertainTeed Building Responsibly



Understanding the role of CertainTeed Fence, Railing and Deck in meeting **Green Building Standards**



CertainTeed supports sustainable building and manufacturing practices. CertainTeed offers a comprehensive line of environmentally friendly fence, railing and deck products. CertainTeed fence, railing and deck is 99% recyclable and does not require chemical treatment or painting. Our composite railing is made of 90% recycled material, and our vinyl products contain at least 10% internally recycled material. In addition, CertainTeed fence, railing and deck products feature a long life span and low maintenance, which helps to conserve natural resources.

Beautiful, durable, and virtually maintenance-free, CertainTeed fence, railing and deck systems and accessories come in a wide array of colors, textures and sizes, making it easy to create a look that complements your personality and lifestyle while conserving natural resources.


green facts:

- > Our fence, railing and deck manufacturing facility in Buffalo, New York is built on a brownfield site and uses 100% hydropower.
- > The Buffalo plant uses a closed loop water system that saves more than 372,000,000 gallons of water per year. Water used in the manufacturing process is self-contained and re-used; it is not released into the environment.
- > CertainTeed has a strong recycling program that includes cardboard, paper, oil, metals (i.e., steel and aluminum), plastics and wood.
- > Our Panorama® composite railing is made of 90% recycled material and is an NAHB Research Center Green Approved product.
- > Our vinyl fence, railing and deck products contain at least 10% internally recycled materials.
- > CertainTeed's vinyl fence, railing and deck products feature a minimum 30-year product life and low maintenance.
- > CertainTeed's composite products feature a minimum 25-year product life and low maintenance.
- > None of our fence, railing and deck products require chemical treatment or painting.
- > All CertainTeed fence, railing and deck products are non-porous, and will not develop mold or rot.
- > EverNew® LT deck contains 27% recycled content.



CERTAINTEED FENCE, RAILING AND DECK PRODUCT CONTRIBUTIONS*

NAHB (Based on NAHB National Green Building Standard, 2008)			LEED-H (Based on LEED-H, 2008)			LEED-NC, LEED-CS AND LEED FOR SCHOOLS (Based on LEED Version 3, 2009)					
CREDIT	DESCRIPTION	POSSIBLE POINTS	CREDIT	DESCRIPTION	POSSIBLE POINTS	CREDIT	DESCRIPTION	POSSIBLE POINTS			
Resource Efficiency			Materials & Resources			Materials & Resources			NC	CS	Schools
601.7	Site-Applied Finishing Materials	2–5	MR 2.2	Environmentally Preferable Products—Materials	0.5	MR 4	Recycled Content	1–2	1–2	1–2	
602.8	Termite-Resistant Materials <i>(Green Approved for railing only)</i>	2–6									
604.1	Recycled Content	1–3									
606.3	Manufacturing Energy	2									
608.1	Indigenous Materials	2									



Bufftech® Chesterfield
CertaGrain® fence in Sierra Blend.

Note: Green text indicates product has been Green Approved by the NAHB Research Center to automatically earn points for this particular credit.

CERTAINTEED FENCE, DECK AND RAILING PLANT LOCATION:



Buffalo, NY

*Visit www.buildingresponsibly.com for more details about which products qualify for these credits and full credit descriptions.

Understanding the role of CertainTeed FiberCement Siding, Soffit and 7/16" Trim in meeting **Green Building Standards**



CertainTeed WeatherBoards™ FiberCement siding and trim products are durable, low maintenance and environmentally sustainable. After several years of research and development, CertainTeed introduced the first proprietary formula that now contains 50% fly ash, a pre-consumer recycled material.

The innovative use of fly ash in our formulation not only improves the strength and durability of our products, but also makes them more flexible and easy to install. At the same time, the product has retained its superior paint adherence properties.

CertainTeed offers WeatherBoards™ prefinished with ColorMax® Finish for the look of painted wood, or Premium Stains for the look of natural wood.

green facts:

- > WeatherBoards contains 50% pre-consumer recycled content in the form of fly ash.
- > Boards made with fly ash are lighter than previous formulations, which translates into less energy used to produce and transport.
- > Fly ash is a by-product of electric generation at coal-fired facilities. It has been used as an ingredient in concrete for more than 60 years; U.S. concrete suppliers routinely use fly ash in their concrete mixtures.
- > The fly ash used in CertainTeed's fiber cement products allows the creation of a stable chemical matrix, resulting in optimum product performance. Once fly ash has been incorporated into the fiber cement finished product, it is chemically bonded in the material.
- > CertainTeed is committed to resource conservation:
 - Our manufacturing facilities recycle the water used in our plants, resulting in a savings of more than 1.5 billion gallons per year.
 - The majority of wood fiber pulp used in our fiber cement products is supplied from sustainably managed forests.
 - By using fly ash in our product, over 70,000 tons of this material are diverted from landfills each year. Recycling fly ash also lessens the demand for virgin materials that would require quarrying, and substitutes for materials that may be energy-intensive to create, such as Portland cement.
- > This formulation has ICC Building Code approval (reference report #ESR-1668).



CERTAINTEED FIBERCEMENT SIDING, SOFFIT AND 7/16" TRIM PRODUCT CONTRIBUTIONS*

NAHB

(Based on NAHB National Green Building Standard, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
601.7	Site-Applied Finishing Materials <i>(ColorMax only)</i>	2–5
602.8	Termite-Resistant Materials	2–6
604.1	Recycled Content	1–2
608.1	Indigenous Materials	2

LEED-H

(Based on LEED-H, 2008)

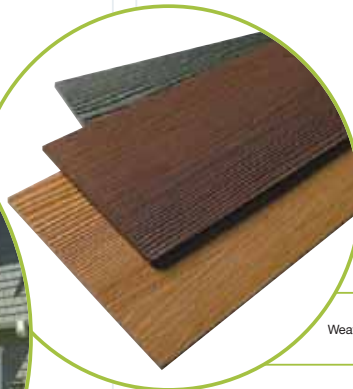
CREDIT	DESCRIPTION	POSSIBLE POINTS
Materials & Resources		
MR 2.2	Environmentally Preferable Products—Materials	0.5
MR 2.2	Environmentally Preferable Products—Local	0.5

LEED-NC, LEED-CS AND LEED FOR SCHOOLS

(Based on LEED Version 3, 2009)

CREDIT	DESCRIPTION	POSSIBLE POINTS		
Materials & Resources				
MR 4	Recycled Content	NC 1–2	CS 1–2	Schools 1–2
MR 5	Regional Materials	1–2	1–2	1–2

WeatherBoards™ Random Square Staggered Edge in ColorMax® Nantucket Gray.



WeatherBoards™ Cedar lap.

Note: Green text indicates product has been Green Approved by the NAHB Research Center to automatically earn points for this particular credit.

CERTAINTEED FIBERCEMENT SIDING PLANT LOCATIONS:



North Wilkesboro, NC • Terre Haute, IN • White City, OR

*Visit www.buildingresponsibly.com for more details about which products qualify for these credits and full credit descriptions.

CertainTeed Building Responsibly

Understanding the role of CertainTeed Foundations in meeting Green Building Standards



Providing superior drainage and protection against basement water infiltration, Form-A-Drain lineals are manufactured from 100% pre- and post-consumer recycled PVC. This commitment to the use of recycled material diverts significant quantities of PVC from landfills and reduces CO₂ emissions that would occur if made from virgin PVC. Form-A-Drain also contributes to the home's overall indoor air quality by facilitating the dissipation of harmful radon gas. CertainTeed offers Platon®, a high-density polyethylene membrane containing up to 85% recycled content and providing superior moisture protection for foundation walls, floors and sub-slabs. Our ThermaEZE and T-Roc products improve overall energy efficiency of poured concrete foundation walls.

When used in combination, CertainTeed's foundation products create a highly efficient insulation and waterproofing system providing energy efficiency, durability and moisture protection.



green facts:

- > CertainTeed is committed to resource conservation. Our manufacturing facility in McPherson, Kansas has a comprehensive recycling program with a goal of zero waste disposed to landfills, and uses a closed loop process to recycle cooling water in the manufacturing process.
- > Indoor environmental quality is enhanced by Form-A-Drain and Platon since these products provide drainage and moisture control in the basement. Form-A-Drain is also an NAHB Research Center Green Approved product for radon control.
- > ThermaEZE and T-Roc concrete foundation insulation contributes to improved overall energy efficiency. ThermaEZE is an ENERGY STAR-rated insulation product.
- > Platon is manufactured with up to 85% recycled high-density polyethylene (HDPE) from milk and other beverage containers.
- > Form-A-Drain lineals are manufactured from 100% pre- and post-consumer PVC. The overall pre- and post-consumer recycled content of Form-A-Drain system components is 92%.
- > CertainTeed diverts millions of pounds/year of PVC from landfills by recycling this material into our product formulation for Form-A-Drain.
- > In addition to landfill waste reduction, the use of recycled PVC in our product reduces the release of CO₂ from the extraction and processing of raw materials that are used to create virgin PVC.
- > The Form-A-Drain product reduces waste generated on the jobsite and saves time and money by eliminating the need to install, remove and dispose of conventional wood footing forms, saving over 17,000 trees annually.

CERTAINTEED FOUNDATIONS PRODUCT CONTRIBUTIONS*

NAHB

(Based on NAHB National Green Building Standard, 2008)

FORM-A-DRAIN

CREDIT	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
602.3	Foundation Drainage	4
604.1	Recycled Content	3
608.1	Indigenous Materials	2
Indoor Environmental Quality		
902.3	Radon Control	10-15

PLATON

CREDIT	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
602.11	Foundation Waterproofing	4
602.7	Termite Barrier	4
604.1	Recycled Content	3
608.1	Indigenous Materials	2
Indoor Environmental Quality		
903.3.1	Crawlspaces	6

ThermaEZE AND T-ROC

CREDIT	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
608.1	Indigenous Materials	2
602.8	Termite-Resistant Materials	2-6
Energy Efficiency		
702.2	Energy Cost Performance Levels	30-120
703.1	Building Envelope	10-36
703.2.1	Insulation and Air Sealing	3-15

LEED-H

(Based on LEED-H, 2008)

FORM-A-DRAIN

CREDIT	DESCRIPTION	POSSIBLE POINTS
Innovation & Design		
ID 2	Durability Management Process	3
Indoor Environmental Quality		
IEQ 9	Radon Control	1

PLATON

CREDIT	DESCRIPTION	POSSIBLE POINTS
Innovation & Design		
ID 2	Durability Management Process	3

ThermaEZE AND T-ROC

CREDIT	DESCRIPTION	POSSIBLE POINTS
Energy & Atmosphere		
EA 1	Optimize Energy Performance	1-34
EA 2	Insulation	2

LEED-NC, LEED-CS AND LEED FOR SCHOOLS

(Based on LEED Version 3, 2009)

FORM-A-DRAIN

CREDIT	DESCRIPTION	POSSIBLE POINTS		
Materials & Resources				
		NC	CS	Schools
MR 4	Recycled Content	1-2	1-2	1-2

PLATON

CREDIT	DESCRIPTION	POSSIBLE POINTS		
Materials & Resources				
		NC	CS	Schools
MR 4	Recycled Content	1-2	1-2	1-2

ThermaEZE AND T-ROC

CREDIT	DESCRIPTION	POSSIBLE POINTS		
Energy & Atmosphere		NC	CS	Schools
EA				
Prereq. 2	Minimum Energy Performance	Req	Req	Req
EA 1	Optimize Energy Performance	1-19	3-21	1-19
Indoor Environmental Quality				
IEQ 7	Thermal Comfort	1	NA	NA
IEQ 7.1	Thermal Comfort	NA	1	1

Note: Green text indicates product has been Green Approved by the NAHB Research Center to automatically earn points for this particular credit.

CERTAINTEED FOUNDATIONS PLANT LOCATION:



McPherson, KS

*Visit www.buildingresponsibly.com for more details about which products qualify for these credits and full credit descriptions.

CertainTeed Building Responsibly

Understanding the role of CertainTeed Polymer Siding, Vinyl Siding and Trim in meeting **Green Building Standards**



Cedar Impressions® Polymer Shake and Shingles, CedarBoards™ insulated siding, vinyl siding and Restoration Millwork® are low maintenance exterior cladding and trim materials. They require no painting or caulking and only occasional washing with soap and water, thus contributing to the sustainability of any project.



CedarBoards™ D6 contains 60% post-consumer and pre-consumer recycled content, thus contributing to credits within USGBC's LEED-H standard and NAHB's National Green Building Standard. Using Cedar Impressions® Polymer Shake and Shingles, CedarBoards™ insulated siding, vinyl siding and Restoration Millwork® offers opportunities for building professionals to increase their projects' sustainability while maximizing possible LEED and NAHB certification points.

green facts:

- > The manufacturing process used by vinyl and polymer producers is less energy and resource intensive than that used by other cladding choices such as brick and stucco.
- > Products such as CertainTeed's CedarBoards™ insulated siding and Triple 3-1/3 soffit can help increase a project's energy efficiency.
- > Almost 100% of raw material inputs are used in the manufacturing process of Cedar Impressions® Polymer Shake and Shingles, CedarBoards™ insulated siding, vinyl siding and Restoration Millwork® product lines, practically eliminating landfill waste from manufacturing these products.
- > CedarBoards™ D6 contains 60% pre- and post-consumer recycled material, and is an NAHB Research Center Green Approved Product.
- > Life cycle analysis tools such as BEES show vinyl siding to have a lower environmental impact than a majority of cladding options.
- > Installation of Cedar Impressions® Polymer Shake and Shingles, CedarBoards™ insulated siding, vinyl siding and Restoration Millwork® eliminates the need for paint and caulk, decreasing maintenance and the projects' environmental impact.
- > The majority of raw materials used to manufacture our vinyl and polymer products are shipped by rail, decreasing emissions and the need for over-the-road transportation.
- > Unlike a majority of cladding choices, Cedar Impressions® Polymer Shake and Shingles, CedarBoards™ insulated siding, vinyl siding and Restoration Millwork® are 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 manufacturing loop.



CERTAINTEED POLYMER SHAKES AND SHINGLES, VINYL SIDING AND TRIM*

NAHB

(Based on NAHB National Green Building Standard, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
601.7	Site-Applied Finishing Materials	2–5
602.8	Termite-Resistant Materials	2–6
604.1	Recycled Content (<i>CedarBoards only</i>)	2–4
605.3	Recycled Construction Materials	3
608.1	Indigenous Materials	2
609.1	Life Cycle Analysis	3
Energy Efficiency		
702.2	Energy Cost Performance Levels (<i>CedarBoards only</i>)	30–120
703.1	Building Envelope (<i>CedarBoards only</i>)	10–36

LEED-H

(Based on LEED-H, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Energy & Atmosphere		
EA 1	Optimize Energy Performance (<i>CedarBoards D6 only</i>)	1–34
Materials & Resources		
MR 2.2	Environmentally Preferable Products—Materials (<i>CedarBoards D6 only</i>)	0.5
MR 2.2	Environmentally Preferable Products—Local (<i>Restoration Millwork only</i>)	0.5

LEED-NC, LEED-CS AND LEED FOR SCHOOLS

(Based on LEED Version 3, 2009)

CREDIT	DESCRIPTION	POSSIBLE POINTS		
Energy & Atmosphere		NC	CS	Schools
EA Prereq. 2	Minimum Energy Performance (<i>CedarBoards only</i>)	Req	Req	Req
EA 1	Optimize Energy Performance (<i>CedarBoards only</i>)	1–19	3–21	1–19
Materials & Resources				
MR 4	Recycled Content (<i>CedarBoards D6 only</i>)	1–2	1–2	1–2
MR 5	Regional Materials (<i>Restoration Millwork only</i>)	1–2	1–2	1–2

CedarBoards™ D6 insulated siding.

Cedar Impressions Double 9" Staggered Rough-Split Shakes and CedarBoards Single 7" Clapboard in Suede.



Note: Green text indicates product has been Green Approved by the NAHB Research Center to automatically earn points for this particular credit.

CERTAINTEED POLYMER SHAKES AND SHINGLES, VINYL SIDING AND TRIM PLANT LOCATIONS:



Hagerstown, MD • Jackson, MI • McPherson, KS • Social Circle, GA

*Visit www.buildingresponsibly.com for more details about which products qualify for these credits and full credit descriptions.

CertainTeed Building Responsibly

Understanding the role of CertainTeed Roofing in meeting Green Building Standards

Pre- and post-consumer recycled content accounts for a significant percentage of the materials used to manufacture many CertainTeed roofing products. This content includes slag, stone granules, corrugated mixed paper and sludge, and not only reduces landfill waste, but also cuts down on the release of greenhouse gases that would occur if virgin materials were processed to manufacture these products.



Another aspect of CertainTeed Roofing's commitment to the environment can be seen in the amount of manufacturing waste provided to companies outside CertainTeed—for example, asphalt-coated waste from shingle production is recycled and used in road construction. Recycled content is also integrated into much of our product packaging material.

green facts:

- > CertainTeed is committed to resource conservation. Our roofing manufacturing facilities recycle close to 90% of production waste into asphalt materials used for road construction. We also integrate recycled content into packaging materials like corrugated rolls and kraft paper.
- > CertainTeed produces low and steep slope roofing products that help reduce energy costs and overall CO₂ emissions. Our CoolStar™ low slope systems and Symphony™ Slate Series, Landmark Solaris™, CT20, XT™25 and XT™30 (Star White) shingles for steep slopes are ENERGY STAR rated and Cool Roof Rating Council certified. Selected Landmark shingles are also ENERGY STAR rated. These products help lower cooling costs by reflecting the sun's rays away from the roof, reducing rooftop and attic temperatures.
- > Many CertainTeed roofing products are manufactured with pre- and post-consumer recycled content including slag, stone granules, corrugated mixed paper and sludge. The overall pre- and post-consumer recycled content of our roofing products is between 1-89%. Integrating these materials into our products reduces landfill waste and carbon emissions.
- > CertainTeed diverts over 250,000 tons/year of slag, stone granules, corrugated mixed paper and sludge from landfills by recycling this material into our products.
- > In addition to landfill waste reduction, the use of recycled materials in our products reduces the release of CO₂ that would result from the extraction and processing of virgin raw materials.



CERTAINTEED ROOFING PRODUCT CONTRIBUTIONS*

NAHB

(Based on NAHB National Green Building Standard, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
602.13	Roof Surfaces	3
604.1	Recycled Content	2-4
608.1	Indigenous Materials	2
Energy Efficiency		
702.2	Energy Cost Performance Levels	30-120
703.1	Building Envelope	10-36

Landmark Solaris™ solar reflective shingles.



LEED-H

(Based on LEED-H, 2008)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Energy & Atmosphere		
EA 1	Optimize Energy Performance	1-34
Materials & Resources		
MR 2.2	Environmentally Preferable Products—Local	0.5



Symphony™ Slate Series.

LEED-NC, LEED-CS AND LEED FOR SCHOOLS

(Based on LEED Version 3, 2009)

CREDIT	DESCRIPTION	POSSIBLE POINTS		
Sustainable Sites				
SS 7.2	Heat Island Effect—Roof	NC 1	CS 1	Schools 1
Energy & Atmosphere				
EA Prereq. 2	Minimum Energy Performance	Req	Req	Req
EA 1	Optimize Energy Performance	1–19	3–21	1–19
Materials & Resources				
MR 5	Regional Materials	1–2	1–2	1–2
Indoor Environmental Quality				
IEQ 7	Thermal Comfort	1	NA	NA
IEQ 7.1	Thermal Comfort	NA	1	1

LEED-CI

(Based on LEED Version 3, 2009)

CREDIT	DESCRIPTION	POSSIBLE POINTS
Sustainable Sites		
SS 1		
Opt 2	Heat Island Effect—Roof	1

Note: Green text indicates product has been Green Approved by the NAHB Research Center to automatically earn points for this particular credit.

CERTAINTEED ROOFING PLANT LOCATIONS:



Avery, OH • Fremont, CA • Gads Hill, MO • Glenwood, AR • Little Rock, AR • Norwood, MA • Oxford, NC • Peachtree City, GA
Portland, OR • Shakopee, MN • Shreveport, LA • Wilmington, CA

*Visit www.buildingresponsibly.com for more details about which products qualify for these credits and full credit descriptions.

CertainTeed Building Responsibly



This glossary includes credit numbers, descriptions, explanations of the descriptions and CertainTeed products that qualify for the credits under the NAHB and LEED rating systems. This is not a comprehensive list of all credits available under these systems, only those that apply to CertainTeed products. This brochure does not cover the new Regional Priority Credits (RPCs) available in LEED Version 3 New Construction, Core & Shell, Schools and Commercial Interiors categories.

LEED-NC, LEED-CS and LEED for Schools Credit Descriptions

LEED Version 3, 2009

CREDIT	CREDIT DESCRIPTION	PRODUCTS INCLUDED*
Sustainable Sites		
SS 7.2 Heat Island Effect—Roof	Use roofing materials on at least 75% of the roof area that have a Solar Reflectance Index (SRI) of at least 78 for a roof with a slope less than or equal to 2:12 (low-sloped) or an SRI of 29 for a roof with a slope greater than 2:12 (steep-sloped).	Low Slope CoolStar Roofing Surface
Energy & Atmosphere		
EA Prerequisite 2 Minimum Energy Performance	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 buildings.	DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Spray Foam Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner, CrimpWrap Pipe Insulation, Low Slope CoolStar Roofing Surface, FlintBoard Insulation, CedarBoards Insulated Siding, Vinyl Siding, Polymer Siding (CedarBoards only), ThermaEZE Thermal Insulation System
EA 1 Optimize Energy Performance	Achieve increasing levels of building energy performance above required minimum performance standards.	DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Spray Foam Insulation, CertainTeed Acoustical Ceiling Panel, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner, CrimpWrap Pipe Insulation, Low Slope CoolStar Roofing Surface, FlintBoard Insulation, CedarBoards Insulated Siding, Vinyl Siding, Polymer Siding (CedarBoards only), ThermaEZE Thermal Insulation System
Materials & Resources		
MR 2 Construction Waste Management	Recycle and/or salvage at least 50% or 75% of nonhazardous construction and demolition debris.	ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings, CertainTeed Acoustical Ceiling Panel
MR 4 Recycled Content	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.	DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Spray Foam Insulation, ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings, CertainTeed Acoustical Ceiling Panel, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner, CrimpWrap Pipe Insulation, FlintBoard Insulation, FiberCement 7/16" Trim and Soffit, CedarBoards Insulated Siding, Vinyl Siding, Polymer Siding, Form-A-Drain Foundation Footing System, Platon Air Gap Waterproofing Membrane, Panorama Composite Railing, EverNew LT Deck
MR 5 Regional Materials	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) or the total materials value.	GlasRoc Sheathing, DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Spray Foam Insulation, ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings, CertainTeed Acoustical Ceiling Panel, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner, CrimpWrap Pipe Insulation, Low Slope CoolStar Roofing Surface, FlintBoard Insulation, FiberCement 7/16" Trim and Soffit, Restoration Millwork Trim



LEED-NC, LEED-CS and LEED for Schools Credit Descriptions

LEED Version 3 2009

CREDIT	CREDIT DESCRIPTION	PRODUCTS INCLUDED*
Materials & Resources		
MR 6 Rapidly Renewable Materials	Use rapidly renewable building materials and products for 2.5% of the total value of all building materials and products used in the project (based on cost).	CertainTeed Acoustical Ceiling Panel
Indoor Environmental Quality		
IEQ Prerequisite 3 (LEED for Schools only) Minimum Acoustical Performance	Design classrooms and other core learning spaces to include sufficient sound-absorptive finishes for compliance with reverberation time requirements as specified in ANSI Standard S12.60-2002 and confirm that 100% of ceiling area (excluding lay-in lights, diffusers, grills) in all classrooms and core learning spaces < 20,000 cubic feet are finished with a material that has a Noise Reduction Coefficient (NRC) of 0.70 or higher. The calculation can also be of equivalent performance via a combination of ceiling and wall panels.	CertainTeed Acoustical Ceiling Panel
IEQ 4.6 (LEED for Schools only) Low-Emitting Materials—Ceiling and Wall Systems	Acoustical ceiling systems installed in the building interior must meet the testing and product requirements of the California Dept. of Health Services "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-scale Environmental Chambers" (incl. 2004 Addenda).	CertainTeed Acoustical Ceiling Panel, ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings
IEQ 7 (LEED-CS only) Thermal Comfort	Design HVAC system and building envelope to comply with the requirements of ASHRAE Standard 55-2004, "Thermal Environmental Conditions for Human Occupancy."	DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Spray Foam Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner, Low Slope CoolStar Roofing Surface, FlintBoard Insulation, ThermaEZE Thermal Insulation System
IEQ 7.1 (LEED-NC and LEED for Schools only) Thermal Comfort	Design HVAC system and building envelope to comply with the requirements of ASHRAE Standard 55-2004, "Thermal Environmental Conditions for Human Occupancy."	DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Spray Foam Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner, Low Slope CoolStar Roofing Surface, FlintBoard Insulation, ThermaEZE Thermal Insulation System
IEQ 8.1 Daylight and Views—Daylight	Achieve daylighting in 75% of regularly occupied spaces, or, for schools, achieve daylighting in 75% or 90% of classroom spaces.	CertainTeed Acoustical Ceiling Panel
IEQ 9 (LEED for Schools only) Enhanced Acoustical Performance	Design the classroom and core learning spaces to meet the Sound Transmission Class (STC) requirements of ANSI Standard S12.60-2002, "Acoustical Performance Criteria, Design Requirements and Guidelines for Schools."	CertainTeed Acoustical Ceiling Panel

*Visit www.certainteed.com for more details about the products listed here.

LEED-CI Credit Descriptions

LEED Version 3, 2009

CREDIT	CREDIT DESCRIPTION	PRODUCTS INCLUDED*
Sustainable Sites		
SS 1, Option 2, Path 5 Heat Island Effect—Roof	Use roofing materials on at least 75% of the roof area that have a Solar Reflectance Index (SRI) of at least 78 for a roof with a slope less than or equal to 2:12 (low-sloped) or an SRI of 29 for a roof with a slope greater than 2:12 (steep-sloped).	Low Slope CoolStar Roofing Surface
Energy & Atmosphere		
EA Prerequisite 2 Minimum Energy Performance	Establish minimum level of building energy efficiency per ASHRAE/IESNA Standard 90.1-2007.	DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Foam Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner, CrimpWrap Pipe Insulation
EA 1.1 Optimize Energy Performance—Lighting Power	Reduced connected lighting power density below that allowed by ANSI/ASHRAE/IESNA Standard 90.1-2007.	CertainTeed Acoustical Ceiling Panel
EA 1.3 Optimize Energy Performance—HVAC	Achieve increasing levels of energy conservation above required minimum performance standards.	DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Spray Foam Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner, CrimpWrap Pipe Insulation

LEED-CI Credit Descriptions

LEED Version 3, 2009

CREDIT	CREDIT DESCRIPTION	PRODUCTS INCLUDED*
Materials & Resources		
MR 2 Construction Waste Management	Recycle and/or salvage at least 50% or 75% of nonhazardous construction and demolition debris.	ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings, CertainTeed Acoustical Ceiling Panel
MR 4 Recycled Content	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.	DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Spray Foam Insulation, ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings, CertainTeed Acoustical Ceiling Panel, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner, CrimpWrap Pipe Insulation
MR 5 Regional Materials	Use a minimum of 20% materials and products manufactured regionally within a radius of 500 miles. Or, in addition to purchasing 20% of materials and products manufactured regionally, purchase 10% of materials and products extracted, harvested, or recovered as well as manufactured within 500 miles of the project site based on the combined value of all construction and Division 12 materials and products.	DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Spray Foam Insulation, ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings, CertainTeed Acoustical Ceiling Panel, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner, CrimpWrap Pipe Insulation
MR 6 Rapidly Renewable Materials	Use rapidly renewable construction and Division 12 materials and products for 5% of the total value of all building materials and products used in the project (based on cost).	CertainTeed Acoustical Ceiling Panel
Indoor Environmental Quality		
IEQ 7.1 Thermal Comfort	Design HVAC system and building envelope to comply with the requirements of ASHRAE Standard 55-2004, "Thermal Environmental Conditions for Human Occupancy."	DryRight Insulation with MemBrain, CertaPro Insulation, CertaSpray Spray Foam Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner
IEQ 8.1 Daylight and Views—Daylight	Achieve daylighting in 75% or 90% of regularly occupied spaces.	CertainTeed Acoustical Ceiling Panel

*Visit www.certainteed.com for more details about the products listed here.

LEED-H Credit Descriptions

LEED-H, 2008

CREDIT	CREDIT DESCRIPTION	PRODUCTS INCLUDED*
Innovation & Design		
ID 2 Durability Management Process	Promote durability and high performance of the building enclosure and its components and systems through appropriate design, material selection, and construction practices.	Form-A-Drain Foundation Footing System, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, Platon Air Gap Waterproofing Membrane, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist
Energy & Atmosphere		
EA 1 Optimize Energy Performance	Meet or exceed the performance requirements of an ENERGY STAR home.	ThermaEZE Thermal Insulation System, CedarBoards Insulated Siding, Vinyl Siding, Polymer Siding (CedarBoards only), OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, T-Roc Thermal Laminate Foundation Insulation System
EA 2 Insulation	Install above code insulation that exceeds the 2004 International Energy Conservation Code (IECC) requirements by at least 5% and meets at least Grade 1 specifications (per National Home Energy Rating Standards).	ThermaEZE Thermal Insulation System, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, T-Roc Thermal Laminate Foundation Insulation System
EA 5 Heating and Cooling Distribution System	Minimize energy consumption due to thermal bridges and/or leaks in the heating and cooling distribution system.	ToughGard Duct Board, Ultra*Duct BLACK Duct Board, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, ToughGard R Duct Liner



LEED-H Credit Descriptions

LEED-H, 2008

CREDIT	CREDIT DESCRIPTION	PRODUCTS INCLUDED*
Materials & Resources		
MR 2.2 Environmentally Preferable Products—Materials	Use products that meet the criteria for environmentally preferable products.	OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, ProRoc and ProRoc M2Tech Gypsum Board, Panorama Composite Railing, EverNew LT Deck, CertainTeed Acoustical Ceiling Panel, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, Polymer Siding, Vinyl Siding and Soffit, Restoration Millwork Trim, WeatherBoards FiberCement 7/16" Trim Soffit
MR 2.2 Environmentally Preferable Products—Local	Use products that are extracted, processed and manufactured within 500 miles of home.	FiberCement Siding, Soffit and 7/16" Trim, Polymer Siding, Vinyl Siding and Soffit, Restoration Millwork Trim, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, ProRoc and ProRoc M2Tech Gypsum Board, CertainTeed Roofing Shingles, CertainTeed Acoustical Ceiling Panel, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist
MR 2.2 Environmentally Preferable Products—Emission Specifications	Use products that comply with the emission criteria for environmentally preferable products, State of California, DHS, "Standard Practice for Testing of VOCs from Various Sources Using Small-scale Chambers."	OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist
MR 3 Construction Waste Management	Reduce or divert waste generated from construction activities from landfills and incinerators to a level below the industry norm.	CertainTeed Acoustical Ceiling Panel, Vinyl Siding
Indoor Environmental Quality		
IEQ 9 Radon Protection	Design and build home with radon resistant construction techniques.	Form-A-Drain Foundation Footing System

*Visit www.certainteed.com for more details about the products listed here.

NAHB Credit Descriptions

NAHB National Green Building Standard, 2008

CREDIT	CREDIT DESCRIPTION	PRODUCTS INCLUDED*
Resource Efficiency		
601.7 Site-Applied Finishing Materials	Building materials or assemblies are utilized that do not require additional site-applied material for finishing.	WeatherBoards FiberCement Siding (ColorMax Finishing Systems only), CedarBoards Insulated Siding, Vinyl Siding and Soffit, Restoration Millwork Trim, Cedar Impressions Polymer Shakes and Shingles, Panorama Composite Railing, EverNew LT Deck, CertainTeed Acoustical Ceiling Panel
602.3 Foundation Drainage	Interior and exterior foundation perimeter drains are installed and drain pipe is sloped to discharge to daylight, drywell or sump pit.	Form-A-Drain Foundation Footing System
602.7 Termite Barrier	Continuous physical foundation termite barrier used with or without low toxicity treatment is installed in geographical areas that have subterranean termite infestation potential.	Platon Air Gap Waterproofing Membrane
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.	ThermaEZE Thermal Insulation System, T-Roc Thermal Laminate Foundation Insulation System, WeatherBoards/ColorMax FiberCement Siding, WeatherBoards FiberCement Soffit and 7/16" Trim, CedarBoards Insulated Siding, Vinyl Siding and Soffit, Restoration Millwork Trim, Cedar Impressions Polymer Shakes and Shingles, Panorama Composite Railing, EverNew LT Deck
602.11 Foundation Waterproofing	Enhanced foundation waterproofing is installed.	Platon Air Gap Waterproofing Membrane
602.13 Roof Surfaces	A minimum of 90% of roof surfaces are constructed of products that are (1) in accordance with the ENERGY STAR or Cool Roof Rating Council certification or equivalent, or (2) a green roof system.	CertainTeed Roofing Shingles
604.1 Recycled Content	Use recycled-content building materials for two minor and/or two major components of the building with a recycled content of 25% or greater.	Form-A-Drain Foundation Footing System, Platon Air Gap Waterproofing Membrane, WeatherBoards/ColorMax FiberCement Siding, WeatherBoards FiberCement Soffit and 7/16" Trim, CedarBoards Insulated Siding, Vinyl Siding and Soffit, Restoration Millwork Trim, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, CrimpWrap Pipe Insulation, ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings, Panorama Composite Railing, EverNew LT Deck, CertainTeed Acoustical Ceiling Panel



NAHB Credit Descriptions

NAHB National Green Building Standard, 2008

CREDIT	CREDIT DESCRIPTION	PRODUCTS INCLUDED*
Resource Efficiency		
605.3 Recycled Construction Materials	Construction materials such as wood, cardboard, metals, drywall, plastic, etc., are recycled offsite.	CedarBoards Insulated Siding, Vinyl Siding and Soffit, Restoration Millwork Trim, CertainTeed Acoustical Ceiling Panel, ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings
606.3 Manufacturing Energy	Materials used for major components of the building that are manufactured using a minimum of 33% of the primary manufacturing process energy derived from renewable sources, combustible waste sources or renewable energy credits (RECs).	Panorama Composite Railing
608.1 Indigenous Materials	Use indigenous materials for major elements of the building.	Form-A-Drain Foundation Footing System, Platon Air Gap Waterproofing Membrane, ThermaEZE Thermal Insulation System, T-Roc Thermal Laminate Foundation Insulation System, WeatherBoards/ColorMax FiberCement Siding, WeatherBoards FiberCement Soffit and 7/16" Trim, CedarBoards Insulated Siding, Vinyl Siding and Soffit, Restoration Millwork Trim, Cedar Impressions Polymer Shakes and Shingles, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, CrimpWrap Pipe Insulation, CertaSpray Spray Foam Insulation, CertainTeed Roofing Shingles, ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings, Panorama Composite Railing, EverNew LT Deck, CertainTeed Acoustical Ceiling Panel
609.1 Life Cycle Analysis	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 ISO14044 or other recognized standards that compare the environmental impact of building materials, assemblies, or the whole building.	CedarBoards Insulated Siding, Vinyl Siding and Soffit, Restoration Millwork Trim, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings
610.1 Manufacturer's Environmental Management System Concepts	Product manufacturer's operation and business practices include environmental management system concepts, and the product facility is ISO 14001 certified or equivalent. The aggregate value of the building products from ISO 14001 certified or equivalent production facilities is 1% or more of the total estimated building materials cost.	R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, CrimpWrap Pipe Insulation, ProRoc and ProRoc M2Tech Gypsum Board for Walls and Ceilings

*Visit www.certainteed.com for more details about the products listed here.

NAHB Credit Descriptions

NAHB National Green Building Standard, 2008

CREDIT	CREDIT DESCRIPTION	PRODUCTS INCLUDED*
Energy Efficiency		
702.2 Energy Cost Performance Levels	Energy efficiency features are implemented to achieve energy cost performance that exceeds ICC IECC by 15-60%.	ThermaEZE Thermal Insulation System, T-Roc Thermal Laminate Foundation Insulation System, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, CrimpWrap Pipe Insulation, CertaSpray Spray Foam Insulation
703.1 Building Envelope	Total building thermal envelope UA improved by 10-20% over that required by IECC. Insulation must receive a Grade 1 rating or insulation is graded by a third party to achieve Grade 1 or 2.	ThermaEZE Thermal Insulation System, T-Roc Thermal Laminate Foundation Insulation System, R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, CertaSpray Spray Foam Insulation
703.2.1 Insulation and Air Sealing	Insulation and air sealing is installed in accordance with all NAHB National Green Building Standard requirements.	R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, CertaSpray Spray Foam Insulation, ThermaEZE Thermal Insulation System, T-Roc Thermal Laminate Foundation Insulation System
703.5.4.1 Water Heating Design, Equipment and Installation	Hot water lines are insulated to a minimum of R-4.	SoftTouch Duct Wrap, ToughGard 2 Duct Liner, CrimpWrap Pipe Insulation

NAHB Credit Descriptions

NAHB National Green Building Standard, 2008

CREDIT	CREDIT DESCRIPTION	PRODUCTS INCLUDED*
Indoor Environmental Quality		
901.11 Insulation	Formaldehyde emissions of wall, ceiling, floor, and duct insulation materials are in accordance with CDPH 01350, as certified by a third party program, such as GREENGUARD Environmental Institute's Children & Schools Certification Program or the Scientific Certification System's Indoor Advantage Gold Program.	R-13, R-19 and R-38 DryRight with MemBrain or R-38 Faced Fiber Glass Batt—Walls and Rim Joist, OPTIMA Loose Fill Fiber Glass Insulation, MemBrain Smart Vapor Retarder, InsulSafe SP Premium Blowing Wool Insulation, SoftTouch Duct Wrap, ToughGard 2 Duct Liner, CrimpWrap Pipe Insulation
902.3 Radon Control	Radon control measures are in accordance with ICC IRC for each radon zone.	Form-A-Drain Foundation Footing System
903.3.1 Crawlspace	Use a crawlspace vapor retarder for the floors and walls.	Platon Air Gap Waterproofing Membrane
903.5.2 Plumbing	Cold water pipes in unconditioned spaces are insulated to a minimum of R-4 with pipe insulation or other covering that adequately prevents condensation.	SoftTouch Duct Wrap, ToughGard 2 Duct Liner, CrimpWrap Pipe Insulation
903.6 Duct Insulation	All HVAC ducts, plenums, and trunks in unconditioned attics, basements, and crawlspaces are insulated to a minimum of (1) R-6 or (2) R-8. Outdoor air supplies to ventilation systems are insulated to a minimum of (1) R-6 or (2) R-8.	SoftTouch Duct Wrap, ToughGard 2 Duct Liner, CrimpWrap Pipe Insulation

*Visit www.certainteed.com for more details about the products listed here.

CertainTeed respects the environment through the responsible development of sustainable building products and systems.



ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS AND SYSTEMS:

EXTERIOR: ROOFING • SIDING • WINDOWS • FENCE • RAILING • TRIM • DECKING • FOUNDATIONS • PIPE

INTERIOR: INSULATION • GYPSUM • CEILINGS

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