

CertainTeed

Sustainable Products and Systems

A Reference for Building Responsibly



GridSTAR Net Zero Energy Demonstration Structure at The Philadelphia Navy Yard —
a demonstration of Saint-Gobain Multi-Comfort principles
Philadelphia, PA
Philadelphia Industrial Development Corporation (PIDC)
LEED Platinum (projected)



Johnson County Community College, Galileo's Pavilion
Overland Park, KS
Studio 804
LEED Platinum



3 Palms Passive House
Ventura County, CA
Alliance Design Group
LEED Platinum

Building responsibly. The reference for sustainable habitat.

All that goes into a building, from the life cycle consideration of all raw materials to structure design has a far-reaching impact on the well-being of people and the environment.

CertainTeed shares that responsibility with you, with a complete portfolio of building materials that helps you make a sustainable difference for your customers and the environment. This Building Responsibly Reference Guide will give you a true sustainable advantage while helping you deliver the beauty, comfort and performance you have come to expect from CertainTeed.

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SYSTEMS

- LEED® for New Construction™
- LEED for Schools™
- LEED for Healthcare
- LEED for Homes Advanced Design
- LEED for Homes Standard Design
- NAHB Advanced Design
- NAHB Standard Design

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INTERIOR PRODUCTS

- Ceilings
- Gypsum
- Insulation

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EXTERIOR PRODUCTS

- Fence, Railing and Decking
- Fiber Cement Siding, Soffit and Trim
- Polymer Shakes and Shingles, Vinyl Siding and Trim
- Roofing

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Appendix

Montage Deer Valley
Park City, Utah
HKS Hill Glacier Studio
LEED Silver

LEED Version 4. You will be ready.

In partnership with our parent company, Saint-Gobain, at CertainTeed we pride ourselves on not only providing the best products for the current market, but also being prepared to offer our customers innovations for the future. With the approval of LEED v4, CertainTeed is ready and will continue to support the green building marketplace with products that can immediately contribute to earning points within this vastly different standard. In 2011, CertainTeed Siding Products Group was the first manufacturer to release third-party verified Life Cycle Assessments (LCAs). In 2012, CertainTeed Ceilings was the first manufacturer in the ceilings products industry to issue Environmental Product Declarations (EPDs). To date (fourth quarter 2013), the CertainTeed/Saint-Gobain building product groups have released 13 published LCAs and EPDs, which provide readily available life cycle environmental impact data for 44 different products. Not only is CertainTeed focused on providing transparency through life cycle environmental impact data, but we also consider the material and chemical content of our products and disclose that information in 10 Health Product Declarations (HPDs). HPDs will allow builders and architects to understand the materials and chemicals within our products. We are proud to say these reports were all completed with the future of green building in mind. Builders, architects and contractors can rest assured that CertainTeed products will continue to support them now and into the future. See the full list of products that can contribute to EPD and HPD credits in the lists to the right.

Through ingenuity and our green building expertise, CertainTeed is ready to support current and future green building projects so you will be ready too.

Below is a list of the credits CertainTeed products can contribute to earning within the new LEED v4 — BD+C rating system.

LEED v4 Credit Contributions:

- > SS 2 Site Development – Protect or Restore Habitat
- > SS 3 Open Space
- > SS 4 Rainwater Management
- > SS 5 Heat Island Reduction
- > EA 1 Minimum Energy Performance
- > EA 1 Optimize Energy Performance
- > MR 1 Building Life Cycle Impact Reduction
- > MR 2 Building Product Disclosure and Optimization – Environmental Product Declaration
- > MR 3 Building Product Disclosure and Optimization – Sourcing of Raw Materials
- > MR 4 Building Product Disclosure and Optimization – Material Ingredients
- > MR 5 Construction and Demolition Waste Management
- > IEQ 2 Low Emitting Interiors
- > IEQ 5 Thermal Comfort
- > IEQ 7 Daylight
- > IEQ 9 Acoustic Performance

Visit www.buildingresponsibly.com for more details.

MR 2 Building Product Disclosure and Optimization – Environmental Product Declarations

13 published LCAs/EPDs =
Over 40 products with readily available life cycle impact data



CertainTeed/Saint-Gobain product families with published LCAs/EPDs:

- > Blowing Wool Insulation, Sustainable Kraft and Unfaced Batt Insulation
- > Vinyl Siding
- > Cedar Impressions®
- > CedarBoards™ D6
- > WeatherBoards™ Fiber Cement
- > Restoration Millwork®
- > VOC Compliant Rx Symphony® *f* and Symphony *f*
- > Rx Symphony *m* and Symphony *m*
- > Protectone® Products
- > School Board®, Baroque™, Fine Fissured, Vantage 10™, Sand Micro™, Directional Fissured
- > Cashmere™, Fine Fissured High NRC
- > Saint-Gobain Solar Gard®

MR 3 Building Product Disclosure and Optimization – Sourcing of Raw Materials

The Global Reporting Initiative (GRI) awarded CertainTeed's parent company, Saint-Gobain, an A+ rating on its most recent Sustainable Development Report.

MR 4 Building Product Disclosure and Optimization – Material Ingredients

10 published HPDs = Over 50 products with readily available health product data

CertainTeed product families with published HPDs:

- > Blowing Wool Insulation, Sustainable Kraft and Unfaced Batt Insulation
- > Symphony *m*
- > VOC Compliant Symphony *f*
- > Gyptone®
- > G2 Mineral Fiber Ceiling Panels
- > 7C Mineral Fiber Ceiling Panels
- > 6S Mineral Fiber Ceiling Panels
- > VinylShield™
- > Vinylrock™



Green building in our own backyard

Greenbuild 2013 Philadelphia

Greenbuild, the U.S. Green Building Council's International Conference and Expo, is being held in CertainTeed's hometown of Philadelphia, Pa. Greenbuild brings together industry leaders, experts and frontline professionals dedicated to sustainable building in their everyday work.

Greenbuild is the perfect venue to share all of our sustainable products, to educate through CEU courses and building science innovations and of course, to learn ourselves. We are committed to forging into the future with new innovations, ideas and a tenacity for green knowledge that will make the future a better place.



In celebration of this year's event, CertainTeed is proud to showcase three green building projects in our local community.



Multi-Comfort Certified

Saint-Gobain's Multi-Comfort program is designed to recognize buildings that demonstrate the immense positive impact that thoughtful design and well-chosen building materials can have on energy efficiency, long-term cost effectiveness and the overall occupant experience. Multi-Comfort buildings combine five aspects of comfort: aesthetic, thermal, acoustic, visual and air quality.



YouthBuild® Project

The YouthBuild Project is part of a three-year, national partnership between Saint-Gobain, CertainTeed and YouthBuild USA. The partnership gives support to the organization's "Green Initiative," which provides YouthBuild students with the opportunity to build sustainable, energy-efficient and healthy homes in their neighborhoods, gain green-collar job skills and industry-recognized credentials, and develop environmentally focused leadership skills. The project will be seeking LEED certification from the U.S. Green Building Council and will consist of the renovation of 4620 Greene Street, a dilapidated building vacant for nearly 20 years. The project is being undertaken in collaboration with YouthBuild Philadelphia Charter School, Philadelphia Neighborhood Housing Services, Saint-Gobain and CertainTeed.

Kimmel Center for the Performing Arts

The Kimmel Center is a city-block-wide collection of performance halls and open spaces enclosed inside a soaring, 150-foot-high barrel-vaulted glass roof. At the Center's highest elevation sits the Dorrance H. Hamilton Garden Terrace, which offers stunning views of the city and overlooks the entire Kimmel Center complex. The vaulted glass roof created a monumental solar control problem in the Garden Terrace that only SageGlass® could solve. Installed in the new 2,100-square-foot Terrace rooftop is electronically tintable SageGlass. SageGlass helps maintain a comfortable temperature in the space while blocking unwanted glare for occupants without impeding the breathtaking views of the city.

GridSTAR Net Zero Energy Demonstration Structure

The GridSTAR Center (Grid Smart Training and Application Resource Center) was created by Penn State University through a grant from the U.S. Department of Energy to develop smart grid technologies to advance net zero living and training for renewable energy initiatives. A key component of The GridSTAR Center is the Net Zero Energy Demonstration Structure. This 3,000-square-foot colonial-style, modular residential structure contains innovative technologies in energy efficiency, solar energy and energy storage systems from Pennsylvania-based businesses that can be applied to improve the building envelope. Located at the Navy Yard in Philadelphia, the GridSTAR Net Zero Energy Demonstration Structure has been certified as a Saint-Gobain Multi-Comfort Home and is projected to achieve LEED Platinum status. More than 20 CertainTeed products were used on this project. For a full list see www.certainteed.com/navyard. In addition, CertainTeed Building Science experts have installed testing equipment to document the building's atmosphere efficiency.

Green Building Products

At-A-Glance

	Percent Recycled Content	Does Not Emit Harmful Chemicals	Third-Party Validation of Environmental Claims	Manufacturing Plant ISO 14001 Certified (+) or has an Environmental Management System (🌱)	Contributes to Energy Efficiency ² (🌱) or is ENERGY STAR [®] Certified (C) or an ENERGY STAR Partner (P)	Reduces Carbon Footprint ³	Green Certified Products for NGBS 2012 Credits	Contributes to Achieving LEED-H (2009 and v4), LEED for Canada: Homes (2009) Credits	Contributes to Achieving LEED-NC, CS, Schools, Retail (2009 and v4) or LEED for Canada NC (2009) Credits	Contributes to Achieving LEED CI (2009 and v4) Credits	Contributes to Achieving LEED for Healthcare (2009 and v4) Credits	Published Life Cycle Assessment or Published Environmental/Health Product Declarations
WeatherBoards™ Fiber Cement Siding, Soffit and Trim	30%	🌱	GreenCircle ^{®5}	+		🌱	🌱	🌱	🌱		🌱	Published LCA
Cedar Impressions [®] Polymer Shakes and Shingles, CedarBoards™ Insulated Siding, Vinyl Siding and Trim	Up to 73%	🌱	GreenCircle ^{®4,5}	+	🌱 ⁴	🌱 ³	🌱	🌱	🌱		🌱	Published LCA
Restoration Millwork [®]	18%	🌱	GreenCircle ^{®5}	+		🌱	🌱	🌱	🌱		🌱	Published LCA
Insulation – Batts and Blowing Wool	20-70%	🌱	GreenCircle ^{®5} , GREENGUARD Gold	+	P	🌱	🌱	🌱	🌱	🌱	🌱	Published HPD
CertaSpray [®] Spray Foam Insulation		🌱			🌱	🌱	🌱	🌱	🌱	🌱	🌱	
Insulation – HVAC	20-70%	🌱	GreenCircle ^{®5} , GREENGUARD Gold	+	P	🌱	🌱	🌱	🌱	🌱	🌱	
Gypsum – ProRoc [®] , GlasRoc [®] and ProRoc [®] M2Tech [®]	5-99% ¹	🌱	GREENGUARD, UL Environment ECV	🌱			🌱	🌱 ¹	🌱	🌱	🌱	
Roofing – Residential	1-55%	🌱			C	🌱	🌱	🌱	🌱	🌱	🌱	
Roofing – Low Slope	1-28%	🌱			C	🌱	🌱	🌱	🌱	🌱	🌱	
Ceilings	7-75%	🌱	GreenCircle ^{®5} , FSC ^{®6} , GREENGUARD Gold		🌱	🌱		🌱	🌱	🌱	🌱	Published HPD
Fence	19%	🌱	GreenCircle™ ⁵	+			🌱		🌱		🌱	
Decking	5-74%	🌱		+			🌱		🌱		🌱	
Panorama [®] Railing	90%	🌱	GreenCircle ^{®5}	+			🌱	🌱	🌱		🌱	

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 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.

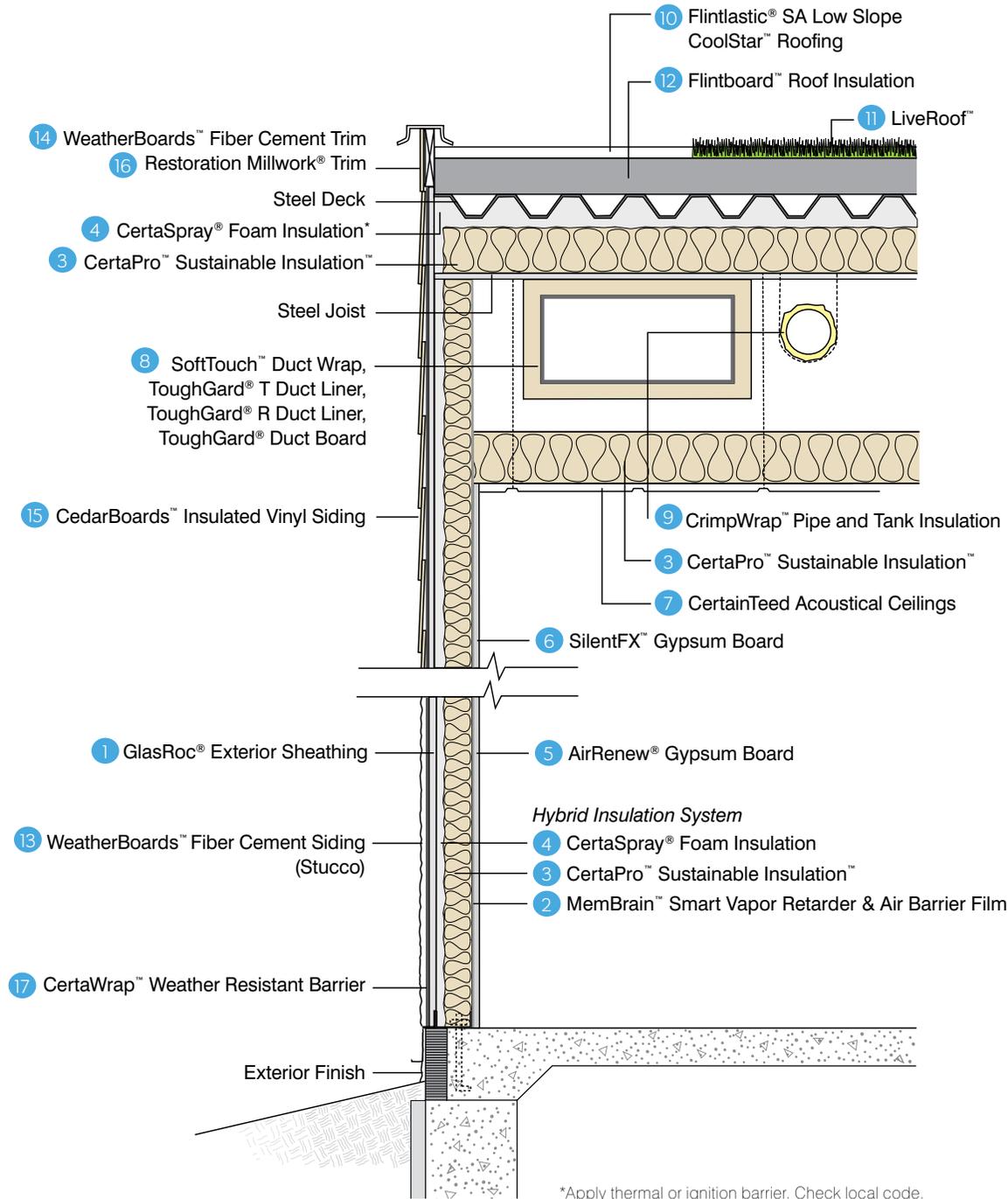
3 Reduces Carbon Footprint – This product reduces the carbon emissions related to the building in which it is installed either because less fossil fuel was used in its production or installation than comparable materials, or because the product reduces the energy used in the operation of the building (i.e., heating, cooling, lighting, etc.).

4 CedarBoards D6 only.

5 GreenCircle Certified, LLC provides third-party verification and assurance to builders, regulators and consumers that products labeled with the GreenCircle mark have undergone a rigorous audit process that verifies compliance with the environmental and sustainability claims of the manufacturers.

6 Forest Stewardship Council (FSC) – Decoustics Quadrillo[®], Solo™ and Solo M™ ceiling panels only.

CertainTeed Product Contributions to LEED NC, Schools, Healthcare (2009 and v4) and LEED for Canada NC (2009)



	CREDITS	POINTS
	1. GlasRoc® Exterior Sheathing	
LEED 2009	MR 3. Sustainable Sourced Materials and Products (H)	1-4
	MR 5. Regional Material	1-2
	2.-4. MemBrain™ Smart Vapor Retarder & Air Barrier Film, CertaPro™ Sustainable Insulation™, CertaSpray™ Foam Insulation	
LEED 2009	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1-19
	MR 3. Sustainable Sourced Materials and Products (H)	1-4
	MR 4. Recycled Content	1-2
	MR 5. Regional Materials	1-2
	IEQ 4. Low-Emitting Materials (H)	1-4
	IEQ 4.6. Low Emitting Materials – Ceilings and Wall Systems (S)	1
	IEQ 7.1. Thermal Comfort	1
	IEQ 9. Enhanced Acoustical Performance (S)	1
LEED v4	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1-19
	MR 1. Building Life Cycle Impact Reduction	5
	MR 2. Building Product Disclosure and Optimization – Environmental Product Declarations	2
	MR 3. Building Product Disclosure and Optimization – Sourcing of Raw Materials	2
	IEQ 2. Low Emitting Interiors	3
	IEQ 5. Thermal Comfort	1
	IEQ 9. Acoustic Performance	1-2
	5. AirRenew® Gypsum Board	
LEED 2009	MR 2. Construction Waste Management	1-2
	MR 3. Sustainably Sourced Materials and Products	1-4
	MR 4. Recycled Content	1-2
	IEQ 4. Low Emitting Materials (H)	1-4
	IEQ 4.6 Low-Emitting Materials – Ceilings and Wall Systems (S)	1-4
LEED v4	MR 3. Building Product Disclosure and Optimization – Sourcing of Raw Materials	2
	MR 5. Construction and Demolition Waste Management	1-2
	IEQ 2. Low Emitting Interiors	3
	IEQ 9. Acoustic Performance	1-2

Chart Code: (H) = (Healthcare Only), (S) = (Schools Only)

Check out certainteed.com for an in-depth look at CertainTeed and Saint-Gobain products that support evidence-based design principles in healthcare and educational facilities.

Building Design and Construction Rating System (2009 and V4); LEED for Canada NC 2009

	CREDITS	POINTS
6. SilentFX™		
LEED 2009	MR 3. Sustainably Sourced Materials and Products	1-4
	MR 4. Recycled Content	1-2
	IEQ 2. Acoustic Environment (H)	1-2
	IEQ 4. Low Emitting Materials (H)	1-4
	IEQ 4.6. Low Emitting Materials – Ceilings and Wall Systems (S)	1
	IEQ 9. Enhanced Acoustical Performance (S)	1
LEED v4	MR 3. Building Product Disclosure and Optimization – Sourcing of Raw Materials	2
	IEQ 2. Low Emitting Interiors	3
	IEQ 9. Acoustic Performance	1-2
7. CertainTeed Acoustical Ceilings		
LEED 2009	EA 1. Optimize Energy Performance	1-19
	EA Prerequisite 2. Minimum Energy Performance	Required
	MR 2. Construction Waste Management	1-2
	MR 3 Sustainable Sourced Materials and Products (H)	1-4
	MR 4. Recycled Content	1-2
	MR 5. Regional Materials	1-2
	MR 6. Rapidly Renewable Materials	1
	IEQ 4. Low-Emitting Materials (H)	1-4
	IEQ 4.6. Low Emitting Materials – Ceilings and Wall Systems (S)	1
	IEQ 8.1. Daylight and Views – Daylight	1
	IEQ 9. Enhanced Acoustical Performance (S)	1
	IEQ 10. Mold Prevention (S)	1
LEED v4	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1-20
	MR 1. Building Life Cycle Impact Reduction	5
	MR 2. Building Product Disclosure and Optimization – Environmental Product Declarations	2
	MR 3. Building Product Disclosure and Optimization – Sourcing of Raw Materials	2
	MR 5. Construction and Demolition Waste Management	1-2
	IEQ 2. Low Emitting Interiors	3
	IEQ 9. Acoustic Performance	1-2
8. SoftTouch™ Duct Wrap, ToughGard® T Duct Liner, ToughGard® R Duct Liner, and ToughGard® Duct Board		
LEED 2009	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimized Energy Performance	1-19
	MR 3. Sustainable Sourced Materials and Products (H)	1-4
	MR 4. Recycled Content	1-2
	MR 5. Regional Materials	1-2
	IEQ 7.1. Thermal Comfort	1
LEED v4	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimized Energy Performance	1-20
	MR 3. Building Product Disclosure and Optimization – Sourcing of Raw Materials	2
	IEQ 5. Thermal Comfort	1

	CREDITS	POINTS
9. CrimpWrap™ Pipe and Tank Insulation		
LEED 2009	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimized Energy Performance	1-19
	IEQ 7.1. Thermal Comfort	1
LEED v4	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimized Energy Performance	1-19
	IEQ 5. Thermal Comfort	1
10. Low Slope CoolStar™ Roofing		
LEED 2009	SS 7.2. Heat Island Effect-Roof	1
	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1-19
	MR 2. Construction Waste Management	1-2
	MR 5. Regional Materials	1-2
	IEQ 7.1. Thermal Comfort	1
LEED v4	SS 5. Heat Island Reduction	1
	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1-20
	MR 5. Construction Waste Management	1-2
	IEQ 5. Thermal Comfort	1
11. LiveRoof™		
LEED 2009	SS 5.1. Site Development – Protect or Restore Habitat	1
	SS 5.2. Site Development – Maximize Open Space	1
	SS 6.1. Stormwater Design – Quantity Control	1
	SS 6.2. Stormwater Design – Quality Control	1
	SS 7.2. Heat Island Effect – Roof	1
LEED v4	SS 2. Site Development – Protect or Restore Habitat	1-2
	SS 3. Open Space	1
	SS 4. Rainwater Management	2-3
	SS 5. Heat Island Reduction	2
12. Flintboard™ Roof Insulation		
LEED 2009	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
LEED v4	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1-20
	MR 3. Building Product Disclosure and Optimization – Sourcing of Raw Materials	2
	IEQ 5. Thermal Comfort	1

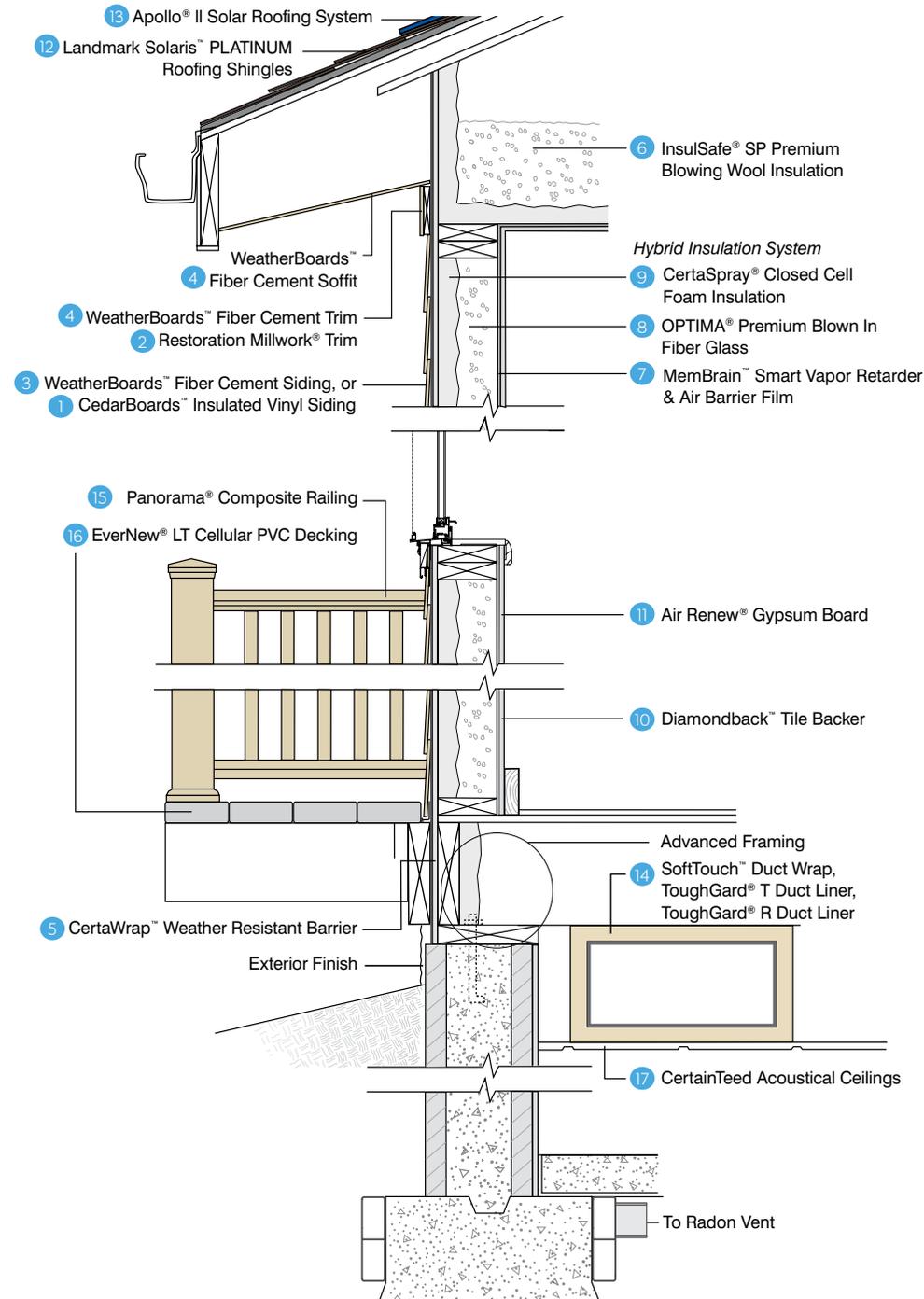
Chart Code: (H) = (Healthcare Only), (S) = (Schools Only)

	CREDITS	POINTS
13.-14. WeatherBoards™ Fiber Cement Siding, WeatherBoards™ Fiber Cement Siding Trim and Soffits		
LEED 2009	MR 3. Sustainably Sourced Materials and Products (H)	1-4
	MR 4. Recycled Content	1-2
	MR 5. Regional Materials	1-2
LEED v4	MR 1. Building Life Cycle Impact Reduction	5
	MR 2. Building Product Disclosure and Optimization – Environmental Product Declarations	2
	MR 3. Building Product Disclosure and Optimization – Sourcing of Raw Materials	2
15. CedarBoards™ Insulated Vinyl Siding		
LEED 2009	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1-19
	MR 3. Sustainably Sourced Materials and Products (H)	1-4
	MR 4. Recycled Content	1-2
LEED v4	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1-20
	MR 1. Building Life Cycle Impact Reduction	5
	MR 2. Building Product Disclosure and Optimization – Environmental Product Declarations	2
	MR 3. Building Product Disclosure and Optimization – Sourcing of Raw Materials	2
	IEQ 5. Thermal Comfort	1
16. Restoration Millwork®		
LEED 2009	MR 3. Sustainably Sourced Materials and Products (H)	1-4
	MR 4. Recycled Content	1-2
	MR 5. Regional Materials	1-2
LEED v4	MR 1. Building Life Cycle Impact Reduction	5
	MR 2. Building Product Disclosure and Optimization – Environmental Product Declarations	2
	MR 3. Building Product Disclosure and Optimization – Sourcing of Raw Materials	2
17. CertaWrap™ Weather Resistant Barrier		
LEED 2009	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1-19
LEED v4	EA Prerequisite 2. Minimum Energy Performance	Required
	EA 1. Optimize Energy Performance	1-20

Chart Code: (H) = (Healthcare Only), (S) = (Schools Only)

Chart Code: (H) = (Healthcare Only), (S) = (Schools Only)

LEED for Homes (2009 and v4) and LEED for Canada: Homes (2009) – Advanced Design



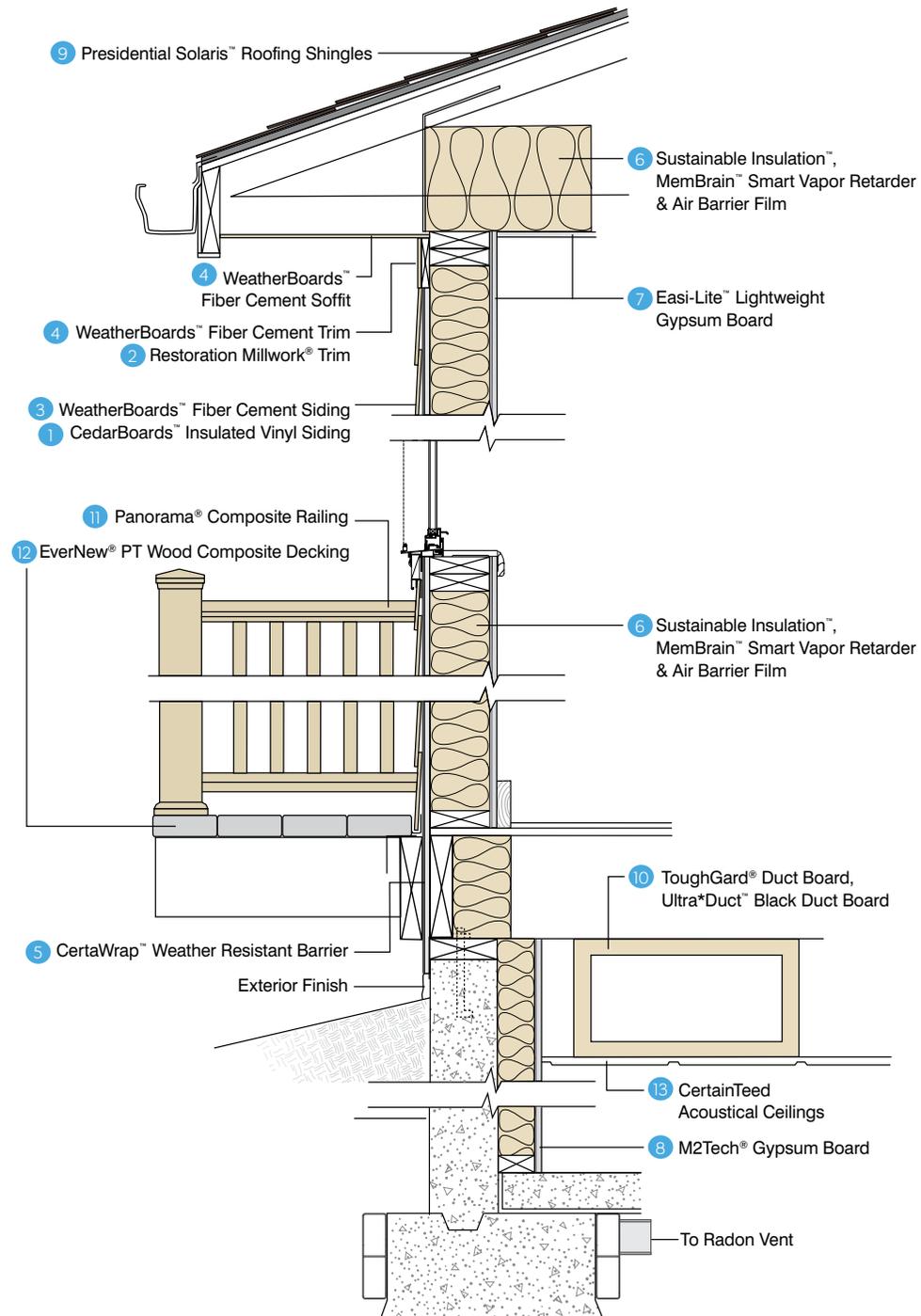
CertainTeed Product Contributions to LEED-H and LEED-H: Canada Advanced Design Credits

CREDITS	POINTS
1. CedarBoards™ Insulated Vinyl Siding	
<i>LEED 2009</i> SS 5. Non Toxic Pest Control	0.5
EA 1. Optimize Energy Performance	1-34
MR 2.2. Environmentally Preferable Products – Materials	0.5
<i>LEED v4</i> SS 3. Non Toxic Pest Control	0.5
EA Prerequisite 1. Minimum Energy Performance	Required
EA 2. Annual Energy Use	1-29
EA 8. Envelope Insulation	1-2
MR 3. Environmentally Preferable Products	1
2. Restoration Millwork® Trim	
<i>LEED 2009</i> SS 5. Non Toxic Pest Control	0.5
MR 2.2. Environmentally Preferable Products – Local	0.5
<i>LEED v4</i> SS 3. Non Toxic Pest Control	0.5
3.-4. WeatherBoards™ Fiber Cement Siding, WeatherBoards™ Fiber Cement Trim and Soffit	
<i>LEED 2009</i> SS 5. Non Toxic Pest Control	0.5
MR 2.2. Environmentally Preferable Products – Materials and Local	1
<i>LEED v4</i> SS 3. Non Toxic Pest Control	0.5
5. CertaWrap™ Weather Resistant Barrier	
<i>LEED 2009</i> SS 5. Non Toxic Pest Control	0.5
ID 2. Durability Management Process	3
<i>LEED v4</i> SS 3. Non Toxic Pest Control	0.5

CREDITS	POINTS
6.-9. InsulSafe® SP Premium Blowing Wool Insulation, MemBrain™ Smart Vapor Retarder & Air Barrier Film, OPTIMA® Premium Blown In Fiber Glass, CertaSpray® Closed Cell Foam Insulation	
<i>LEED 2009</i> ID 2. Durability Management Process	3
EA 1. Optimize Energy Performance	1-34
EA 2. Insulation	2
MR 2.2. Environmentally Preferable Products – Materials	0.5
MR 2.2. Environmentally Preferable Products – Local	0.5
MR 2.2. Environmentally Preferable Products Emissions Specifications	0.5
<i>LEED v4</i> EA Prerequisite 1. Minimum Energy Performance	Required
EA 1. Annual Energy Use	1-29
EA 7. Air Infiltration	2
EA 8. Envelope Insulation	2
MR 3. Environmentally Preferable Products	1
IEQ 7. Low Emitting Products	3
10. Diamondback™ Tile Backer	
<i>LEED 2009</i> MR 2.2. Environmentally Preferable Products – Materials	0.5
MR 2.2. Environmentally Preferable Products – Local	0.5
MR 3. Construction Waste Management	0.5-3
<i>LEED v4</i> MR 3. Local Production	1
MR 3. Environmentally Preferable Products	1
MR 4. Construction Waste Management	3
IEQ 7. Low Emitting Products	1
11. AirRenew® Gypsum Board	
<i>LEED 2009</i> MR 2.2. Environmentally Preferable Products – Local	0.5
MR 2.2. Environmentally Preferable Products – Emissions Specifications	0.5
MR 3. Construction Waste Management	0.5-3
<i>LEED v4</i> MR 3. Local Production	1
MR 3. Environmentally Preferable Products	1
MR 4. Construction Waste Management	3
IEQ 7. Low Emitting Products	1

CREDITS	POINTS
12. Landmark Solaris™ PLATINUM Roofing Shingles	
<i>LEED 2009</i> SS 3. Local Heat Island Effects	1
EA 1. Optimize Energy Performance	1-34
MR 2.2. Environmentally Preferable Products – Local	0.5
MR 3.2. Construction Waste Reduction	3
<i>LEED v4</i> SS 1. Heat Island Reduction	2
EA Prerequisite 1. Minimum Energy Performance	Required
EA 1. Annual Energy Use	1-29
MR 4. Construction Waste Management	3
13. Apollo® II Solar Roofing System	
<i>LEED 2009</i> EA 10. Renewable Energy	1-10
<i>LEED v4</i> EA 15. Renewable Energy	1-10
14. SoftTouch™ Duct Wrap, ToughGard® T Duct Liner, and ToughGard® R Duct Liner	
<i>LEED 2009</i> EA 1. Optimize Energy Performance	1-34
EA 2. Insulation	1-2
EA 5. Heating and Cooling Distribution System	2-3
MR 2.2. Environmentally Preferable Products – Emissions Specifications	0.5
<i>LEED v4</i> EA Prerequisite 1. Minimum Energy Performance	Required
EA 1. Annual Energy Use	1-29
EA 11. Heating and Cooling Distribution Systems	3
IEQ 7. Low Emitting Products	3
15.-16. Panorama® Composite Railing, EverNew® LT Cellular PVC Decking	
<i>LEED 2009</i> MR 2.2. Environmentally Preferable Products – Materials	0.5
MR 2.2. Environmentally Preferable Products – Local	0.5
<i>LEED v4</i> MR 3. Environmentally Preferable Products	1
17. CertainTeed Acoustical Ceilings	
<i>LEED 2009</i> MR 2.2. Environmentally Preferable Products – Materials	0.5
MR 2.2. Environmentally Preferable Products – Local	0.5
MR 3. Construction Waste Management	0.5-3
<i>LEED v4</i> MR 3. Environmentally Preferable Products	1
MR 4. Construction Waste Management	3

LEED for Homes (2009 and v4) and LEED for Canada: Homes 2009



CertainTeed Product Contributions to LEED-H and LEED-H: Canada Standard Design Credits

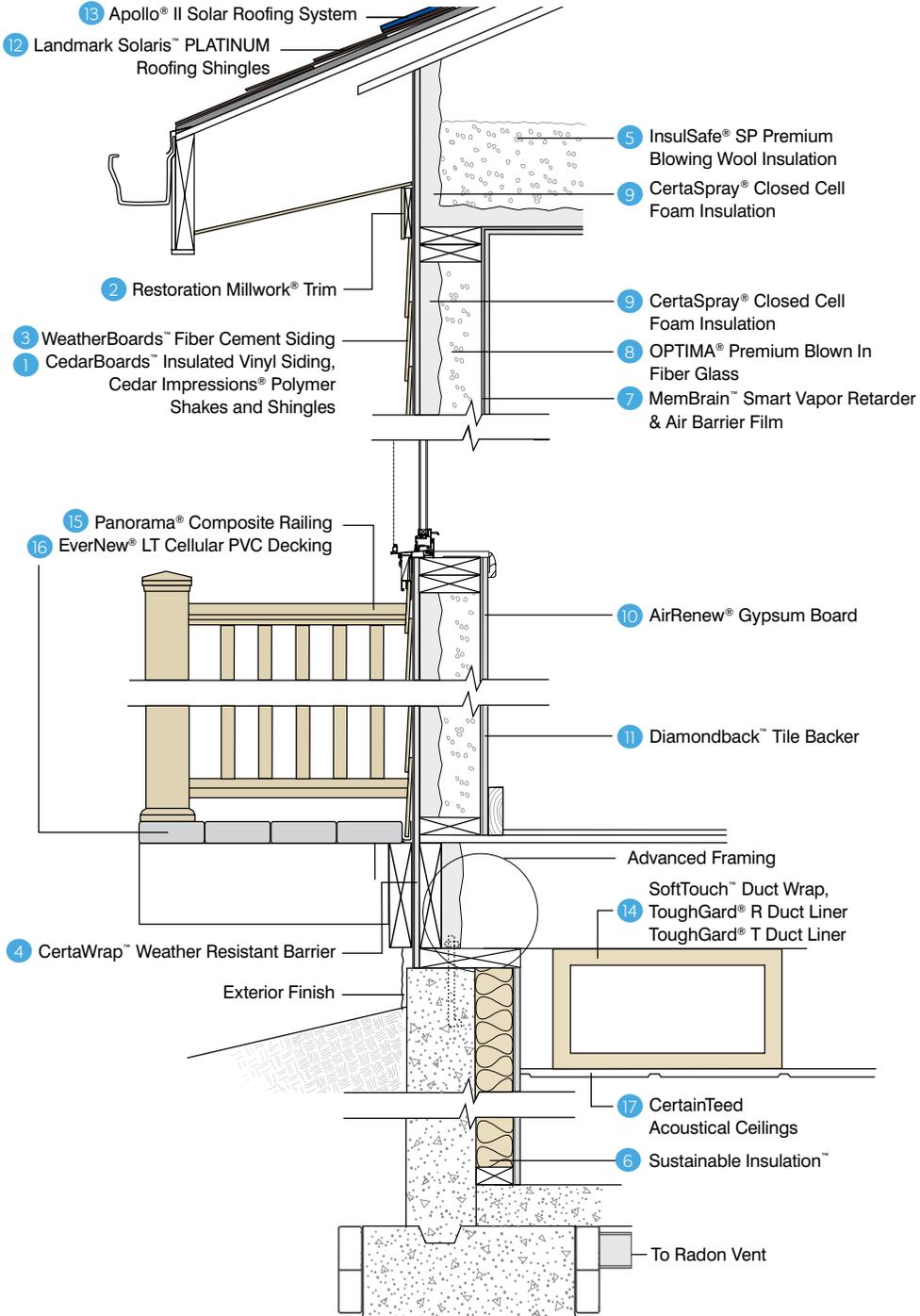
CREDITS	POINTS
1. CedarBoards™ Insulated Vinyl Siding	
<i>LEED 2009</i> SS 5. Non Toxic Pest Control	0.5
EA 1. Optimize Energy Performance	1-34
MR 2.2. Environmentally Preferable Products – Materials	0.5
<i>LEED v4</i> SS 3. Non Toxic Pest Control	0.5
EA Prerequisite 1. Minimum Energy Performance	Required
EA 2. Annual Energy Use	1-29
EA 8. Envelope Insulation	1-2
MR 3. Environmentally Preferable Products	1
2. Restoration Millwork® Trim	
<i>LEED 2009</i> SS 5. Non Toxic Pest Control	0.5
MR 2.2. Environmentally Preferable Products – Local	0.5
<i>LEED v4</i> SS 3. Non Toxic Pest Control	0.5
3.-4. Weatherboards™ Fiber Cement Siding, Weatherboards™ Fiber Cement Trim and Soffit	
<i>LEED 2009</i> SS 5. Non Toxic Pest Control	0.5
MR 2.2. Environmentally Preferable Products – Materials and Local	1
<i>LEED v4</i> SS 3. Non Toxic Pest Control	0.5
5. CertaWrap™ Weather Resistant Barrier	
<i>LEED 2009</i> SS 5. Non Toxic Pest Control	0.5
ID 2. Durability Management Process	3
<i>LEED v4</i> SS 3. Non Toxic Pest Control	.5

CREDITS	POINTS
6. Sustainable Insulation™, MemBrain™ Smart Vapor Retarder & Air Barrier Film	
<i>LEED 2009</i> ID 2. Durability Management Process	3
EA 1. Optimize Energy Performance	1-34
EA 2. Insulation	2
MR 2.2. Environmentally Preferable Products – Materials	0.5
MR 2.2. Environmentally Preferable Products – Local	0.5
MR 2.2. Environmentally Preferable Products – Emissions Specifications	0.5
<i>LEED v4</i> EA Prerequisite 1. Minimum Energy Performance	Required
EA 1. Annual Energy Use	1-29
EA 7. Air Infiltration	2
EA 8. Envelope Insulation	2
MR 3. Environmentally Preferable Products	1
IEQ 7. Low Emitting Products	3
7. Easi-Lite™ Lightweight Gypsum Board	
<i>LEED 2009</i> MR 2.2. Environmentally Preferable Products – Local	0.5
MR 2.2. Environmentally Preferable Products – Emissions Specifications	0.5
MR 3. Construction Waste Management	0.5-3
<i>LEED v4</i> MR 3. Local Production	1
MR 3. Environmentally Preferable Products	1
MR 4. Construction Waste Management	3
IEQ 7. Low Emitting Products	1
8. CertainTeed M2Tech™ Gypsum Board	
<i>LEED 2009</i> MR 2.2. Environmentally Preferable Products – Local	0.5
MR 2.2. Environmentally Preferable Products – Emissions Specifications	0.5
MR 3. Construction Waste Management	0.5-3
<i>LEED v4</i> MR 3. Local Production	1
MR 3. Environmentally Preferable Products	1
MR 4. Construction Waste Management	3
IEQ 7. Low Emitting Products	1

CREDITS	POINTS
9. Presidential Solaris™ Roofing Shingles	
<i>LEED 2009</i> SS 3. Local Heat Island Effects	1
EA 1. Optimize Energy Performance	1-34
MR 2.2. Environmentally Preferable Products – Local	0.5
MR 3.2. Construction Waste Reduction	3
<i>LEED v4</i> SS 1. Heat Island Reduction	2
EA Prerequisite 1. Minimum Energy Performance	Required
EA 1. Annual Energy Use	1-29
MR 4. Construction Waste Management	3
10. ToughGard® Duct Board and Ultra*Duct™ Black Duct Board†	
<i>LEED 2009</i> EA 1. Optimize Energy Performance	1-34
EA 2. Insulation	1-2
EA 5. Heating and Cooling Distribution System	2-3
MR 2.2. Environmentally Preferable Products – Emissions Specifications	.5
<i>LEED v4</i> EA Prerequisite 1. Minimum Energy Performance	Required
EA 1. Annual Energy Use	1-29
EA 11. Heating and Cooling Distribution Systems	3
IEQ 7. Low Emitting Products	3
11.-12. Panorama® Composite Railing, EverNew PT Wood Composite Decking	
<i>LEED 2009</i> MR 2.2. Environmentally Preferable Products – Materials	0.5
MR 2.2. Environmentally Preferable Products – Local	0.5
<i>LEED v4</i> MR 3. Environmentally Preferable Products	1
13. CertainTeed Acoustical Ceilings	
<i>LEED 2009</i> MR 2.2. Environmentally Preferable Products – Materials	0.5
MR 2.2. Environmentally Preferable Products – Local	0.5
MR 3. Construction Waste Management	0.5-3
<i>LEED v4</i> MR 3. Environmentally Preferable Products	1
MR 4. Construction Waste Management	3

† Does not achieve MR 2.2. Emissions Specifications

National Green Building Standard 2012: Advanced Design (NGBS)



CertainTeed Product Contributions To NGBS: Advanced Design Credits

National Green Building Standard, 2012

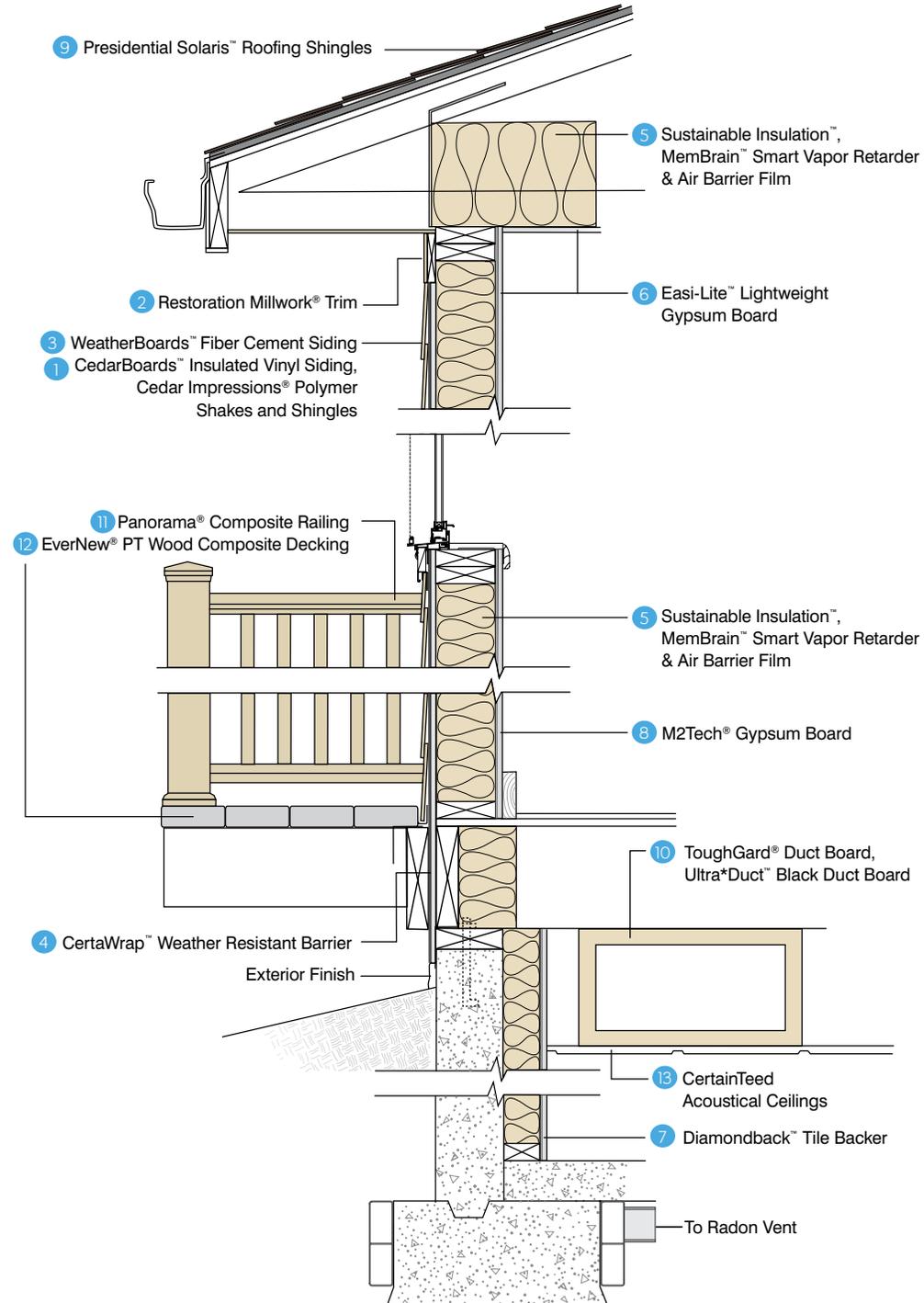


Note: Green text indicates product has been Green Certified by the Home Innovation Research Labs to automatically earn points for this particular credit. See individual product pages for certification numbers.

PRODUCT	CREDITS	POINTS
1. CedarBoards™ Insulated Vinyl Siding, Cedar Impressions® Polymer Shakes and Shingles	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 0.5-3
	609.1	Regional Materials 2-10
2. Restoration Millwork® Trim	610.1.2	Life Cycle Analysis 15
	610.1.2.1	Product LCA 2-10
	611.1	Manufacturer's Environmental Management System Concepts 1-10
	702.2	Energy Cost Performance Levels (CedarBoards only) 30-120
	703.1	Building Envelope (CedarBoards only) 10-36
3. WeatherBoards™ Fiber Cement Siding	601.7	Site Applied Finishing Materials (ColorMax® Finishing System only) 2-5
	602.8	Termite Resistant Materials 2-6
	604.1	Recycled Content 2-4
	609.1	Regional Materials 2-10
	610.1.2	Life Cycle Analysis 15
	610.1.2.1	Product LCA 2-10
4. CertaWrap™ Weather Resistant Barrier	602.1.5	Termite Barrier 4
	602.1.8	Water-Resistive Barrier Mandatory
	602.1.2	Foundation Waterproofing 4
5. InsulSafe® SP Premium Blowing Wool Insulation	604.1	Recycled Content 1-2
6. Sustainable Insulation	604.1	Recycled Content 2-4
7. MemBrain™ Smart Vapor Retarder & Air Barrier Film	609.1	Regional Materials 2-10
	610.1.2	Life Cycle Analysis 15
8. OPTIMA® Premium Blown In Fiber Glass	610.1.2.1	Product LCA 2-10
	611.1	Manufacturer's Environmental Management System Concepts 1-10
9. CertaSpray® Closed Cell Foam Insulation	702.2	Energy Cost Performance Levels 30-120
	703.1	Building Envelope 1-24
	703.1.2	Insulation Installation 4-7
	703.1.5	Building Envelope Leakage 2-24
	901.11	Insulation 4

PRODUCT	CREDITS	POINTS
10. AirRenew® Gypsum Board	604.1	Recycled Content (AirRenew only) 2-6
	605.3	Recycled Construction Materials 1-6
	609.1	Regional Materials 2
11. Diamondback™ Tile Backer	611.1	Manufacturer's Environmental Management System Concepts 1-10
	503.4	Storm Water Management 2-7
	602.13	Roof Surfaces 3
	605.3	Recycled Construction Materials 1-6
12. Landmark Solaris™ PLATINUM Roofing Shingles	609.1	Regional Materials 2-10
	702.2	Energy Cost Performance Levels 30-120
	703.1	Building Envelope 10-36
	705.5	Additional Renewable Energy Options 1 per 100 watts
	604.1	Recycled Content 2-4
13. Apollo II® Solar Roofing System	609.1	Regional Materials 2-10
	611.1	Manufacturer's Environmental Management System Concepts 1-10
	702.2.2	Energy Cost Performance Levels 30-120
	703.3	Duct Systems Vary
	703.4.1	Water Heating Design, Equipment and Installation 1-8
	901.11	Insulation 4
14. SoftTouch™ Duct Wrap, ToughGard® R Duct Liner, ToughGard® T Duct Liner	903.1.1	Plumbing 2
	903.2	Duct Insulation 2
	601.7	Site Applied Finishing Materials 2-5
15. Panorama® Composite Railing	602.1.6	Termite-Resistant Materials (Panorama only) 2-6
16. EverNew® LT Cellular PVC Decking	604.1	Recycled Content (Panorama only) 1-3
	606.3	Manufacturing Energy 2
	609.1	Regional Materials 2-10
	601.7	Site Applied Finishing Materials 2-5
17. CertainTeed Acoustical Ceilings	604.1	Recycled Content 1-3
	605.3	Recycled Construction Materials 3
	606.3	Manufacturing Energy 1-6
	609.1	Regional Materials 2
	610.1.2	Life Cycle Analysis 15
	610.1.2.1	Product LCA Points 2-10

National Green Building Standard 2012: Standard Design (NGBS)



CertainTeed Product Contributions To NGBS: Standard Design Credits

National Green Building Standard, 2012



Note: Green text indicates product has been Green Certified by the Home Innovation Research Labs to automatically earn points for this particular credit. See individual product pages for certification numbers.

PRODUCT	CREDITS	POINTS
1. CedarBoards™ Insulated Vinyl Siding, Cedar Impressions® Polymer Shakes and Shingles	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	0.5-3
	609.1 Regional Materials	2-10
2. Restoration Millwork® Trim	610.1.2 Life Cycle Analysis	15
	610.1.2.1 Product LCA	2-10
	611.1 Manufacturer's Environmental Management System Concepts	1-10
	702.2 Energy Cost Performance Levels (CedarBoards only)	30-120
	703.1 Building Envelope (CedarBoards only)	10-36
3. WeatherBoards™ Fiber Cement Siding	601.7 Site Applied Finishing Materials (ColorMax® Finishing System only)	2-5
	602.8 Termite Resistant Materials	2-6
	604.1 Recycled Content	2-4
	609.1 Regional Materials	2-10
	610.1.2 Life Cycle Analysis	15
	610.1.2.1 Product LCA	2-10
4. CertaWrap™ Weather Resistant Barrier	602.1.5 Termite Barrier	4
	602.1.8 Water-Resistive Barrier	Mandatory
	602.1.2 Foundation Waterproofing	4
5. Sustainable Insulation™, MemBrain™ Smart Vapor Retarder & Air Barrier Film	604.1 Recycled Content	1-2
	606.1 Biobased Products	1-8
	609.1 Regional Materials	2-10
	610.1.2 Life Cycle Analysis	15
	610.1.2.1 Product LCA	2-10
	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
6. Easi-Lite™ Lightweight Gypsum Board	604.1 Recycled Content (AirRenew only)	2-6
	605.3 Recycled Construction Materials	1-6
7. Diamondback™ Tile Backer	609.1 Regional Materials	2
8. M2Tech® Gypsum Board	611.1 Manufacturer's Environmental Management System Concepts	1-10
	602.13 Roof Surfaces	3
9. Presidential Solaris™ Roofing Shingles	605.3 Recycled Construction Materials	1-6
	609.1 Regional Materials	2-10
	702.2 Energy Cost Performance Levels	30-120
	703.1 Building Envelope	10-36
	604.1 Recycled Content	2-4
10. ToughGard® T Duct Liner, Ultra*Duct™ Black Duct Board	609.1 Regional Materials	2-10
	611.1 Manufacturer's Environmental Management System Concepts	1-10
	702.2.2 Energy Cost Performance Levels	30-120
	703.3 Duct Systems	Vary
	703.4.1 Water Heating Design, Equipment and Installation	1-8
	901.11 Insulation	4
	903.1.1 Plumbing	2
	903.2 Duct Insulation	2
11. Panorama® Composite Railing	601.7 Site Applied Finishing Materials	2-5
12. EverNew® PT Wood Composite Decking	602.1.6 Termite-Resistant Materials (Panorama Only)	2-6
	604.1 Recycled Content (Panorama only)	1-3
	606.3 Manufacturing Energy	2
13. CertainTeed Acoustical Ceilings	609.1 Regional Materials	2-10
	601.7 Site Applied Finishing Materials	2-5
	604.1 Recycled Content	1-3
	605.3 Recycled Construction Materials	3
	606.3 Manufacturing Energy	1-6
	609.1 Regional Materials	2
	610.1.2 Life Cycle Analysis	15
	610.1.2.1 Product LCA	2-10

Understanding the role of CertainTeed Ceilings in meeting Green Building Standards and Codes

Interior Products

CertainTeed Ceilings' level of transparency is unparalleled in the industry. From Environmental Product Declarations (EPDs) and now Health Product Declarations (HPDs) to our nearly zero waste manufacturing facilities, our ceiling and wall products offer outstanding acoustical performance while contributing to earning points towards LEED and NGBS certification.

Our L'Anse, Michigan plant is located next to a biomass plant and receives electricity — including waste steam — that's used in our operations. Waste heat from the biomass plant is utilized in the manufacturing process, which reduces natural gas usage by 25%. By reducing our natural gas usage, we have reduced our carbon footprint by 18%, which has been third-party validated by GreenCircle Certified. In addition, water and manufacturing waste from the L'Anse facility is used to grow crops on nearby land, creating an almost zero waste facility.

We offer a recycling program for the return and recycling of old ceiling panels into new ones. Rather than send panels to landfills, project teams can qualify for LEED v4 points under the Materials and Resources credit: Construction and Demolition Waste Management.



Benjamin Russell Hospital for Children
Birmingham, AL
HKS, Inc. in partnership with Giattina Aycock Studio
LEED Gold

Linden Hall Academy
Lititz, PA
Chambers & Associates
LEED Gold

The first healthcare facility in Alabama, and one of the first of its kind in the U.S., to gain LEED Gold status as a result of its design and use of sustainable, energy-efficient and environmentally responsible materials, like CertainTeed's Decoustics® Claro ceiling panels.

Green Facts

- > CertainTeed Ceiling and Wall Systems offer outstanding acoustical performance, which can satisfy the acoustic prerequisite and credit in LEED® for Schools™ projects and acoustic credits within the LEED v4 rating system.
- > Our Ecophon® line of products – with 70% post-consumer recycled content – offers the highest post-consumer recycled content of any ceiling panels in North America.
- > Most CertainTeed ceiling and wall systems are certified VOC Compliant for formaldehyde emissions (CA Dept. of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010).
- > CertainTeed mineral fiber ceiling panels incorporate steel mill slag waste as well as pre-consumer waste such as newspaper.
- > More than 90% of manufacturing waste is recycled into CertainTeed Ceilings products.
- > Many CertainTeed Ceilings products have high light reflecting surfaces that can extend daylighting farther into a space. This allows for lower light fixture density, assisting with LEED v4 EQ Credit for Interior Lighting.
- > Decoustics Quadrillo®, Solo™ and Solo M™ ceiling panels have been certified by the Forest Stewardship Council, which helps projects earn points towards LEED and NGBS certification.
- > CertainTeed Ceilings' 5 EPDs and 8 HPDs assist in earning points for LEED v4 MR 2 and 4 credits.

CertainTeed Ceilings Product Contributions

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



NGBS (2012)
National Green Building Standard

CREDITS	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
604.1	Recycled Content	1-2
605.3	Recycled Construction Materials	3-6
606.1	Renewable Materials	1-8
606.3	Manufacturing Energy	2-6
609.1	Regional Materials	2-10
610.1.2	Life Cycle Analysis	3-10
610.1.2.1	Product LCA	2-10

LEED-H

CREDITS	DESCRIPTION	POSSIBLE POINTS
version 2009		
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
version 4		
Materials & Resources		
MR 3	Environmentally Preferable Products	0.5-4
MR 4	Construction Waste Management	0.5-3

IgCC
International Green Construction Code, 2012

CREDITS	DESCRIPTION	POSSIBLE POINTS
Jurisdictional Requirements & Life Cycle Assessment		
303.1	Whole Building Life Cycle Assessment	Req
Material Resource Conservation & Efficiency		
503.1	Construction Waste Management	Req
505.2.2	Recycled Content Building Materials	Req
505.2.3	Recyclable Building Materials and Building Components	Req
505.2.5	Indigenous Materials	Req
Energy Conservation, Efficiency & CO₂e Emission Reduction		
602.1.2	Base Annual Energy Use Index	Req
Indoor Environmental Quality & Comfort		
806.5	Acoustical Ceiling Tiles and Wall Systems	Req
807.2	Sound Transmission	Req
807.2.1	Interior Sound Transmission	Req
808.3	Daylit Area of Building Spaces	Req

LEED-CI
LEED Commercial Interiors, 2009 and v4

CREDITS	DESCRIPTION	POSSIBLE POINTS
version 2009		
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 View – Daylight	1-2
version 4		
Energy & Atmosphere		
EA 2	Minimum Energy Performance	Req
Prereq. 2		
EA 2	Optimize Energy Performance	1-25
Materials & Resources		
MR 2	Interiors Life-Cycle Impact Reduction Option 3	4
MR 3	Building Product Disclosure and Option 1 Optimization – Environmental Product Declaration	1-2
MR 4	Building Product Disclosure and Option 2 Optimization – Sourcing of Raw Materials	1-2
MR 5	Material Ingredient Reporting Option 1	1-2
MR 6	Construction and Demolition Waste Management	1-2
Environmental Quality		
EQ 2	Low Emitting Materials	3
EQ 7	Daylight	1-3
EQ 9	Acoustic Performance	2

CertainTeed Ceilings Plant Locations:  Ellenton, FL • L'Anse, MI • Plymouth, WI  Toronto, ON

LEED-NC, LEED-CS, LEED FOR SCHOOLS, LEED FOR HEALTHCARE & LEED FOR RETAIL

CREDITS	DESCRIPTION	POSSIBLE POINTS				
		NC	CS	Schools	HC	Retail
Energy & Atmosphere						
version 2009						
EA Prereq. 1	Minimum Energy Performance	Req	Req	Req	Req	Req
EA 1	Optimize Energy Performance	1-19	3-21	1-19	1-24	1-19
Materials & Resources						
MR 2	Construction Waste Management	1-2	1-2	1-2	1-2	1-2
MR 3	Sustainably Sourced Materials and Products	NA	NA	NA	1-4	NA
MR 4	Recycled Content	1-2	1-2	1-2	NA	1-2
MR 5	Regional Materials	1-2	1-2	1-2	NA	1-2
MR 6	Rapidly Renewable Materials	1	NA	1	NA	1
Indoor Environmental Quality						
IEQ Prereq. 3	Minimum Acoustical Performance	NA	NA	Req	NA	NA
IEQ 2	Acoustic Environment	NA	NA	NA	1-2	NA
IEQ 4	Low-Emitting Materials	NA	NA	NA	1-4	1-5
IEQ 4.6	Low-Emitting Materials – Ceiling and Wall Systems	NA	NA	1	NA	NA
IEQ 8.1	Daylight and Views – Daylight	1	1	1-3	2	1
IEQ 9	Enhanced Acoustical Performance	NA	NA	1	NA	NA
Energy & Atmosphere						
version 4						
EA Prereq. 1	Minimum Energy Performance	Req	Req	Req	Req	Req
EA 2	Optimize Energy Performance	1-18	1-18	1-16	1-20	1-18
Materials & Resources						
MR 1 Option 4	Building Life Cycle Impact Reduction	5	5	5	5	5
MR 2 Option 1	Building Product Disclosure and Optimization – Environmental Product Declaration	2	2	2	2	2
MR 3 Option 2	Building Product Disclosure and Optimization – Sourcing of Raw Materials	2	2	2	2	2
MR 4 Option 1	Material Ingredient Reporting	2	2	2	2	2
MR 5	Construction and Demolition Waste Management	1-2	1-2	2	1-2	1-2
Indoor Environmental Quality						
EQ 2	Low Emitting Interiors	3	3	3	3	3
EQ 9	Acoustic Performance	1	1	1	2	NA



Committed to ecological transparency, CertainTeed Ceilings partnered with the Health Product Declaration Collaborative™ in 2013 and introduced the ceiling industry's first Health Product Declarations (HPDs). Eight HPDs encompassing 40 different product families along with the five Environmental Product Declarations (EPDs) published two years ago further provide a vehicle for product transparency.

These EPDs and HPDs can help contribute in achieving points in LEED v4 MR credits 2 and 4. For more information about EPDs, HPDs and other sustainability efforts, please visit our website at certainteed.com/Ceilings.



CALgreen

California Green Construction Code 2010

CREDITS	DESCRIPTION	POSSIBLE POINTS
Nonresidential Mandatory Measures		
5.507.4.2	Interior Sound	Req
Residential Voluntary Measures		
A4.405.3	Recycled Content	Req
A4.405.4	Use of Building Materials from Renewable Sources	Req
Nonresidential Voluntary Measures		
A5.405.1	Regional Materials	Req
A5.405.2.2	Rapidly Renewable Materials	Req
A5.405.4	Recycled Content, Tier 1 [Dsa-Ss]	Req
	Recycled Content	
A5.405.4.1	A5.405.4.1 Recycled Content, Tier 2	Req
A5.406.1.3	Recyclability	
A5.409.1	Materials and System Assemblies	Req
A5.504.4.9	Acoustical Ceilings and Wall Panels	Req
A5.507.5	Acoustical Control	Req

GREEN GLOBES

Green Globes Rating System v1

CREDITS	DESCRIPTION	POSSIBLE POINTS
Project Management		
A.2	Environmental Purchasing	50
Energy		
C.1	Energy Consumption	110
C.2	Energy Demand Minimization	135
C2.4	Daylighting	4
Resources, Building Materials and Solid Waste		
E.2.2	Recycled Post-Consumer	10
E.2.3	Bio-Based Products	5
E.5.1	Construction, Demolition and Renovation Waste Diversion	6
Indoor Environment		
G.2.1	Moisture Tolerant Materials	1
G.5.3	Sound Attenuation and Measure to Insulate Primary Space from Noise	5



Case Study: El Paso Corporation Office Building

Challenge: Renovate a 32-story historic office building to meet LEED certification and the stringent acoustic requirements involved in converting a closed office design to an open plan office space.

Influences: Acoustic control and performance played a key role in the ceiling design and installation. Removing walls could cause considerable disruption to employees; therefore, ceilings needed to absorb as much sound as possible. At the same time, a flexible ceiling design solution had to accommodate rearrangement of modular walls. Equally important, the project required high-performing green products that would best contribute to LEED credits.

Solution: CertainTeed delivered a ceiling solution that offered industry-leading sustainable appeal and outstanding acoustic benefits. Specifically, our Ecophon® Gedina™ high-density fiberglass ceiling panels absorbed sound and reduced the distance noise travels, making the space quieter. In addition, Ecophon offered low VOC emissions, natural mold resistance, high moisture durability and the highest recycled content of any North American ceiling product. The ceilings system was easy to install, which is especially important on such a large-scale project. Ecophon worked so well that when the building's new owner made changes to the design layout, the acoustic and IAQ solutions remained effective.

Understanding the role of CertainTeed Gypsum in meeting Green Building Standards and Codes

Interior Products

CertainTeed Gypsum is committed to preservation of natural resources, recycling, waste management and reclamation in its operations. As part of Saint-Gobain, the world's largest gypsum board manufacturer, CertainTeed Gypsum is a leader in the effort to provide building materials that promote sustainable design.

CertainTeed offers innovative gypsum products that can contribute to the built environment's indoor air quality, acoustics management, fire resistance, durability and recycled material content. Our gypsum board, paperless glass mat board, finishing compound and joint tape manufacturing locations can provide regional materials coverage throughout North America.

Montage Deer Valley Resort
Park City, UT
HKS Hill Glazier Studio
LEED Silver



Green Facts

- > Sustainable gypsum solutions from CertainTeed include paperless exterior sheathing, area separation firewall and shaftwall, abuse- and impact-resistant board, moisture- and mold-resistant board for walls and ceilings, glass mat tile backer, corner reinforcements, and finishing products to help maintain healthy indoor environments.
- > Innovative AirRenew® Indoor Air Quality gypsum board is the first of its kind to clean the air. AirRenew helps improve IAQ by actively capturing formaldehyde from the indoor environment and safely converting it into an inert compound. AirRenew can be installed, finished, renovated and recycled like standard gypsum board.
- > AirRenew®, SilentFX®, Diamondback® and M2Tech® board and select finishing products and systems have achieved the best scores possible for mold resistance per ASTM standards. Third-party certifications include GREENGUARD® Gold Certification, GREENGUARD Certified, UL Environment ECV validated, EcoLogo™ and NGBS Green Certified products.
- > CertainTeed Gypsum is committed to resource conservation:
 - Energy, water and waste reduction programs at all plants across U.S. and Canada.
 - Up to 100% recycled face and back paper on gypsum board.
 - Total recycled content is up to 99% for CertainTeed Gypsum wallboard products using synthetic gypsum.

The LEED® Silver certified Montage Deer Valley ski resort, spa and luxury residences participated in the U.S. EPA's ER3 program for responsible reuse and redevelopment of a brownfield site. The project was also selected for Saint-Gobain Gypsum's International Trophy Competition held in London in 2012.

CertainTeed Gypsum Product Contributions

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

NGBS (2012)

(National Green Building Standard, 2008)

CREDITS	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
604.1	Recycled Content	2-6
605	Recycled Construction Waste	6
609.1	Regional Materials	2-10
611.1	Manufacturer's Environmental Management System Concepts	1-10



Note: Green text indicates qualifying CertainTeed products that have been Green Certified by the Home Innovation Research Labs to automatically earn points for this particular credit.
 • CertainTeed, M2Tech, AirRenew and Easi-Lite Gypsum Board Product: #00219

IgCC

International Green Construction Code, 2012

CREDITS	DESCRIPTION	POSSIBLE POINTS
Material Resource Conservation & Efficiency		
505.1	Material Selection and Properties	Req
505.2.2	Recycled Content Building Materials	Req
505.2.3	Recyclable Building Materials and Building Components	Req
505.2.5	Indigenous Materials	Req
Indoor Environmental Quality & Comfort		
806.5	Acoustical Ceiling Tiles and Wall Systems	Req
807.2	Sound Transmission	Req
807.2.1	Interior Sound Transmission	Req

LEED-CI

LEED Commercial Interiors (2009 and v4)

CREDITS	DESCRIPTION	POSSIBLE POINTS
version 2009		
Materials & Resources		
MR 2	Construction Waste Management	1-2
MR 4	Recycled Content	1-2
MR 5	Regional Materials	1-2
version 4		
Materials & Resources		
MR 3	Building Product Disclosure and Option 2 Optimization – Sourcing of Raw Materials	1-2
MR 5	Construction and Demolition Waste Management	1-2
Environmental Quality		
EQ2	Low Emitting Materials	3
EQ 9	Acoustic Performance	2

LEED-H

LEED H (2009 and v4), LEED for Canada: Homes 2009

CREDITS	DESCRIPTION	POSSIBLE POINTS
version 2009		
Materials & Resources		
MR 2.2	Environmentally Preferable Products – Materials	0.5
MR 2.2	Environmentally Preferable Products – Local	0.5
version 4		
Materials & Resources		
MR 3	Environmentally Preferable Products	0.5-4

CALgreen

California Green Construction Code, 2010

CREDITS	DESCRIPTION	POSSIBLE POINTS
Nonresidential Mandatory Measures		
5.507.4.2	Interior Sound	Req
Residential Voluntary Measures		
A4.405.3	Recycled Content	Req
Nonresidential Voluntary Measures		
A5.405.1	Regional Materials	Req
A5.405.4	Recycled Content, Tier 1 [Dsa-Ss] Recycled Content	Req
A5.405.4.1	Recycled Content, Tier 2	Req
A5.504.4.9	Acoustical Ceilings and Wall Panels	Req
A5.507.5	Acoustical Control	Req

GREEN GLOBES

Green Globes Standard v1

CREDITS	DESCRIPTION	POSSIBLE POINTS
Project Management		
A.2	Environmental Purchasing	50
Resources, Building Materials & Solid Waste		
E.2.2	Recycled Post-Consumer	10
E.5.1	Construction, Demolition and Renovation Waste Diversion	6
Indoor Environment		
G.2.1	Moisture Tolerant Materials	1
G.5.3	Sound Attenuation and Measure to Insulate Primary Space from Noise	5

CertainTeed Gypsum Plant Locations:



Carrollton, KY • Cody, WY • Fort Dodge, IA • Junction City, KS
 Kent, WA • Las Vegas, NV • Moundsville, WV • Napa, CA • Nashville, AR
 Roxboro, NC • Seattle, WA



Calgary, AB • McAdam, NB • Montreal, QC • Oakville, ON
 Toronto, ON • Vancouver, BC • Winnipeg, MB

LEED-NC, LEED-CS, LEED FOR SCHOOLS, LEED FOR HEALTHCARE & LEED FOR RETAIL

CREDITS DESCRIPTION

POSSIBLE POINTS

Materials & Resources

CREDITS	DESCRIPTION	POSSIBLE POINTS				
		NC	CS	Schools	HC	Retail
version 2009						
MR 2	Construction Waste Management	1-2	1-2	1-2	1-2	1-2
MR 3	Sustainably Sourced Materials and Products	NA	NA	NA	1-4	NA
MR 4	Recycled Content	1-2	1-2	1-2	NA	1-2
MR 5	Regional Materials	1-2	1-2	1-2	NA	1-2

Indoor Environmental Quality

IEQ Prereq. 3	Minimum Acoustical Performance	NA	NA	Req	NA	NA
IEQ 2	Acoustic Environment	NA	NA	NA	1-2	NA
IEQ 4	Low-Emitting Materials	NA	NA	NA	1-4	1-5
IEQ 4.6	Low-Emitting Materials – Ceiling and Wall Systems	NA	NA	1	NA	NA
IEQ 9	Enhanced Acoustical Performance	NA	NA	1	NA	NA
IEQ 10	Mold Prevention	NA	NA	1	NA	NA

Materials & Resources

CREDITS	DESCRIPTION	POSSIBLE POINTS				
		NC	CS	Schools	HC	Retail
version 4						
MR 3 Option 2	Building Product Disclosure and Optimization – Sourcing of Raw Materials	2	2	2	2	2
MR 5	Construction and Demolition Waste Management	1-2	1-2	2	1-2	1-2

Indoor Environmental Quality

EQ 2	Low Emitting Interiors	3	3	3	3	3
EQ 9	Acoustic Performance	1	NA	1	1-2	1



Winsport Canada Arena
Calgary, AB Canada
GEC Architecture
LEED Silver designed



3 Palms Passive House
Ventura County, CA
Alliance Design Group
LEED Platinum



Case Study: 3 Palms Passive House

Challenge: Build a home that balances form and functionality while meeting the highest standards available for green residential building.

Influences: One of the client's green building goals was to ensure high indoor air quality while avoiding potential sources of volatile organic compounds (VOCs), the most common pollutant of indoor air. The client worked in collaboration with the project designer, architect and builder to ensure the home received LEED for Homes Platinum and Passive House Institute US certifications, employing passive-house design techniques and choosing a combination of high-performance materials.

Solution: CertainTeed's AirRenew® IAQ gypsum board served as an important component of the VOC reduction strategy. AirRenew actively helps clean indoor air by capturing VOCs such as formaldehyde and converting them into inert compounds that safely remain within the board. As new sources of formaldehyde — such as paint, rugs, new carpeting, furniture and cleaning supplies — are potentially introduced to the interior environment over time, AirRenew gypsum board will continue to scavenge VOCs and ultimately improve indoor air quality.

Understanding the role of CertainTeed Insulation in meeting Green Building Standards and Codes

Interior Products

CertainTeed Insulation products by their very nature improve building efficiency and reduce energy consumption for the life of the structure. In fact, a typical pound of fiber glass insulation saves 12 times as much energy in the first year as was required to produce it. The primary raw material used to make fiber glass is sand – an inert, abundant, and naturally renewing resource. Our fiber glass products on average contain 20-70% recycled content (pre-and post-consumer). CertainTeed's sustainable binder is plant based, contains no added formaldehyde, acrylics, dyes or unnecessary fire retardants.

All CertainTeed fiber glass building insulation is GREENGUARD Gold certified, ensuring very low or no emissions of volatile organic compounds (VOCs), including formaldehyde, and its recycled content is third-party verified by product and plant. EPDs (Environmental Product Declarations) are used to present life cycle analysis data conducted on fiber glass building insulation. An HPD (Health Product Declaration) has been published and is used to understand the chemical ingredients within our batt insulation products.



Johnson County Community College,
Galileo's Pavilion
Overland Park, KS
Studio 804
LEED Platinum

Green Facts

- > Airtightness, thermal comfort and acoustics are key foundational elements when designing a sustainable building with superior comfort. CertainTeed's breadth of products combine to deliver maximum comfort and value.
- > FortiCel™ protective coating helps prevent mold growth on structural framing surfaces before insulation is installed, increasing the durability of a structure while helping to maintain better indoor air quality.
- > MemBrain™, CertainTeed's patented smart vapor retarder and air barrier film, helps keep moisture out of wall cavities, reducing the risk of damaging mold growth and helping to maintain better indoor air quality. MemBrain's air sealing qualities also improve acoustics and thermal performance.
- > Sustainable Insulation® contains recycled and renewable content meeting thermal and acoustic requirements.
- > Our premium blowing wool products, InsulSafe® SP and OPTIMA®, deliver thermal and sound-absorbing properties.
- > CertaSpray® spray polyurethane foam insulation provides an effective air seal, moisture control, excellent thermal comfort and acoustic performance.
- > CertainTeed's deep understanding of building science principles and wide breadth of products enables us to offer hybrid insulation solutions using multiple products.
- > ToughGard® duct liner can minimize background HVAC system noise, helping to contribute thermally and to acoustical performance credits.

CertainTeed Insulation Product Contributions

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



CREDITS	DESCRIPTION	POSSIBLE POINTS
NGBS (2012) (National Green Building Standard, 2012)		
Resource Efficiency		
604.1	Recycled Content	1-2
609.1	Regional Materials	2-10
610.1	Life Cycle Analysis	3
610.1.2.1	Product LCA	2-10
611.1	Manufacturer's Environmental Management System Concepts	1-10
Energy Efficiency		
702.2.2	Energy Cost Performance Levels	30-120
703.1	Building Envelope	10-36
703.1.2	Insulation Installation	4-7
703.4.1	Water Heating Design, Equipment and Installation	1
703.1.5	Building Envelope Leakage	2-24
Indoor Environmental Quality		
901.11	Insulation/Duct	5
903.1	Plumbing	2
903.2	Duct Insulation	2



Note: Green text indicates qualifying CertainTeed products that have been Green Certified by the Home Innovation Research Labs to automatically earn points for this particular credit.

- Premium blowing wool: #00048
- SoftTouch duct wrap insulation: #00213
- Sustainable Insulation batt and roll insulation: #00187
- Fiber glass batt and roll insulation: #00188
- Universal Blanket, Commercial Board, OEM Board, High Temperature Blanket, AcoustaBlanket Black: #00211
- Ultra*Duct black duct board: #00214
- ToughGard rotary duct liner; Rigid Liner Board: #00212
- CertaSpray open and closed cell spray foam insulation: not available, see Home Innovation Research Labs website

CREDITS	DESCRIPTION	POSSIBLE POINTS
IgCC International Green Construction Code, 2012		
Jurisdictional Requirements & Life Cycle Assessment		
303.1	Whole Building Life Cycle Assessment	Req
Material Resource Conservation and Efficiency		
505.1	Material Selection and Properties	Req
505.2.2	Recycled Content Building Materials	Req
505.2.5	Indigenous Materials	Req
Energy Conservation, Efficiency & CO₂e Emission Reduction		
602.1.1	zEPI (zero energy performance index)	5
605.1	Prescriptive-based Compliance (Building Envelope Systems)	2
605.1.1	Insulation and Fenestration Criteria	2
605.1.2	Air Leakage	Req
605.1.2.1	Air Barriers	Req
606.3	Duct and Plenum Insulation, Sealing and Testing	Req
606.3.1	Duct Air Leakage Testing	Req
606.4	Heating, Ventilation and Air-Conditioning (HVAC) Piping Insulation	Req
607.6	Service Water Heating Piping Insulation	Req
Indoor Environmental Quality & Comfort		
803.2	Thermal Environmental Conditions for Human Occupancy	Req
806.6	Insulation	Req
807.2	Sound Transmission	Req
807.2.1	Interior Sound Transmission	Req
807.4	Structure-Borne Sounds	Req

CREDITS	DESCRIPTION	POSSIBLE POINTS
LEED-CI LEED Commercial Interiors (2009 and v4)		
version 2009		
Energy & Atmosphere		
EA 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
Environmental Quality		
IEQ 7.1	Thermal Comfort - Design	1
version 4		
Energy & Atmosphere		
EA	Minimum Energy Performance	Req
Prereq. 2		
EA 2	Optimize Energy Performance	1-25
Materials & Resources		
MR 2	Interiors Life-Cycle Impact Reduction	4
Option 3		
MR 3	Building Product Disclosure and Optimization – Environmental Product Declaration	1-2
Option 1		
MR 4	Building Product Disclosure and Optimization – Sourcing of Raw Materials	1-2
Option 2		
Environmental Quality		
EQ 2	Low Emitting Materials	3
EQ 5	Thermal Comfort	1
EQ 9	Acoustic Performance	2

Interior Products

LEED-H,

LEED H (2009 and v4), LEED for Canada: Homes: 2009

CREDITS DESCRIPTION POSSIBLE POINTS

version 2009

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

version 4

Energy & Atmosphere

EA 1 Minimum Energy Performance Req

EA 1 Annual Energy Use 1-29

EA 7 Air Infiltration 1-2

EA 8 Envelope Insulation 1-2

EA 11 Heating and Cooling Distribution Systems 3

Materials & Resources

MR 3 Environmentally Preferable Products Option 2 1-4

Environmental Quality

EQ 7 Low-Emitting Products 0.5-3

LEED-NC, LEED-CS, LEED FOR SCHOOLS, LEED FOR HEALTHCARE & LEED FOR RETAIL

CREDITS DESCRIPTION

POSSIBLE POINTS

NC CS Schools HC Retail

version 2009

Energy & Atmosphere

EA Prereq. 2 Minimum Energy Performance Req Req Req Req Req

EA 1 Optimize Energy Performance 1-19 3-21 1-19 1-24 1-19

Materials & Resources

MR 3 Sustainably Sourced Materials and Products NA NA NA 1-4 NA

MR 4 Recycled Content 1-2 1-2 1-2 NA 1-2

MR 5 Regional Materials 1-2 1-2 1-2 NA 1-2

MR 6 Rapidly Renewable Materials 1 NA 1 NA 1

Indoor Environmental Quality

IEQ Prereq. 3 Minimum Acoustical Performance NA NA Req NA NA

IEQ 2 Acoustic Environment NA NA NA 1-2 NA

IEQ 4 Low-Emitting Materials NA NA NA 1-4 1-5

IEQ 4.6 Low-Emitting Materials – Ceiling and Wall Systems NA NA 1 NA NA

IEQ 7 Thermal Comfort NA NA NA 1 NA

IEQ 7.1 Thermal Comfort – Design 1 1 1 NA 1

IEQ 9 Enhanced Acoustical Performance NA NA 1 NA NA

version 4

Energy & Atmosphere

EA Prereq. 1 Minimum Energy Performance Req Req Req Req Req

EA 2 Optimize Energy Performance 1-18 1-18 1-16 1-20 1-18

Materials & Resources

MR 1 Building Life Cycle Impact Reduction Option 4 5 5 5 5 5

MR 2 Building Product Disclosure and Option 1 Optimization – Environmental Product Declaration 2 2 2 2 2

MR 3 Building Product Disclosure and Option 2 Optimization – Sourcing of Raw Materials 2 2 2 2 2

Indoor Environmental Quality

EQ 2 Low Emitting Interiors 3 3 3 3 3

EQ 5 Thermal Comfort 1 NA 1 1 1

EQ 9 Acoustic Performance 1 NA 1 1-2 1

CALgreen

California Green Construction Code, 2010

CREDITS	DESCRIPTION	POSSIBLE POINTS
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Nonresidential Mandatory Measures

5.507.4.1	Exterior Noise Transmission	Req
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Residential Voluntary Measures

A4.206.1	Reduced Infiltration	Req
A4.405.3	Recycled Content	Req
A4.405.4	Use of Building Materials from Renewable Sources	Req
A4.504.3	Thermal Insulation	Req

Nonresidential Voluntary Measures

A5.203.1	Energy Performance	Req
A5.205.3	Insulation and Roofing Products	Req
A5.205.3.1	Certification by Manufacturers	Req
A5.205.3.4	Installation of Insulation in Existing Buildings	Req
A5.205.3.4.1	Attics	Req
A5.205.3.4.2	Water Heaters	Req
A5.205.3.4.3	Ducts	Req
A5.405.1	Regional Materials	Req
A5.405.2.2	Rapidly Renewable Materials	Req
A5.405.4	Recycled Content, Tier 1 [DSA-SS] Recycled Content	Req
A5.405.4.1	Recycled Content, Tier 2	Req
A5.504.4.8	Thermal Insulation	Req
A5.507.5	Acoustical Control	Req

GREEN GLOBES

Green Globes Standard v1

CREDITS	DESCRIPTION	POSSIBLE POINTS
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Project Management

A.2	Environmental Purchasing	50
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Energy

C.1	Energy Consumption	110
C.2	Energy Demand Minimization	135
C.2.6	Thermal Resistance Meets ASHRAE 90.1-2004	10
C.3	"Right-Sized" Energy Efficiency Features	110

Resources, Building Materials & Solid Waste

E.2	Minimized Consumption and Depletion of Material Resources	30
E.2.2	Recycled Post-Consumer	10
E.2.3	Bio-based Products	5

Indoor Environment

G.2.1	Moisture Tolerant Materials	1
G.4.1	Conform to ANSI 55-2004	20
G.5.3	Sound Attenuation and Measure to Insulate Primary Space from Noise	5



Greensburg High School,
Greensburg, KS
BNIM Architects
LEED Platinum

Understanding the role of CertainTeed Fence, Railing and Decking in meeting Green Building Standards and Codes

CertainTeed Fence, Railing and Decking supports sustainable building and manufacturing practices and offers a comprehensive line of environmentally friendly products. CertainTeed fence does not require chemical treatment or painting. Our fence, railing and decking products are termite resistant and feature a long life span and low maintenance. Our products also contain recycled content, which helps to conserve natural resources.

Beautiful, durable and virtually maintenance-free, CertainTeed fence, railing and decking systems and accessories come in a wide array of colors, textures and sizes, making it easy to create beautiful outdoor spaces that are friendly to the environment.

Atria Woodbriar Independent and Assisted Living Community
Falmouth, MA
Peter Schmidt, Architect



Chesterfield CertaGrain® privacy fence in Arctic Blend and Manchester picket fence in White.

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, ISO14001 Certified, is a closed loop water system that saves more than 372 million gallons of water per year.
- > The Buffalo plant has a strong recycling program that includes cardboard, paper, oil, metals (i.e., steel and aluminum), plastics and wood that diverted over one million pounds of waste from landfills in 2011.
- > Our fence, deck and railing products are Green Certified for NGBS practices through the Home Innovation Research Lab.
- > Our fence railing and deck products are termite resistant, feature a long life span and low maintenance, and also contain recycled content which helps to conserve natural resources.
- > CertainTeed's composite products feature a minimum 25-year product life, require little maintenance and contain a minimum of 90% recycled content.
- > Our fence, railing and deck products require NO chemical treatment or painting.
- > All CertainTeed fence, railing and deck products are non-porous, and inhibit mold or rot on their surfaces.
- > EverNew® PT deck contains 74% recycled content. EverNew® LT Cellular PVC Decking contains 27% recycled content.

CertainTeed Fence, Railing and Decking Product Contributions

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



NGBS (2012)

National Green Building Standard, 2012

CREDITS	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
601.7	Site-Applied Finishing Materials	2-5
602.1.6	Termite-Resistant Materials (Green Approved for railing and decking only)	2-5
604.1	Recycled Content (Green Approved for Panorama only)	1-3
606.3	Manufacturing Energy	2
609.1	Regional Materials	2-10
611.1	Manufacturer's Environmental Management System Concepts (Green Approved)	1-10



Note: Green text indicates qualifying CertainTeed products that have been Green Certified by the Home Innovation Research Labs to automatically earn points for this particular credit.

- CertainTeed Panorama Composite Railing: #00218
- CertainTeed Vinyl Railing & Decking: #00069

LEED-H

LEED H (2009 and v4), LEED for Canada: Homes 2009

CREDITS	DESCRIPTION	POSSIBLE POINTS
version 2009		
Materials & Resources		
MR 2.2	Environmentally Preferable Products – Materials	0.5
MR 2.2	Environmentally Preferable Products – Local	0.5
version 4		
Materials & Resources		
MR 3	Environmentally Preferable Products	1-4

IgCC

International Green Construction Code, 2012

CREDITS	DESCRIPTION	POSSIBLE POINTS
Material Resource Conservation & Efficiency		
505.1	Material Selection and Properties	Req
505.2.2	Recycled Content Building Materials	Req
505.2.3	Recyclable Building Materials and Building Components	Req

CALgreen

California Green Construction Code, 2010

CREDITS	DESCRIPTION	POSSIBLE POINTS
Residential Voluntary Measures		
A4.405.3	Recycled Content	Req
Non-Residential Voluntary Measures		
A5.405.4	Recycled Content, Tier 1 [DSA-SS]	Req
A5.405.4.1	Recycled Content, Tier 2	Req

LEED-NC, LEED-CS, LEED FOR SCHOOLS, LEED FOR HEALTHCARE & LEED FOR RETAIL

CREDITS	DESCRIPTION	POSSIBLE POINTS				
		NC	CS	Schools	HC	Retail
version 2009						
Materials & Resources						
MR 3	Sustainably Sourced Materials and Products	NA	NA	NA	1-4	NA
MR 4	Recycled Content	1-2	1-2	1-2	NA	1-2
version 4						
MR 3	Building Product Disclosure and Optimization – Option 2	2	2	2	2	2
	Sourcing of Raw Materials					

GREEN GLOBES

Green Globes Standard v1

CREDITS	DESCRIPTION	POSSIBLE POINTS
Energy		
C.2.2	Wind-mitigating Measures	5
Resources, Building Materials & Solid Waste		
E.2.2	Recycled Post-Consumer	10

CertainTeed Fence, Railing and Decking Plant Locations:



Buffalo, NY

CertainTeed Fiber Cement Siding, Soffit and Trim Product Contributions

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



NGBS (2012)

National Green Building Standard, 2012

CREDITS	DESCRIPTION	POSSIBLE POINTS
Resource Efficiency		
607.1	No Site-Applied Finishing Materials (ColorMax only)	2-5
602.1.6	Termite-Resistant Materials	2-6
604.1	Recycled Content	1-2
609.1	Regional Materials	2-10
610.1	Life Cycle Analysis	3
611.1	Products Manufacturer's Operations are ISO 14001 Certified	1-3



Home Innovation
NGBS GREEN CERTIFIED™

Note: Green text indicates qualifying CertainTeed products that have been Green Certified by the Home Innovation Research Labs to automatically earn points for this particular credit.

- WeatherBoards Siding, Soffit and Trim: #00060
- WeatherBoards Siding, Soffit and Trim with the ColorMax Finishing System in Solid Colors or Stains: #00061

GREEN GLOBES

Green Globes Standard v1

CREDITS	DESCRIPTION	POSSIBLE POINTS
Project Management		
A.2	Environmental Purchasing	50
Resources, Building Materials & Solid Waste		
E.1.1	Assemblies and Materials Chosen Based on LCA using ATHENA Environmental Impact Estimator or NIST BEES	10
Emissions & Other Impacts		
F.5	Integrated Pest Management	4
F.5.1	Pest Resistant Materials and Building Assemblies Used	1

CALgreen

California Green Construction Code, 2010

CREDITS	DESCRIPTION	POSSIBLE POINTS
Residential Voluntary Measures		
A4.405.1	Prefinished Building Materials	Req
A4.405.3	Recycled Content	Req
Nonresidential Voluntary Measures		
A5.405.1	Regional Materials	Req
A5.405.4	Recycled Content, Tier 1 [DSA-SS] Recycled Content	Req
A5.405.4.1	Recycled Content, Tier 2	Req
A5.406.1.2	Reduced Maintenance	Req
A5.409.1	Materials and System Assemblies	Req

LEED-NC, LEED-CS, LEED FOR SCHOOLS, LEED FOR HEALTHCARE & LEED FOR RETAIL

CREDITS	DESCRIPTION	POSSIBLE POINTS				
		NC	CS	Schools	HC	Retail
Materials & Resources						
version 2009						
MR 3	Sustainably Sourced Materials and Products	NA	NA	NA	1-4	NA
MR 4	Recycled Content	1-2	1-2	1-2	NA	1-2
MR 5	Regional Materials	1-2	1-2	1-2	NA	1-2
Materials & Resources						
version 4						
MR 1 Option 4	Building Life Cycle Impact Reduction	5	5	5	5	5
MR 2 Option 1	Building Product Disclosure and Optimization – Environmental Product Declarations	2	2	2	2	2
MR 3 Option 2	Building Product Disclosure and Optimization – Sourcing of Raw Materials	2	2	2	2	2

LEED-H

LEED H (2009 and v4), LEED for Canada: Homes, 2009

CREDITS	DESCRIPTION	POSSIBLE POINTS
version 2009		
Materials & Resources		
MR 2.2	Environmentally Preferable Products – Local	0.5

IgCC

International Green Construction Code, 2012

CREDITS	DESCRIPTION	POSSIBLE POINTS
Jurisdictional Requirements & Life Cycle Assessment		
303.1	Whole Building Life Cycle Assessment	Req
Material Resource Conservation & Efficiency		
505.2.2	Recycled Content Building Materials	Req
505.2.5	Indigenous Materials	Req

CertainTeed Fiber Cement Siding Plant Locations:  North Wilkesboro, NC • Terre Haute, IN • White City, OR

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

Exterior Products



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 up to 73% post-consumer and pre-consumer recycled content, which can contribute to earning points within the LEED-H and National Green Building Standards programs. Using Cedar Impressions Polymer Shakes 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 NGBS certification points.

GridSTAR Net Zero Energy Demonstration Structure at The Philadelphia Navy Yard — a demonstration of Saint-Gobain Multi-Comfort principles
Philadelphia, PA
Philadelphia Industrial Development Corporation (PIDC)
LEED Platinum (projected)



CertainTeed vinyl siding is a closed loop product, reusing old vinyl siding to make new vinyl siding in its take-back program.

Green Facts

- > CertainTeed Siding Products Group has developed a corporate sustainability strategy for reducing energy use, water use and waste, and has conducted Life Cycle Assessments (LCAs) of the siding products in order to provide transparency to its customers and better understand and improve its products' performance. Our LCA is approved by NIST for use with BEES in its product selection program.
- > 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 Shakes and Shingles, CedarBoards insulated siding, vinyl siding and Restoration Millwork® product lines, practically eliminating landfill waste from manufacturing these products.
- > Our vinyl siding, insulated siding, polymer shakes, vinyl soffits and PVC trim are all Green Certified for NGBS practices through the Home Innovation Research Labs.
- > CedarBoards D6 contains up to 73% pre- and post-consumer recycled material, and can help with noise reduction.
- > CertainTeed's vinyl and polymer manufacturing facilities have been certified by ISO 14001 to meet their stringent environmental management guidelines.
- > Installation of Cedar Impressions Polymer Shakes and Shingles, CedarBoards insulated siding, vinyl siding and Restoration Millwork eliminates the need for paint and caulk, decreasing maintenance and the project's environmental and economic impact.

CertainTeed Polymer Shakes and Shingles, Vinyl Siding and Trim Product Contributions

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



NGBS (2012)

National Green Building Standard, 2012

CREDITS DESCRIPTION POSSIBLE POINTS

Resource Efficiency

601.7	Site-Applied Finishing Materials	2-5
602.1.6	Termite-Resistant Materials	2-6
604.1	Recycled Content	2-4
605.3	Recycled Construction Materials	3
609.1	Regional Materials	2-10
610.1.2.1	Life Cycle Analysis	3
611.1	Manufacturer's Environmental Management System Concepts	1-10

Energy Efficiency

702.2	Energy Cost Performance Levels (CedarBoards only)	30-120
703.1	Building Envelope (CedarBoards only)	10-36



Home Innovation
NGBS GREEN CERTIFIED™

Note: Green text indicates qualifying CertainTeed products that have been Green Certified by the Home Innovation Research Labs to automatically earn points for this particular credit.

- Cedar Impressions: #00051
- CertainTeed and Vytec Vinyl Siding and Soffit: #00059
- CedarBoards Insulated Siding: #00050
- Restoration Millwork: #00052

LEED-NC, LEED-CS, LEED FOR SCHOOLS, LEED FOR HEALTHCARE & LEED FOR RETAIL

CREDITS DESCRIPTION

POSSIBLE POINTS

Energy & Atmosphere

EA	Minimum Energy Performance (CedarBoards only)
Prereq. 2	
EA 1	Optimize Energy Performance (CedarBoards only)

Materials & Resources

MR 2	Construction Waste Management (Vinyl Siding only)
MR 3	Sustainably Sourced Materials and Products
MR 4	Recycled Content (CedarBoards D6 and Restoration Millwork only)
MR 5	Regional Materials (Restoration Millwork only)

Indoor Environmental Quality

IEQ 7	Thermal Comfort (CedarBoards D6 only)
IEQ 7.1	Thermal Comfort – Design (CedarBoards D6 only)

Energy & Atmosphere

EA	Minimum Energy Performance (CedarBoards D6 only)
Prereq. 1	
EA 2	Optimize Energy Performance (CedarBoards D6 only)

Materials & Resources

MR 1	Building Life Cycle Impact Reduction
Option 4	
MR 2	Building Product Disclosure and Optimization – Environmental Product Declarations
Option 1	
MR 3	Building Product Disclosure and Optimization – Sourcing of Raw Materials
Option 2	
MR 5	Construction and Demolition Waste Management (Vinyl Siding only)

Indoor Environmental Quality

EQ 5	Thermal Comfort (CedarBoards D6 only)
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version 2009

	NC	CS	Schools	HC	Retail
EA	Req	Req	Req	Req	Req
EA 1	1-19	3-21	1-19	1-24	1-19
MR 2	1-2	1-2	1-2	1-2	1-2
MR 3	NA	NA	NA	1-4	NA
MR 4	1-2	1-2	1-2	NA	1-2
MR 5	1-2	1-2	1-2	NA	1-2
IEQ 7	NA	1	NA	1	NA
IEQ 7.1	1	NA	1	NA	1

version 4

	NC	CS	Schools	HC	Retail
EA	Req	Req	Req	Req	Req
EA 2	1-18	1-18	1-16	1-20	1-18
MR 1	5	5	5	5	5
MR 2	2	2	2	2	2
MR 3	2	2	2	2	2
MR 5	1-2	1-2	2	1-2	1-2
EQ 5	1	NA	1	1	1

CertainTeed Polymer Shakes and Shingles, Vinyl Siding and Trim Plant Locations:



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

LEED-H

LEED for Homes (2009 and v4), LEED for Canada: 2009

CREDITS	DESCRIPTION	POSSIBLE POINTS
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version 2009

Energy & Atmosphere

EA 1	Optimize Energy Performance (CedarBoards only)	1-34
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Materials & Resources

MR 2.2	Environmentally Preferable Products – Materials (CedarBoards D6 only)	0.5
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MR 2.2	Environmentally Preferable Products – Local (Restoration Millwork only)	0.5
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version 4

Energy & Atmosphere

EA	Minimum Energy Performance (CedarBoards only)	Req
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Prereq. 1

EA 1	Annual Energy Use (CedarBoards only)	1-29
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EA 8	Envelope Insulation (CedarBoards only)	1-2
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Materials & Resources

MR 3	Environmentally Preferable Products (CedarBoards only)	0.5-4
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CALgreen

California Green Construction Code, 2010

CREDITS	DESCRIPTION	POSSIBLE POINTS
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Nonresidential Mandatory Measures

5.507.4.1	Exterior Noise Transmission	Req
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Residential Voluntary Measures

A4.405.1	Prefinished Building Materials	Req
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A4.405.3	Recycled Content	Req
----------	------------------	-----

Nonresidential Voluntary Measures

A5.203.1	Energy Performance	Req
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A5.203.2	Energy Performance	Req
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A5.405.1	Regional Materials	Req
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A5.405.4	Recycled Content, Tier 1 [DSA-SS] Recycled Content	Req
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A5.405.4.1	Recycled Content, Tier 2	Req
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A5.406.1.2	Reduced Maintenance	Req
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A5.406.1.3	Recyclability	Req
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A5.409.1	Materials and System Assemblies	Req
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IgCC

International Green Construction Code, 2012

CREDITS	DESCRIPTION	POSSIBLE POINTS
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Jurisdictional Requirements & Life Cycle Assessment

303.1	Whole Building Life Cycle Assessment	Req
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Material Resource Conservation & Efficiency

505.2.2	Recycled Content Building Materials	Req
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505.2.3	Recyclable Building Materials and Building Components	Req
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505.2.5	Indigenous Materials	Req
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Energy Conservation, Efficiency & CO₂e Emission Reduction

602.1.1	zEPI (Zero Energy Performance Index) (CedarBoards only)	Req
---------	---	-----

605.1	Prescriptive-Based Compliance (Building Envelope Systems) (CedarBoards only)	Req
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605.1.1	Insulation and Fenestration Criteria (CedarBoards only)	Req
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605.1.2	Air Leakage (CedarBoards only)	Req
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605.1.2.1	Air Barriers (CedarBoards only)	Req
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Indoor Environmental Quality & Comfort

803.2	Thermal Environmental Conditions for Human Occupancy (CedarBoards only)	Req
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GREEN GLOBES

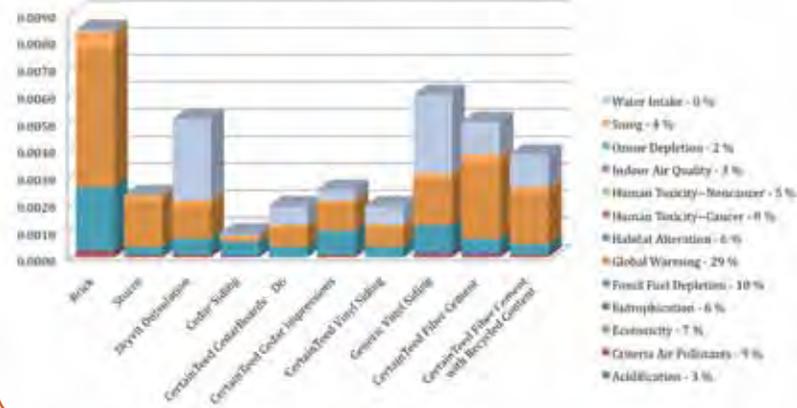
Green Globes Standard v1

CREDITS	DESCRIPTION	POSSIBLE POINTS
Project Management		
A.2	Environmental Purchasing	50
Energy		
C.1	Energy Consumption	110
C.2	Energy Demand Minimization	135
C.2.6	Thermal Resistance Meets ASHRAE 90.1-2004	10
Resources, Building Materials & Solid Waste		
E.1	Low-Impact Systems and Materials	40
E.1.1	Assemblies and Materials Chosen Based on LCA Using ATHENA Environmental Impact Estimator or NIST BEES	10
E.2.2	Recycled Post-Consumer	10
E.5.1	Construction, Demolition and Renovation Waste Diversion	6
Emissions & Other Impacts		
F.5.1	Pest Resistant Materials and Building Assemblies Used	1
Indoor Environment		
G.4.1	Conform to ANSI 55-2004	20

For quick reference to its green building attributes, CertainTeed's Cedar Boards D6 carries the GreenCircle Certified Environmental Facts (CEF) Multi-Attribute certification. This certification conveys the total sustainability of a product and operations. Much like a nutrition label, the CEF certification details all necessary environmental information in a straightforward manner. The label includes product attributes and key manufacturing impact reductions, which provides consumers with a comprehensive view of the product's overall sustainability. Products with the CEF mark can be easily compared to other products to identify the most sustainable option and help consumers make more educated purchasing decisions.

Certified Environmental Facts	
Company: CertainTeed Corporation	
Product: CedarBoards D6	
Plant Location: Jackson, MI	
Product Specific:	
Recycled Content*	73.77%
Renewable Resource Content	N/A
Regional Raw Material Sourcing	69.92%
Carbon Footprint Reduction - Product*	46.92%
Recyclable Material	**
Completed LCA/EPD	Yes - Published LCA
Closed Loop Recycling Program	No
Manufacturing Specific:	
Carbon Footprint Reduction - Facility	8.39%
Reduced Waste	72.27%
Reduced Water Usage	15.81%
Reduced Energy Usage	8.57%
Waste Diversion from Landfill	96.06%
ISO 14001 Certified	Yes
Evaluation Period: 2009 - 2012	
Certification Number: 13-0077	
Certification Period: 2/1/2013 - 1/31/2014	
For more information on the Certified Environmental Facts of this product, please contact: info@GreenCircleCertified.com	
www.GreenCircleCertified.com	
*Cypress, Whicker, and Clay colors only	
** The vinyl siding component of this product is recyclable, however, additional steps will need to be taken to recycle the insulated vinyl siding assembly.	

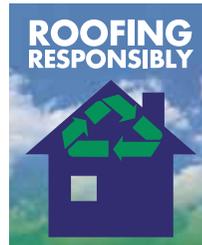
Overall Environmental Performance



CertainTeed is committed to product stewardship. As a part of our sustainable product development program we have conducted life cycle assessments (LCAs) of vinyl siding and trim products in order to provide transparency to our customers and better understand and improve our products' performance. The LCAs are verified for use with BEES product selection online program. Products that have a published LCA can help contribute to earning points with the National Green Building Standard and the new LEED v4. For more information about the LCAs visit www.certainteed.com/LCA.

Understanding the role of CertainTeed Roofing in meeting Green Building Standards and Codes

CertainTeed Roofing demonstrates leadership in environmental stewardship by recycling the vast majority of internal waste created during manufacturing and also by developing new products and systems specifically designed to improve energy efficiency and reduce the environmental footprint of homes and buildings.



CertainTeed introduced the Roofing Responsibly™ program to encourage homeowners and contractors to recycle old roof systems at the end of their useful life. We have developed a portfolio of unique, patented products and systems to meet market demand for more environmentally sensitive

and energy efficient products. Our Solaris™ shingle series and CoolStar™ commercial products feature solar reflective surfaces designed to reduce energy consumption and CO₂ emissions. CertainTeed continues to add new photovoltaic roofing systems and is developing a portfolio of products to address the needs of that important, growing market.



Pepper Family Hospice & Palliative Care of Northeastern Illinois (HPNI)
Barrington, IL
Harley Ellis Devereaux and Hospice Design Resources (partnership)
LEED Silver

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 such as corrugated rolls and kraft paper.
- > 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 reducing landfill waste, the use of diverted materials in our products reduces the release of CO₂ that would result from the extraction and processing of virgin raw materials.
- > CertainTeed also produces low- and steep-slope roofing products that help reduce energy costs and overall CO₂ emissions. Our ENERGY STAR-rated Solaris™ shingle series achieves up to 40% solar reflectivity, while CoolStar™ cap sheets retain 70% reflectivity.
- > Apollo® II Solar Roofing System generates electricity by harnessing the sun's power. It may generate excess power and even push energy back into the power grid.
- > Solstice™ Solar Roofing System efficiently converts solar energy into electricity to reduce a home's carbon emissions while saving the homeowner money.

CertainTeed Roofing Product Contributions

Visit www.certainteed.com/certaspec for more details about which products qualify for these credits and full credit descriptions.

NGBS (2012)

National Green Building Standard, 2012

CREDITS	DESCRIPTION	POSSIBLE POINTS
Lot Design, Preparation & Development		
503.4	Storm Water Management	2-7
Resource Efficiency		
602.2	Roof Surfaces	3
604.1	Recycled Content	2-4
605.3	Recycled Construction Materials	1-6
609.1	Regional Materials	2-10
Energy Efficiency		
702.2	Energy Cost Performance Levels	30-120
703.1	Building Envelope	10-36
703.6.3	Passive Cooling Design	1-3
705.5	Additional Renewable Energy Options	1



Home Innovation
NGBS GREEN CERTIFIED™

Note: Green text indicates qualifying CertainTeed products that have been Green Certified by the Home Innovation Research Labs to automatically earn points for this particular credit.
• Landmark Solaris and Solaris Solar Reflective Shingle Series: #00058

IgCC

International Green Construction Code, 2012

CREDITS	DESCRIPTION	POSSIBLE POINTS
Site Development & Land Use		
408.3	Roof Surfaces	Req
408.3.1	Roof Coverings – Solar Reflectance and Thermal Emittance	Req
408.3.1.1	Roof Products Testing	Req
408.3.1.2	Solar Reflectance Index	Req
408.3.2	Vegetative Roofs	Req
Material Resource Conservation & Efficiency		
505.2.3	Recyclable Building Materials and Building Components	Req
505.2.5	Indigenous Materials	Req
Energy Conservation, Efficiency & CO₂e Emission Reduction		
602.1.1	zEPI (Zero Energy Performance Index)	Req
605.1	Prescriptive-Based Compliance (Building Envelope Systems)	Req
605.1.1	Insulation and Fenestration Criteria	Req
603.3.7.1	Renewable and Waste Energy	Req
603.3.7.1	Solar Electric	Req

LEED-H

LEED H (2009 and v4), LEED for Canada: Homes, 2009

CREDITS	DESCRIPTION	POSSIBLE POINTS
version 2009		
Energy & Atmosphere		
EA 1	Optimized Energy Performance	1-34
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
version 4		
Sustainable Sites		
SS 1	Heat Island Reduction	2
SS 2	Rainwater Management	1-3
Energy & Atmosphere		
EA	Minimum Energy Performance	Req
Prereq. 1		
EA 1	Annual Energy Use	1-29
EA 15	Renewable Energy Points	1-10
Materials & Resources		
MR 3	Environmentally Preferable Products	0.5-4

CertainTeed Roofing Plant Locations:



Avery, OH • Ennis, TX • 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

LEED-NC, LEED-CS, LEED FOR SCHOOLS, LEED FOR HEALTHCARE & LEED FOR RETAIL

CREDITS	DESCRIPTION	POSSIBLE POINTS				
		NC	CS	Schools	HC	Retail
Sustainable Sites						
version 2009						
SSc5.1	Site Development – Protect or Restore Habitat	1	1	1	1	1
SSc5.2	Site Development – Maximize Open Space	1	1	1	1	1
SSc6.1	Stormwater Design – Quantity Control	1	1	1	1	1
SSc6.2	Stormwater Design – Quality Control	1	1	1	1	1
SSc7.2	Heat Island Effect – Roof	1	1	1	1	1
Water Efficiency						
WE 1	Water Efficient Landscaping	2-4	2-4	2-4	NA	2-4
Energy & Atmosphere						
EA Prereq. 2	Minimum Energy Performance	Req	Req	Req	Req	Req
EA 1	Optimize Energy Performance	1-19	3-21	1-19	1-24	1-19
EA 2	Onsite Renewable Energy	1-7	4	1-7	1-8	1-7
Materials & Resources						
MR 2	Construction Waste Management	1-2	1-2	1-2	1-2	1-2
MR 3	Sustainably Sourced Materials and Products	NA	NA	NA	1-4	NA
MR 4	Recycled Content	1-2	1-2	1-2	NA	1-2
MR 5	Regional Materials	1-2	1-2	1-2	NA	1-2
Indoor Environmental Quality						
IEQ 7	Thermal Comfort	NA	1	NA	1	NA
IEQ 7.1	Thermal Comfort – Design	1	NA	1	NA	1
Sustainable Sites						
version 4						
SS 2	Site Development – Protect or Restore Habitat	1-2	1-2	1-2	1	1-2
SS 3	Open Space	1	1	1	1	1
SS 4	Rainwater Management	2-3	2-3	2-3	1-2	2-3
SS 5	Heat Island Reduction	2	2	2	2	2
Energy & Atmosphere						
EA Prereq. 2	Minimum Energy Performance	Req	Req	Req	Req	Req
EA 2	Optimize Energy Performance	1-18	1-18	1-16	1-20	1-18
Materials & Resources						
MR 3 Option 2	Building Product Disclosure and Optimization – Sourcing of Raw Materials	2	2	2	2	2
MR 5	Construction and Demolition Waste Management	1-2	1-2	2	1-2	1-2
Indoor Environmental Quality						
IEQ 5	Thermal Comfort	1	1	1	1	1



Sunriver Homeowners Aquatic & Recreation Center (SHARC)
Portland, OR
Group MacKenzie
LEED Silver



Cibolo Creek Ranch
Marfa, TX
Ford, Powell and Carson

CALgreen (2010)

California Green Construction Code, 2010

CREDITS	DESCRIPTION	POSSIBLE POINTS
Residential Voluntary Measures		
A4.106.5	Cool Roof	Req
A4.106.5.1	Solar Reflectance	Req
A4.106.5.2	Thermal Emittance	Req
A4.205.1	Radiant Roof Barriers	Req
A4.211.1	New Solar Homes Partnership	Req
A4.405.3	Recycled Content	Req
Nonresidential Voluntary Measures		
A5.106.11	Heat Island Effect	Req
A5.106.11.2	Cool Roof	Req
A5.106.11.2.1	Solar Reflectance	Req
A5.106.11.2.2	Thermal Emittance	Req
A5.106.11.2.3	Solar Reflectance Index Alternative	Req
A5.203.1	Energy Performance	Req
A5.203.2	Energy Performance	Req
A5.205.3	Insulation and Roofing Products	Req
A5.205.3.9	Roofing Products Solar Reflectance and Thermal Emittance	Req
A5.211.1	On-Site Renewable Energy	Req
A5.405.1	Regional Materials	Req
A5.405.4	Recycled Content, Tier 1 [DSA-SS] Recycled Content	Req
A5.405.4.1	Recycled Content, Tier 2	Req
A5.406.1.3	Recyclability	Req

GREEN GLOBES

Green Globes Standard v1

CREDITS	DESCRIPTION	POSSIBLE POINTS
Project Management		
A.2	Environmental Purchasing	50
Site		
B2.6	Reduced Heat Island Effect	10
Energy		
C.2	Energy Demand Minimization Building Envelope	135
C.2.7	Thermal Resistance of Building Envelope for the Roof Meets or Exceeds the Requirements of ASHRAE Standard 90.1-2004	40
C.4	Renewable Sources of Energy	10
Resources, Building Materials & Solid Waste		
E.2.2	Recycled Post-Consumer	45
Indoor Environment		
G.4.1	Conform to ANSI 55-2004	10



The Whilden
John's Island, SC
Amerisips Homes, Inc.
LEED Platinum

CertainTeed Corporation and our parent company, Saint-Gobain, are committed to continuous improvement in our products and our operations. Not only are we providing products with single attribute sustainable characteristics such as high recycled content and low VOCs, but we are also actively manufacturing products with their total life cycle impacts in mind. Through our rigorous Sustainable Product Development (SPD) process, sustainable attributes of a product are considered throughout the entire design process and life cycle of a product. CertainTeed is proud to provide the market with these products and will continue to advance our R&D process to enable the design of products for the future.



CertainTeed, through its parent company, Saint-Gobain, received the 2013 ENERGY STAR® Sustained Excellence Award for the third year in a row. This is the highest level of recognition from the U.S. Environmental Protection Agency. The Sustained Excellence Award recognizes consistent efforts to use energy efficiently in facility operations and to integrate superior energy management into overall organizational strategy.



The LEED® rating system is a green building standard that 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 specific performance levels to qualify for rating system points. CertainTeed is a member of the U.S. Green Building Council and supports the LEED program. Additionally, since 2007, CertainTeed has been a proud corporate member of the Canada Green Building Council. The majority of CertainTeed's products can contribute to earning points in various credits across the LEED rating systems. The LEED rating systems in the United States were recently updated to LEED v4. CertainTeed is proud to provide numerous products that contribute to earning points within this new and vastly different rating system. CertainTeed has been preparing for this change and is ready; therefore, so are you.



The National Green Building Standard (NGBS) was created through a rigorous consensus process and originally approved by the American National Standards Institute (ANSI) in January 2009. It was subsequently updated and approved by ANSI in January 2012 and remains the only residential green building standard to be recognized and approved as an American National Standard. Home Innovation Research Labs, an independent, third-party subsidiary of the National Association of Home Builders, is the adopting entity for the NGBS through its Home Innovation NGBS Green Certification Program (www.HomeInnovation.com/Green). CertainTeed is an active partner in the program, having several NGBS Green Certified products that are pre-approved by Home Innovation to garner builders specific points toward green home certification (www.HomeInnovation.com/GreenProducts). The NGBS Green Certified product program streamlines the verification process for both builders and verifiers by ensuring products that carry the NGBS Green Certified mark meet specific green characteristics recognized as point-worthy within the NGBS, without the need for further documentation. CertainTeed's NGBS Green Certified products can achieve points in categories including Life Cycle Analysis, Indoor Environmental Quality, Durability, and Recycled Content. More products from CertainTeed have been NGBS Green Certified by Home Innovation Research Labs than from any other manufacturer.



Home Innovation
NGBS GREEN PARTNER™



Greensburg City Hall
Greensburg, KS
BNIM Architects
LEED Platinum



GreenCircle Certified, LLC provides third-party verification and assurance to builders, architects, regulators and consumers that products labeled with the GreenCircle Certified mark have undergone a rigorous audit process that verifies compliance with the environmental and sustainability claims of the manufacturers. To date, a number of CertainTeed siding, fiber cement, fence, railing and decking, insulation and ceilings products have achieved certification for various sustainability attributes from GreenCircle.



Demonstrating a strong commitment to environmental responsibility and transparency, all CertainTeed gypsum board products manufactured at all plants across the U.S. and Canada have achieved Environmental Claims Validation (ECV) by UL Environment.

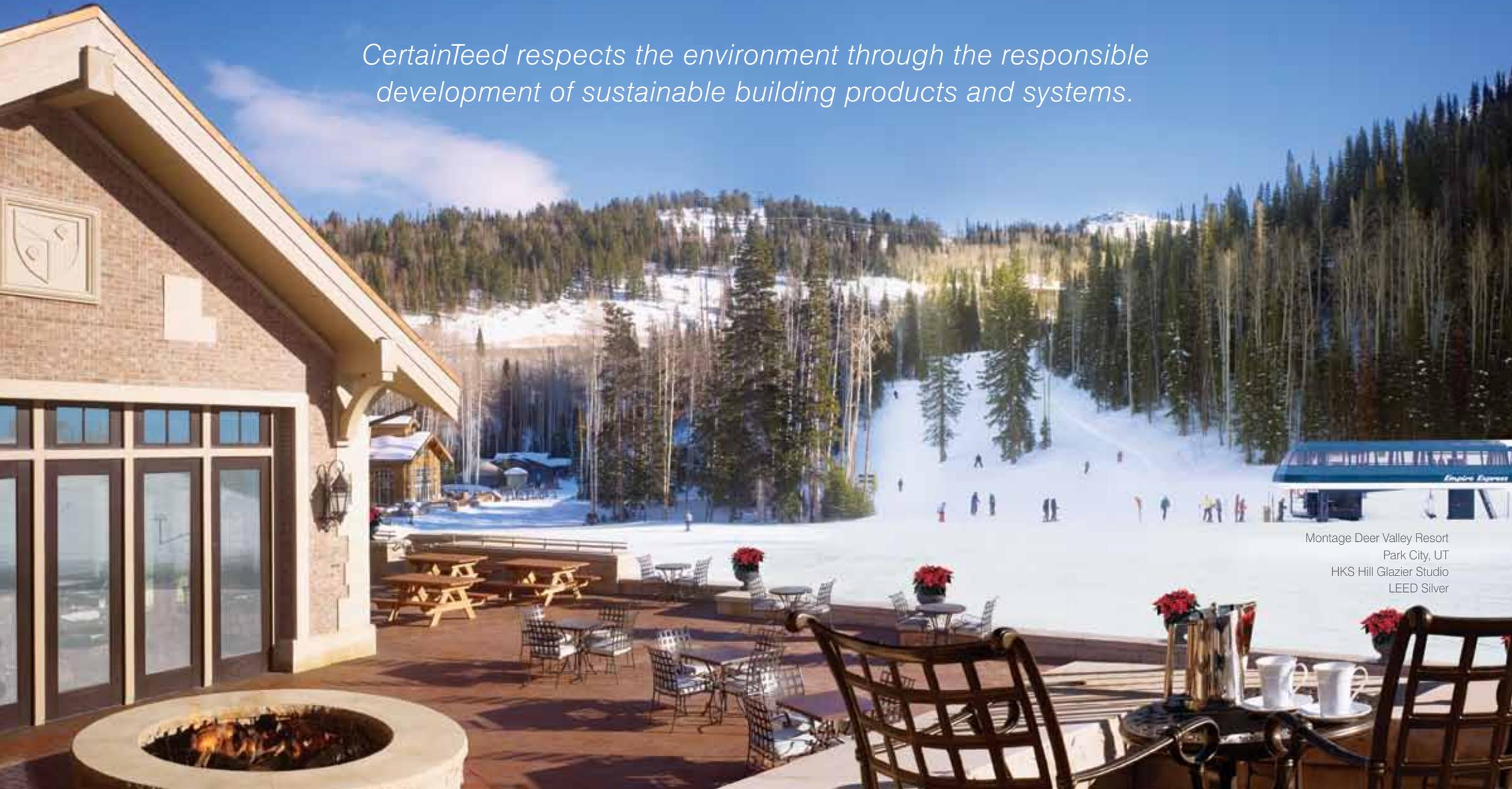
GREENGUARD® Gold Certification (formerly known as GREENGUARD Children and Schools Certification) gives assurance that products designed for use in indoor spaces meet strict chemical emissions limits, which contributes to the creation of healthier interiors. A number of CertainTeed ceilings, insulation and gypsum products have achieved GREENGUARD Gold Certification, which provides transparency that our products contribute to enhanced indoor air quality and do not give off gas and harmful chemicals.



Sealing and insulating the envelope or shell of your building is the most cost-effective way to improve energy efficiency and comfort. CertainTeed insulation products can help meet your ENERGY STAR requirements to further distinguish your home. CertainTeed's ENERGY STAR-rated roofing products are more energy efficient than standard roofing products by exceeding ENERGY STAR standards in both solar reflectance and thermal emissivity.



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



Montage Deer Valley Resort
Park City, UT
HKS Hill Glazier Studio
LEED Silver

ASK ABOUT ALL OF OUR OTHER CERTAINTEED® PRODUCTS AND SYSTEMS:

ROOFING • SIDING • TRIM • DECKING • RAILING • FENCE • FOUNDATIONS
GYPSUM • CEILINGS • INSULATION • PIPE

www.certainteed.com <http://blog.certainteed.com>

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