

# SUSTAINABILITY & GREEN BUILDING PROGRAMS

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## A Recognized Leader

Huber Engineered Woods LLC is a recognized leader in an industry that relies on the sustainable growth of natural resources. In addition to managing the resources that go into each of our products, we take the little amount of waste material produced during the production process and repurpose it to help power our manufacturing facilities. By constantly striving to make the manufacturing process more efficient, Huber Engineered Woods stays current on green building practices and procedures through ongoing business process improvement initiatives.

## Our Contribution

- Manufacturing AdvanTech® and ZIP System® panel solutions, whose production and use have minimal environmental impact when compared to other product categories like steel and concrete.
- Offering products containing no added urea formaldehyde, thereby categorized as low-emitting materials.
- Developing programs that inform architects, specifiers and contractors about products and methods that enhance the built environment and preserve the natural environment.
- Providing building science expertise and forming strategic partnerships with other organizations driven to develop energy-efficient building solutions.

## Green Building Programs and Credits Overview

To help you keep pace with code bodies and earn points toward green building programs, Huber Engineered Woods is pleased to offer sustainable building solutions with outstanding brands, including AdvanTech® and ZIP System® products. In general, points can be awarded in the following areas:

- Use of certified wood and engineered wood products
- Use of local and regionally harvested and manufactured materials
- Use of energy-efficient products or construction practices
- Use of water-resistive barriers and proper moisture management practices

According to the U.S. Department of Energy, buildings use 39% of the energy and 74% of the electricity produced each year in the United States. LEED's Energy & Atmosphere category encourages a wide variety of energy-wise strategies — commissioning; energy use monitoring; efficient design and construction; efficient appliances, systems and lighting; the use of renewable and clean sources of energy, generated on-site or off-site, and other innovative measures.



A higher level of energy efficiency comes standard when you build with ZIP System Wall Sheathing and ZIP System® Tape. By significantly reducing air leakage, ZIP System Wall Sheathing contributes to greater occupant comfort and energy efficiency in a building. By simply taping panel seams with ZIP System Tape, ZIP System Wall Sheathing effectively seals the wall system, decreasing unwanted air leakage into and out of the building shell. This helps protect the R-value of insulation, which reduces heating and cooling costs.

Read on to learn why AdvanTech and ZIP System products are superior choices under the various green certification programs. For more detailed and up-to-date information, visit [www.huberarchitectlibrary.com](http://www.huberarchitectlibrary.com).

## Leadership in Energy and Environmental Design (LEED)

Developed by the U.S. Green Building Council (USGBC) in March 2000, LEED promotes sustainable building and development practices through a suite of rating systems that recognize projects that implement strategies for better environmental and health performance.



LEED for New Construction and Major Renovation (2009)					
Credit	Category	Products Eligible*			Possible Points (Max)
		AvanTech® Subflooring	ZIP System® Wall Sheathing	ZIP System® Roof Sheathing	
Indoor Environmental Quality (IEQ)					
4.4	Low Emitting Materials	•	•	•	1
Materials & Resources (MR)					
5	Regional Materials*	•	•	•	2

\*See specific green building program for limitations, restrictions and point eligibility requirements.

LEED for Homes (2008)					
Credit	Category	Products Eligible*			Possible Points (Max)
		AvanTech® Subflooring	ZIP System® Wall Sheathing	ZIP System® Roof Sheathing	
Energy & Atmosphere (EA)					
3	Air Infiltration	•	•	•	3
Materials & Resources (MR)					
2.2	Environmentally Preferable Products	•	•	•	8

\*See specific green building program for limitations, restrictions and point eligibility requirements.

## National Green Building Standard (NGBS)

The National Green Building Standard (ICC 700 or “the Standard”) is the only residential green building rating system approved by ANSI, the American National Standards Institute, as an American National Standard. Single family, multifamily, residential renovation and site development projects are eligible. Certification is provided by the NAHB Research Center.



National Green Building Standard (NGBS) (2008)					
Practice Number	Category	Products Eligible*			Possible Points (Max)
		AdvanTech® Subflooring	ZIP System® Wall Sheathing	ZIP System® Roof Sheathing	
<b>Chapter 6: Resource Efficiency</b>					
606.1	Biobased Products	•	•	•	6
606.2	Wood Based Products	•	•	•	4
606.3	Manufacturing Energy	•	•	•	2
607.1	Resource Efficient Materials	•	•	•	3
608.1	Indigenous Materials	•	•	•	10
<b>Chapter 7: Energy Efficiency</b>					
703.2.1	Insulation & Air Sealing		•		15
<b>Chapter 9: Indoor Environmental Quality</b>					
901.4 (6)	Non-emitting Products	•	•	•	4

\*See specific green building program for limitations, restrictions and point eligibility requirements.

## Green Globes

Originating in Canada with the Building Research Establishment's Environmental Assessment Method (BREEAM), Green Globes is an international rating system that operates under the Green Building Initiative (GBI) in the U.S.



Green Globes (2010)					
Section	Category	Products Eligible*			Possible Points (Max)
		AvanTech® Subflooring	ZIP System® Wall Sheathing	ZIP System® Roof Sheathing	
<b>10.1 Resources and Materials: Assemblies (Structural System and Envelope)</b>					
10.1.2.2	Materials Content: Bio-based Products	•	•	•	7
10.1.4.1	Transportation of Processed or Manufactured Materials: Regional Materials	•	•	•	5
<b>10.3 Resources and Materials: Other Material Properties</b>					
10.3.2.1	Certification of Wood Based Products: Third Party Certified	•	•	•	6
<b>10.8 Resources and Materials: Air Barriers</b>					
10.8.1.1	Continuous Air Barrier: Installed		•		3
10.8.1.2	Continuous Air Barrier: Demonstrated Through Assembly Testing		•		3

\*See specific green building program for limitations, restrictions and point eligibility requirements.

## ENERGY STAR® Home Certification

To earn ENERGY STAR®, a home must meet strict guidelines for energy efficiency set by the U.S. Environmental Protection Agency. These homes are at least 15% more energy efficient than homes built per the 2004 International Residential Code (IRC) and include additional energy-saving features that typically make them 20%-30% more efficient than standard homes. Certification is granted through a “rater” that qualifies the home via testing and inspection.



This includes the Seal and Insulate with ENERGY STAR® program, which recommends building practices that improve energy efficiency in homes. Practices include: sealing air leaks throughout the home to stop drafts, adding insulation to block heat loss in winter and heat gain in summer, as well as choosing ENERGY STAR®-qualified windows when replacing windows. Using ZIP System tape can help reduce air leaks as recommended by the Seal and Insulate with ENERGY STAR® effort.

ENERGY STAR® Version 3 (Rev 4) Checklist				
Checklist Number	Category	Products Eligible*		
		AdvanTech® Subflooring	ZIP System® Wall Sheathing	ZIP System® Roof Sheathing
<b>3.1 Fully Aligned Air Barriers: Walls</b>				
3.1.1	Walls Behind Showers and Tubs		•	
3.1.2	Walls Behind Fireplaces		•	
3.1.3	Attic Knee Walls		•	
3.1.4	Skylight Shaft Walls		•	
3.1.5	Wall Adjoining Porch Roof		•	
3.1.6	Staircase Walls		•	
3.1.7	Double Walls		•	
3.1.8	Garage Rim/Band Joist Adjoining Conditioned Space		•	
3.1.9	All Other Exterior Walls		•	
<b>4.4 Reduced Thermal Bridging: Reduced Thermal Bridging at Above Grade Walls Separating Conditioned from Unconditioned Space</b>				
4.4.5	Advanced Framing	•	•	

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