

Technical Tip

ICC-ES® SAVE™ VAR-1012 LEED Qualifications

In 2008, the International Code Council Evaluation Service® (ICC-ES®) launched the Sustainable Attributes Verification and Evaluation™ (SAVE™) program. A Verification of Attributes Report™ (VAR) from the SAVE program provides an evaluation of a product's sustainable attributes from a trustworthy and independent source. The SAVE Program addresses a product's entire production process, beginning with raw material acquisition and progressing through the final manufacturing and packaging.

Huber Engineered Woods is one of the latest product manufacturers to utilize the SAVE program to verify specific sustainable attributes of its building products. In addition to verifying the sustainable features of AdvanTech® and ZIP System®, the SAVE program provides a technical evaluation on how they might qualify for points under multiple green building programs. An ICC-ES Verification of Attributes Report™ (VAR-1012) is available for AdvanTech flooring, AdvanTech sheathing and ZIP System sheathing. The information presented in the VAR provides a table that evaluates HEW products and their ability to meet specific Green Building requirements.

The information in this document is based upon the following supporting documentation for USGBC's LEED requirements: ICC-ES EG104, ICC-ES EG108, and ICC-ES EG109. For LEED certification, AdvanTech and ZIP System products are eligible to meet ICC-ES guidelines for:

- Air Infiltration (ZIP System Sheathing – wall only)
- Environmentally preferable products for wall, roof and floor applications
- Regionally extracted, harvested or manufactured materials or products
- Formaldehyde emissions of composite wood and engineers wood product
- Certified wood and certified wood content

Air Infiltration

The air infiltration requirement for LEED 2008 Homes requires that the product meets the air leakage requirements shown in section EA 3, Table 17 of the LEED for Homes Rating System. ZIP System sheathing is code recognizes in ICC-ES ESR-1474 as an air barrier assembly. Points are available in this category only when all the air infiltration requirements are met.

Environmentally Preferable Products

The environmentally preferable product for roof, wall and floors; interior and exterior framing and sheathing requirement for LEED 2009 Construction states that products used must be extracted, processed and manufactured within 500 miles (805 km) of the project site. In order for the product to qualify for green building points, the product must constitute a minimum 90% weight or volume of the building component. This

requirement is dependent on project site location, and is recognized as a verified attribute for AdvanTech and ZIP System products if the stated conditions have been met.

Wood Certification

LEED Certification currently lists FSC-certified wood as the primary program for green building projects. However, the use of an Alternative Compliance Path (ACP) can be used to achieve a LEED wood certification credit if certified by other programs such as the Sustainable Forestry Initiative (SFI). Since Huber Engineered Woods is a part of SFI, AdvanTech and ZIP System products can use the wood certification ACP to achieve a point in this category.

Regional Materials

In order to meet the regional materials requirement for LEED 2009 Construction, products used must be extracted, processed and manufactured within 500 miles (805 km) of the project site. In order to earn 1 point, the products used must constitute a minimum of 10% of the total materials value. For 2 points, the products must constitute a minimum of 20%. This requirement is dependent on project site location, and is recognized as a verified attribute for AdvanTech and ZIP System products if the stated conditions have been met.

Low-emitting materials

In order to meet the low-emitting materials requirement for LEED 2009 Construction, wood products must contain no added urea-formaldehyde resins. Neither AdvanTech or ZIP System products contain urea-formaldehyde in the panel manufacturing process, therefore this qualification is met.

Section Number	Section Intent	Possible Points	Conditions of Use to Quality for Points	AdvanTech Sheathing	AdvanTech Flooring	ZIP System Roof Sheathing	ZIP System Wall Sheathing
Table 1 – Summary of Areas of Eligibility with USGBC’s LEED for Homes 2008							
EA 3	Air Infiltration	3 max	To earn 2 or 3 point meet the air leakage requirement shown in Table 17 of the standard, as applicable	O	O	O	O
MR 2.1	FSC certified tropical wood	.5 each 8 max	To earn 0.5 point per component use FSC-certified tropical wood	*	*	*	*
MR 2.2(c)	Environmentally preferable products for roof, wall and floors; Interior and exterior framing and sheathing	.5 each 8 max	To earn points use products that are extracted, processed and manufactured within 500 miles (805 km) of the site for a minimum of 90% (by weight or volume of the component.) Regional material calculations based on project location provided upon request.	O	O	O	O

Table 2 - Summary Areas of Eligibility with USGBC’s LEED 2009 for New Construction and Major Renovation							
MR.5 (MR 5.1)	Regional materials (10% of content)	1	To earn 1 point use products that are extracted, processed and manufactured within 500 miles (805 km) of the site for a minimum of 10% (by cost) of total materials value. To earn 2 points use a minimum of 20%. Regional material calculations based on project location provided by Huber upon request.	O	O	O	O
MR.5 (MR 5.2)	Regional materials (20% of content)	2		O	O	O	O
MR 7	Certified Wood	1	To earn 1 point use a minimum 50% (based on cost) of wood-based materials/products certified to FSC requirements*	*	*	*	*
IEQ 4.4	Low emitting materials	1	To earn 1 point use wood composite wood products containing no added urea-formaldehyde resins.	X	X	X	X



Table 3 – Summary of Areas of Eligibility with USGBC’s LEED 2009 for Schools New Construction and Major Renovation

MR.5 (MR 5.1)	Regional materials (10% of content)	1	To earn 1 point use products that are extracted, processed and manufactured within 500 miles (805 km) of the site for a minimum of 10% (by cost) of total materials value. To earn 2 points use a minimum of 20%. Regional material calculations based on project location provided by Huber upon request.	O	O	O	O
MR.5 (MR 5.2)	Regional materials (20% of content)	2		O	O	O	O
MR 7	Certified Wood	1	To earn 1 point use a minimum 50% (based on cost) of wood-based materials/products certified to FSC requirements*	*	*	*	*
IEQ 4.4	Low emitting materials	1	To earn 1 point use wood composite wood products containing no added urea-formaldehyde resins.	X	X	X	X

O	Eligible for points
X	Verified attributes
*	Not currently eligible for points

All LEED standards mentioned in this document can be found through the U.S. Green Building Council LEED for Homes Rating System according to their section numbers, as referenced in the tables above.

Please visit zipssystem.com, advantechperforms.com or contact our technical services department at 800-933-9220 with any questions or comments.