

## ICC-ES® SAVE™ VAR-1012 NGBS 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 products' 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 (HEW) 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 ICC 700-2008 National Green Building Standard (NGBS). For NGBS certification, AdvanTech and ZIP System products are eligible to meet ICC-ES guidelines for:

- Water resistive barrier (ZIP System Sheathing – wall only)
- Two types of biobased material
- Two wood-based products (minor elements)
- Two wood-based products (major elements)
- Major components manufactured with renewable energy
- Indigenous materials
- Insulation and air sealing (ZIP System Sheathing - wall only)
- Structural panels meet product standards
- Non-emitting products

### ***Water Resistive Barrier***

NGBS Certification currently requires that a water-resistant barrier and/or drainage plane system be installed behind exterior siding. This certification is only applicable for wall applications and is mandatory in all areas of construction. This requirement is recognized as a verified attribute for ZIP System Sheathing when used in wall applications.

### ***Two Types of Biobased Material***

In order to meet this NGBS requirement, two types of biobased materials must be used, each contributing to 1% or greater of the project's projected building material cost. In order to earn 6 points, both products must separately represent at least 1% of the construction material cost. 1 or 3 points are

available for products contributing to greater than 0.5% of the material cost. This requirement is recognized as a verified attribute for AdvanTech and ZIP System products, assuming the stated conditions have been met.

### ***Two Wood-based Products as Minor Elements***

This NGBS requirement states that two certified wood-based products must be used for minor elements in a building. Minor elements of a building include all trim, cabinetry, or millwork. In order to earn 3 points, a second certified wood-based product must also be used as a minor element. AdvanTech and ZIP System products are certified by the Sustainable Forestry Initiative (SFI), therefore this qualification is met. Certification is required of the manufacturer only. Vendor Chain of Custody is not required to qualify for this point.

### ***Two Wood-based Products as Major Elements***

This attribute has similar requirements as the previously mentioned. However, this requirement states that two certified wood-based products must be used for major elements in a building. Major elements include all walls, floors or roof. In order to earn 4 points, a second certified wood-based product must also be used as a major element.

Since AdvanTech and ZIP System products are certified by the Sustainable Forestry Initiative (SFI), this qualification is met.

### ***Major Components Manufactured with Renewable Energy***

In order to meet this renewable materials requirement, materials used for the major components of the building must be manufactured using a minimum of 33% of the primary manufacturing energy derived from renewable sources, combustible waste sources, or renewable energy credits. In order to earn 6 points, the products must be used for at least 3 major components of the building. 2 Points are awarded for each major component. More than 60% of the net energy used to manufacture AdvanTech and ZIP System products is recovered from waste of the manufacturing process. Therefore, this requirement is recognized as a verified attribute for AdvanTech and ZIP System products.

### ***Indigenous Materials***

To meet this requirement, Indigenous materials must be used for major elements of the building. To earn 2 points, verify products are originated, produced, grow naturally or occur naturally within 500 miles (805 km) of the job site. 2 points are available for each additional type of material used up to a maximum of 10 points. Check with your local retailer to determine if your project qualifies for this category based on your project location's proximity to Huber manufacturing location.

## Insulation and Air Sealing

This attribute requires that insulation and air sealing is installed in accordance with either third-party verification (15 Points) or no third-party verification performed (3 Points). ZIP System sheathing is code recognized in ICC-ES ESR-1474 as an air barrier. Points are available in this category only when all the insulation and air sealing requirements are met.

## Structural Panels meet Product Standards

NGBS Certification currently requires that structural plywood used for floor, wall, and/or roof sheathing is compliant with DOC PS 1 and/or DOC PS 2. OSB used for floor, wall, and/or roof sheathing must comply with DOC PS 2. The panels are made with moisture-resistant adhesives and the trademark indicates the adhesives are Exposure 1 or Exterior (plywood) and Exposure 1 (OSB). Both AdvanTech and ZIP System products are Exposure 1 rated. These requirements are mandatory. To meet this, a minimum of 85% of products in the building must consist of HEW products.

## Non-emitting Products

In order to meet this requirement, 85% of material used within a product group must be non-emitting products. 4 points are available per product group used. Neither AdvanTech or ZIP System products contain urea-formaldehyde resins, therefore the non-emitting products requirement is recognized as a verified attribute.

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
<b>Table 1 – Summary of Areas of Eligibility with the National Green Building Standard (ICC 700-2008)</b>							
602.9	Water-resistive barrier	Mandatory	Install a water-resistive barrier and/or drainage plane system behind exterior veneer and/or siding				X
606.1(2)	Two types of biobased materials are used, each for more than 1 percent of the project's projected building material cost	6	To earn 6 points products must be at least 1% of the construction material cost AND another bio-based product at 1% of material cost must be used. 1 or 3 points are available for greater than 0.5%	X	X	X	X
606.2(1)	Two certified wood-based products are used for minor elements of the building, such as all walls, floors or roof.	3	To earn 3 points a second certified wood product must also be used as a minor element	X	X	X	X
606.2(2)	Two certified wood-based products are used for major elements of the building, such as all walls, floors or roof.	4	To earn 4 points a second certified wood product must also be used as a major element	X	X	X	X

606.3	Materials are used for major components of the building that are manufactured using a minimum of 33 percent of the primary manufacturing process energy derived from renewable sources, combustible waste sources, or renewable energy credits	2 each 6 max	To earn 6 point the products must be used for at least 3 major components of the building. 2 points may be earned when used for each major component.	X	X	X	X
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608.1	Indigenous materials	2 each 10 max	To earn 2 points verify local products are originated, produced grow naturally or occur naturally within 500 miles (805 km) of job site. Regional material calculations based on project location by Huber upon request.	O	O	O	O
703.2.1	Insulation and air sealing	3 15 max	Insulation an air sealing is installed in accordance with all the following, as applicable: (1) third-party verification performed 15 pts, no third-party verification performed 3 pts.				O
901.4(1)	Structural plywood used for floor, wall, and/or roof sheathing complied with DOC PS 1 and/or DOC PS 2. OSB used for floor, wall, and/or roof sheathing complies with DOC PS 2. The panels are made with moisture-resistant adhesives and the trademark indicates the adhesives are Exposure 1 or Exterior (plywood) and Exposure 1 (OSB)	Mandatory	To meet this a minimum of 85% of OSB or plywood in the building must consist of Huber products	X	X	X	X
901.4(6)	Non-emitting products, which can include structural wood framing	4	A minimum of 85% of product in the building are the identified Huber products	X	X	X	X

O	Eligible for points
X	Verified attributes
	Does not Apply for HEW Products

All the requirements mentioned in this document can be found in the ICC 700-2008 National Green Building Standard according to their section numbers, as referenced in the table above.

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