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ICC-ES Report

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ESR-1785

Reissued 12/2016
This report is subject to renewal 12/2018.

DIVISION: 06 00 00— WOOD, PLASTICS AND COMPOSITES
SECTION: 06 16 00— SHEATHING

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

**10925 DAVID TAYLOR DRIVE
ONE RESOURCE SQUARE, SUITE 300
CHARLOTTE, NORTH CAROLINA 28262**

EVALUATION SUBJECT:

ADVANTECH® (AT-SERIES) ENGINEERED PANELS



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ICC-ES Evaluation Report

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

Section: 06 16 00—Sheathing

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC
10925 DAVID TAYLOR DRIVE
ONE RESOURCE SQUARE, SUITE 300
CHARLOTTE, NORTH CAROLINA 28262
(800) 933-9220
www.huberwood.com

EVALUATION SUBJECT:

ADVANTECH® (AT-SERIES) ENGINEERED PANELS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)

Property evaluated:

Structural

2.0 USES

The AdvanTech® (AT-Series) FLOOR SPAN® and SHEATHING SPAN® wood structural panels described in this evaluation report are Exposure 1 oriented strand board (OSB) products designed and manufactured for prescriptive and engineered applications.

3.0 DESCRIPTION

AdvanTech (AT-Series) FLOOR SPAN® and SHEATHING SPAN® are oriented strand board (OSB) panels manufactured with strands from a single wood species or a combination of wood species blended with an exterior-type adhesive system. The panels are typically produced in | 4-by-8-foot (1219 by 2438 mm) sheets. Oversize panels, wider than 4 feet (1219 mm) or longer than 8 feet (2438 mm), or both, are also produced. Table 1 specifies the span ratings, grades, and thicknesses of AdvanTech panels recognized in this evaluation report.

AdvanTech panels are manufactured to comply with proprietary property requirements and with performance requirements specified in U.S. Voluntary Product Standard PS-2, as outlined in the approved quality control manual.

4.0 DESIGN AND INSTALLATION

4.1 Design:

Design capacities provided in this evaluation report supplement the design provisions applicable to wood structural panels provided in Chapter 23 of the IBC. Table 2 provides design capacities for AdvanTech panels. Table 3 provides section properties for AdvanTech panels. Table 4 provides equivalent specific gravities for use in withdrawal and lateral design of nails under Chapter 12 of the *National Design Specification*® for Wood Construction (NDS) for compliance with the IBC and IRC (Chapter 11 of the 2005 NDS for the 2012, 2009, or 2006 IBC and IRC).

4.2 Installation:

AdvanTech FLOOR SPAN® and SHEATHING SPAN® panels must be installed in accordance with the applicable code and the manufacturer's published installation instructions.

Continuous floor areas must not exceed 80 feet (24.38 m) in length or width, unless separated by ³/₄-inch-wide (19.1 mm) expansion joints having separate floor framing. Supporting wall plates must not be continuous over the ³/₄-inch-wide (19.1 mm) expansion joints.

5.0 CONDITIONS OF USE

The AdvanTech® (AT-Series) Engineered Panels described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The panels are installed in accordance with the applicable building code and the manufacturer's published installation instructions.
- 5.2 The panels are manufactured in Broken Bow, Oklahoma (Mill 290); Easton, Maine (Mill 228); Commerce, Georgia (Mill 227); and Crystal Hill, Virginia (Mill 229); under a quality-control program with inspections conducted by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Wood Structural Panels (AC182), dated April 2001 (editorially revised October 2015).

7.0 IDENTIFICATION

Each AdvanTech panel has at least one grade stamp for product and field identification. The grade stamp includes the trademark of the Huber Corporation; the AdvanTech® trademark; the AT-Series; the panel span rating and

thickness; exposure durability classification (Exposure 1); panel grade (Structural I SHEATHING SPAN® or FLOOR SPAN®); product standard (PS-2); mill number; and the

ICC-ES evaluation report number (ESR-1785). Refer to Figure 1 for a typical grade stamp.

TABLE 1—SPAN RATINGS, GRADES AND THICKNESSES OF ADVANTECH PANELS

SPAN RATING	AT-Series	TECO GRADE ¹	NOMINAL PANEL THICKNESS
32/16	AT 1.10	Structural I SHEATHING SPAN®	1/2 inch
40/20	AT 1.10	Structural I SHEATHING SPAN®	5/8 inch
24 o.c.	AT 1.05	Structural I FLOOR SPAN®	23/32 inch

For SI: 1 inch = 25.4 mm.

¹SHEATHING SPAN® and FLOOR SPAN® are registered trademarks of TECO.

TABLE 2—ADVANTECH PANEL DESIGN CAPACITIES¹

SPAN RATING	NOMINAL THICKNESS (in.)	AT-SERIES	STRENGTH AXIS ²	BENDING STIFFNESS, EI (lbf-in ² /ft)	BENDING STRENGTH, F _b S (lbf-in/ft)	PLANAR SHEAR, F _s (lb/Q) (lbf/ft)
32/16	1/2	AT 1.10	Primary	133,750	665	280
			Secondary	58,000	400	280
40/20	5/8	AT 1.10	Primary	256,000	1,035	350
			Secondary	114,000	625	350
24 o.c.	23/32	AT 1.05	Primary	383,800	1,250	365
			Secondary	155,000	710	365

For SI: 1 inch = 25.4 mm, 1 lbf-in²/ft = 9.415 1kN-m²/m, 1 lbf-in/ft = 0.371 N-m/m, 1 lbf/ft = 14.59 N/m.

¹Design capacity is a single value that represents the product of the allowable stress and the corresponding section property per 1-foot width of panel for a given load condition.

²Primary strength axis corresponds to the panel length dimension and the secondary direction to the panel width dimension. If an AdvanTech panel is manufactured with the primary direction aligned in the narrow dimension, the primary direction will be stamped on the panel.

TABLE 3—SECTION PROPERTIES FOR ADVANTECH PANELS¹

SPAN RATING	NOMINAL THICKNESS (in.)		PANEL WEIGHT (psf)	AREA, A (in ² /ft)	MOMENT OF INERTIA, I (in ⁴ /ft)	SECTION MODULUS, S (in ³ /ft)	STATICAL MOMENT, Q (in ⁴ /ft)	SHEAR CONSTANT, lb/Q (in ² /ft)
	Fraction	Average						
32/16	1/2	0.500	1.9	6.000	0.125	0.500	0.375	4.000
40/20	5/8	0.625	2.0	7.500	0.244	0.781	0.586	5.000
24 o.c.	23/32	0.715	2.4	8.580	0.366	1.022	0.767	5.720

For SI: 1 inch = 25.4 mm, 1 in²/ft = 2117 mm²/m, 1 in³/ft = 53 763 mm³/m, 1 in⁴/ft = 1 365 589 mm⁴/m.

¹Based on a rectangular cross-sectional width of one foot.

TABLE 4—EQUIVALENT SPECIFIC GRAVITY VALUES FOR ADVANTECH PANELS^{1,2}

SPAN RATING	NOMINAL THICKNESS (inch)	AT-Series	NAIL RESISTANCE	
			Lateral	Withdrawal
			Equivalent Specific Gravity	
32/16	1/2	AT 1.10	0.44	0.43
40/20	5/8	AT 1.10	0.44	0.43
24 o.c.	23/32	AT 1.05	0.50	0.44

For SI: 1 inch = 25.4 mm.

¹Equivalent specific gravity values are provided for use in design of nailed connections (lateral and withdrawal) in accordance with Chapter 12 of the NDS for compliance with the IBC and IRC (Chapter 11 of the NDS for compliance with the 2012, 2009, or 2006 IBC and IRC).

²In cases where strand delamination occurs on the opposite face of the panel, the assumed nail embedment length, or penetration depth, must be reduced accordingly for the design of connections in which the nails are loaded laterally. The effect of strand delamination is reflected in the tabulated equivalent specific gravity values for withdrawal.



FIGURE 1—TYPICAL PANEL GRADE STAMP (GRADE STAMP WILL VARY BY THICKNESS, SPAN RATING, AND MILL)



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ICC-ES Report

VAR-1012

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

SECTION: 06 12 00—STRUCTURAL PANELS

SECTION: 06 16 00—SHEATHING

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

SECTION: 07 21 00—THERMAL INSULATION

SECTION: 07 25 00—WATER-RESISTIVE BARRIERS/WEATHER BARRIERS

SECTION: 07 27 00—AIR BARRIERS

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

10925 DAVID TAYLOR DRIVE
CHARLOTTE, NORTH CAROLINA 28262

EVALUATION SUBJECT:

ADVANTECH® (AT-SERIES) SHEATHING SPAN; ADVANTECH® (AT-SERIES) FLOOR SPAN; ZIP SYSTEM® ROOF SHEATHING; ZIP® SYSTEM WALL SHEATHING; ZIP SYSTEM® R-SHEATHING (INSULATING SHEATHING)



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ICC-ES Environmental Report**VAR-1012**

Reissued September 2015

This report is subject to renewal September 2017.www.icc-es.org/ep | (800) 423-6587 | (562) 699-0543*A Subsidiary of the International Code Council®***DIVISION: 06 00 00—WOOD, PLASTICS AND
COMPOSITES****Section: 06 12 00—Structural Panels**
Section: 06 16 00—Sheathing**DIVISION: 07 00 00—THERMAL AND MOISTURE
PROTECTION****Section: 07 21 00—Thermal Insulation**
**Section: 07 25 00—Water-Resistive Barriers/Weather
Barriers**
Section: 07 27 00—Air Barriers**REPORT HOLDER:****HUBER ENGINEERED WOODS, LLC**
10925 DAVID TAYLOR DRIVE
CHARLOTTE, NORTH CAROLINA 28262
(800) 933-9220
www.huberwood.com**EVALUATION SUBJECT:****ADVANTECH® (AT-SERIES) SHEATHING SPAN;
ADVANTECH® (AT-SERIES) FLOOR SPAN; ZIP SYSTEM®
ROOF SHEATHING; ZIP SYSTEM® WALL SHEATHING;
ZIP SYSTEM® R-SHEATHING (INSULATING SHEATHING)****1.0 EVALUATION SCOPE****Compliance with the following evaluation criteria:**

- ICC-ES Environmental Criteria for Determination of Bio-based Material Content (EC102), dated March 2012.
- ICC-ES Evaluation Guideline for Determination of Source of Recovery, Extraction, Harvest and Manufacture for Materials or Products (EC114), dated March 2012
- ICC-ES Environmental Criteria for Determination of Formaldehyde Emissions of Composite Wood and Engineered Wood Products (EC108), dated March 2012.
- ICC-ES Environmental Criteria for Determination of Certified Wood and Certified Wood Content in Products (EC109), dated March 2012.

**Compliance eligibility with the applicable sections of
the following green building rating systems, standards
and codes:**

- 2012 International Green Construction Code (IgCC)
(see Table 2 for details)

- 2013 California Green Building Standards Code (CALGreen), Title 24, Part 11 (see Table 3 for details)
- National Green Building Standard (ICC 700-2008)
(see Table 4 for details)
- National Green Building Standard (ICC 700-2012)
(see Table 5 for details)
- LEED for Homes 2008 (see Table 6 for details)
- LEED v4 for Homes Design and Construction (see
Table 7 for details)
- LEED 2009 for New Construction and Major
Renovations (see Table 8 for details) LEED 2009 for
Schools New Construction and Major Renovations (see
Table 9 for details)
- LEED v4 for Building Design and Construction (BD+C)
(See Table 10 for details)
- ANSI/GBI 01-2010 – Green Building Assessment
Protocol for Commercial Buildings (see Table 11 for
details)

2.0 USES

AdvanTech® (AT-Series) Sheathing Span, AdvanTech® (AT-Series) Floor Span, ZIP System® Roof Sheathing and ZIP System® Wall Sheathing are used for a variety of interior and exterior framing and sheathing applications.

ZIP System® R-Sheathing panels are used as combination wall sheathing and continuous insulation in conventional wood-framed wall construction.

3.0 DESCRIPTION

AdvanTech® (AT-Series) Sheathing Span and AdvanTech® (AT-Series) Floor Span wood structural panels are Exposure 1 oriented strand board (OSB) panels manufactured with strands from a single wood species or a combination of wood species blended with an exterior-type adhesive system to comply with U.S. DOC PS-2 and the applicable ICC-ES report as indicated in Table 1.

ZIP System® Roof Sheathing and ZIP System® Wall Sheathing wood structural panels are OSB panels with laminated, resin-impregnated, polymer-modified sheet material manufactured to comply with U.S. DOC PS-2 and the applicable ICC-ES reports as indicated in Table 1. The panels are installed with ZIP System® self-adhering membrane tape. The tape is outside the scope of this evaluation report.

ZIP System® R-Sheathing is an insulated sheathing made by combining ⁷/₁₆-inch-thick ZIP System® Wall

Sheathing as described in ESR-1474 with a layer of maximum 1-inch-thick (25.4 mm) rigid foam plastic insulation laminated to the interior face with PVA adhesive. Refer to ESR-3373 for additional product description.

4.0 CONDITIONS

4.1 Code Compliance:

AdvanTech® (AT-Series) Sheathing Span, AdvanTech® (AT-Series) Floor Span, ZIP System® Roof Sheathing, ZIP System® Wall Sheathing and ZIP System® R-Sheathing have been evaluated for compliance with the requirements of the International Codes as listed in Table 1 of this report.

4.2 Green Rating Systems, Standards and Code Eligibility:

The information presented in Tables 2 through 11 of this report provides a matrix of areas of evaluation and corresponding limitations and/or additional project-specific requirements, and offer benefit to individuals who are assessing eligibility for credits or points.

The final interpretation of the specific requirements of the respective green building rating system, standard and/or code rests with the developer of that specific rating system or standard or the Authority Having Jurisdiction, as applicable.

Compliance with items noted as “Verified Attribute” is subject to any conditions noted in the tables. Decisions on compliance with those items noted as “Eligible for Points” in Tables 2 through 11 rests with the user of this report, and those items are subject to the conditions noted. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. Rating systems or standards often provide supplemental information as guidance.

5.0 BASIS OF EVALUATION

The information in this report, including the “Verified Attribute,” is based upon the following supporting documentation:

5.1 ICC-ES EC102 [Evaluation applies to IgCC Section 505.2.4; CALGreen Sections A4.405.4 & A5.405.2; ICC 700-2008 Section 606.1(2); ICC 700-2012 Sections 606.1, 11.606.1 & 12.1(A).606.1; ANSI/GBI 01-2010 Section 10.1.2.2].

5.2 ICC-ES EC114. [Evaluation applies to IgCC Section 505.2.5; CALGreen Section A5.405.1; ICC 700-2008 Section 608.1; ICC 700-2012 Sections 609.1, 11.609.1 & 12.1(A).609.1; LEED Homes MR 2.2(c); LEED v4 Homes MRc3; LEED NC MR 5; LEED Schools MR 5; LEED v4 BD+C MRc3; ANSI/GBI 01-2010 Section 10.1.4.1].

5.3 ICC-ES EC108 [Evaluation applies to IgCC Section 806.1; ICC 700-2008 Section 901.4(6); ICC 700-2012 Sections 901.4(6) & 11.901.4(6); LEED NC EQ 4.4; LEED Schools EQ 4.4; LEED v4 BD+C EQc2].

5.4 ICC-ES EC109 [Evaluation applies to ICC 700-2008 Section 606.2; ICC 700-2012 Sections 606.2(2), 11.606.2(2) & 12.1(A).606.2; ANSI/GBI 01-2010 Section 10.3.2.1].

5.5 Documentation establishing and documenting all major sources of primary manufacturing energy [Evaluation applies to ICC 700-2008 Section 606.3; ICC 700-2012 Sections 606.3 & 11.606.3].

5.6 ICC-ES [ESR-1474](#) documenting that ZIP System Wall Sheathing is equivalent to a code-prescribed water-resistive barrier [Evaluation applies to CALGreen Section 5.407.1; ICC 700-2008 Section 602.9; ICC 700-2012 Section 602.1.8].

5.7 Refer to ICC-ES [ESR-1474](#) for evaluation of the ZIP System Wall Sheathing as an air barrier assembly [Evaluation applies to IgCC Section 605.1.2.1.1; ICC 700-2008 Section 703.2.1; ICC 700-2012 Sections 701.4.3.2, 11.701.4.3.2 & 12.1.701.4.3.1; LEED Homes EA 3; LEED v4 Homes EA c7].

6.0 IDENTIFICATION

AdvanTech® (AT-Series) Sheathing Span, AdvanTech® (AT-Series) Floor Span, ZIP System® Roof Sheathing, ZIP System® Wall Sheathing and ZIP System® R-Sheathing products are identified with a stamp noting the manufacturer’s name (Huber Engineered Woods, LLC) and address, the product name the manufacturing location, the ICC-ES evaluation report number (if applicable), and the name or logo of the inspection or grading agency. The report subjects are also identified on the product and/or packaging with the VAR Environmental Report number (VAR-1012) and the ICC-ES SAVE Mark, as applicable.

TABLE 1—REFERENCE STANDARD OR EVALUATION REPORT NUMBER FOR HUBER ENGINEERED WOODS LLC PRODUCTS

PRODUCT	REPORT NUMBER/ REFERENCE STANDARD
AdvanTech® (AT-Series) Sheathing Span AdvanTech® (AT-Series) Floor Span	ESR-1785
ZIP System® Roof Sheathing	ESR-1473 & ESR-2227
ZIP System® Wall Sheathing	ESR-1474 & ESR-2227
ZIP System® R-Sheathing	ESR-3373

TABLES 2 THROUGH 11

Section Number	Section Intent	Possible Points	Conditions of Use to Qualify	AdvanTech Sheathing	AdvanTech Flooring	ZIP System Roof Sheathing	ZIP System Wall Sheathing	ZIP System R-Sheathing
TABLE 2—SUMMARY OF AREAS OF ELEGIBILITY WITH 2012 INTERNATIONAL GREEN CONSTRUCTION CODE								
505.2.4	Bio-based products	N/A	All Huber wood products are qualified as bio-based.	●	●	●	●	○ ⁵
505.2.5	Indigenous materials	N/A	Products shall be recovered, harvested, extracted & manufactured within a 500 mile (800 km) radius of the building site. Where only a portion of a material or product is recovered, harvested, extracted & manufactured within 500 miles (800 km), only that portion shall be included. Where resources are transported by water or rail, the distance to the building site shall be determined by multiplying the distance that the resources are transported by water or rail by 0.25, & adding that number to the distance transported by means other than water or rail. ⁶	○	○	○	○	
605.1.2.1.1	Air barrier installation	N/A	Install the system in accordance with the manufacturer's installation instructions and ICC-ES evaluation report ESR-1474.				●	●
806.1	Formaldehyde emissions	N/A	Huber wood structural panels comply with US DOC PS 2 (See Table 1 of this report) and are exempt from formaldehyde emissions testing.	●	●	●	●	○ ⁵
TABLE 3—SUMMARY OF AREAS OF ELEGIBILITY WITH 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE								
A5.405.1	Regional materials	Elective	Verify local products that are extracted, processed and manufactured within California or 500 miles (805 km) of the job site. ⁶	○	○	○	○	
A4.405.4 A5.405.2	Bio-based materials		All Huber wood products are qualified as bio-based.	●	●	●	●	○ ⁵
A4.405.4(3) A4.405.4(5)	Renewable sources		Materials from renewable sources (such as engineered wood).	●	●	●	●	○ ⁵
A5.405.2.1	Certified Wood		Under review by California Building Standards Commission. ³	N/A	N/A	N/A	N/A	N/A
5.407.1	Water-resistant exterior wall assembly	Mandatory	Huber products provide a water-resistant exterior wall envelope.				○	○
4.504.5 5.504.4.5	Composite wood product emissions		EWP products do not apply to the composite wood product definition. ⁴					
TABLE 4—SUMMARY OF AREAS OF ELEGIBILITY WITH THE NATIONAL GREEN BUILDING STANDARD (ICC 700-2008)								
602.9	Water-resistive barrier	Mandatory	Install a water-resistive barrier and/or drainage plan system behind exterior veneer and/or siding.				●	●
606.1(2)	Two types of biobased materials are used, each for more than 1% 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%.	●	●	●	●	○ ⁵
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. ¹	●	●	●	●	○ ⁵
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. ¹	●	●	●	●	○ ⁵
606.3	Materials are used for major components of the building that are manufactured using a minimum of 33% of primary manufacturing process energy derived from renewable sources, combustible waste sources, or renewable energy credits	2 each 6 max	To earn 6 points 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.	●	●	●	●	○ ⁵
○	= Eligible for points							
●	= Verified attribute							
	= This provision does not apply to this product							

Note: Footnotes are located after Table 11.

TABLES 2 THROUGH 11 (Continued)

Section Number	Section Intent	Possible Points	Conditions of Use to Qualify	AdvanTech Sheathing	AdvanTech Flooring	ZIP System Roof Sheathing	ZIP System Wall Sheathing	ZIP System R-Sheathing
TABLE 4—SUMMARY OF AREAS OF ELEGIBILITY WITH THE NATIONAL GREEN BUILDING STANDARD (ICC 700-2008) (Continued)								
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 ⁶	○	○	○	○	
703.2.1	Insulation and air sealing	3 15 max	Insulation and air sealing is installed in accordance with all the following, as applicable: (1) third-party verification performed 15 pts, (2) no third-party verification performed 3 pts				○	○
901.4(1)	Structural plywood used for floor, wall, and/or roof sheathing complies with DOC PS 1 and/or DOC PS 2. OSB used for floor, wall, and/or roof sheathing complies with DOC PS 2. 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.	●	●	●	●	●
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.	●	●	●	●	● ⁵
TABLE 5—SUMMARY OF AREAS OF ELEGIBILITY WITH THE NATIONAL GREEN BUILDING STANDARD (ICC 700-2012)								
602.1.8	Water-resistive barrier	Mandatory	Install a water-resistive barrier and/or drainage plan system behind exterior veneer and/or siding.				●	●
606.1(2) 11.606.1(b) 12.1(A).606.1	Two types of biobased materials are used, each for more than 1% 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 biobased product at 1% of material cost must be used. 1 or 3 points are available for greater than 0.5%.	●	●	●	●	○ ⁵
606.2(1) 11.606.2(1) 12.1(A).606.1	Two certified wood-based products are used for minor elements of the building, such as all trim, cabinetry, or millwork	3	To earn 3 points a second certified wood product must also be used as a minor element ¹	●	●	●	●	○ ⁵
606.2(2) 11.606.2(2) 12.1(A).606.2	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. ¹	●	●	●	●	○ ⁵
606.3 11.606.3	Materials are used for major components of the building are manufactured using a minimum of 33% of primary manufacturing process energy derived from renewable sources, combustible waste sources, or renewable energy credits	2 each 6 max	To earn 6 points 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.	●	●	●	●	○ ⁵
609.1	Regional materials	2 each 10 max	To earn 2 points verify material is produced, grows naturally, or occurs naturally within 500 miles (805 km) of the job site if transported by truck or 1500 miles (2414 km) if transported for at least 80% of the total distance by rail or water. Products that are assembled or produced from multiple raw materials qualify if the weighted average (by weight or volume) of the distance the raw materials have been transported meet the distance criteria. ⁶	○	○	○	○	
701.4.3.2 11.701.4.3.2 12.1.701.4.3.1	Insulation and air sealing	3 15 max	Insulation and air sealing is installed in accordance with all the following, as applicable: (1) third-party verification performed 15 pts, (2) no third-party verification performed 3 pts				○	○
901.4(1) 11.901.4(1) 12.1.901.4(1)	Structural plywood used for floor, wall, and/or roof sheathing complies with DOC PS 1 and/or DOC PS 2. OSB used for floor, wall, and/or roof sheathing complies with DOC PS 2. Panels are made with moisture-resistant adhesives & the trademark indicates the adhesives are Exposure 1 or Exterior (plywood) & Exposure 1 (OSB)	Mandatory	To meet this a minimum of 85% of OSB or plywood in the building must consist of Huber products.	●	●	●	●	●
901.4(6) 11.901.4(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.	●	●	●	●	○ ⁵
○	= Eligible for points							
●	= Verified attribute							
	= This provision does not apply to this product							

Note: Footnotes are located after Table 11.

TABLES 2 THROUGH 11 (Continued)

Section Number	Section Intent	Possible Points	Conditions of Use to Qualify for Points	AdvanTech Sheathing	AdvanTech Flooring	ZIP System Roof Sheathing	ZIP System Wall Sheathing	ZIP System R-Sheathing
TABLE 6—SUMMARY OF AREAS OF ELEGIBILITY WITH USGBC'S LEED FOR HOMES 2008								
EA 3	Air Infiltration	3 max	To earn 2 or 3 points meet the air leakage requirements shown in Table 17 of the credit, as applicable.				○	○
MR 2.1	FSC certified tropical wood	0.5 each 8 max	To earn 0.5 point per component use FSC-certified tropical wood. ²	2	2	2	2	2
MR 2.2(c)	Environmentally preferable products for roof, wall & floors; interior & exterior framing & sheathing	0.5 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). ⁶	○	○	○	○	
TABLE 7—SUMMARY OF AREAS OF ELEGIBILITY WITH USGBC'S LEED v4 HOMES								
EAc7	Air Infiltration	2 max	To earn 1 or 2 points based on air leakage rates determined by testing and verification.				○	○
MR	FSC certified tropical wood	Prerequisite	All wood must be nontropical or certified by FSC or USGBC-approved equivalent. ²	2	2	2	2	2
MRc3	Environmentally preferable products for roof, wall & floors; interior & exterior framing & sheathing	0.5 each 8 max	Option 1: To earn points use framing that is extracted, processed and manufactured within 100 miles (160 km) of the site for a minimum of 50% (by weight or volume) of the component. ⁶	○	○	○	○	
			Option 2: Use wood products certified by FSC or USGBC-approved equivalent. ²	2	2	2	2	○ ²
EQc2	Low emitting materials	1	To earn 1 point use wood composite products containing no-added urea-formaldehyde resins.	●	●	●	●	● ⁵
TABLE 8—SUMMARY OF AREAS OF ELEGIBILITY WITH USGBC'S LEED 2009 FOR NEW CONSTRUCTION AND MAJOR RENOVATION								
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%. ⁶	○	○	○	○	
MR 5.2	Regional materials (20% of content)	2		○	○	○	○	
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. ²	2	2	2	2	2
EQ 4.4	Low emitting materials	1	To earn 1 point use wood composite wood products containing no-added urea-formaldehyde resins.	●	●	●	●	○ ⁵
TABLE 9—SUMMARY OF AREAS OF ELEGIBILITY WITH USGBC'S LEED 2009 FOR SCHOOLS NEW CONSTRUCTION AND MAJOR RENOVATION								
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%. ⁶	○	○	○	○	
MR 5.2	Regional materials (20% of content)	2		○	○	○	○	
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. ²	2	2	2	2	2
EQ 4.4	Low emitting materials	1	To earn 1 point use wood composite wood products containing no-added urea-formaldehyde resins.	●	●	●	●	○ ⁵
TABLE 10—SUMMARY OF AREAS OF ELEGIBILITY WITH USGBC'S LEED v4 BUILDING DESIGN AND CONSTRUCTION (BD+C)								
MRc3	Sourcing of raw materials - certification of new wood products	1	Option 2: Use wood-based materials/products certified by FSC or USGBC-approved equivalent. ²	2	2	2	2	○ ²
MRc3	Sourcing of raw materials - source location	N/A	Products meeting the requirements of MRc3 Option 2 may be eligible for additional credit based on source location (extraction, manufacture and purchase point) based on location relative to project site. ^{2,6}	6	6	6	6	
IEQc2.2	Low emitting materials	N/A	EWPP and lumber products do not apply to the composite wood product definition ¹					
○	= Eligible for points							
●	= Verified attribute							
	= This provision does not apply to this product							

Note: Footnotes are located after Table 11.

TABLES 2 THROUGH 11 (Continued)

Section Number	Section Intent	Possible Points	Conditions of Use to Qualify for Points	AdvanTech Sheathing	AdvanTech Flooring	ZIP System Roof Sheathing	ZIP System Wall Sheathing	ZIP System R-Sheathing
TABLE 11—SUMMARY OF AREAS OF ELEGIBILITY WITH ANSI/GBI 01-2010 – GREEN BUILDING ASSESSMENT PROTOCOL FOR COMMERCIAL BUILDINGS								
10.1.2.2	Biobased Products - building assemblies	7 max	All Huber wood products are qualified as biobased	●	●	●	●	○ ⁵
10.1.4.1	Regional Materials - building assemblies	5 max	To earn credits 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). ⁶	○	○	○	○	
10.3.2.1	Certified wood	6 max	Between 10% and 60% or more of wood-based products used in the building are third party certified.	●	●	●	●	○ ⁵
○	= Eligible for points							
●	= Verified attribute							
	= This provision does not apply to this product							

Footnotes:

¹Certification is required of the manufacturer only. Vendor Chain of Custody is not required to qualify for this point.

²Forest certification credit for LEED 2009 resources FSC exclusively and for LEED v4 resources either FSC or USGBC-approved equivalent. Contact USGBC for a list of approved equivalent programs.

³CGBC recognizes importance of use of certified forest products however the specific requirements are currently under development.

⁴This area is not be confused with the provisions of EQ 4.4 in LEED (Table 4) because the California Air Resources Board (CARB) does not regulate engineered wood product emissions.

⁵Eligibility applies only to the wood-based sheathing portion of the panel.

⁶Regional material calculations based on project location provided by Huber upon request.

N/A = Not applicable