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# ICC-VAR Environmental Report

# VAR-1012

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Reissued 09/2017  
This report is subject to renewal 09/2019.

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)**

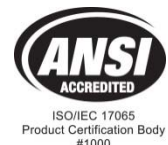


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# ICC-ES Environmental Report

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Reissued September 2017

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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  
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(800) 933-9220  
[www.huberwood.com](http://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:

- 2015 and 2012 International Green Construction Code (IgCC) (see Table 2 for details)

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11 (see Table 3 for details)
- 2015, 2012 and 2008 National Green Building Standard (ICC 700-2015, ICC 700-2012 and ICC 700-2008) (see Tables 4, 5 and 6 for details)
- LEED for Homes 2008 (see Table 7 for details)
- LEED v4 for Homes Design and Construction (see Table 8 for details)
- LEED 2009 for New Construction and Major Renovations (see Table 9 for details) LEED 2009 for Schools New Construction and Major Renovations (see Table 10 for details)
- LEED v4 for Building Design and Construction (BD+C) (See Table 11 for details)
- ANSI/GBI 01-2010 – Green Building Assessment Protocol for Commercial Buildings (see Table 12 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 2-inch-thick (51 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 12 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 12 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 700-2015 and 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 2015 and 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 700-2015 and 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 700-2015 and 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 700-2015 and 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 700-2015 and 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 700-2015 and 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 EAc7].

**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/<br>REFERENCE STANDARD    |
|--|---|
| AdvanTech® (AT-Series) Sheathing Span<br>AdvanTech® (AT-Series) Floor Span | <a href="#">ESR-1785</a>                |
| ZIP System® Roof Sheathing   | <a href="#">ESR-1473 &amp; ESR-2227</a> |
| ZIP System® Wall Sheathing   | <a href="#">ESR-1474 &amp; ESR-2227</a> |
| ZIP System® R-Sheathing  | <a href="#">ESR-3373</a>                |

| 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 |
|---|---|------------------|--|---------------------|--------------------|---------------------------|---------------------------|------------------------|
| <b>TABLE 2—SUMMARY OF AREAS OF ELIGIBILITY WITH 2015 and 2012 INTERNATIONAL GREEN CONSTRUCTION CODE</b> |   |                  |  |                     |                    |                           |                           |                        |
| 505.2.4   | Bio-based products  | N/A              | All Huber wood products are qualified as bio-based.  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 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. <sup>6</sup> | ○                   | ○                  | ○                         | ○                         |                        |
| 505.4.1   | Environmental product declaration (applies to 2015 IgCC only)   | N/A              | A building material with a Type III environmental product declaration that is verified by a program operator is recognized as a means of complying with Section 505.4  | •                   | •                  | •                         | •                         | •                      |
| 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.  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| <b>TABLE 3—SUMMARY OF AREAS OF ELIGIBILITY WITH 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE</b>       |   |                  |  |                     |                    |                           |                           |                        |
| 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. <sup>6</sup>   | ○                   | ○                  | ○                         | ○                         |                        |
| A4.405.4<br>A5.405.2  | Bio-based materials   |                  | All Huber wood products are qualified as bio-based.  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| A4.405.4(3)<br>A4.405.4(5)  | Renewable sources   |                  | Materials from renewable sources (such as engineered wood).  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| A5.405.2.1  | Certified Wood  |                  | Under review by California Building Standards Commission. <sup>3</sup>   | 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<br>5.504.4.5  | Composite wood product emissions  |                  | EWP products do not apply to the composite wood product definition. <sup>4</sup>   |                     |                    |                           |                           |                        |
| <b>TABLE 4—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 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%.  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 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. <sup>1</sup>  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 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. <sup>1</sup>  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 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<br>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.   | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 608.1   | Indigenous materials  | 2 each<br>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. <sup>6</sup>   | ○                   | ○                  | ○                         | ○                         |                        |
| 703.2.1   | Insulation and air sealing  | 3<br>15 max      | Insulation and air sealing is installed in accordance with all the following, as applicable:<br>(1) third-party verification performed 15 pts,<br>(2) no third-party verification performed 3 pts.   |                     |                    |                           | ○                         | ○                      |
| ○   | = Eligible for points   |                  |  |                     |                    |                           |                           |                        |
| •   | = Verified attribute  |                  |  |                     |                    |                           |                           |                        |
|   | = This provision does not apply to this product   |                  |  |                     |                    |                           |                           |                        |

| 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 |
|---|--|------------------|---|---------------------|--------------------|---------------------------|---------------------------|------------------------|
| <b>TABLE 4—SUMMARY OF AREAS OF ELIGIBILITY WITH THE NATIONAL GREEN BUILDING STANDARD (ICC 700-2008) (Continued)</b> |  |                  |   |                     |                    |                           |                           |                        |
| 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.  | •                   | •                  | •                         | •                         | • <sup>5</sup>         |
| <b>TABLE 5—SUMMARY OF AREAS OF ELIGIBILITY WITH THE NATIONAL GREEN BUILDING STANDARD (ICC 700-2012)</b>             |  |                  |   |                     |                    |                           |                           |                        |
| 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)<br>11.606.1(b)<br>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%.  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 606.2(1)<br>11.606.2(1)<br>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 <sup>1</sup>  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 606.2(2)<br>11.606.2(2)<br>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. <sup>1</sup>   | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 606.3<br>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<br>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.  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 609.1   | Regional materials   | 2 each<br>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. <sup>6</sup> | ○                   | ○                  | ○                         | ○                         |                        |
| 701.4.3.2<br>11.701.4.3.2<br>12.1.701.4.3.1   | Insulation and air sealing   | 3<br>15 max      | Insulation and air sealing is installed in accordance with all the following, as applicable:<br>(1) third-party verification performed 15 pts;<br>(2) no third-party verification performed 3 pts.  |                     |                    |                           | ○                         | ○                      |
| 901.4(1)<br>11.901.4(1)<br>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)<br>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.  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| ○   | = Eligible for points  |                  |   |                     |                    |                           |                           |                        |
| •   | = Verified attribute   |                  |   |                     |                    |                           |                           |                        |
|   | = This provision does not apply to this product  |                  |   |                     |                    |                           |                           |                        |

| 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 |
|---|--|-------------------|---|---------------------|--------------------|---------------------------|---------------------------|------------------------|
| <b>TABLE 6—SUMMARY OF AREAS OF ELIGIBILITY WITH THE NATIONAL GREEN BUILDING STANDARD (ICC 700-2015)</b> |  |                   |   |                     |                    |                           |                           |                        |
| 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)<br>11.606.1(b)<br>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%.  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 606.2(1)<br>11.606.2(1)<br>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 <sup>1</sup>  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 606.2(2)<br>11.606.2(2)<br>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. <sup>1</sup>   | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 606.3<br>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<br>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.  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| 609.1   | Regional materials   | 2 each<br>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. <sup>6</sup> | ○                   | ○                  | ○                         | ○                         |                        |
| 611.4.2   | Product specific declaration   | 5                 | A product specific Type III EPD is submitted for each product that is manufacturer specific for an individual product or product family & is certified as complying, at a minimum with the scope & goal for the cradle-to-gate requirements in accordance with ISO Standards 14025 & 21930.   | •                   | •                  | •                         | •                         | •                      |
| 701.4.3.2<br>11.701.4.3.2<br>12.1.701.4.3.1   | Insulation and air sealing   | 3<br>15 max       | Insulation and air sealing is installed in accordance with all the following, as applicable:<br>(1) third-party verification performed 15 pts,<br>(2) no third-party verification performed 3 pts   |                     |                    |                           | ○                         | ○                      |
| 901.4(1)<br>11.901.4(1)<br>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)<br>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.  | •                   | •                  | •                         | •                         | ○ <sup>5</sup>         |
| <b>TABLE 7—SUMMARY OF AREAS OF ELIGIBILITY WITH USGBC'S LEED FOR HOMES 2008</b>                         |  |                   |   |                     |                    |                           |                           |                        |
| 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<br>8 max | To earn 0.5 point per component use FSC-certified tropical wood. <sup>2</sup>   | 2                   | 2                  | 2                         | 2                         | 2                      |
| MR 2.2(c)   | Environmentally preferable products for roof, wall & floors; interior & exterior framing & sheathing   | 0.5 each<br>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). <sup>6</sup>  | ○                   | ○                  | ○                         | ○                         |                        |
| ○   | = Eligible for points  |                   |   |                     |                    |                           |                           |                        |
| •   | = Verified attribute   |                   |   |                     |                    |                           |                           |                        |
|   | = This provision does not apply to this product  |                   |   |                     |                    |                           |                           |                        |

| 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 |
|---|--|-------------------|---|---------------------|--------------------|---------------------------|---------------------------|------------------------|
| <b>TABLE 8—SUMMARY OF AREAS OF ELIGIBILITY WITH USGBC'S LEED v4 HOMES</b>   |  |                   |   |                     |                    |                           |                           |                        |
| 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. <sup>2</sup>   | 2                   | 2                  | 2                         | 2                         | 2                      |
| MRc3  | Environmentally preferable products for roof, wall & floors; interior & exterior framing & sheathing | 0.5 each<br>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. <sup>6</sup>                                      | ○                   | ○                  | ○                         | ○                         |                        |
|   |  |                   | Option 2: Use wood products certified by FSC or USGBC-approved equivalent. <sup>2</sup>   | 2                   | 2                  | 2                         | 2                         | ○ <sup>2</sup>         |
| EQc2  | Low emitting materials   | 1                 | To earn 1 point use wood composite products containing no-added urea-formaldehyde resins.   | ●                   | ●                  | ●                         | ●                         | ● <sup>5</sup>         |
| <b>TABLE 9—SUMMARY OF AREAS OF ELIGIBILITY WITH USGBC'S LEED 2009 FOR NEW CONSTRUCTION AND MAJOR RENOVATION</b>                     |  |                   |   |                     |                    |                           |                           |                        |
| 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%. <sup>6</sup>          | ○                   | ○                  | ○                         | ○                         |                        |
| 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. <sup>2</sup>  | 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.  | ●                   | ●                  | ●                         | ●                         | ○ <sup>5</sup>         |
| <b>TABLE 10—SUMMARY OF AREAS OF ELIGIBILITY WITH USGBC'S LEED 2009 FOR SCHOOLS NEW CONSTRUCTION AND MAJOR RENOVATION</b>            |  |                   |   |                     |                    |                           |                           |                        |
| 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%. <sup>6</sup>          | ○                   | ○                  | ○                         | ○                         |                        |
| 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. <sup>2</sup>  | 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.  | ●                   | ●                  | ●                         | ●                         | ○ <sup>5</sup>         |
| <b>TABLE 11—SUMMARY OF AREAS OF ELIGIBILITY WITH USGBC'S LEED v4 BUILDING DESIGN AND CONSTRUCTION (BD+C)</b>                        |  |                   |   |                     |                    |                           |                           |                        |
| MRc2  | Environmental product declarations   | 1                 | Option 1. Environmental product declaration (EPD) where at least 20 different permanently installed products sourced from at least 5 different manufacturers are used that meet one of the disclosure criteria stated in the MR credit. | ○                   | ○                  | ○                         | ○                         | ○                      |
| 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 <sup>2</sup>  | 2                   | 2                  | 2                         | 2                         | ○ <sup>2</sup>         |
| 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. <sup>2,6</sup>               | 6                   | 6                  | 6                         | 6                         |                        |
| IEQc2.2   | Low emitting materials   | N/A               | EWP and lumber products do not apply to the composite wood product definition <sup>4</sup>  |                     |                    |                           |                           |                        |
| <b>TABLE 12—SUMMARY OF AREAS OF ELIGIBILITY WITH ANSI/GBI 01-2010 – GREEN BUILDING ASSESSMENT PROTOCOL FOR COMMERCIAL BUILDINGS</b> |  |                   |   |                     |                    |                           |                           |                        |
| 10.1.2.2  | Biobased Products - building assemblies  | 7 max             | All Huber wood products are qualified as biobased   | ●                   | ●                  | ●                         | ●                         | ○ <sup>5</sup>         |
| 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). <sup>6</sup>   | ○                   | ○                  | ○                         | ○                         |                        |
| 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.  | ●                   | ●                  | ●                         | ●                         | ○ <sup>5</sup>         |
| ○   | = Eligible for points  |                   |   |                     |                    |                           |                           |                        |
| ●   | = Verified attribute   |                   |   |                     |                    |                           |                           |                        |
|   | = This provision does not apply to this product  |                   |   |                     |                    |                           |                           |                        |

**Footnotes:**

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

<sup>2</sup>Forest 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

<sup>3</sup>CGBC recognizes importance of use of certified forest products, however, the specific requirements are currently under development

<sup>4</sup>This area is not to 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.

<sup>5</sup>Eligibility applies only to the wood-based sheathing portion of the panel.

<sup>6</sup>Regional material calculations based on project location provided by Huber upon request.

N/A = Not applicable