



ICC-ES Listing Report ESL-1561

Reissued August 2024

This listing is subject to renewal July 2025.

CSI: DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Section: 07 26 00 – Vapor Retarders

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured products, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: ADVANTECH® X-FACTOR OVERLAY

Listee: HUBER ENGINEERED WOODS, LLC

Evaluation: The Advantech® X-Factor Overlay used in the construction of Advantech® X-Factor Engineered Panels (see Figure 1) is a medium-density, phenolic-impregnated, polymer-modified sheet material that is factory laminated to one face of Advantech® X-Factor wood structural oriented strand board (OSB) panels. The overlay was evaluated based on testing to the following standards:

- ASTM E96-16 Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials, ASTM International.

Findings: The Advantech® X-Factor Overlay, when tested in accordance with ASTM E96 Procedure A (desiccant method), has a vapor permeance of greater than 0.1 perm and less than or equal to 1 perm ($5.72 \times 10^{-8} \text{g/PA-s-m}^2$) and qualifies as a Class II vapor retarder, as referenced in the applicable sections of the following code editions.

- 2021 and 2018 *International Building Code*®
Applicable Section: 202
- 2021 and 2018 *International Residential Code*®
Applicable Section: R202

Identification:

1. The ICC-ES mark of conformity, electronic labeling, or the listing report number (ESL-1561), and when applicable, the ICC-ES listing mark, along with the name, registered trademark, or registered logo of the listee must be included in the product label.
2. In addition, the face of the Advantech® X-Factor Engineered Panels carries a label indicating the product name (Advantech® X-Factor).
3. The report holder's contact information is the following:

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

Installation: The product must be installed in accordance with the Huber Engineered Woods published installation instructions and applicable codes.

Conditions of listing:

1. Additional attributes and their applications can be found in the ICC-ES evaluation report, [ESR-1785](#).
2. The listing addresses only conformance with the standards and code sections noted above.
3. Approval of the product's use is the sole responsibility of the local code official.
4. The listing applies only to the materials tested and as submitted for review by ICC-ES.
5. The listing applies only to the Advantech® X-Factor overlay when the overlay has been factory-laminated to the face of the Advantech® X-Factor Engineered Panel.
6. The Advantech® X-Factor Overlay described in this listing report is manufactured under a quality control program with inspections by ICC-ES.



FIGURE 1 – ADVANTECH® X-FACTOR ENGINEERED PANEL