

## *Hard Coat Stucco/Adhered Stone over ZIP System® Sheathing in Accordance with International Residential Code*

ZIP System® sheathing is a wood structural panel with a built-in, protective overlay that eliminates the need for building wrap or roofing underlayment. It is code recognized in ICC-ES ESR-1474 as an alternate to the water-resistive barrier required in Chapter 14 of the IBC and Chapter 7 of the IRC and satisfies the requirements for air barriers as defined in the ICC International Energy Conservation Code.

### **2012, 2015 and 2018 IRC Compliance**

Chapter 7 of the 2018 and prior IRC requires **two** layers of water-resistive, vapor-permeable barrier with performance at least equivalent to two layers of Grade D paper. ZIP System sheathing or R-sheathing will meet the requirement for **one** layer of this water-resistive barrier, and another layer is required before installing the metal lath and stucco or adhered stone.

### **2021 IRC Compliance**

Chapter 7 of the 2021 IBC describes two compliance paths, one for dry (B) climate zones, and one for moist (A) or marine (C) climate zones as indicated in IRC Figure N1101.7. A dry climate is described as having less than 20 inches of rain per year.

*Dry Climates:* This compliance path requires **two** layers of water resistive barrier complying with ASTM E2556, Type I applied over wood-based sheathing, and any flashing intended to drain the water resistive barrier is directed between the layers. ZIP System sheathing or R-sheathing will meet the requirement for **one** layer of this water-resistive barrier in accordance with code recognition report UES ER-544, and another layer is required before installing the metal lath and stucco or adhered stone.

*Wet and Marine Climates:* In addition to meeting the requirements for dry climates, a space or drainage material not less than 3/16 inch (4.8mm) in depth shall be applied to the exterior side of the water resistive barrier. When using ZIP System sheathing or R-sheathing, a mechanically fastened drainable material should be installed prior to installing the second layer of water resistive barrier. For more information on drainage materials, see our technical tip, **Rainscreen Systems with ZIP System Sheathing**.

*Please note: only mechanically fastened water-resistive barriers shall be installed over ZIP System sheathing or R-sheathing; adhered or fluid-applied membranes will void the warranty of ZIP System sheathing as a water resistive barrier in a wall application.*

## Drainage Medium (Required for 2021 IBC)

Huber Engineered Woods recommends the installation of a minimum 3/16-inch drainage medium, installed between the ZIP System sheathing and second layer of water-resistive barrier. This physical gap promotes drying and drainage of any water that gets behind the exterior stucco or adhered stone. For proper rainscreen/drainage gap product installation, follow manufacturer’s guidelines. For drainage gap options, please see our [hard-coat stucco details](#).

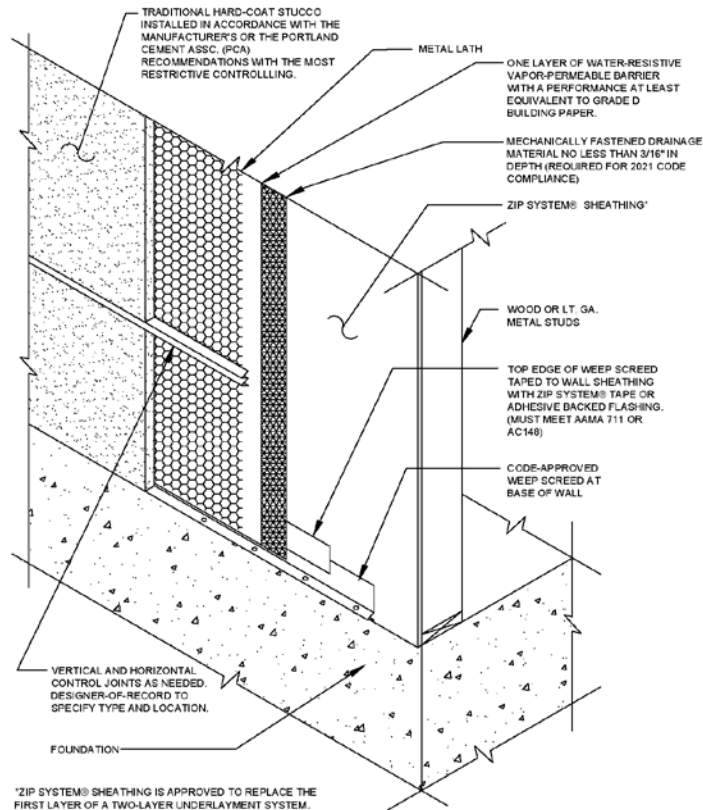


Figure 1: Hard-Coat Stucco over ZIP System Sheathing in Accordance with IBC

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