

Hard Coat Stucco/Adhered Stone over ZIP System® Sheathing in Accordance with International Building 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 and prior IBC Compliance

Chapter 25 of the 2012 and prior IBC 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.

2015 and 2018 IBC Compliance

Chapter 25 of the 2015 and 2018 IBC describes a compliance path where **two** layers of water-resistive, vapor-permeable barrier complying with ASTM E2556, Type I are applied over wood-based sheathing. 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.

2021 IBC Compliance

Chapter 25 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 IBC 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](#).

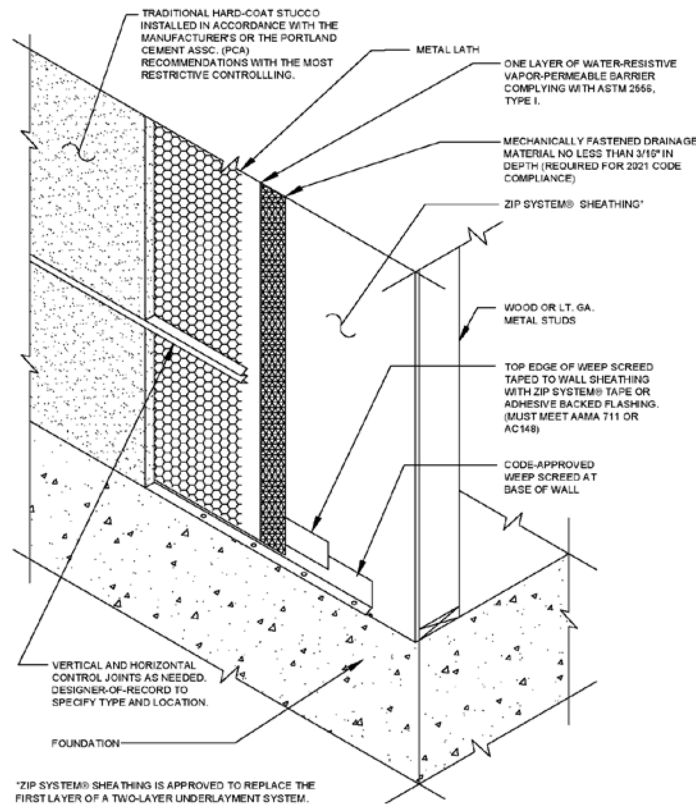


Figure 1: Hard-Coat Stucco over ZIP System Sheathing in Accordance with IBC

Please visit zipsystem.com or contact our technical department at 800-933-9220 Ext 2716 or at techquestions@huber.com with any questions or comments.