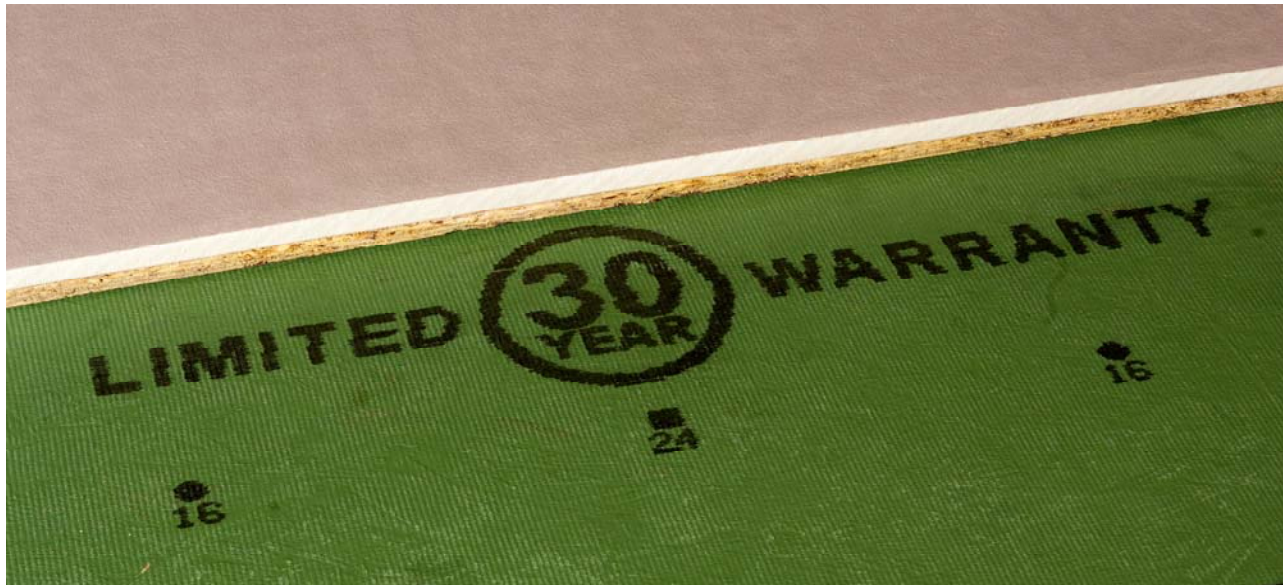


## Technical Tip

### What is ZIP System® R-Sheathing?



ZIP System® R-Sheathing Panels consist of a 7/16" ZIP System sheathing panel and a rigid foam insulation panel bonded on the interior face. When properly installed and taped, ZIP System R Sheathing provides a water-resistive barrier, air barrier and exterior insulation in one product. It is code recognized in ICC-ES ESR-3373 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. The rigid polyisocyanurate foam plastic complies with the ICC-ES Acceptance Criteria for Foam Plastic Insulation (AC12).

ZIP System R-Sheathing is available with a 1/2" or 1" thick foam insulation panel. The OSB wood structural panel substrate is available in the 7/16" thickness and carries the Exposure 1 bond classification. The 7/16" ZIP System substrate satisfies the provisions of U.S. Department of Commerce Voluntary Product Standard 2 (PS2) *Performance Standard for Wood-Based Structural-Use Panels* as specified in Section 3.0 of the evaluation report. R-sheathing panels may be used as braced wall panels in accordance with Method 3 bracing in the 2006 IRC. It may also be used in the construction of wood-framed shear walls, per 2006 IBC. Refer to Table 1 in ESR-3373 or the installation guide for allowable shear capacities for ZIP System® R-sheathing. The aspect ratio for ZIP System R-sheathing is currently limited to 2:1 for shear wall applications. This aspect ratio limitation only applies to shear walls, not Method 3 prescriptive bracing. Fastener type and spacing do not affect the performance of ZIP

System R-sheathing to function as a water-resistive barrier, air barrier and exterior

insulation. Fasteners must have a minimum 1-1/2" penetration into the wood framing when used as a bracing or shear panel. ZIP System R-Sheathing is not recognized for use on light gauge metal framing.

Approved wall coverings include brick, vinyl, stone, fiber cement, wood, traditional hard-coat stucco and adhered stone on buildings of Type V construction and construction permitted under the IRC. ZIP System R-sheathing is solely applicable in wall applications and is not code-recognized in ESR-3373 for roof applications. Do not use R-sheathing as roof sheathing.

Caulk sealants compatible with ZIP System R-sheathing and tape are polyurethane, butyl, and 100% silicone sealants. Do not use latex caulks or other water-based sealants with ZIP System. ZIP System® Liquid Flash is fully compatible with ZIP System R-sheathing.

For use in fire-rated wall assemblies, ZIP System R-Sheathing is recognized in UL Design No. V302 and V303. See [zipsystem.com](http://zipsystem.com) or [ul.com](http://ul.com) for more information on V302 and V303 fire-rated wall assemblies. It may not be used as a substitute for conventional wood structural panels in fire-rated wall assemblies specifying "wood structural panels".

Please visit [zipsystem.com](http://zipsystem.com) or contact our technical services department at 800-933-9220 Ext 2716 with any questions or comments.