Overview

This handbook is intended to provide general information regarding assemblies that have been investigated and evaluated for fire resistance. The assemblies presented in this handbook feature ZIP System® R-Sheathing panels installed as part of an assembly of materials and tested and evaluated in accordance with ANSI UL 263 standard test methods for fire tests of building construction and materials.

The information contained in this handbook is for guidance and reference only. Please refer to the applicable fire-resistance rated assembly published by Underwriter’s Laboratory (UL) for full assembly details, requirements, and options.

Some assemblies present information for the assembly without a wall cladding. This information is meant to represent the base level of performance for the given assembly. ZIP System® R-sheathing panels should always be covered by an appropriate finished wall cladding. Please see the ZIP System® R-Sheathing installation manual available at www.huberwood.com for more information and applicable related UL assembly for cladding use and restrictions.

Fire-Resistance Ratings

A fire-resistance rating is created to determine the necessary fire and smoke barriers to create compartmentalization during a fire, safeguarding against the spread of fire within a building or to and from a building. This section contains descriptions of wall assemblies that have been tested in accordance with ANSI UL 263 for fire-resistance.

Applications and Uses

Code-compliance for ZIP System® R-sheathing is provided in ICC-ES ESR-3373 and ER-0482 for high seismic zones as an exterior sheathing material suitable for use in Construction Type V as defined by the International Building Code (IBC) and International Residential Code (IRC).
ZIP System R-Sheathing Fire-Rated Assemblies

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UL Design No. V302
1hr Fire Resistance (interior)

Interior

- 5/8” Gypsum
- Nom. 2x4 Stud Spaced 16” OC
- Mineral Wool Batt Insulation
- ZIP System® R-sheathing

Exterior

*See applicable UL V302 Design for full assembly details and requirements

UL Design No. V303
1hr Fire Resistance (interior)

Interior

- 2 Layers 5/8” Gypsum
- Nom. 2x4 Stud Spaced 16” OC
- Glass Fiber Batt Insulation
- ZIP System® R-sheathing

Exterior

*See applicable UL V303 Design for full assembly details and requirements
UL Design No. V318
1hr Fire Resistance (interior)

Interior

5/8” Gypsum
Nom. 2x6 Stud Spaced 16” OC
Mineral Fiber Sprayed Insulation
ZIP System® R-sheathing

Exterior

*See applicable UL V318 Design for full assembly details and requirements

UL Design No. U355
1hr Fire Resistance (interior)

Interior

5/8” Gypsum
Nom. 2x4 Stud Spaced 16” OC
Glass Fiber Batt Insulation
ZIP System® R-sheathing

Exterior

*See applicable UL U355 Design for full assembly details and requirements
UL Design No. U364
1hr Fire Resistance (interior and exterior)

**Interior**

- 5/8” Gypsum
- Nom. 2x4 Stud Spaced 16” OC
- Glass Fiber Batt Insulation
- 5/8” Gypsum
- ZIP System® R-sheathing

**Exterior**

*See applicable UL U364 Design for full assembly details and requirements*
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