



## Technical Tip

### Fire Walls Terminating at the Underside of ZIP System® Roof (Exposed to Fire on Interior Face Only)

**DISCLAIMER:** The following fire-protection options are provided to assist in the installation of ZIP System® product(s) and may not apply to every situation. As with all fire-rated assemblies, the Designer-of-Record must provide written approval for the specification and use of fire-protected assemblies or elements. Consult your local building authority for fire-rated construction deemed as acceptable in the jurisdiction having authority. Huber Engineered Woods LLC accepts no responsibility or liability for fire-rated assemblies.

**OPTION 1:** Fire-Resistant rated walls are permitted to terminate at the underside of ZIP System Roof if all of the following conditions are satisfied:

1. The roof-ceiling assembly within 4-feet of each side of the fire wall, including the entire length and span of supporting members including rafters, ceiling joists and trusses, has a fire-resistance rating of at least 1-hour.
2. There are no openings in the roof within 4-feet of the fire wall.
3. Roof coverings are Class B or better.

Consult UL Fire-Rated Directories for approved 1-hour fire-resistant roof-ceiling assembly construction details and information, [www.ul.com](http://www.ul.com).

OPTION 1 satisfies section 705.6 *Vertical Continuity*, Exception 2, of the IBC.

**OPTION 2:** Fire-Resistant rated walls are permitted to terminate at the underside of ZIP System Roof if all of the following conditions are satisfied:

1. There are no openings in the roof within 4-feet of the fire wall.
2. Roof coverings are Class B or better.
3. The ZIP System Roof is protected with 5/8 inch Type X gypsum board directly beneath the underside of the ZIP System sheathing, supported by a minimum of 2-inch nominal ledgers attached to the sides of the roof framing members for minimum distance of 4-feet on both sides of the fire wall.

OPTION 2 satisfies section 705.6 *Vertical Continuity*, Exception 4, of the IBC.

**OPTION 3:** Fire-Resistant rated walls are permitted to terminate at the underside of ZIP System Roof if all of the following conditions are satisfied:

1. There are no openings in the roof within 4-feet of the fire wall.
2. Roof coverings are Class B or better.
3. The ZIP System roof is protected with No Burn® Plus directly beneath the underside of ZIP System sheathing in accordance with [ESR-1838](#). No Burn® Plus is a field applied fire-retardant coating manufactured by No Burn® Inc.

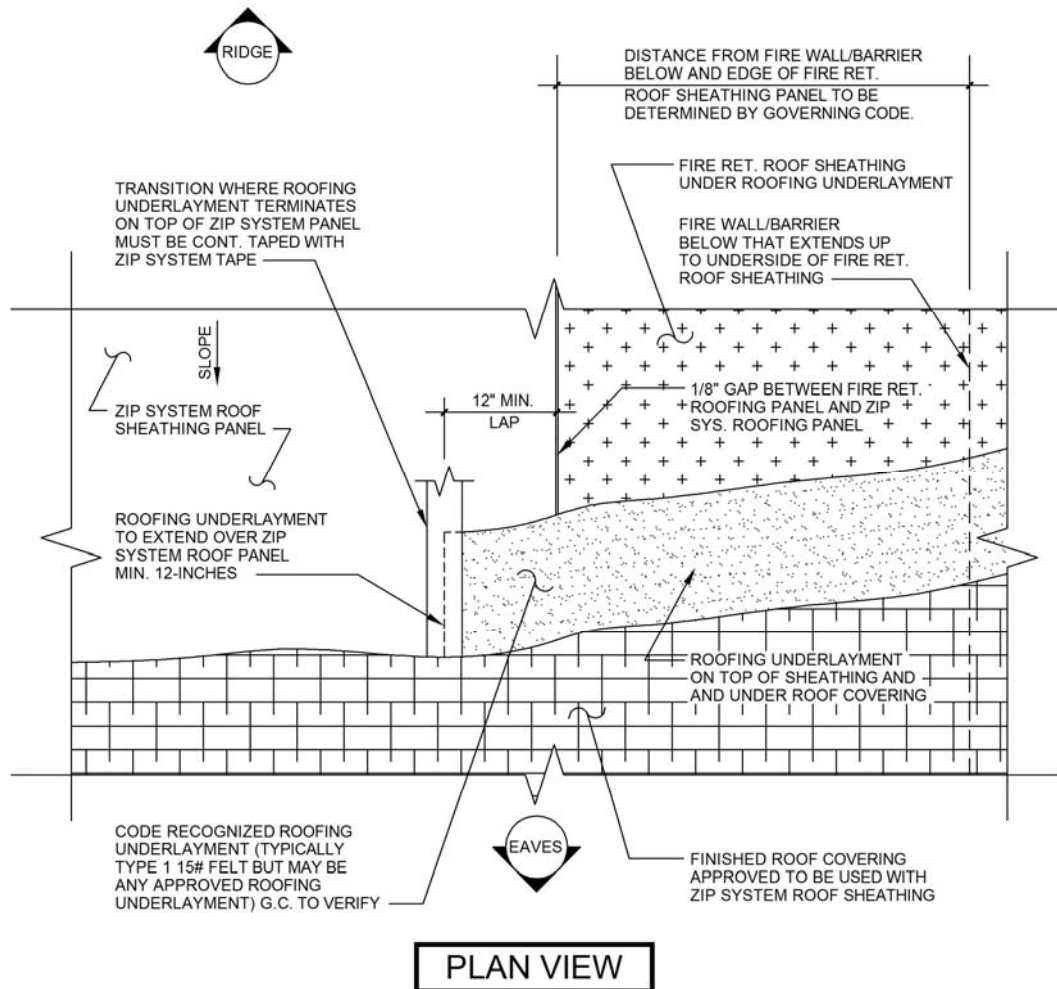


OPTION 3 is recognized by the 2006 IBC as an alternative method of achieving a Class A flame spread classification as allowed by Section 140.11, *Alternative Materials, Design and Methods of Construction and Equipment*, IBC.

**OPTION 4:** Fire-Resistant rated walls are permitted to terminate at the underside of ZIP System Roof if all of the following conditions are satisfied:

1. There are no openings in the roof within 4-feet of the fire wall.
2. Roof coverings are Class B or better.
3. The roof sheathing is constructed of fire-retardant-treated (FRT) plywood 4-feet minimum each side of fire wall. Transition FRT plywood to ZIP System roof sheathing using the following detail.

OPTION 4 satisfies section 705.6 *Vertical Continuity*, Exception 4, of the IBC.



**ZIP SYSTEM® ROOF SHEATHING AND FIRE  
RETARDANT ROOF SHEATHING JOINT DETAIL**