

Technical Tip

ZIP System® R-sheathing at Gable End Walls

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. Due to the combustibility of foam, code requires that foam plastic insulation must be separated from the interior of a building by an approved thermal barrier such as 1/2" gypsum wall panels (See Section R316.4 in the 2012 International Residential Code). ZIP System R-sheathing panels may require an additional ignition barrier depending on accessibility, area and intended use of the attic space. Chapter 3 in the International Residential Code (IRC) and Chapter 26 of the International Building Code (IBC) contain ignition barrier requirements for the use of foam plastic insulation within attic areas.

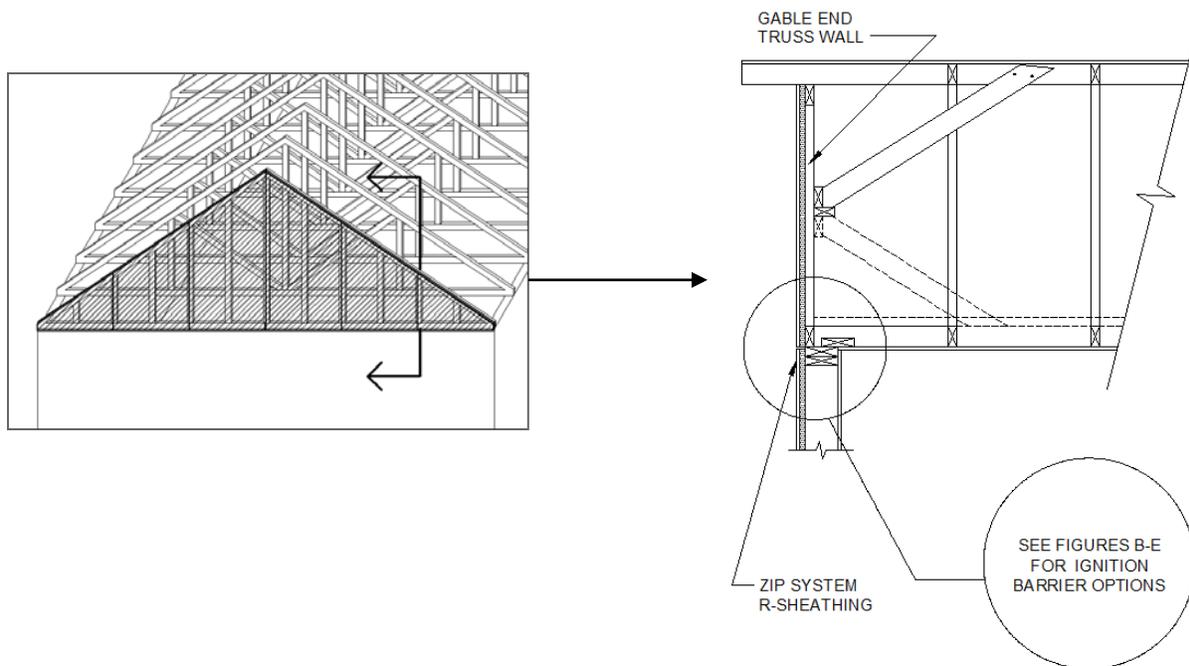


Figure A: ZIP System R-sheathing at Gable End Wall Truss

The following options outline Huber Engineered Woods' (HEW) ignition barrier solutions for ZIP System R-sheathing installed at gable end wall trusses. All proposed solutions comply with the ignition barrier requirements listed within the IRC and IBC.

Option 1: Offset Gable End Truss

Offset the gable end truss a minimum 1/4" from the stud wall below. Fasten ignition barrier (Min. 1/4" wood structural panel or hardboard) directly to the exterior face of the truss, ensuring the panel surface is in line with the stud face below. Fasten ZIP System R-sheathing directly over the wood structural panel per HEW installation guidelines.

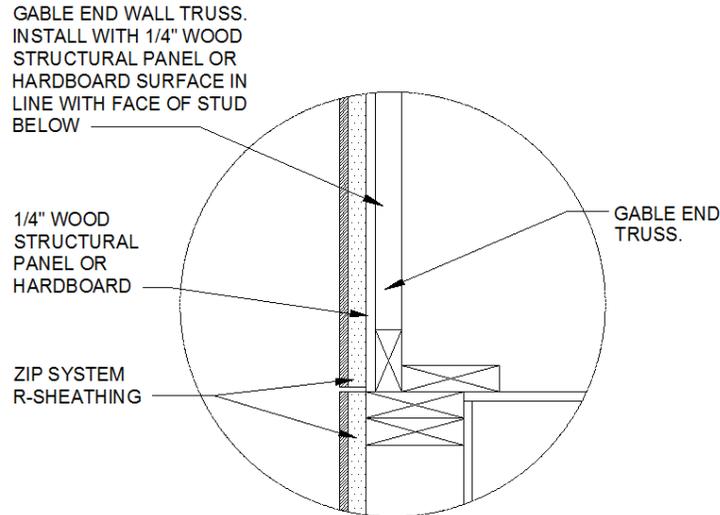


Figure B: Offset Gable End Truss – Ignition Barrier Option 1

Option 2: Furring Strips & 7/16" ZIP System sheathing

Install (1/2" or 1") furring strips that the face of the 7/16" ZIP System sheathing panel is flush with the face of the ZIP System R-sheathing panel below. Note: If sheathing panels are used to resist lateral (shear) forces, furring strips must be installed so that all panel edges are blocked.

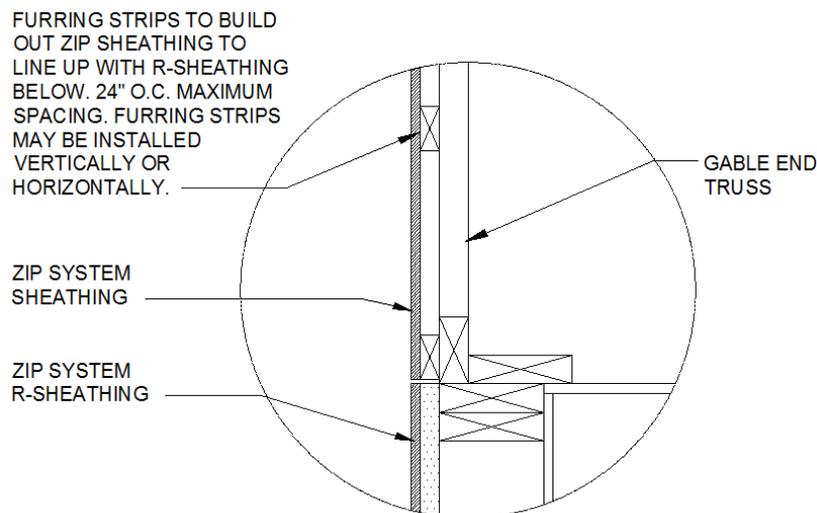


Figure C: Furring Strips – Ignition Barrier Option 2

Option 3: No-Burn® Plus XD Intumescent Coating

Install ZIP System R-sheathing directly to the gable end truss. Once installed, coat the interior side of ZIP System R-sheathing with 10 wet mils of No-Burn® Plus XD. The dry thickness will be approximately 6 mils. Follow the intumescent coating manufacturer's recommendations. No-Burn® Plus XD was tested on ZIP System R-Sheathing in accordance with ICC-ES AC377, Appendix X, November 2012. Please visit www.noburn.com for further information.

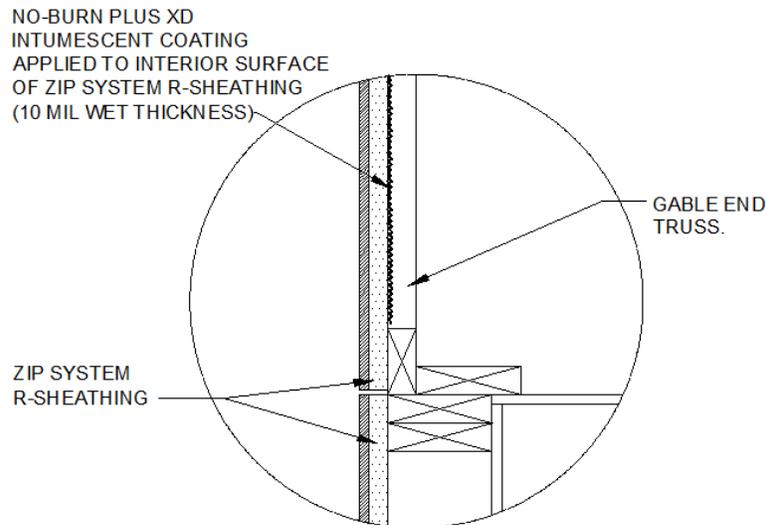


Figure D: No-Burn® Plus XD Intumescent Coating – Ignition Barrier Option 3

Option 4: ZIP System Sheathing with Wood Structural Panel (WSP)

Depending on the thickness of the ZIP System R-sheathing panel below, install a ½” (if using R-3) or 1” (if using R-6) thick wood structural panel directly to the gable end truss. Fasten 7/16” ZIP System sheathing directly to the wood structural panel only. Tape all panel seams using ZIP System™ tape.

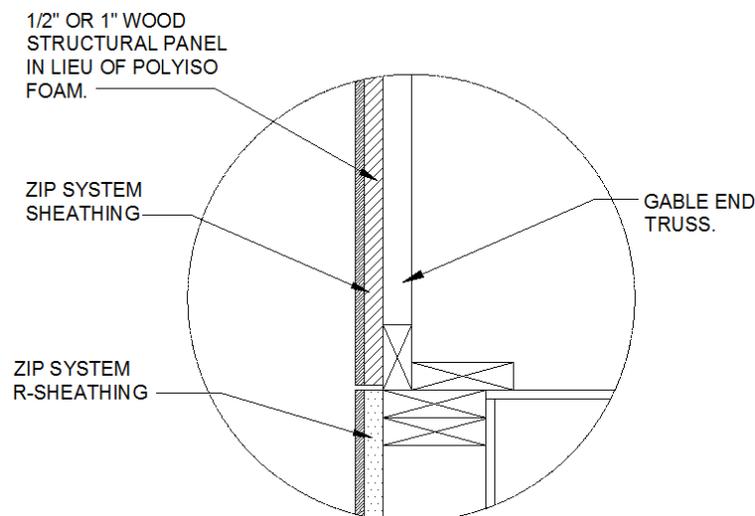


Figure E: ZIP with WSP – Ignition Barrier Option 4

Once all panels have been properly installed and fastened, tape all panel seams. In order to be recognized as a water-resistive barrier/air barrier, all panel seams must be taped using ZIP System tape. See Chapter 3 of the IRC or Chapter 26 of the IBC for a full list of acceptable ignition barrier materials.

Please visit www.zipsystem.com or contact our technical services department at 1-800-933-9220 Ext. 2716 with any questions or comments.