



Thermafiber[®] FireSpan[®] 40 or 90 and Thermafiber[®] Safing Insulation

Fire Resistant Mineral Wool for Walls

Safing Insulation for Openings and Perimeter Fire Containment Systems

FireSpan[®] 40 or 90

FireSpan[®] is minimum 3" thick mineral wool batt insulation material used in CavityComplete[®] Wall Systems that require a perimeter fire containment joint system. It is unfaced or faced on one side with an aluminum foil/scrim vapor retarder. It is supplied in 16" or 24" wide batts to completely fill all stud cavities of the CavityComplete[®] wall above and below the Safing Insulation to provide a fire containment system.

Step 1

Install FireSpan[®] Insulation in accordance with manufacturer's recommendations and not before the exterior sheathing has been installed on one side of the stud cavity and sealed to be water resistant.

Step 2

Protect insulation from damage due to weather and physical abuse until protected by permanent construction.

Step 3

Friction fit FireSpan[®] Insulation tightly into exterior wall steel stud cavity spaces and framing voids to create a continuous insulation layer with adjoining lengths of batt tightly butted without gaps. Trim to fill spaces and voids neatly.

Step 4

Within exterior wall framing, install FireSpan[®] Insulation between pipes, electrical boxes, and backside of sheathing. Cut or split insulation material as required to fit around wiring and plumbing.

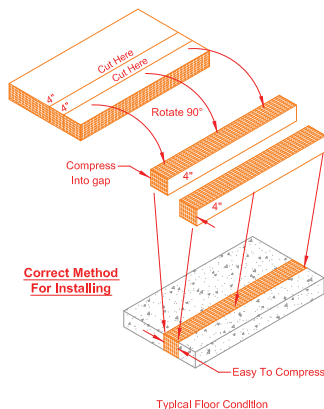


Figure 1: Safing Cutting and Stacking Diagram

Safing Insulation

Thermafiber[®] Safing Insulation is designed to provide fire protection in perimeter fire containment systems, floor and wall penetrations, construction joints, and other firestopping applications.

Step 1

Cut Safing batt into sections a minimum 4" wide. See Figure 1.

Step 2

Stack cut sections to a thickness that is a minimum of 25% greater than the width of the linear gap between the boundary surfaces of the joint (often the edge of the concrete floor and the edge of the exterior gypsum sheathing or, in the case of Safing around a window opening (As shown in Figure 4), the outer face of the exterior gypsum and the back of the brick veneer). The purpose of a stacked thickness greater than the linear opening width is to achieve a minimum 20% compression and tight friction fit after installation. See Figure 1.

Step 3

The stacked Safing insulation is rotated, compressed in the thickness direction, and inserted cut edge first into the linear gap between the edge of floor slab and exterior sheathing material (Figure 3), or, in the case of a window opening, between the face of the exterior gypsum sheathing and the back side of the brick veneer (Figure 4), such that its top surface is flush with the top surface of the floor assembly or, in the case of a window or door opening, the edge of the wall opening (Figure 2).

NOTE: Correct installation is to install compressed in the batt thickness direction, not the batt width direction. See Figure 2.

Step 4

The length of Safing Insulation, if being fit in between steel stud framing, needs to be equal to the on-center spacing of the steel studs so that it is friction-fitted on its ends between studs and mounting angles without seams. If installation is around window openings, it can be any length convenient for handling, often the 4' as manufactured length.

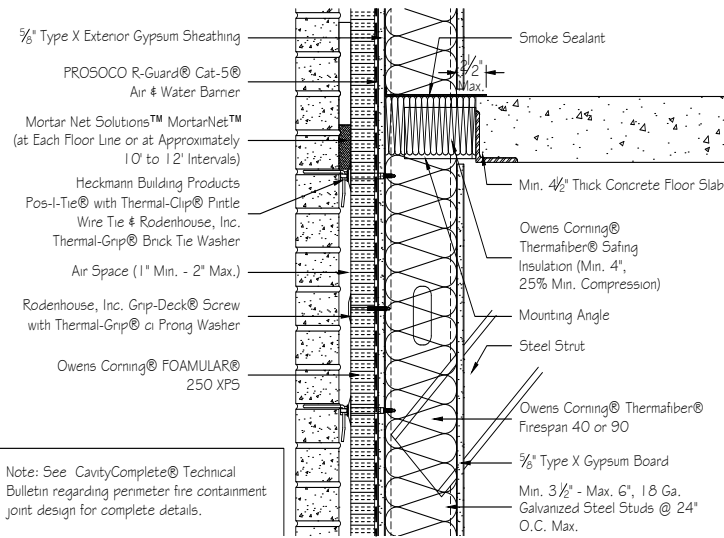


Figure 3: Perimeter Fire Containment System



Figure 2: Correct Compression Installation around an opening in a wall with masonry veneer.

CAD Details are available for download at www.CavityComplete.com.

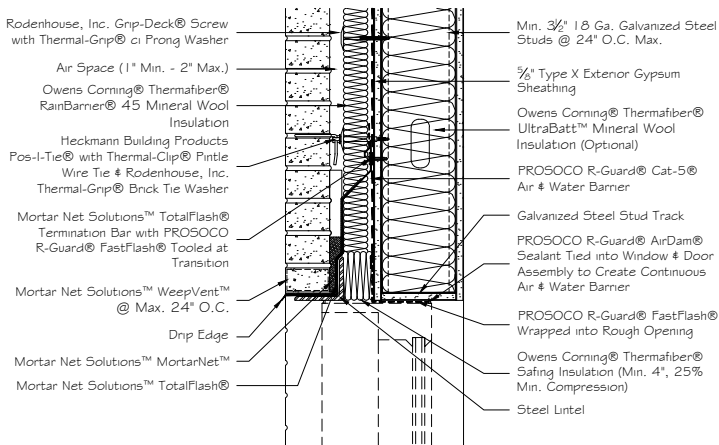
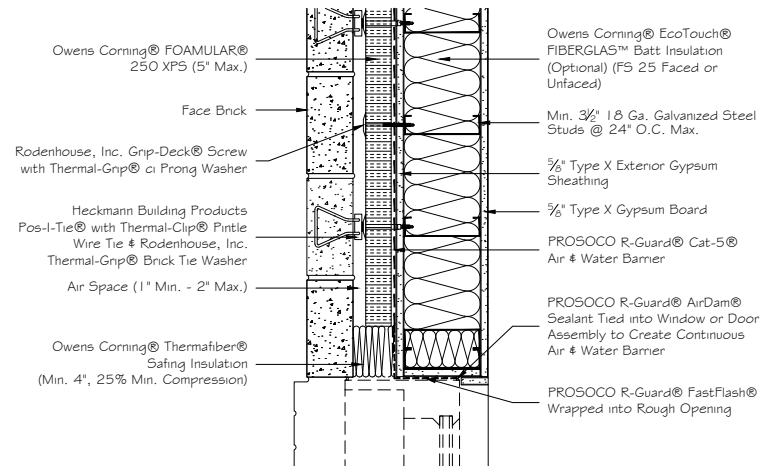


Figure 4: Opening Head with Fire Safing



For additional job specific details and accessory materials to complete the building envelope air barrier such as window to wall, roof to wall, foundation to wall, and for the air barrier membrane transition to other components please visit www.prosoco.com.

Figure 5: Opening Jam with Fire Safing Insulation

The CavityComplete® Wall System excludes the masonry veneer, steel studs and interior and exterior gypsum board. A detailed list of the components is available at www.CavityComplete.com.