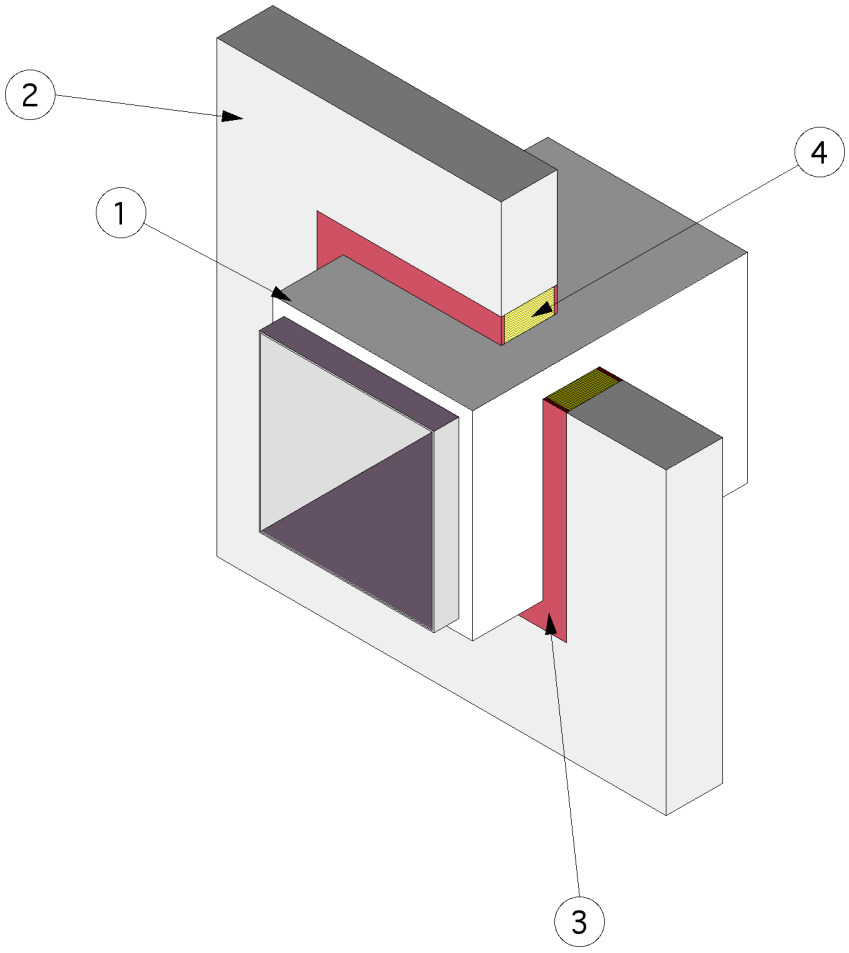
Design No. FS 584 W

FIRE PENETRATION SEAL

Penetrating Item Steel Duct

ISO 6944

Integrity, Stability, Insulation - 2 hr



1. PENETRATING ITEM: An airtight duct system with horizontal shafts constructed of min. 22 GA (0.028 in.) sheet steel with max. 1296-in. area and max. 54-in. width (max. dim. 24-in. x max. 54-in.) and as detailed in Design VAD 527 F.
2. WALL ASSEMBLY: The two-hour fire-rated wall assembly consists of min. 4-1/2 in. thick normal weight (100-150 pcf) reinforced concrete or concrete blocks. Create an opening in the wall assembly measuring max. 32 high x 54-in. wide. Position the duct assembly eccentrically in the opening so that the annular space ranges from min. 3/4in. on one side to max. 3 in. on the other.
3. FILL, VOID OR CAVITY MATERIAL: Min. 1/4-in. depth of sealant fill material is to be applied to the recess around the top surface of the floor through-penetration opening. The sealant material overlapped the concrete and the insulation on the duct nom. 1/2-in.

Listed Manufacturer:

Johns Manville Corporation

Firestopping Sealant

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Firetemp® SI

Firetemp® SE

Firetemp® CI

4. PACKING MATERIAL: Fill the annular space with leftover 1-1/2 in. thick, 8pcf ceramic fiber blanket. Cut the blanket into 9-in strips. Then fold the blanket into a "U" shape and compress it approximately 37% and insert it into the opening to fill the entire annular space. Recess the surface of packing material a min. 1/4 in. from the top surface of the floor, as required to accommodate the necessary depth of caulk fill material.

Listed Manufacturer:

Certainteed

Applied Fireproofing

Insulation Blanket

Flamechek (Duct Insulation)

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