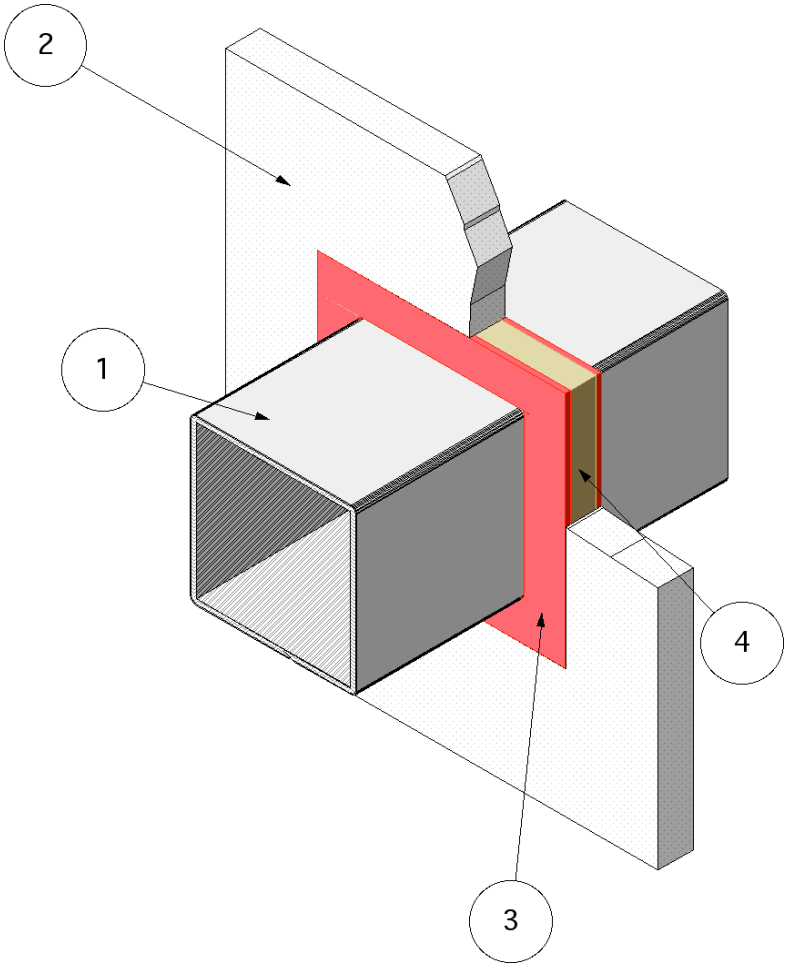
Design No. FS 580 W

FIRE PENETRATION SEAL (Ventilation 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 537 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 on both sides of the wall through-penetration opening. The sealant material is to overlap the concrete and the insulation on the duct nom. 1/2-in.

Listed Manufacturer:

Johns Manville Corporation

Firestopping

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Firestopping Sealant

Firetemp® SI

Firetemp® SE

Firetemp® CI

4. PACKING MATERIAL: Fill the annular space with leftover 1-1/2 in. or 2 in. thick, 8pcf soluble 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 both surfaces of the wall, as required, to accommodate the necessary depth of caulk fill material.

Listed Manufacturer:

Unifrax Corporation

Applied Fireproofing

Insulation Blanket (Soluble Fiber)

FyreWrap® 1.5 Duct Insulation

FyreWrap® MAX 2.0 Duct Insulation

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