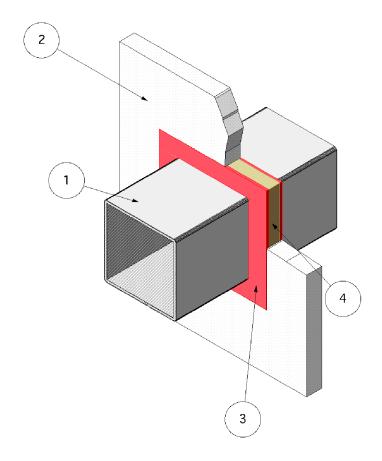
Design No. FS 550 W

FIRE PENETRATION SEAL

Penetrating Item Steel Duct

ISO 6944

Integrity, Stability, Insulation - 2 hr



- 1. PENETRATING ITEM: An liquidtight 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 GD 518 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 over the recessed forming material (4) on both sides of the wall throughpenetrating opening. The sealant material overlapped the concrete and the insulation on the duct nom. 1/2-in.

Listed Manufacturer:

Johns Manville Corporation

Firestopping

Firestopping Sealant

Firetemp® SI

Firetemp® SE

Through-Penetration Fire Stop Systems

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:

Johns Manville Corporation

Applied Fireproofing

Ceramic Blanket

Firetemp® Wrap