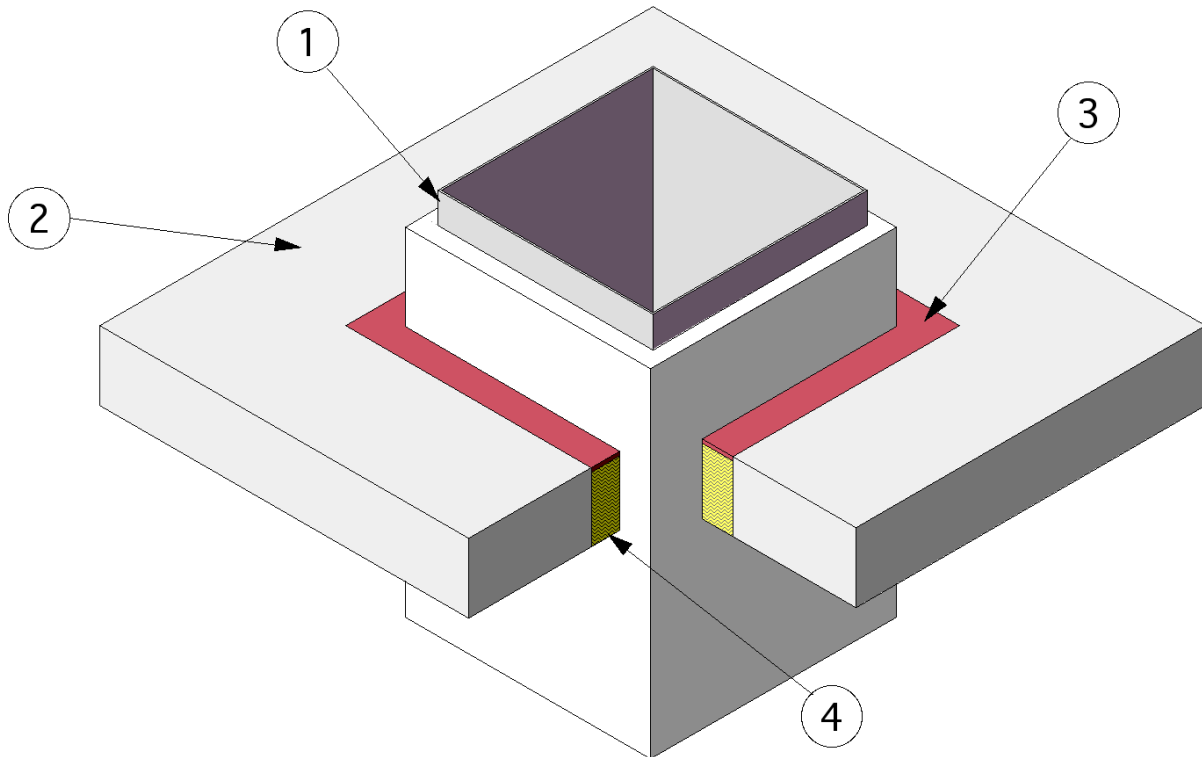

Design No. FS 581 F

FIRE PENETRATION SEAL

Penetrating Item Grease Duct

T-Rating - 1 hr 54 min

F-Rating - 2 hr



1. **PENETRATING ITEM:** 16 GA continuously-welded, liquidtight grease duct system, with both horizontal and vertical shafts permitted, constructed of sheet steel with outside dimensions of max. 49-in. wide x max. 49-in. high, and protected as detailed in Design GD 544 F, GD 545 F, or GD 546 F.
2. **FLOOR/CEILING ASSEMBLY:** The two-hour fire-rated floor/ceiling assembly shall consist of min. 4-1/2 in. thick normal weight (100-150 pcf) reinforced concrete. The size of the opening was 57" x 57". The duct assembly was positioned eccentrically in the opening so that the annular space ranged from 1/2 in. to 4-3/4 in.
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.
4. **PACKING MATERIAL:** Fill the annular space with leftover 1-1/2 in. thick, 6pcf ceramic fiber blanket. Cut the blanket into 4-1/4 in. strips 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

Listed Manufacturer:

Tremco--

Firestopping

Firestopping Sealant

Fyre-Sil GG & Fyre-Sil SL

accommodate the necessary depth of caulk fill material.

Listed Manufacturer:

Thermal Ceramics Inc. --

Applied Fireproofing

Mineral Fiber Firestopping

FireMaster® FastWrap+®