1. **Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

   A **Studs** - Wall framing may consist of steel channel studs. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional stud(s) installed horizontally or vertically as required for steel box attachment.

   B **Gypsum Board** - Gypsum board type, thickness, number of layers, and orientation shall be as specified in the individual Wall and Partition Design. Size of cutout made to accommodate steel box (Item 2) and wrap material (Item 3).

   The hourly **F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Steel Box** - Max 14-3/8 in. (365 mm) wide by 39-1/8 in. (994 mm) steel electrical panel box, steel utility box, or steel med-gas valve box with hinged steel door and mounting flange. Steel box attached to wall framing using steel screws after application of wrap material (Item 3). Sides of steel box may be penetrated by min two min ½” (13 mm) diam steel pipe, iron pipe, copper pipe or tube, steel conduit or EMT. Steel conduit connectors may be used at interface with steel box. Open ends of pipes, tubes or conduits which terminate inside the box to be plugged with sealant or putty (Item 4).
3 Fill, Void or Cavity Materials* - Wrap - Nom 0.4 in. (10 mm) thick flexible sheet material. One layer sized to cover back and four sides of steel box. At corners of steel box, wrap cut horizontally or vertically, extending from corner of steel box to edge of wrap material. Circular openings made in wrap material to accommodate pipes, tubes or conduits sized max ½ in. (13 mm) larger than the outside diameter of the pipe, tube, or conduit. Wrap material folded to maintain contact with back and four sides of steel box. Corners of wrap folded to overlap wrap at opposing sides. At overlap, nom 5/8 in. (16 mm) for 1 Hr and 1-1/2 in. (32 mm) strip of wrap removed. Cut edges and seams of wrap material covered with one layer of aluminum foil tape. Prior to application of wrap material, a bead of construction adhesive to be applied to the back and side of steel box at edge.

SPECIFIED TECHNOLOGIES INC - Thermal Barrier Wrap.

4 Fill, Void or Cavity Materials* - Putty or Sealant - Min ½ in. (13 mm) thickness of sealant or putty applied into ends of pipes, tubes or conduits that terminate inside box. Additional putty or sealant to fill circular cutouts made to accommodate pipes, tubes or conduits. A min ¼ in. (6 mm) diam bead or sealant applied to exposed edge of wrap material.

SPECIFIED TECHNOLOGIES INC - SpecSeal Putty, SpecSeal SSS Sealant or SpecSeal LCI Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.