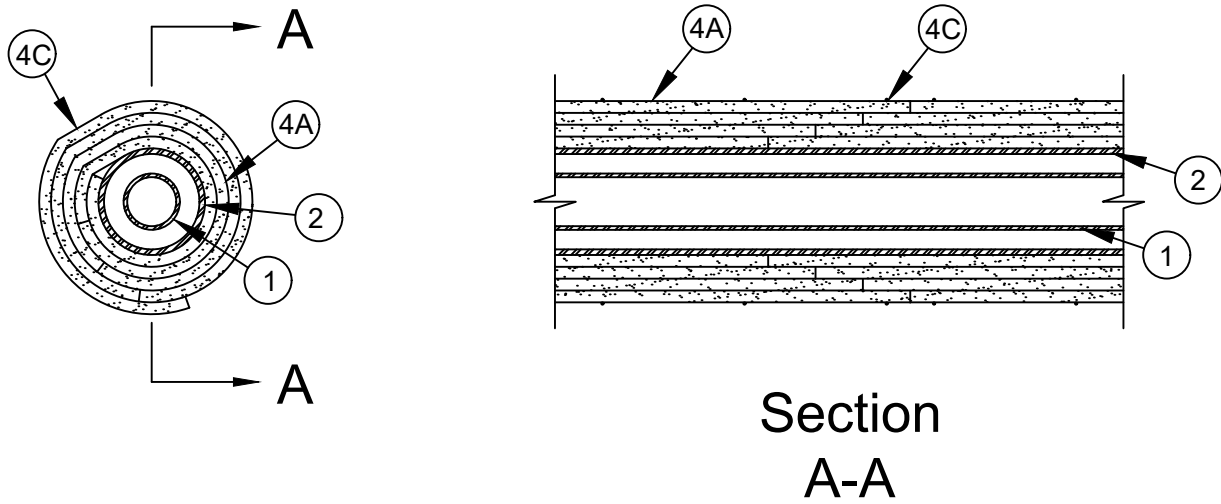




System No. FP-4
Fire Resistance Rating - 2 Hr



1. **Fuel Pipe Assembly** - One or more nom 1 in. (25 mm) diam Max 2 in. (51 mm) Schedule 40 (or heavier) steel pipe with continuously welded fittings installed symmetrically within the outer containment pipe (Item 2) utilizing steel pipe spacers.
2. **Outer Containment Pipe** - Nom 3 in. (76 mm) Max 4 in. (102 mm) diam Schedule 40 (or heavier) steel pipe with continuously welded fittings. Outer containment pipe is sized a minimum 2 sizes larger than the fuel pipe assembly (Item 1).
3. **Pipe Supports** - (Not Shown) - Outer containment pipe shall be supported by steel pipe hangers in conjunction with min 3/8 in. (10 mm) diameter threaded steel rod. A minimum of two layers of wrap are required for the pipe support system per manufactures instructions. Refer to the manufacturer's installation instructions for additional details.
4. **Fire-resistant Pipe-protection System*** - The fire-resistant pipe-protection system consists of a wrap, foil tape, steel tie-wire and caulk. The system shall be installed in accordance with the detailed installation instruction manual supplied by the manufacturer of the Fire-resistant Pipe-protection Materials*. The details of the fire-resistant pipe-protection system are summarized below:
 - A. **Fire-resistant Pipe-protection Materials* - Mat** - Nom 0.5 in. (12.7 mm) flexible sheet material. For outer containment pipe less than nom 4 in diam, min of five layers of wrap are required. For outer containment pipe of 4 in diam, min of four layers of wrap are required. A minimum of two layers of wrap are required for the pipe support system per manufactures instructions. There are three wrapping methods for pipe as follows:

Config A:

Install wrap by cutting to size and wrapping around the containment pipe (Item 2) and itself such that a min 2 in. (51 mm) overlap is present along the longitudinal seam. Adjacent lengths of wrap in each layer to be installed with tightly butted end seams. Successive layers of wrap installed in same manner with butted end seams offset min 2 in. (51 mm) from butted end seams of preceding layer. All seams in each layer of wrap to be sealed with foil tape (Item 4B).

Config B:

Install wrap by cutting to size and wrapping around the containment pipe (Item 2) and itself such that a min 2 in. (51 mm) overlap is present along the longitudinal seam. Adjacent lengths of wrap in each layer to be installed with tightly butted end seams. Successive layers of wrap installed in same manner with butted end seams offset from 0 in (0 mm) to 2 in. (51 mm) from butted end seams of preceding layer. Install a 1/8 depth of caulk (Item 4E) at the butted seam. All seams in each layer of wrap to be sealed with foil tape (Item 4B).



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Config C:

Install wrap by cutting to size and wrapping around the containment pipe (Item 2) and itself such that a single piece of wrap completes all required layers and overlaps past the initial edge 2 in. (51 mm) for each layer that is required by the system. Adjacent lengths of wrap in each layer to be installed with tightly butted end seams. Install a 1/8 depth of caulk (Item 4E) at the butted seam. Install foil tape (Item 4B) along the final longitudinal edge of the overlap and over each seam of the outer layer between adjacent sections of wrap.

SPECIFIED TECHNOLOGIES INC - E-Wrap Endothermic Wrap

- B. **Foil Tape** - (Not Shown) - Nom 3 in. (76 mm) wide min 3 mil (0.08 mm) thick pressure-sensitive aluminum foil tape, supplied in rolls. Used to secure seams of wrap (Item 4A).
- C. **Steel Tie-Wire** - Nominal 16 ga., or heavier, steel wire ties installed over the outermost layer of wrap 1 in. (25 mm) from each seam between adjacent sections of wrap and 6 in. (152 mm) OC between seams.
- D. **Fill, Void or Cavity Materials*** - Caulk - Any joint between the adjacent layers of wrap that exceed 1/8 in. (3.2 mm) in width shall be filled with caulk to the full depth of the joint. For Methods 2 and 3 of Item 4A, Install a 1/8 in (3.2 mm) depth of caulk between the abutting edges of each layer between adjacent sections of wrap.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal Series 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.



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