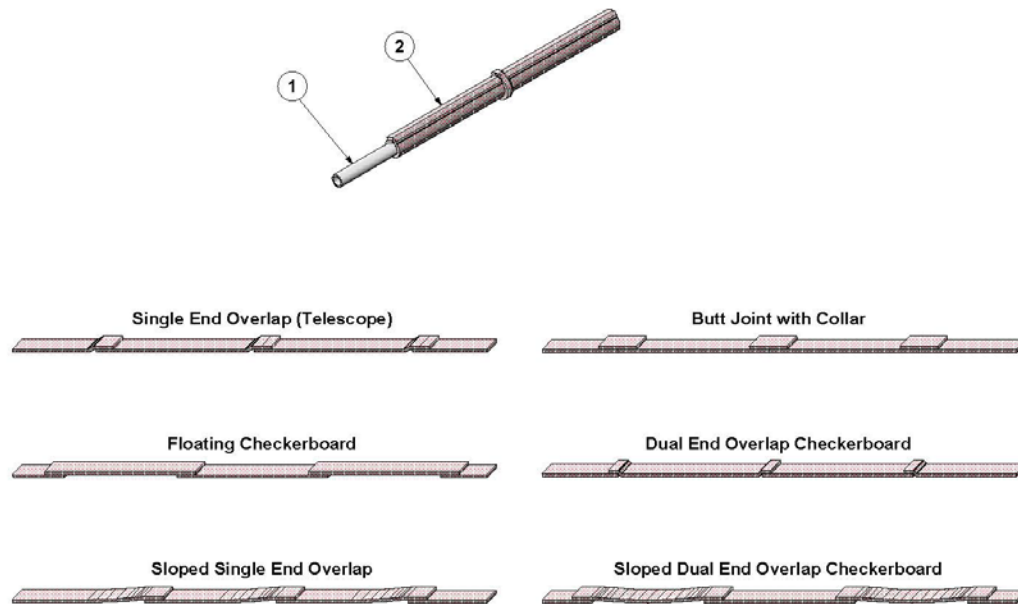

Design Number UNI/BI 20-03
Formerly OPL Design No. PP 102
PLENUM PROTECTION SYSTEM
Unifrax I LLC
FyreWrap® 0.5 Plenum Insulation
UL 1887
Max. Flame Spread 0.01 ft
Max. Smoke (optical density) 0.01
Average Smoke (optical density) 0.00



1. **PIPE ASSEMBLY:** One or more minimum 1 in. diameter pipe or conduits composed of various compositions including polyvinyl chloride (PVC), chlorinated polyvinyl chloride (CPVC), acrylonitrile butadiene styrene (ABS), polybutylene (PB), polyethylene (PE) polypropylene (PP) and polyvinylidene fluoride (PVDF).
2. **FASTENER (Not Shown):** Use either wire ties or steel banding to secure each piece of insulation (3) applied around the pipe assembly (1). When banding is selected, use minimum 1/2 in. wide stainless steel bands, which are nominally 0.015 in. thick or 1/2 in. wide carbon steel banding equivalent. The use of filament tape as a temporary hold for the insulation prior to banding to ease installation is permitted. Place the

bands a maximum 1 in. from each blanket edge. Tension the banding material to hold the insulation in place without causing any cutting or damage to the blanket. When wire ties are selected, use minimum 24 GA steel wire ties. The use of filament tape as a temporary hold for the insulation prior to placing wire ties to ease installation is permitted. Place the wire ties a maximum 1 in. from each blanket edge. Tension the wire ties by twisting them together to hold the insulation in place without causing any cutting or damage to the blanket.

3. **CERTIFIED COMPANY:** Unifrax I LLC
CERTIFIED PRODUCT: Insulation
MODEL: FyreWrap® 0.5 Plenum Insulation

INSULATION: Cover the pipe assembly (1) with a single layer of minimum 1/2 in. thick calcium magnesium silicate blanket with a nominal density of 8 pcf. Use blanket fully encapsulated with foil scrim facing or faced on one side with foil exposed. Place one end of the insulation on the pipe assembly (1) and wrap the insulation completely around the pipe assembly (1). Overlap the other end of the insulation a minimum of 1 in. around the perimeter. Overlap the next blanket onto the first blanket a minimum of 1 in. Overlap adjacent blankets using one of the following methods: (1) telescoping method where each adjacent blanket has one edge exposed and one edge covered by the next blanket, (2) various checkerboard patterns detailed where

both edges of each alternating blanket are covered by each adjacent blanket whose edges are exposed, or (3) a butt splice with collar method where the blankets are butted together and a 2 in. wide collar of blanket is centered over the butt splice overlapping each adjacent blanket 1 in.

4. TAPE (Not Shown): Apply pressure sensitive tape with aluminum foil facing to all exposed edges of the insulation (3). Overlap tape onto insulation a minimum of 1 in.