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## WJ 3197

## System No. W-J-3197

- 2. Firestop Device\* The circular firestop device consists of a flanged circular sleeve, an elastomeric plug with metal trim, elastomeric cable modules and lubricant. The firestop device shall be inserted into the opening on one side of wall assembly. After securement of the sleeve into the wall opening and installation of the plug seal within the sleeve and the modules into the plug seal, the nuts of the plug seal trim plate are tightened to compress the elastomeric plug and form an effective seal around the cables and within the sleeved opening. The device shall be installed in accordance with the accompanying installation instructions and shall include the components as described below.
  - A. CFS-T SLF GS Sleeve Sleeve size to be same as plug seal (Item 2B) size. The following sleeve sizes are covered: SLF 200, SLF 150, SLF 125, SLF 100. The circular steel sleeve of the firestop device shall be inserted into the square wall opening on one side of wall. The flange of the steel sleeve shall rest against the surface of the wall and be secured to the wall by means of one of the following fastener types: min 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel expansion bolts or min 0.145 in. (3.7 mm) diam by 1-1/4 in. (32 mm) long powder actuated fasteners utilizing a 1-7/16 in. (37 mm) diam by 1/16 in. (1.6 mm) thick steel washer or Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWIK-CON II+ concrete screw anchors or Hilti 1/4 in. (6 mm) diam by 1-3/4 in. (45 mm) long KWIK-BOLT 3 steel expansion anchors or Hilti X-DNI 27 P8 S15 powder actuated floor pins with integral nom 9/16 in. (102 mm) with a minimum of four fasteners (one in each side of opening).
  - B. CFS-T RR GS Plug Seal CFS-T RR GS Plug Seal. Plug seal size to be same as sleeve (Item 2A) size. The following plug seal sizes are covered: RR 200, RR 150, RR 125, RR 100.
  - C. CFS-T Cable Modules The rectangular annular space within the firestop device plug seal is completely filled with elastomeric cable modules, one specifically sized for the outer diameter of each cable penetrant. The cable modules are installed in uniform rows within the device. The total number of modules required within the device is specified by Hilti based on the device size and cable diameters.
     D. CFS-T LUB Lubricant is applied to each cable module prior to installation within the device frame.
  - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CFS-T RR Plug Seal
- 3. Fill, Void or Cavity Material\* (Not Shown) Prior to the installation of the flanged sleeve (Item 2A), a min 1/2 in. (13 mm) diam bead of putty or sealant is installed beneath the sleeve flange around periphery of opening to seal the flange to the wall.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CP 619T Putty Roll, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
  4. Cables Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of copper conductor (unless otherwise noted) cables may be used, except that the total number of cables of types E, F and G below shall not exceed six (6). Within each firestop device, cables shall be used for a total visual cable fill of min 0 percent to max 100 percent (one cable in each cable module within the device).
  - A. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
  - B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
- C. Max 24 fiber fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/2 in. (13 mm).
  - D. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable (Romex) with PVC insulation and jacket.
  - E. Max 4/0 AWG 600V aluminum Type XHHW-2 ground cable with XLPE jacket and insulation.
  - F. Max 150 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
  - G. Max 7/C with ground, 600 V, No. 10 AWG (or smaller) copper conductor, aluminum armor TECK 90 cable with XLPE insulation and PVC inner/outer jacket.
- 5. Packing Material Min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening to completely fill the annular space remaining in the wall opening, including between and around cables, from the firestop device (Item 2) to flush with opposite face of wall.

\* 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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