



Classified by Underwriters Laboratories, Inc. to CAN/ULC-S115

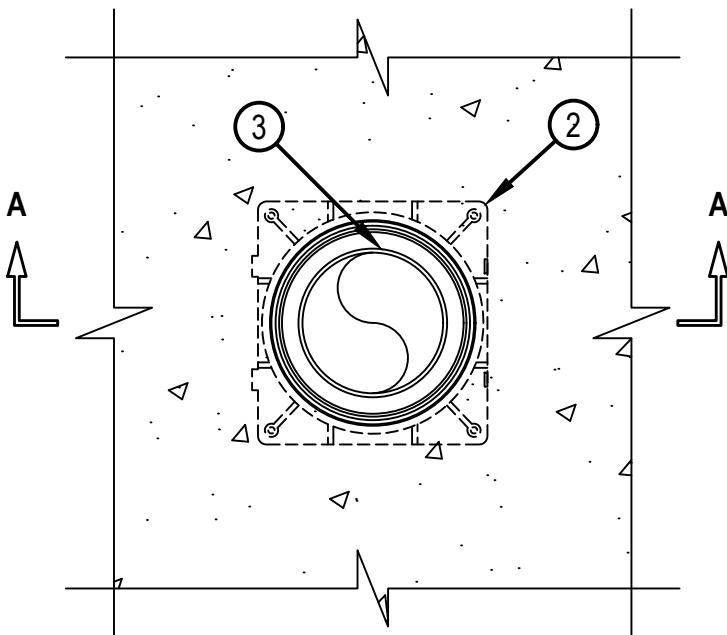
# System No. F-A-2418



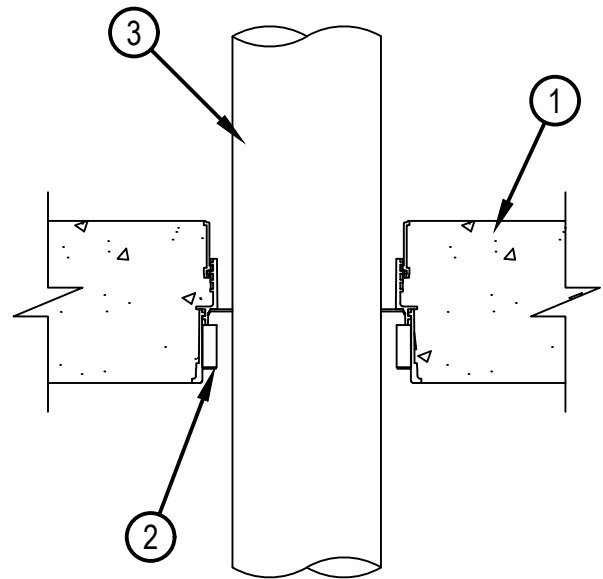
FA 2418

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| CAN/ULC S115   |
| F Rating — 2 Hr  |
| FT Ratings — 1/4 and 2 Hr (See Item 3)                   |
| FH Rating — 2 Hr   |
| FTHs Rating — 1/4 and 2 Hr (See Item 3)                  |
| L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 3) |
| L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 3)   |

**TOP VIEW**



**SECTION A-A**



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# System No. F-A-2418



FA 2418

System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Floor Assembly — Min 114 mm (4-1/2 in.) thick light weight or normal weight concrete (1600-2400 kg/m<sup>3</sup> or 100-150 pcf).
2. Through Penetrant — One nonmetallic pipe to be centered within the firestop system. Pipe to be rigidly supported on both sides of floor assembly. The following types and sizes of pipe may be used:
  - A. Polyvinyl Chloride XFR (PVC-XFR) Pipe — Nom 38, 51, 76, 102, or 152 mm (1-1/2, 2, 3, 4, or 6 in..) nominal diam, Schedule 40 XFR PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
  - B. HR Polyvinyl Chloride (PVC-HR) Pipe — Nom 51, 76, 102, or 152 mm (2, 3, 4, or 6 in.) nominal diam NAPSYS-HR PVC Sch 40 pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
3. Firestop Device\* — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete assembly in accordance with accompanying installation instructions. Device to be sized for nom penetrant diam as indicated in Table below. Device cut flush with top surface of the concrete floor.

The FT and FTH Rating is dependent on the nom penetrant diam and device size as specified in Table below. L Rating applies only when the nom diam of pipe equals size of device (2 in. diam pipe in 2" device etc.)

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-CID U 2" CA, CFS-CID U 3", CFS-CID U 4", CFS-CID U 6"

| Nom Penetrant Diam mm ( in.) | Firestop Device | F and FH Rating, hr | FT and FTH Rating, hr |
|------------------------------|-----------------|---------------------|-----------------------|
| 38 (1-1/2) Item 2A           | CFS-CID U 2" CA | 2                   | 1/4                   |
| 51 (2) Item 2A and 2B        | CFS-CID U 2" CA | 2                   | 2                     |
| 51 (2) Item 2A and 2B        | CFS-CID U 3"    | 2                   | 2                     |
| 76 (3) Item 2B               | CFS-CID U 3"    | 2                   | 2                     |
| 76 (3) Item 24               | CFS-CID U 3"    | 2                   | 1/4                   |
| 102 (4) Item 24              | CFS-CID U 4"    | 2                   | 1/4                   |
| 102 (4) Item 2B              | CFS-CID U 4"    | 2                   | 2                     |
| 152 (6) Item 2A AND 2B       | CFS-CID U 6"    | 2                   | 2                     |

\* 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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