

**CITY OF NEW YORK  
DEPARTMENT OF BUILDINGS**

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

Richard C. Visconti, R.A., Acting Commissioner  
MEA 102-00-M  
Report of Material and Equipment Acceptance Division

Manufacturer - Hilti, Inc., 5400 S. 122 E. Avenue, Tulsa, OK 74146.

Product - Firestop device for fire protection

Pertinent Code Section(s) - 27-345.

Prescribed Test(s) - RS 5-19(ASTM E814).

Laboratory - Underwriters Laboratories Inc.

Test Report(s) - UL File R15431 and letter dated May 1, 2000.

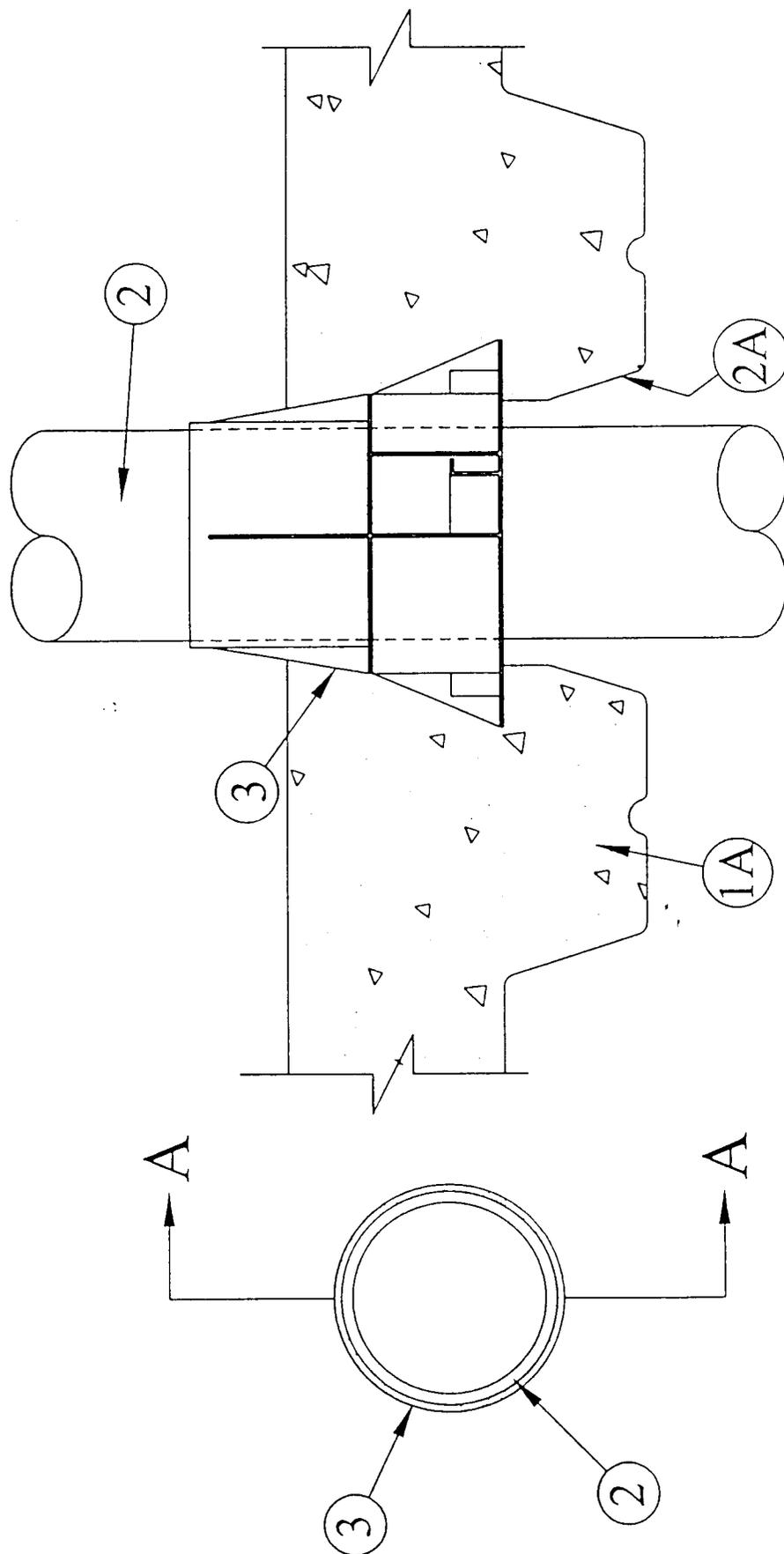
Description - Firestop device for thru-penetrations in fire-rated concrete floors. The Hilti CP 680 Cast-In Device shall be applied in accordance with Underwriters Laboratories Inc. system number listed below in achieving the required fire resistance ratings.

System No.	Fire Protection Ratings (HR)	
	F	T
F-A-1017	3	0

Recommendation - That the above described fill, void or cavity material, used to fill the remaining voids in wall assemblies with the above described fire protection rating, where electrical trays, cables, mechanical piping or ductwork passing through the assembly, be accepted for use in such assemblies which installed accordance with the manufacturer's application instructions. Suitable support angles and fasteners required for respective assemblies shall be provided in accordance with manufacturer's recommendations. All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to those tested and accepted for use, as provided for in Section 27-131 of the Building Code.

# SYSTEM NO. F-A-1017

F RATING - 3 HR  
T RATING - 0 HR



## SECTION A-A

System No. F-A-1017

1. **Floor Assembly**-The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
  - A. **Concrete** – Min 4-1/2 in thick reinforced lightweight or normal weight (100-150 pcf) concrete.
  - B. **Steel Floor and Form Units\***-Composite or non-composite max 3 in. deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
2. **Firestop Device\***-Cast in place firestop device permanently embedded during concrete placement in accordance with accompanying installation instructions. The firestop device shall be sized as follows:

Nom Pipe Diameter	Firestop Device
2 in.	CP 680-75/2.5"
4 in.	CP 680-110/4"
6 in.	CP 680-160/6"

Hilti Construction Chemicals, div of Hilti, Inc. – CP 680-75/2.5",  
CP 680-110/4" or CP 680-160/6"

2. **Through Penetrants** - One metallic pipe, conduit or tubing to be installed concentrically within the firestop device. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The following types of pipe, conduit or tubing may be used:
  - A. **Steel Pipe** – Nom 6 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - B. **Iron Pipe** – Nom 6 in, diam (or smaller) cast or ductile iron pipe.
  - C. **Conduit** – Nom 6 in. diam (or smaller) rigid steel conduit.
  - D. **Conduit** – Nom 4 in. diam (or smaller) steel electrical metallic conduit.
  - E. **Copper Tubing** - Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
  - F. **Copper Pipe** - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

\*Bearing the UL Classification Marking

Underwriters Laboratories Inc.

MAY 25 2000

Final Acceptance \_\_\_\_\_

Examined By S. Derphudam