

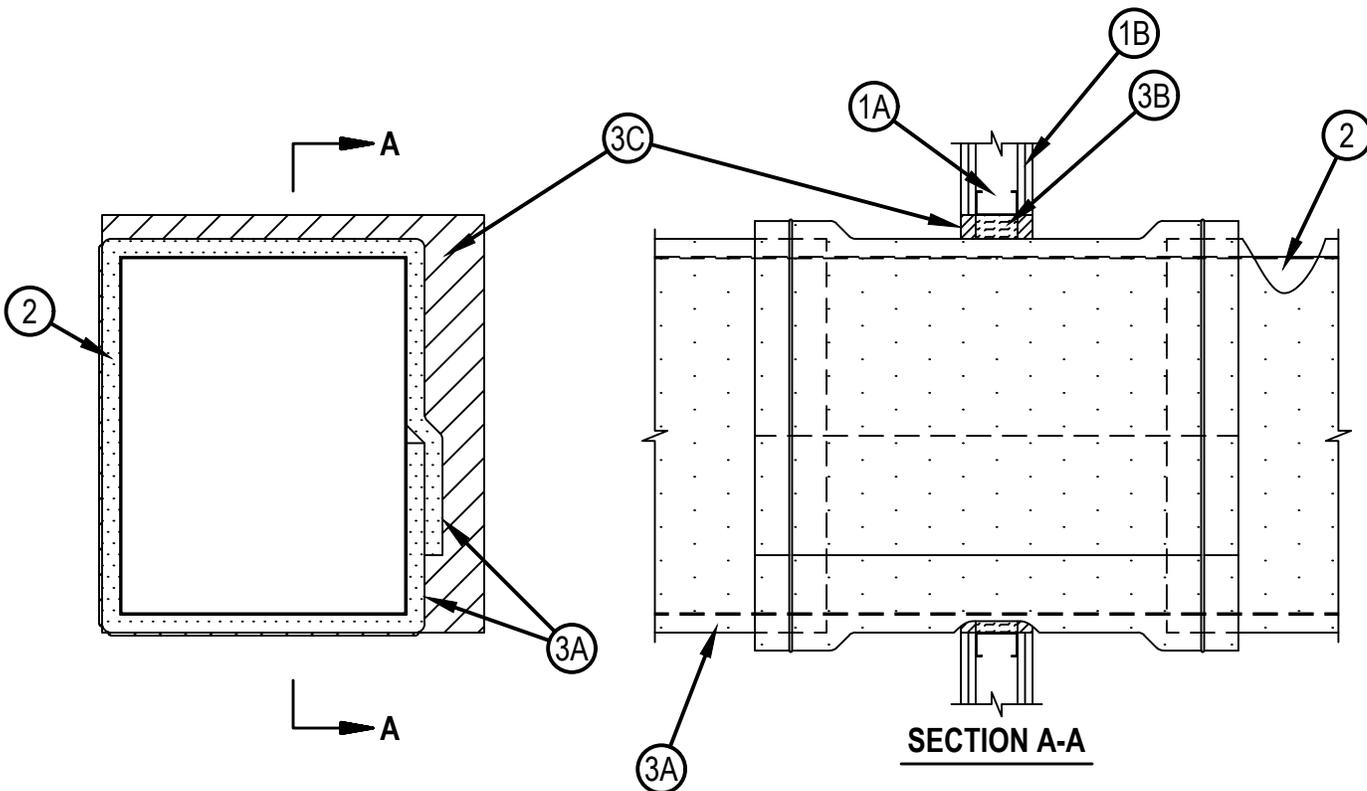


Classified by  
Underwriters Laboratories, Inc.  
to UL 1479 and CAN/ULC-S115

## System No. W-L-7121

WL 7121

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1 and 2 Hr (See Item 1)	FT Ratings - 1 and 2 Hr (See Item 1)
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Ratings - 1 and 2 Hr (See Item 1)



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Design in the Fire Resistance Directory and shall include the following construction features:

- A. Studs — Wall framing shall consist of min 3-1/2 in. (89 mm) wide channel shaped steel studs spaced max 24 in. (610 mm) OC. Additional framing members shall be installed in stud cavity to form a rectangular box around the penetrant.
- B. Gypsum Board\* — 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400, V400 or W400 Series Wall and Partition Design. Max area of opening is 7 ft<sup>2</sup> (0.65 m<sup>2</sup>) with a max dimension of 35 in. (889 mm).

The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrant — One steel duct to be installed within the firestop system. Duct to be rigidly supported on both sides of wall assembly. The following types of steel ducts may be used:

- A. Steel Air Duct — Min 26 gauge (0.5 mm) galv steel duct having a max perimeter dimension of 108 in. (2.74 m) and a max individual dimension of 30 in. (762 mm).
- B. Steel Grease Duct — Min 16 gauge (1.5 mm) thick carbon steel duct having a max perimeter dimension of 108 in. (2.74 m) and a max individual dimension of 30 in. (762 mm). Grease duct assemblies are for use only in 2 hr rated walls.



**Hilti Firestop Systems**

Reproduced by HILTI, Inc. Courtesy of  
Underwriters Laboratories, Inc.  
February 11, 2015

## System No. W-L-7121

WL 7121

### 3. Firestop System — The firestop system shall consist of the following:

A. Duct Wrap Materials\* — Nom 1-1/2 in. (38 mm) thick blanket totally encapsulated within foil-scrim facers. The steel grease duct shall be wrapped with two layers of duct wrap installed in accordance with Grease Duct Assembly No. G-18. See Grease Duct Assemblies in Vol. 2 of the Fire Resistance Directory. The steel air duct shall be wrapped with one layer of duct wrap installed in accordance with Ventilation Assembly No. V-19. See Ventilation Duct Assemblies in Vol. 2 of the Fire Resistance Directory. The annular space between the insulated duct and the periphery of the opening shall be min 0 in. (point contact) to max 2 in. (51 mm).

THERMAL CERAMICS INC — FireMaster Fast Wrap+, FireMaster FastWrap XL, or Pyroscat Duct Wrap XL

B. Packing Material — Min 3-1/2 in. (89 mm) thickness of unfaced scrap duct wrap material compressed 50 percent into opening as a permanent form between the insulated steel duct and the periphery of the opening. Packing material shall be firmly packed to max extent possible at gypsum board/insulated steel duct interface on both sides of the wall. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.

C. Fill, Void or Cavity Material\*- Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. A min 1/4 in. (6 mm) diam bead of sealant shall be applied at the gypsum board/insulated duct interface on both surfaces of wall assembly.

EGS NELSON FIRESTOP — ES1399 or LBS3 Sealant

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

RECTORSEAL — 835+ Sealant, FS 900+ Sealant, FS 1900 Sealant

SPECIFIED TECHNOLOGIES INC — SpecSeal 100, SpecSeal 150, or SpecSeal LCI Sealant

TREMCO INC — Fyre-Sil, TREMstop Acrylic or TREMstop Intumescent Acrylic Sealant

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



**Hilti Firestop Systems**

Reproduced by HILTI, Inc. Courtesy of  
Underwriters Laboratories, Inc.  
February 11, 2015

Page: 2 of 2