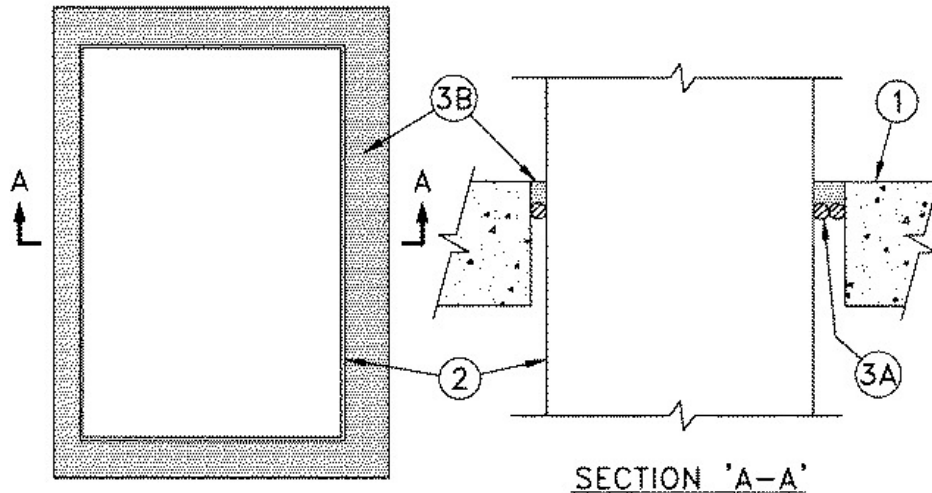


ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 3 Hr	F Ratings - 3 Hr
T Ratings - 0 Hr	FT Ratings - 0 Hr
	FH Ratings - 3 Hr
	FTH Ratings - 0 Hr



1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced light weight or normal weight (100~~150~~ pcf) concrete. Floor may also be constructed of any min 8 in. thick UL Classified hollow core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 384 sq. in. with max dimension of 32 in. When precast concrete units are used the max area of opening is 49 sq. in. with max dimension of 7 in.

See **Concrete Blocks** (CAZT) and **Precast Concrete Units*** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. Steel Duct — Nom 30 by 10 in. (or smaller) by No. 24 gauge (or heavier) galv steel duct. One steel duct to be positioned within the firestop system. The annular space shall be min 1/2 in. to max 1-1/2 in. Duct to be rigidly supported along its entire perimeter 4 in. from both floor or wall surfaces.

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

A. Packing Material — Nom 1 in. diam foam backer rod or min 4 pcf mineral wool insulation, firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material.

B. Fill, Void, or Cavity Materials* - Sealant — Min 1 in. thickness of fill material applied within the annulus, flush with the top surface of floor or both surfaces of wall. When the floor is constructed of hollow-core precast concrete units, fill material shall be installed on both sides of the floor.

RECTORSEAL — FlameSafe® FS900+, **Metacaulk MC 150+**, Biostop BF **150+**

*,+ 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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