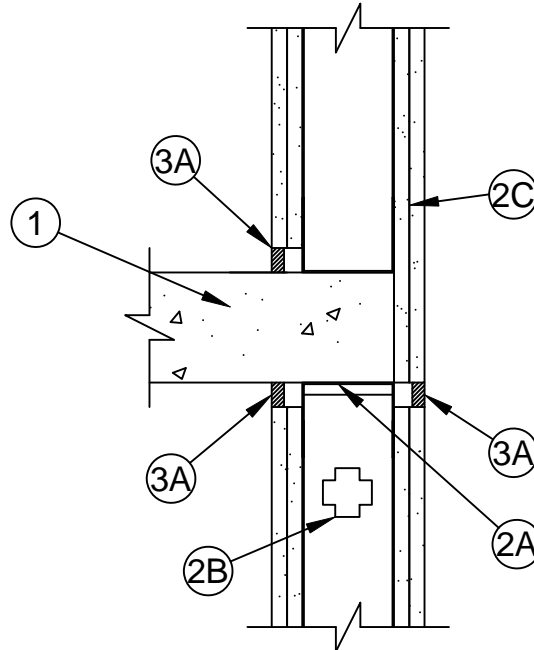




System No. HW-D-0618

Assembly Ratings - 1 and 2 Hr (See Item 2)
 Nominal Joint Width - 3/4 in. or 1 in. (See Item 3)
 L Rating At Ambient - Less Than 1 CFM/Lin Ft
 L Rating At 400 F - Less Than 1 CFM/Lin Ft
 Class II and III Movement Capabilities - 19% or 100% Compression or Extension
 or 25% Compression (See Item 3A or 3B1)



1. **Floor Assembly** - Min 4-1/2 in. (114 mm) thick steel reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***. See **Precast Concrete Units** (CFTV) category in the Fire Resistance Directory for names manufacturers.

The hourly fire rating of the floor assembly shall be equal or greater than the hourly fire rating of the wall assembly.

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

- A. **Steel Floor and Ceiling Runners** - Floor and ceiling runners of wall assembly shall consist galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with min 2 in. (51 mm) to max 3 in. (76 mm) flanges.
- B. **Studs** - Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 in. to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and secured to floor runner. Studs to nest in ceiling runner without attachment unless slotted ceiling runner is used. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 (13 mm) long wafer head steel screws at mid-height of slot on each side of wall.
- C. **Gypsum Board*** - Gypsum board sheets installed to a min total 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness on each side of wall for 1 hr and 2 hr fire rated assemblies, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory except that a max 3/4 or 1 in. (19 or 25 mm) gap shall be maintained between the top of the gypsum board and the bottom of the floor. The gypsum board on the shaft side shall extend flush with bottom of floor assembly. The screws attaching the gypsum board to the studs along the top of the wall shall be located 1 in. (25 mm) below the bottom of the ceiling runner. No gypsum board attachment screws shall be driven into the ceiling runner.

The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Joint System** - Max separation between bottom of floor and top of gypsum board panels (non-shaft side) and between gypsum board panels (shaft side) at time of installation is 3/4 or 1 in. (19 or 25 mm). When Item 3B1 is used in lieu of the mineral wool strips described in Item 3B, the maximum joint width is 3/4 in. and the movement capability of the joint system is 100 percent compression or extension. Otherwise, the movement capability of the joint system is 19 percent compression or extension. The joint system shall consist of forming and fill materials, as follows:



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HW-D-0618
 PAGE 1 OF 2

- A. **Fill, Void or Cavity Material*** - Min 1/2 in. (13 mm) depth of sealant applied within the joint between gypsum board sheets and between gypsum board and concrete at top and bottom of floor. When gypsum board abuts top surface of floor, the fill material is optional unless required by local code. When gypsum board on shaft side is continuous without a joint opening to allow for movement, the joint system shall be limited to static conditions.

SPECIFIED TECHNOLOGIES INC - SpecSeal ES Sealant or LC150 Sealant

- B. **Forming Material*** - (Not Shown) - As an alternate to Item 3A when used in conjunction with Item 3C, strips of nom 4 pcf (64 kg/m³) mineral wool cut to a width equal to thickness of gypsum board layers are compressed 50 percent in thickness and installed flush with wall surfaces. When gypsum board abuts top surface of floor, the forming material is optional unless required by local code.

- B1. **Forming Material*** - (Not Shown) - As an option to Item 3B when the nominal joint width is 3/4 in. (19 mm) or less, nom 3/16 in. (4.8 mm) thick by 4 in. (102 mm) high joint forming material profile installed on both sides of the wall assembly. Profile installed by first marking a line across the top of the wall 3 in. (76 mm) below the bottom plane of the steel floor or roof deck valleys. Joint profile material positioned with its top edge against both the underside of the spray-applied fire-resistive material with its bottom edge on the line scribed on the wall assembly. Bottom of the joint profile attached to gypsum board with nom 1/2 in. (13 mm) long steel staples spaced not greater than 8 in. (203 mm) OC. Adjoining lengths of profile to overlap approx 3/4 in. (19 mm) at rabbeted ends. When Item 3C1 is used, the movement capability of the joint system is 100 percent compression or extension.

SPECIFIED TECHNOLOGIES INC - SpecSeal Speed Flex Joint Profile

- C. **Fill, Void or Cavity Material*** - (Not Shown) - When Item 3B is used, min 1/8 in. (3.2 mm) wet or 1/16 in. (1.6 mm dry) thickness of spray applied atop mineral wool with 1/2 in. (13 mm) overlap onto surrounding substrates. When gypsum board abuts top surface of floor, the fill material is optional unless required by local code.

SPECIFIED TECHNOLOGIES INC - SpecSeal AS200 Elastomeric Spray

*Bearing the UL Classification Mark



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HW-D-0618
PAGE 2 OF 2