

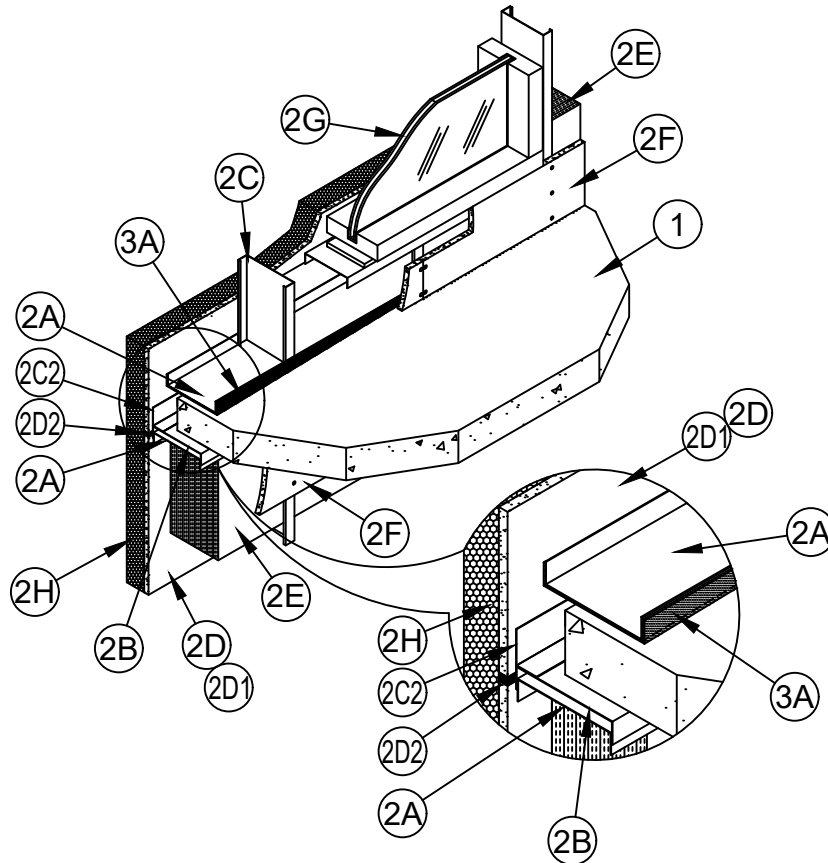


System No. CW-S-0007

F Rating - 2 Hr

T Rating - 0 Hr

Linear Opening Width - 2 In. Max



1. **Floor Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete slab.
2. **Curtain Wall Assembly** - The curtain wall assembly shall incorporate the following construction features:
 - A. **Steel Floor and Ceiling Runners** - Floor and ceiling runners of wall assembly shall consist of channels sized to accommodate steel studs and formed from min 25 gauge (min 0.025 in. or 0.64 mm thick) galv steel. When deflection channel (Item 2B) is used, flange height of ceiling runner is to be equal to or greater than flange height of deflection channel and the ceiling runner is to nest within the deflection channel with a 1/2 to 3/4 in. (13 to 19 mm) gap maintained between the top of the ceiling runner and the top of the deflection channel. When deflection channel is not used, flange height of ceiling runner shall be min 1-1/4 in. (31 mm). Steel runner channel installed to extend max 2 in. (51 mm) beyond edge of slab and secured with steel masonry anchors spaced max 16 in. (406 mm) OC.
 - B. **Deflection Channel** - (Optional) - Max 2 in. (51 mm) deep min 25 gauge (min 0.025 in. or 0.64 mm thick) galv steel channel sized to accommodate ceiling runner (Item 2A). Deflection channel installed to extend max 2 in. (51 mm) beyond edge of slab and secured with steel masonry anchors spaced max 16 in. (406 mm) OC. The ceiling runner is installed within the deflection channel to maintain a 1/2 to 3/4 in. (13 to 19 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner nests inside the deflection channel without attachment.
 - C. **Steel Studs** - C-shaped studs formed from min 25 gauge (min 0.025 in. or 0.64 mm thick) galv steel. The steel studs shall be min 6 in. (152 mm) wide by 1-1/4 in. (31 mm) deep with 5/16 in. (8 mm) wide stiffening flanges. Studs spaced max 16 in. (406 mm) OC and fastened to steel runner channels with steel screws or welds.
 - C1. **King Studs** - (Optional, Not Shown) - Where required, a king stud may be substituted for Item 2C. King studs to consist of two min 6 in. (152 mm) wide by 1-1/4 in. (31 mm) deep C-shaped studs formed from min 25 gauge (min 0.025 in. or 0.64 mm thick) galv steel secured together by welds.



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Created or Revised: February 25, 2019

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CW-S-0007
PAGE 1 OF 2

- C2. **Steel Angle** - Nom 1-1/2 in. (38 mm) high by 3/4 in. (19 mm) wide by min 25 gauge (min 0.025 in. or 0.64 mm thick) steel angle. Nom 3/4 in. (19 mm) leg of angle attached to top of steel ceiling runner or deflection channel by means of steel screws or welds spaced max 16 in. (406 mm) on center with the vertical leg of the angle extending upward.
- D. **Gypsum Board*** - One layer of nom 5/8 in. (16 mm) thick, 48 in. (1.2 m) wide gypsum sheathing installed to cover entire exterior surface of wall. Sheathing applied with joints centered over studs and secured to steel studs with min 1 in. (25 mm) long bugle head steel screws spaced max 8 in. (203 mm) OC along the edges and max 12 in. (305 mm) OC in the field of each sheet.

See **Gypsum Board** (CKNX) category for names of Classified Companies and product types.

- D1. **Cementitious Backer Units*** - As an alternate to the gypsum sheathing (Item 2D), nom 1/2 in. or 5/8 in. (13 or 16 mm) thick square-edge boards attached to studs with 1-1/4 in. (31 mm) long corrosion resistant self-tapping wafer-head steel screws spaced 6 in. (152 mm) OC. Joints covered with glass fiber mesh tape.

UNITED STATES GYPSUM CO - Type DCB

- D2. **Joint Opening** - (Optional) - As an option in Items 2D and 2D1, a max 3/4 in. (19 mm) wide horizontal joint backed by deflection channel (Item 2B) may be included. When installed, the joint shall be located within the vertical span of the deflection channel (Item 2B), and parallel to the safing system (Item 3). Horizontal joint opening in Items 2D or 2D1 sealed with nom 1/2 in. (13 mm) thickness of sealant (**Fill, Void or Cavity Material***) over optional foam backer rod.

DOW SILICONES CORP - DOWSIL™ 790 Sealant, 795 Sealant

PECORA CORP - Dynatrol II Caulk, 864 Silicone Caulk

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SIL300 Sealant

- E. **Batts and Blankets*** - Any glass fiber insulation bearing the UL Classification Marking as to fire resistance or surface burning characteristics, of a width and thickness to completely fill stud cavity. Insulation batts friction fit to completely fill all stud cavities of the curtain wall above and below the fill material (Item 3A).

See **Batts and Blankets** (BZJZ) category for names of manufacturers.

- F. **Gypsum Board*** - One layer of nom 5/8 in. (16 mm) thick, 48 in. (1.2 m) wide gypsum board applied with joints centered over studs. Gypsum board secured to steel studs on interior surface of curtain wall with min 1 in. (25 mm) long bugle head steel screws spaced max 8 in. (203 mm) OC along the edges and max 12 in. (305 mm) OC in the field of each sheet. Gypsum board installed to cover interior surface of wall above the top of the fill material (Item 3A) for a min distance of 4-1/2 in. (114 mm). Gypsum board is optional below floor assembly.

See **Gypsum Board** (CKNX) category for names of Classified Companies and product types.

- G. **Framed Window** - Metal-framed window with nom 1 in. (25 mm) thick (double pane) transparent heat-strengthened or tempered glass panels. Sill of window to be min 4-1/2 in. (114 mm) above top of floor slab. Vertical separation between window punch-outs to be min 36 in. (914 mm). Top of window to be min 24 in. (610 mm) below bottom of floor slab.

- H. **Exterior Insulation and Finish System (EIFS)** - Nom 2 in. (51 mm) thick extruded polystyrene **Foamed Plastic*** insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions.

See **Foamed Plastic** (BRYX or CCVW) category for names of Classified companies.

- I. **Siding, Brick or Stucco** - (Not Shown) - Aluminum siding, steel siding, brick veneer or stucco installed over gypsum sheathing or cementitious backer units and meeting the requirements of local code agencies. Brick veneer wall attached to studs with corrugated metal wall ties attached to each stud with steel screws.

- J. **Glass Fiber Reinforced Concrete (GFRC) Panels** - (Not Shown) - Min 1/2 in. (13 mm) thick glass fiber reinforced concrete (GFRC) panels installed over gypsum sheathing or cementitious backer units and meeting the requirements of local code agencies.

3. **Safing System** - The safing system shall incorporate the following construction features:

- A. **Fill, Void or Cavity Material*** - Factory-supplied intumescent gasket installed and nominally centered over the steel floor runner (Item 2A) prior to attachment to top of concrete floor. Gypsum sheathing (Item 2D) or cementitious backer units (Item 2D1) shall completely overlap intumescent paper profile at time of installation. Gypsum board (Item 2F) on interior surface of curtain wall shall maintain a minimum 1/8 in. (3 mm) overlap over the intumescent paper profile at time of installation.

SPECIFIED TECHNOLOGIES INC - Speed Flex Track Top Gasket

* 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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CW-S-0007
PAGE 2 OF 2