

Grabber Construction Products, Inc.

Design No. JWA/PV 120-05

Metal Decking to Vertical Wall Assemblies

GrabberGard EFC, GrabberGard IFC and GrabberGard EFS

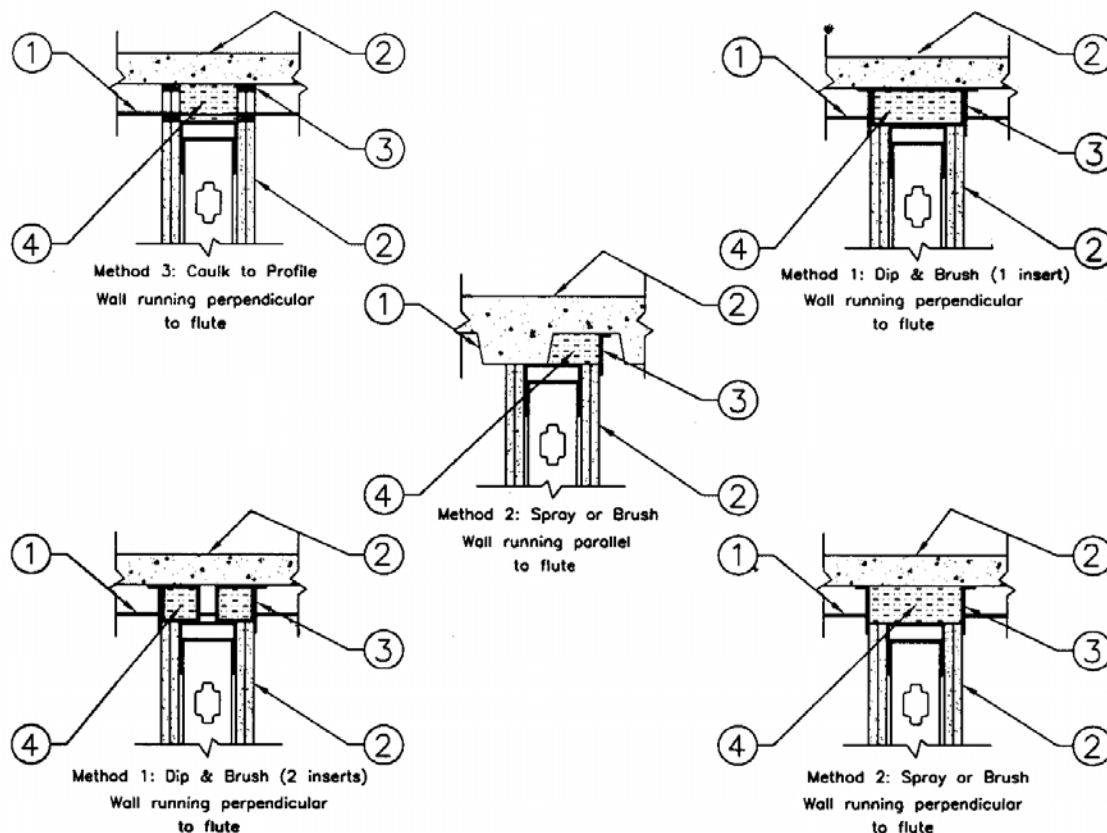
Test Standards: ASTM E814, UL 1479, ULC S115

Test Furnace Internal Positive Pressure Differential – 2.5 Pa (0.01 in. of water) Minimum

Max Joint Width – 1in.

Joint System Cycled 500 Times at 10 Cycles Per Minute – 25% Compression or Extension

Rating: Up to 2 Hour "FTH"



1. STEEL DECKING: Min. 22 GA or equal galvanized steel decking with up to 3-1/2 in. (88mm) flute height, firmly supported with or without concrete cover.

2. FLOOR/CEILING FIRE SEPARATIONS:

- a) 1 and 2 hour ASTM E-119 or CAN/ULC S101 fluted steel deck roof/ceiling or floor/ceiling assemblies.

3. WALL FIRE SEPARATIONS TERMINATING AT FLUTED STEEL DECK:

- a) 1 and 2 hour ASTM E-119 or CAN/ULC S101 metal or wood framed gypsum wall board (GWB) assemblies or;
- b) Cast-in-place normal or light density concrete floor/ceiling assemblies having a min. cross-section thickness of 4-1/2 in. (114mm) or;



- c) Cast-in-place concrete wall assemblies having a min. cross-section thickness of 6 in. (150mm) or;
- d) Hollow or concrete filled unit masonry (concrete block) wall assemblies laid up with mortar having a min. cross-section thickness of 8 in. (200mm).

4. FIRESTOP SYSTEM COMPONENT 1:

METHOD 1 – DIP & BRUSH: Dip each insert individually and fully coat in GrabberGard EFS* (firestop mastic), insert into flute opening to the desired depth. Brush exposed surface of insert on both sides smooth overlapping 1/2 in. (13mm) onto metal decking and/or the wall assembly to ensure complete coverage and no small gaps or pin holes exist. Brush excess material between flute foot and deflection/slip track to the next open flute cavity, sealing the seam between the steel decking and the deflection/slip track. If larger spaces are evident, fill tightly with mineral wool and brush a 1/16 in. (60mil) coat of GrabberGard EFS* to fully cover the area.

METHOD 2 – SPRAY OR BRUSH: Install each insert at the desired location and spray or brush one heavy coat of GrabberGard EFS* 1/8 in. (120mil) thick on both sides of the assembly, fully covering all voids and overlapping a min. of 1/2 in. (13mm) onto the metal deck and wall assembly.

METHOD 3 – CAULK TO PROFILE: Cut the gypsum wallboard to the profile of the deck and install to within 3/4 in. of the deck. Caulk GrabberGard EFC* or GrabberGard IFC* into the gap between the gypsum board and the

deck to the depth of the gypsum board membrane.

- 5. FIRESTOP SYSTEM COMPONENT 2:** Flute Opening: Insert of 4-6 PCF (68kg/m³) mineral wool, cut 10% larger than the opening area. Depth: Cut the mineral wool insert to a depth of 5 in. (125mm) for the single insert detail, for the two-piece detail cut two 2-1/2 in. deep inserts. Two-piece details can be installed one on each side of the assembly flush with the membrane surface. Additional pieces of mineral wool batt insulation are to be compressed 33% in thickness and are installed to completely fill the gap above the top of the wall and the bottom of the steel floor units, flush with both surfaces of wall. Mineral wool inserts can be installed in any of the configurations detailed in Methods 1 and 2. Exception: When flutes are running parallel with the wall, cut 4-6 PCF (68kg/m³) mineral wool inserts to the desired shape, 10% larger than the opening area, and compress into the open cavity. All details require sealant as outlined in Section 3 of this system design.

- 6. FIRESTOP SYSTEM COMPONENT 3: (Optional)** When gaps between top of wall and bottom of the steel deck is less than or equal to 3/4 in. Nominal 1 in. diameter polyethylene rod compressed and firmly packed into the nominal 3/4 in. gap between the top of the wall and the bottom of the steel deck and forming material (Item 5) in areas of fluted deck. Backer rod compressed to be flush with surface of wall.

*WH Labeled Component