LISTING INFORMATION OF

International Fireproof Technology Inc. - Joint Systems

SPEC ID: 43848

International Fireproof Technology Inc.
17528 Von Karman Avenue

Irvine, CA 92614

This specification covers multiple firestop materials manufactured by International Fireproof Technology Inc. See below for individual product descriptions. These products are used, in various combinations to achieve the ratings outline herein. The details of the specfic combinations required will be found in the representative Design Listings and is summarized in the table below.

INSS1186 Elastomeric FireCaulk : INSS1186 Elastomeric FireCaulk is a water based acrylic elastomeric resin material for use on joint systems or firestops. It can be applied by brush, caulking gun, trowel, or airless sprayer. The FireCaulk is available in 310 mL tubes, 1-gallon pails, and 5-gallon pails.

FIRE RATINGS

Test Standard	Products Included	Rating	Design Number
ASTM E1966,	1	T Rating - 120 min., F Rating - 120 min.	**IFT/JF 120-01**
CAN/ULC S115	1	F Rating - 120 min., FT Rating - 120 min., FH Rating - 120 min., FTH Rating - 120 min.	
ASTM E1966,	1	T Rating - 120 min., F Rating - 120 min.	**IFT/JF 120-02**
CAN/ULC S115	1	F Rating - 120 min., FT Rating - 120 min., FH Rating - 120 min., FTH Rating - 120 min.	
ASTM E1966,	1	T Rating - 120 min., F Rating - 120 min.	**IFT/JF 120-03**
CAN/ULC S115	1	F Rating - 120 min., FT Rating - 120 min., FH Rating - 120 min., FTH Rating - 120 min.	
ASTM E1966,	1	T Rating - 120 min., F Rating - 120 min.	**IFT/JF 120-04**
CAN/ULC S115	1	F Rating - 120 min., FT Rating - 120 min., FH Rating - 120 min., FTH Rating - 120 min.	
ASTM E1966,	1	T Rating - 120 min., F Rating - 120 min.	**IFT/JF 120-05**
CAN/ULC S115	1	F Rating - 120 min., FT Rating - 120 min., FH Rating - 120 min., FTH Rating - 120 min.	
ASTM E2307	1	T Rating - 148 min., F Rating - 180 min.	**IFT/BPF 180-01**

Attribute	Value
Criteria	CAN / ULC S115 (2011)
Criteria	ASTM E2307 (2015)
Criteria	ASTM E1966 (2015)
CSI Code	07 84 43 Fire-Resistant Joint Sealants
CSI Code	07 00 00 Thermal and Moisture Protection

CSI Code	07 84 53 Building Perimeter Firestopping
Intertek Services	Certification
Listed or Inspected	LISTED
Listing Section	EXPANSION/SEISMIC JOINTS
Report Number	G102547524; G103082499
Spec ID	43848

DRAWING INDEX

IFT/BPF 180-01

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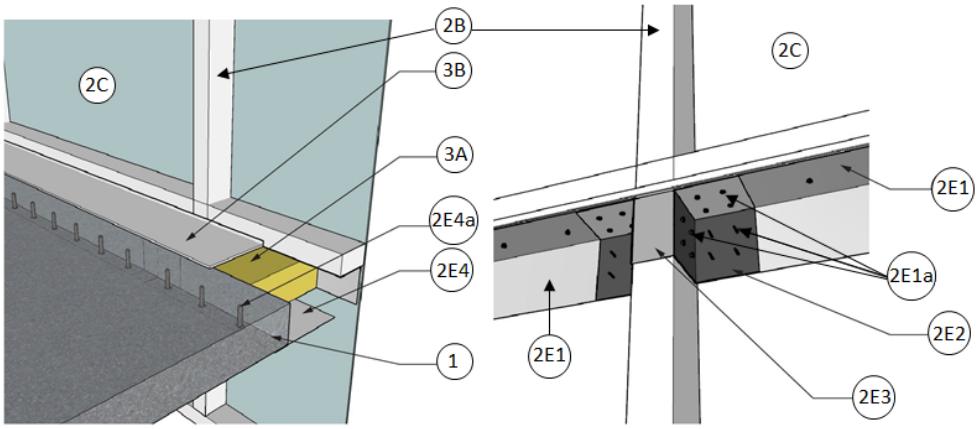
Division 07 – Thermal and Moisture Protection
07 84 00 Firestopping
07 84 53 Building Perimeter Firestopping

International Fireproof Technology
Design No. IFT/BPF 180-01
Perimeter Fire Barrier System
IFTI INSS1186 Elastomeric FireCaulk
ASTM E 2307
Ratings: See Table 1

Table 1

	IFTI INSS1186 Elastomeric FireCaulk
F-Rating	3 Hours
T-Rating	148 Minutes
Application Thickness	1/8 in. wet film
Cycling (%) Horizontal Vertical	 ±12.5% ±5.0%



1. **CONCRETE FLOOR ASSEMBLY:** Concrete floor assembly constructed from either lightweight or normal weight concrete with a density of 100 to 150 pcf, having a min. thickness of 4-1/2 in. at the joint face. When a longitudinal recess (blockout) is required to contain an architectural joint system, increase concrete floor assembly thickness to maintain a min. thickness of 4-1/2 in. and accommodate depth of blockout formed in the concrete: blockout width to be a min. of 8 in.

2. **CURTAIN WALL ASSEMBLY:** The curtain wall assembly shall incorporate the following construction features:

   A. MOUNTING ATTACHMENT (Not Shown) – Attach aluminum framing (Item 2B) to the structural framing according to the curtain wall manufacturer's instructions. Connect the mounting attachments to the joint face of the concrete floor assembly (Item 1)

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according to the curtain wall manufacturer's instructions.

B. ALUMINUM FRAMING – Use hollow rectangular aluminum extruded tubing with min. overall dimensions of 0.100 in. thick, 4 in. high and 2-1/2 in. wide. Locate mullions (vertical aluminum framing) min. 60 in. oc. Locate the transom (horizontal aluminum framing) such that the bottom surface of the transom is at the same height as the top surface of the concrete floor assembly (Item 1).

C. GLASS PANELS – Glass panels shall be sized and installed into aluminum framing (Item 2B) in accordance with the curtain wall manufacturer's instructions. Use min. 1/4 in. thick, clear, heat strengthened (HS) or tempered glass with a max. width and height less than the aluminum framing (Item 2B) oc spacing, which allows glass to be secured to the aluminum framing (Item 2B) between the notched shoulders. Secure glass panels with a thermal break (rubber extrusion), pressure bar (aluminum extrusion), min. 1/4-20 × 5/8 in. long screws, and a snap face (aluminum extrusion).

D. ALUMINUM ANCHOR BRACKETS (Not Shown) – Use min. 1/2 in. thick aluminum anchor brackets to serve as part of the mounting attachment (Item 2A) rigidly secured to the aluminum framing (Item 2B) and the concrete floor assembly (Item 1).

E. STEEL BACK PAN – Assemble a steel back pan to house the mineral wool insulation. The back pan is to be constructed as follows:

i. HORIZONTAL BACK PAN ANGLES – Attach fabricated 18 GA mild steel, 4-1/2 in. high × 3-1/2 in. deep, two at 57-1/4 in. long and two at 20-1/8 in. long (114 mm high × 90 mm deep; two at 1456 mm long and two at 511 mm long), composed of four L-shaped sections to the aluminum framing with No. 8 self-drilling sheet metal screws (Item 2E1a) at 6-1/8 in. oc (157 mm) along the bottom of the transom.

a. FASTENERS – Min. No. 8 self-drilling sheet metal screws

ii. BACK PAN REINFORCEMENT ANGLES – Attach fabricated 18 GA mild steel, 4-3/8 in. high × 3-1/2 in. deep × 4 in. long (111 mm high × 88 mm deep × 100 mm long), composed of eight L-shaped sections installed as end caps to the horizontal back pan angles (Item 2E1) with four No. 8 self-drilling sheet metal screws (Item 2E1a).

iii. FORMED MULLION ATTACHMENT BRACKETS – Attach fabricated 18 GA mild steel, 4-3/8 in. high × 3-1/2 in. deep (111 mm high × 88 mm deep), with flaps at 3-1/2 in. deep × 4 in. long (88 mm deep × 100 mm long), composed of five U-shaped sections installed over the mullions with the flaps inserted between the horizontal back pan angles (Item 2E1) and the back pan reinforcement angles (Item 2E2), using eight No. 8 self-drilling sheet metal screws (Item 2E1a) into the adjoining mullion and transom.

iv. BACK PAN BOTTOM – Attach fabricated 18 GA mild steel, nom. 10 in. wide (two at 57-1/4 in. long and two at 20 in. long), installed under the concrete floor assembly (Item 1), min. 2 in. from the edge of the concrete, aligned such that

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they are centered between the mullions with nom. 1/4 in. clearance on each side. Secure to the concrete floor assembly (Item 1) using min. 1/4 in. × 2-1/4 in. long concrete anchor bolts (Item 2E4a), spaced nom. 5-1/2 in. (140 mm) oc into the concrete floor assembly, nom. 1 in. from the edge.

b. CONCRETE ANCHORS – Min. 1/4 in. × 2-1/4 in. long

3. **PERIMETER JOINT PROTECTION:** The perimeter joint (linear opening) shall not exceed an 8 in. nom. joint width (joint width at installation). Incorporate the following construction features for the perimeter joint protection (also known as perimeter fire barrier system):

A. PACKING MATERIAL – Use only mineral wool bearing an Intertek certified product label and meeting the following min. requirements: Use min. 5 in. tall, 4 pcf density, mineral wool batt insulation and cut packing material width to achieve nom. 25% compression when installed in the nom. joint width. Install with the fibers running parallel to the concrete floor assembly (Item 1) and curtain wall assembly (Item 2A). Cut sections of mineral wool nom. 3 in. and 5 in. thick, stacked on top of each other. Tightly compress together packing material by using two min. 4-1/2 in. wide × 48 in. long × 16 GA thick steel sheets, using two clamps and achieving a nom. 50% compression. Secure bundle using plastic bands or equivalent. Install compressed bundles side-by-side into the joint space, cutting the bands and removing the compression steel sheets. Align and straighten the packing material flush with the top surface of the concrete floor assembly (Item 1).

B. **CERTIFIED MANUFACTURER:** International Fireproof Technology

CERTIFIED PRODUCT: Firestop Sealant

CERTIFIED MODEL: IFTI INSS1186 Elastomeric FireCaulk

FILL, VOID, OR CAVITY MATERIAL: IFTI INSS1186 Elastomeric FireCaulk to be trowel-applied to cover the packing material (Item 3A). Apply at the thickness specified in Table 1 and overlap the material a min. 1/2 in. onto the adjacent curtain wall assembly and concrete floor slab assembly. Reference Product Section of the Intertek Directory for more details on the Listed product.

IFT/JF 120-01

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Division 07 – Thermal and Moisture Protection
07 84 00 Firestopping
07 84 43 Joint Firestopping

International Fireproof Technology
Design No. IFT/JF 120-01
Head of Wall Joint System
IFTI INSS1186 Elastomeric FireCaulk
ASTM E1966-15 and CAN/ULC-S115-11 at 2.5Pa
Rating: T-Rating 2 Hour, F-Rating 2 Hour

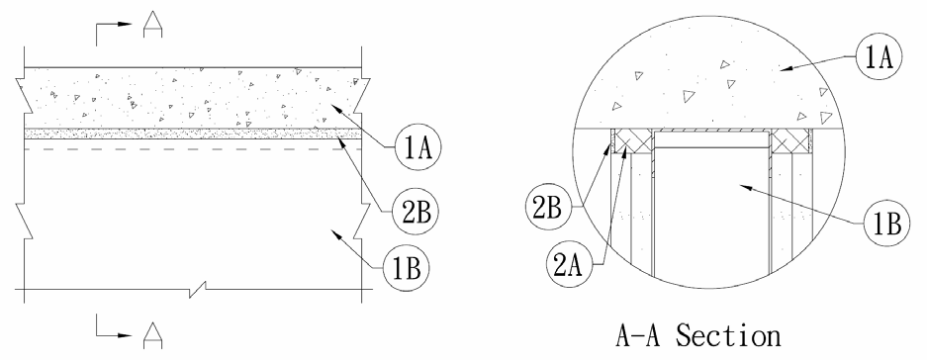

Figure 1. Through Penetration Firestop System

1. **SUPPORTING CONSTRUCTION**:

   A. CONCRETE FLOOR CONSTRUCTION – Min. 4-1/2 in. (114mm) thickness, light or normal weight reinforced concrete having a nominal density of 100 - 150 pcf.

   B. GYPSUM WALLBOARD CONSTRUCTION –
      i. Framing: Min. 25 GA, min. 3-1/2 in. wide, steel channel studs, spaced max. 24 in. on center (oc).
      ii. Floor and ceiling runners (track) of wall assembly shall consist of galvanized steel channels sized to accommodate the studs with min. 1-1/4 in. long flanges.
      iii. Gypsum Board: 5/8 in. thick, Type X, two layers per side.

   Verify compliance of the supporting construction with its corresponding listed design.

2. **FIRE RESISTIVE JOINT SYSTEM:** Install non-loadbearing fire resistive joint system between the top of the gypsum wall supporting construction (Item 1B) and the underside of the concrete floor supporting construction (Item 1A) The joint (linear opening) shall not exceed a 3/4 in. (19mm) nominal joint width (joint width at installation) and the joint treatment shall incorporate the following construction features:

   A. PACKING MATERIAL – Use a min. 4 pcf density mineral wool batt insulation. The total width of mineral wool batt insulation shall fill the width of the joint between the floor assembly and the top of the wall assembly. The thickness of the mineral wool batt insulation shall be larger than the joint and when installed it shall be under 50% compression. Splices (butt joints) in the lengths of mineral wool batt insulation

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are to be tightly compressed together. The packing material covers the exposed surfaces of the gypsum wallboard construction (Item 1B) ceiling runners.

B. FILL, VOID, OR CAVITY MATERIAL – Refer to Figure 1. Apply the following materials as indicated below:

CERTIFIED MANUFACTURER: International Fireproof Technology

CERTIFIED PRODUCT: Firestop Sealant

CERTIFIED MODEL: IFTI INSS1186 Elastomeric FireCaulk

Apply a 1/8 in. (3mm) depth of IFTI INSS1186 Fire Barrier Caulk to cover the exposed surface of the mineral wool packing material (Item 2A) installed in the joint and overlap the material a min. 1/2 in. onto the adjacent gypsum wallboard construction (Item 1B) and the bottom of the concrete floor construction (Item 1A). Tool the surface of the firestop sealant to a smooth finish.

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Division 07 – Thermal and Moisture Protection
07 84 00 Firestopping
07 84 43 Joint Firestopping

International Fireproof Technology
Design No. IFT/JF 120-02
Head of Wall Joint System
IFTI INSS1186 Elastomeric FireCaulk
ASTM E1966-15 and CAN/ULC-S115-11 at 2.5Pa
Rating: T-Rating 2 Hour, F-Rating 2 Hour

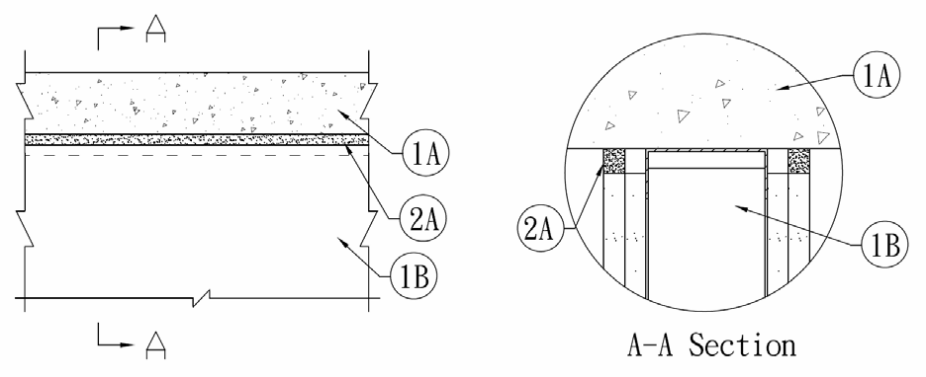

Figure 1. Through Penetration Firestop System

1. **SUPPORTING CONSTRUCTION**:

   A. CONCRETE FLOOR CONSTRUCTION – Min. 4-1/2 in. (114mm) thickness, light or normal weight reinforced concrete having a nominal density of 100 - 150 pcf.

   B. GYPSUM WALLBOARD CONSTRUCTION –
      i. Framing: Min. 25 GA, min. 3-1/2 in. wide, steel channel studs, spaced max. 24 in. on center (oc).
      ii. Floor and ceiling runners (track) of wall assembly shall consist of galvanized steel channels sized to accommodate the studs with min. 1-1/4 in. long flanges.
      iii. Gypsum Board: 5/8 in. thick, Type X, two layers per side.

   Verify compliance of the supporting construction with its corresponding listed design.

2. **FIRE RESISTIVE JOINT SYSTEM:** Install non-loadbearing fire resistive joint system between the top of the gypsum wall supporting construction (Item 1B) and the underside of the concrete floor supporting construction (Item 1A) The joint (linear opening) shall not exceed a 3/4 in. (19mm) nominal joint width (joint width at installation) and the joint treatment shall incorporate the following construction features:

   A. FILL, VOID, OR CAVITY MATERIAL – Refer to Figure 1. Apply the following materials as indicated below:

      CERTIFIED MANUFACTURER: International Fireproof Technology

      CERTIFIED PRODUCT: Firestop Sealant

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Division 07 – Thermal and Moisture Protection
07 84 00 Firestopping
07 84 43 Joint Firestopping

CERTIFIED MODEL: IFTI INSS1186 Elastomeric FireCaulk

Apply a 5/8 in. (16mm) depth of IFTI INSS1186 Fire Barrier Caulk to fill the joint opening to the depth of the outer layer of gypsum board (Item 1B iii) and overlap the material a min. 1/2 in. onto the adjacent gypsum wallboard construction (Item 1B) and the bottom of the concrete floor construction (Item 1A). Tool the surface of the firestop sealant to a smooth finish.

IFT/JF 120-03

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Division 07 – Thermal and Moisture Protection
07 84 00 Firestopping
07 84 43 Joint Firestopping

International Fireproof Technology
Design No. IFT/JF 120-03
Head of Wall Joint System
IFTI INSS1186 Elastomeric FireCaulk
ASTM E1966-15 and CAN/ULC-S115-11 at 2.5Pa
Rating: T-Rating 2 Hour, F-Rating 2 Hour
Cycling: Class 2, ± 12.5%

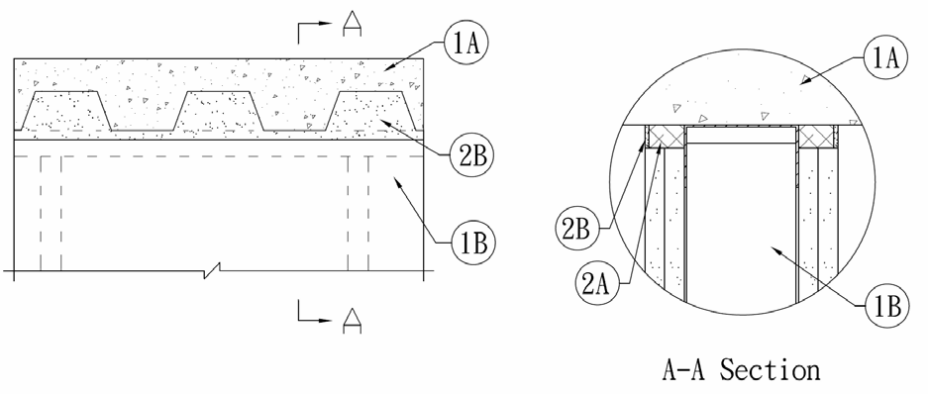

Figure 1. Through Penetration Firestop System

1. **SUPPORTING CONSTRUCTION**:

   A. CONCRETE FLOOR CONSTRUCTION – Min. 5-1/2 in. (140mm) thickness, lightweight reinforced concrete having a nominal density of 100 pcf covering metal decking with a min. of 2-1/2 in. (64mm) clear cover and 3 in. (76mm) deep valleys.

   B. GYPSUM WALLBOARD CONSTRUCTION –
   i. Framing: Min. 25 GA, min. 3-1/2 in. wide, steel channel studs, spaced max. 24 in. on center (oc).
   ii. Floor and ceiling runners (track) of wall assembly shall consist of galvanized steel channels sized to accommodate the studs with min. 1-1/4 in. long flanges.
   iii. Gypsum Board: 5/8 in. thick, Type X, two layers per side.
   iv. The plane of the gypsum wallboard construction is oriented perpendicular to the direction of the flutes in the metal deck of the concrete floor construction (Item 1A).

   Verify compliance of the supporting construction with its corresponding listed design.

2. **FIRE RESISTIVE JOINT SYSTEM:** Install non-loadbearing fire resistive joint system between the top of the gypsum wall supporting construction (Item 1B) and the underside of the concrete floor on metal deck supporting construction (Item 1A). The joint (linear opening) shall not exceed a 3/4 in. (19mm) nominal joint width at the floor decking valleys (joint width at installation) and the joint treatment shall incorporate the following construction features:

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Division 07 – Thermal and Moisture Protection
07 84 00 Firestopping
07 84 43 Joint Firestopping

A. PACKING MATERIAL – Use a min. 4 pcf density mineral wool batt insulation. Cut trapezoidal plugs of mineral wool batt, with a depth of 1-1/4 in. and compress the plugs into the voids between the top of the gypsum wallboard construction (Item 2B) top plate and the underside of the ridges in the metal deck of the concrete floor construction (Item 1A). The plugs shall be compression fit to the outer boundary of the voids and recessed 1/8 in. from the outer face of the gypsum wallboard (Item 1B iii) and the fibers shall run parallel with the deck flutes. Pack mineral wool into the 3/4 in. gap between the top of the gypsum wallboard construction (Item 2B) top plate and the underside of the valleys in the metal deck of the concrete floor construction (Item 1A) and the underside of the previously installed mineral wool plugs. The total width of mineral wool batt insulation shall fill the width of the joint between the floor assembly and the top of the wall assembly. The thickness of the mineral wool batt insulation shall be larger than the joint and when installed it shall be under 50% compression. Splices (butt joints) in the lengths of mineral wool batt insulation are to be tightly compressed together. The packing material covers the exposed surfaces of the gypsum wallboard construction (Item 1B) ceiling runners.

B. FILL, VOID, OR CAVITY MATERIAL – Refer to Figure 1. Apply the following materials as indicated below:

CERTIFIED MANUFACTURER: International Fireproof Technology

CERTIFIED PRODUCT: Firestop Sealant

CERTIFIED MODEL: IFTI INSS1186 Elastomeric FireCaulk

Apply a 1/8 in. (3mm) depth of IFTI INSS1186 Fire Barrier Caulk to cover the exposed surface of the mineral wool packing material (Item 2A) installed in the joint and overlap the material a min. 1/2 in. onto the adjacent gypsum wallboard construction (Item 1B) and the bottom of the metal deck of the concrete floor construction (Item 1A). Tool the surface of the firestop sealant to a smooth finish.

IFT/JF 120-04

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Division 07 – Thermal and Moisture Protection
07 84 00 Firestopping
07 84 43 Joint Firestopping

International Fireproof Technology
Design No. IFT/JF 120-04
Head of Wall Joint System
IFTI INSS1186 Elastomeric FireCaulk
ASTM E1966-15 and CAN/ULC-S115-11 at 2.5Pa
Rating: T-Rating 2 Hour, F-Rating 2 Hour
Cycling: Class 2, ± 12.5%

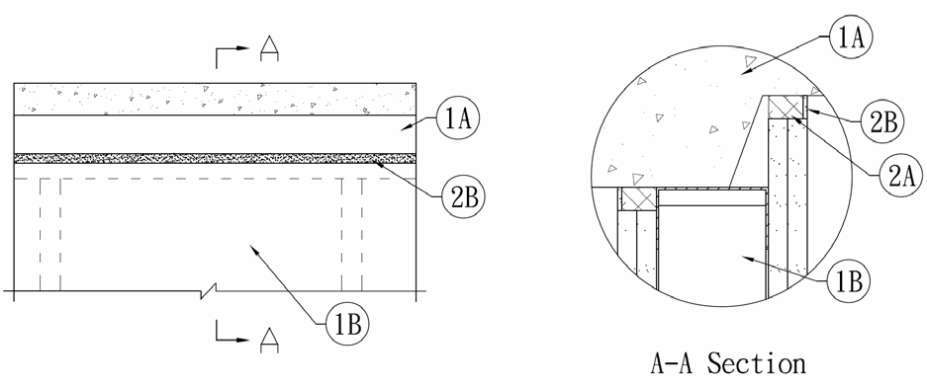

Figure 1. Through Penetration Firestop System

1. SUPPORTING CONSTRUCTION:

A. CONCRETE FLOOR CONSTRUCTION – Min. 5-1/2 in. (140mm) thickness, lightweight reinforced concrete having a nominal density of 100 pcf covering metal decking with a min. of 2-1/2 in. (64mm) clear cover and 3 in. (76mm) deep valleys.

B. GYPSUM WALLBOARD CONSTRUCTION –
   i. Framing: Min. 25 GA, min. 3-1/2 in. wide, steel channel studs, spaced max. 24 in. on center (oc).
   ii. Floor and ceiling runners (track) of wall assembly shall consist of galvanized steel channels sized to accommodate the studs with min. 1-1/4 in. long flanges.
   iii. Gypsum Board: 5/8 in. thick, Type X, two layers per side. The gypsum wallboard shall be extended above the ceiling runners as required to be within 3/4 in. of the underside of the metal deck ridges (see Figure 1).
   iv. The plane of the gypsum wallboard construction is oriented parallel with the direction of the flutes in the metal deck of the concrete floor construction (Item 1A).

Verify compliance of the supporting construction with its corresponding listed design.

2. FIRE RESISTIVE JOINT SYSTEM: Install non-loadbearing fire resistive joint system between the top of the gypsum wall supporting construction (Item 1B) and the underside of the concrete floor on metal deck supporting

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construction (Item 1A). The joint (linear opening) shall not exceed a 3/4 in. (19mm) nominal joint width (joint width at installation) and the joint treatment shall incorporate the following construction features:

A. PACKING MATERIAL: Use a min. 4 pcf density mineral wool batt insulation. The total width of mineral wool batt insulation shall fill the width of the joint between the floor assembly and the top of the wall assembly. The thickness of the mineral wool batt insulation shall be larger than the joint and when installed it shall be under 50% compression. Splices (butt joints) in the lengths of mineral wool batt insulation are to be tightly compressed together. The packing material covers the exposed surfaces of the gypsum wallboard construction (Item 1B) ceiling runners.

B. FILL, VOID, OR CAVITY MATERIAL**:** Refer to Figure 1. Apply the following materials as indicated below:

CERTIFIED MANUFACTURER: International Fireproof Technology

CERTIFIED PRODUCT: Firestop Sealant

CERTIFIED MODEL: IFTI INSS1186 Elastomeric FireCaulk

Apply a 1/8 in. (3mm) depth of IFTI INSS1186 Fire Barrier Caulk to cover the exposed surface of the mineral wool packing material (Item 2A) installed in the joint and overlap the material a min. 1/2 in. onto the adjacent gypsum wallboard construction (Item 1B) and the bottom of the metal deck of the concrete floor construction (Item 1A). Tool the surface of the firestop sealant to a smooth finish.

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Division 07 – Thermal and Moisture Protection
07 84 00 Firestopping
07 84 43 Joint Firestopping

International Fireproof Technology
Design No. IFT/JF 120-05
Wall to Wall Joint System
IFTI INSS1186 Elastomeric FireCaulk
ASTM E1966-15 and CAN/ULC-S115-11 at 2.5Pa
Rating: T-Rating 2 Hour, F-Rating 2 Hour

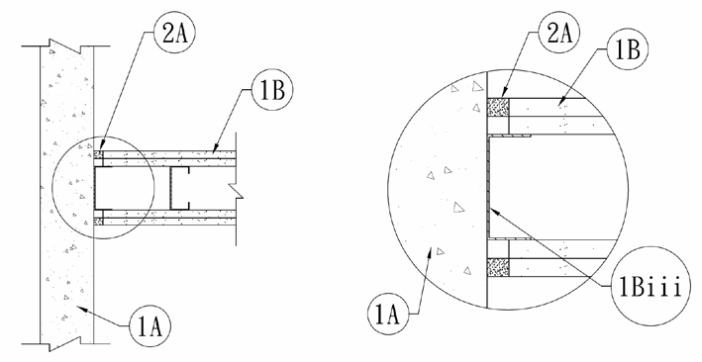

Figure 1. Through Penetration Firestop System

1. SUPPORTING CONSTRUCTION:

A. CONCRETE WALL CONSTRUCTION – Min. 4-1/2 in. (114mm) thickness, light or normal weight reinforced concrete having a nominal density of 100 - 150 pcf.

B. GYPSUM WALLBOARD CONSTRUCTION –
   i. Framing: Min. 25 GA, min. 3-1/2 in. wide, steel channel studs, spaced max. 24 in. on center (oc).
   ii. Floor and ceiling runners (track) of wall assembly shall consist of galvanized steel channels sized to accommodate the studs with min. 1-1/4 in. long flanges.
   iii. Slip Track: Galvanized steel channels sized to accommodate the studs with min. 1-1/4 in. long flanges. To be secured to the concrete wall and left as a slip fill on the gypsum wall assembly.
   iv. Gypsum Board: 5/8 in. thick, Type X, two layers per side.

A linear joint opening is created between a concrete wall construction (Item 1A) and a gypsum wallboard construction (Item 1B) meeting at a 90° angle. The walls are connected by installing a vertical length of slip track (Item 1B iii) to the concrete wall. The gypsum wallboard wall assembly is constructed over this section of track such that a slip-joint is created and the joint gap is established at 3/4 in. between the face of the concrete wall and the edge of the gypsum boards.

Verify compliance of the supporting construction with its corresponding listed design.

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Division 07 – Thermal and Moisture Protection
07 84 00 Firestopping
07 84 43 Joint Firestopping

2. **FIRE RESISTIVE JOINT SYSTEM:** Install non-loadbearing fire resistive joint system between face of the concrete wall construction (Item 1A) and the edge of the gypsum boards in the gypsum wallboard construction (Item 1B) The joint (linear opening) shall not exceed a 3/4 in. (19mm) nominal joint width (joint width at installation) and the joint treatment shall incorporate the following construction features:

   A. FILL, VOID, OR CAVITY MATERIAL**:** Refer to Figure 1. Apply the following materials as indicated below:

      CERTIFIED MANUFACTURER: International Fireproof Technology

      CERTIFIED PRODUCT: Firestop Sealant

      CERTIFIED MODEL: IFTI INSS1186 Elastomeric FireCaulk

      Apply a 5/8 in. (16mm) depth of IFTI INSS1186 Fire Barrier Caulk to fill the joint opening to the depth of the outer layer of gypsum board (Item 1B iii) and overlap the material a min. 1/2 in. onto the adjacent gypsum wallboard construction (Item 1B) and the face of the concrete wall construction (Item 1A). Tool the surface of the firestop sealant to a smooth finish.