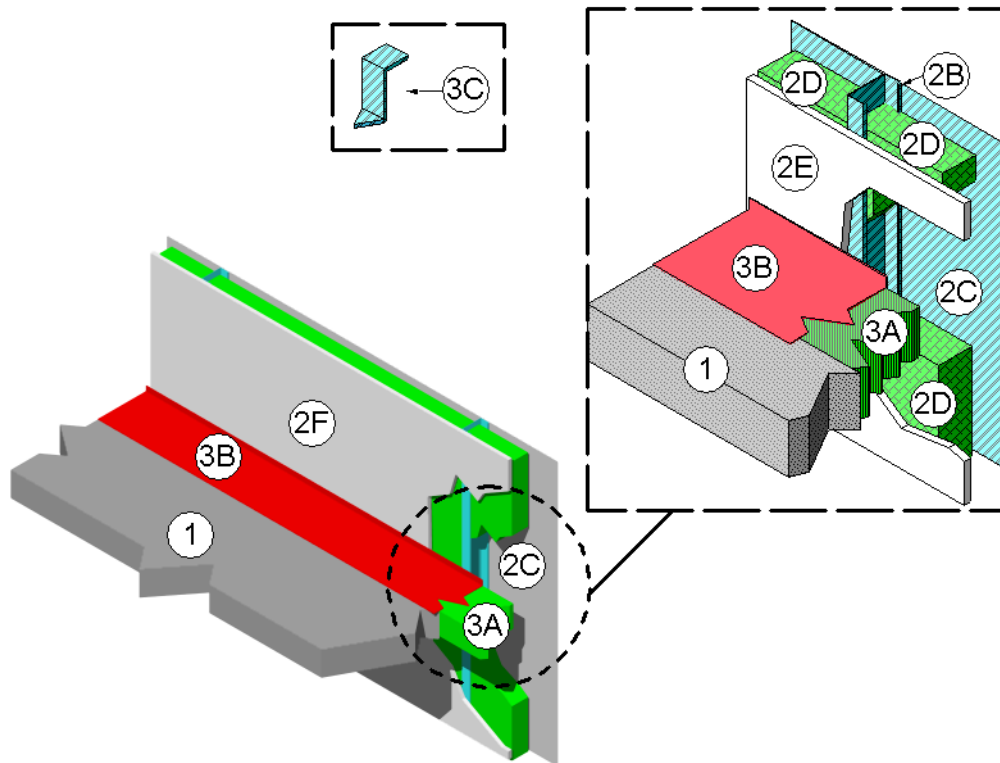


L-Rating ambient and elevated (400°F): <1.0 SCFM/L F



2. CURTAIN WALL ASSEMBLY:
Incorporate the following construction features:

Division 07 Thermal Protection

07-84-00 Firestopping

07-84-53 Building Perimeter Firestopping

Page 2 of 4

- A. Mounting Attachment: (Not shown) Attach steel stud framing (Item 2B) to the structural framing according to the curtain wall manufacturer's instructions. When required, connect the mounting attachments to the joint face of the concrete floor assembly (Item 1) according to the curtain wall manufacturer's instructions. Limit distance between mounting attachments to maximum 120 in on center (oc).
- B. Steel Stud Framing: Use minimum 3-5/8 in. by 1-5/8 in., 18 gauge (GA), C-shaped steel studs as vertical framing spaced maximum 24 in. oc. Attach according to the curtain wall system manufacturer's guidelines. Limit distance between steel stud framing to maximum 48 in.. When required, install horizontal structural framing members according to the curtain wall system manufacturer's guidelines and, in the spandrel area, locate a minimum of 33 in. above the top surface of the concrete floor assembly (Item 1).
- C. Aluminum Panels: Install minimum 1/8 in. thick aluminum panels with maximum dimensions of 48 in. by 144 in. to steel stud framing (Item 2B) according to the curtain wall system manufacturer's guidelines.

D. CERTIFIED COMPANY:
Thermafiber, Inc.

CERTIFIED PRODUCT: Insulation
Mineral Wool

MODEL: Thermafiber, Inc.
FireSpan® 90 and FireSpan® 40

Curtain Wall Insulation: Use nominal 24 in. wide, 4 in. thick, 4 pcf density or 2 in. thick, 8 pcf density, mineral wool batt insulation. Install curtain wall insulation friction fit by using a curtain wall insulation width at least 1/4 in. longer than the distance between steel stud framing (Item 2B). Maintain 1-1/4 in. air cavity between curtain wall insulation and

aluminum panels (Item 2C). Completely fill the recess of the C-shaped steel stud framing (Item 2B) with curtain wall insulation. Tightly compress together butt joints in the lengths of curtain wall insulation by using minimum 1/4 in. compression per piece of curtain wall insulation material.

- E. Interior Curtain Wall Surface: Entirely cover interior face of steel stud framing (Item 2B) with one layer of 5/8 in. thick, Type X gypsum board. Fasten gypsum board to steel stud framing (Item 2B) using minimum #6, 1-1/8 in. long bugle-head phillips drywall screws spaced nominally 12 in. on center. Joint Tape and Compound – Apply vinyl or casein, dry or premixed joint compound to exposed face of gypsum board in two coats to all exposed screw heads and gypsum board joints. Embed minimum 2 in. wide paper, plastic, or fiberglass tape in first layer of premixed joint compound over joints in gypsum board. Create minimum 3-5/8 in. deep wall cavity between unexposed face of gypsum board to unexposed face of aluminum panel (Item 2C).
- F. Glass Vision Panels: (Optional) When used, locate glass vision panels above spandrel area and a minimum 33 in. above the top surface of the concrete floor assembly (Item 1). Install glass vision panels to window framing (Item 2I) according to manufacturer's guidelines. Use a minimum 1/4 in. thick, clear tempered glass with maximum width and height as determined by the window framing (Item 2H).
- G. Window Gaskets (Not shown): When glass vision panels (Item 2F) used, use a thermal break (thermoset rubber extrusion) to secure glass vision panels (Item 2G).
- H. Window Framing (Not shown): When glass vision panels used, use

Division 07 Thermal Protection

07-84-00 Firestopping

07-84-53 Building Perimeter Firestopping

Page 3 of 4

steel framing members a minimum 3-5/8 in. by 1-5/8 in., 18 GA steel, U-shaped channel or similar construction compatible with structural framing (Item 2B). Locate window framing at least 33 in. above the top surface of the concrete floor assembly (Item 1).

3. PERIMETER JOINT PROTECTION: Do not exceed an 8 in. nominal joint width (joint width at installation). Incorporate the following construction features for the perimeter joint protection (also known as perimeter fire barrier system):

- A. CERTIFIED COMPANY:
Thermafiber, Inc.

CERTIFIED PRODUCT: Insulation
Mineral Wool

MODEL: Thermafiber, Inc. Safing
™

Packing Material: Use a minimum 4 in. thick, 4 pcf density, mineral wool batt insulation installed with the fibers running parallel to the edge of concrete floor assembly (Item 1) and curtain wall assembly (Item 2). Cut packing material width to achieve required compression, refer below, when installed in the nominal joint width. Compress the packing material into the perimeter joint. Tightly compress together splices (butt joints) in the lengths of packing material by using minimum 1/4 in. compression per piece of packing material. When a spray coating is used, locate the top surface of the packing material flush with the top surface of the concrete floor assembly (Item 1). When the non-sag or self leveling silicone sealant is used, recess the top surface of the packing material 1/4 in. from the top surface of the concrete floor assembly (Item 1).

- I. When 50% compression is required cut the width of the packing material 2 times wider than the nominal joint width.

- II. When 33% compression is required cut the width of the packing material 1.5 times wider than the nominal joint width.
III. When 20% compression is required cut the width of the packing material 1.25 times wider than the nominal joint width.

- B. Fill, Void or Cavity Material: Apply 3M FireDam™ Spray 200 (Elastomeric, Sprayable) or Fire Barrier™ 1000 N/S Silicone Sealant (Non-sag) or FB 1003 S/L (Self Leveling) Sealant (bearing the Intertek Certification Mark) over the packing material (Item 3A) as follows:

Spray Coating – Spray apply the liquid to cover the exposed top surface of the packing material (Item 3A) compressed and installed in the perimeter joint. Apply a minimum wet film thickness of 1/8 in. and overlap the spray coating a minimum 1/2 in. onto the adjacent curtain wall assembly (Item 2) and concrete floor assembly (Item 1). When the spraying process is stopped and the applied spray coating cures to an elastomeric film before installation process is restarted, then overlap the edge of the cured spray coating at least 1/8 in. with the liquid spray coating.

Sealant – Apply non-sag or self leveling sealant to cover the exposed surface of the packing material (Item 3A) compressed and installed in the perimeter joint. Apply minimum 1/4 in. thickness non-sag or self leveling sealant over the packing material (Item 3A) and finish flush with the top surface of the concrete floor assembly (Item 1).

- C. Support Clips: (Optional)
Recommended for installations subject to vertical shear movement. Use standard 20 GA galvanized steel Z-shaped clips having the following nominal dimensions: 1 in. wide by 3 in. high with a 2 in. upper

Division 07 Thermal Protection

07-84-00 Firestopping

07-84-53 Building Perimeter Firestopping

Page 4 of 4

leg and a 3 in. lower leg. Install 3 in. horizontal leg impaled into packing material (Item 3A) mid-depth and the 2 in. horizontal leg on top of the concrete floor assembly (Item 1). Install clips adjacent to mounting bracket (Item 2A) and spaced maximum 12 in. oc.