



LISTING INFORMATION OF
ROCKWOOL Perimeter Fire Barriers: Roxul Safe®
SPEC ID: 20810

ROCKWOOL
8024 Esquesing Line
Milton, ON L9T 6W3
Canada

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

LISTING INFORMATION

ROCKWOOL manufactures stone wool (alternately called mineral wool) insulation products. Stone wool insulation is a thermally stable product with a melting point of approximately 2150°F (1177°C).

ROXUL Safe® is a semi-rigid insulation batt engineered and produced for commercial, industrial and residential buildings. Roxul Safe can be used for the following applications:

- Perimeter gaps between concrete floor slabs and exterior wall systems
- Around conduit pipe and duct openings through walls and floor slabs
- Between fire walls and ceiling slabs
- Roxul Safe is intended to be used in conjunction with a fire sealant to prevent the passage of fire and smoke

Roxul Safe has a nominal density of 4.5 lbs/ft³

Test Standard	T-Rating	F-Rating	Design Number
ASTM E2307	1-1/4hr	3hr	RI/BP 180-01
ASTM E2307	1-1/4hr	3hr	RI/BP 180-02

Attribute	Value
Certificate Date of Expiry	December 31, 2025
Certificate Date of Initial Registration	September 28, 2021
Certificate Number	WHI21-22749501
Criteria	ASTM E2307 (2004) e1
CSI Code	07 84 00 Firestopping
CSI Code	07 84 53 Building Perimeter Firestopping
Listing Section	EXPANSION/SEISMIC JOINTS
Spec ID	20810

DRAWING INDEX

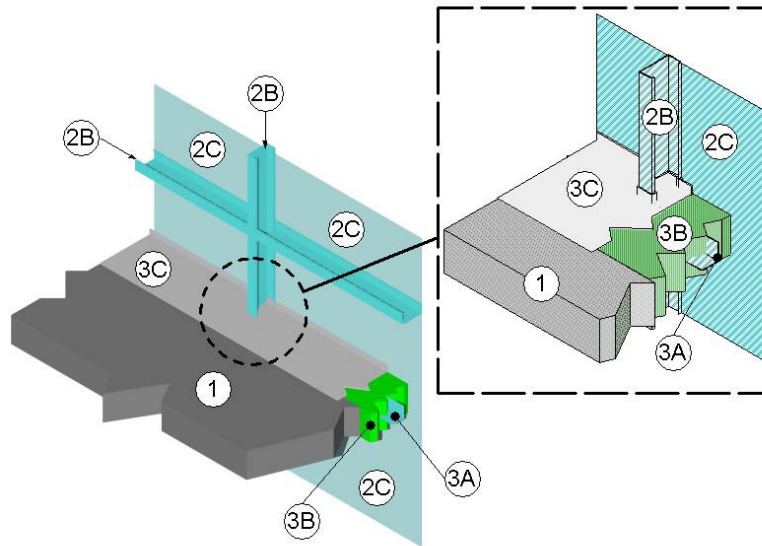
RI-BPF 180-01

RI-BPF 180-02

RI-BPF 180-01

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

ROCKWOOL
Design No. RI/BPF 180-01
Perimeter Fire Barriers
Roxul Safe®
ASTM E 2307
T-Rating: 1-1/4 Hour
F-Rating: 3 Hour
Class IV: 100 cycles @ 30 cpm/400 cycles @ 10 cpm
± 16.7% horizontal movement



1. CONCRETE FLOOR ASSEMBLY: Three-hour rated, solid concrete, floor assembly made from normal weight or light weight concrete with a nominal 150 pcf density, having a min. uniform thickness of 4 in. including at the joint face.

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

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 max. 120 in.

Date Revised: December 15, 2017

Page 1 of 3

Project No. G103094873

Version: 02 August 2017

SFT-BC-OP-191

RI-BPF 180-01 (2 OF 3)

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

- B. **STEEL STUD FRAMING** – Use min. 3-5/8 in. × 1-5/8 in., 18 GA, C-shaped steel studs as vertical framing. Attach steel studs to steel channels at top and bottom using 7/16 in. long, #7 self-drilling, zinc plated, pan framing screws. Min. distance between steel studs 48 in. Install steel studs as horizontal framing members using welded connections to steel studs and, in the spandrel area, locate the horizontal framing a nominal 12 in. above the top surface of the concrete floor assembly (Item 1). Max. distance between horizontal framing members 72 in.
- C. **STEEL PANELS** – Install min. 20 GA thick, G-90 galvanized steel panels with max. dimensions of 48 in. × 144 in. to steel stud framing (Item 2B). Fasten using 1/2 in. long, #8-18 Phillips Truss Head self-tapping sheet metal screws at max. 8 in. on center spacing.
- 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. **REINFORCING ANGLE** – (Optional) When used, install a 2 × 2 in., 18 GA, steel angle with its horizontal leg located at the mid depth of the packing material. Secure the 2 × 2 in., 18 GA, steel angle to the inside stud faces using 1/2 in. long, #8-18 Phillips Truss Head self-tapping sheet metal screws.
- B. **CERTIFIED COMPANY:** ROCKWOOL
- CERTIFIED PRODUCT:** ROCKWOOL Semi-Rigid, Stone Wool, Safing Insulation

MODEL: Roxul Safe®

PACKING MATERIAL – Use a min. 4 in. thick, 4 pcf density, stone 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 1-1/2 times wider than nominal joint width to achieve 33% compression. Compress the packing material into the perimeter joint between the face of the concrete floor assembly (Item 1) and the interior face of the steel panels (Item 2C) completely filling the perimeter joint. Tightly compress together splices (butt joints) in the lengths of packing material by using min. 1/4 in. compression per piece of packing material. Locate the top surface of the packing material flush with the top surface of the concrete floor assembly (Item 1).

When the optional reinforcement angle (Item 3A) is used, install packing material in the nominal joint width in two parts. Compress the packing material into the perimeter joint between the vertical leg of the reinforcement angle (Item 3A) and the interior face of the steel panels (Item 2C). Fill the steel stud cavity using the same packing material and min. compression. Compress the packing material into the perimeter joint between the face of the concrete floor assembly (Item 1) and the horizontal leg of the reinforcement angle (Item 3A).

C. **CERTIFIED COMPANY:** 3M Company**CERTIFIED PRODUCT:** FireDam™

Date Revised: December 15, 2017

Page 2 of 3

Project No. G103094873

Version: 02 August 2017

SFT-BC-OP-19i

RI-BPF 180-01 (3 OF 3)



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

MODEL: FD Spray 200 (Elastomeric, Sprayable)

- D. FILL, VOID, OR CAVITY MATERIAL – Apply the spray coating over the packing material (Item 3B) as follows: Spray apply the liquid to cover the exposed top surface of the packing material (Item 3B) compressed and installed in the perimeter joint. Apply a min. wet film thickness of 1/8 in. and overlap the spray

coating a min. 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.

Date Revised: December 15, 2017

Page 3 of 3

Project No. G103094873

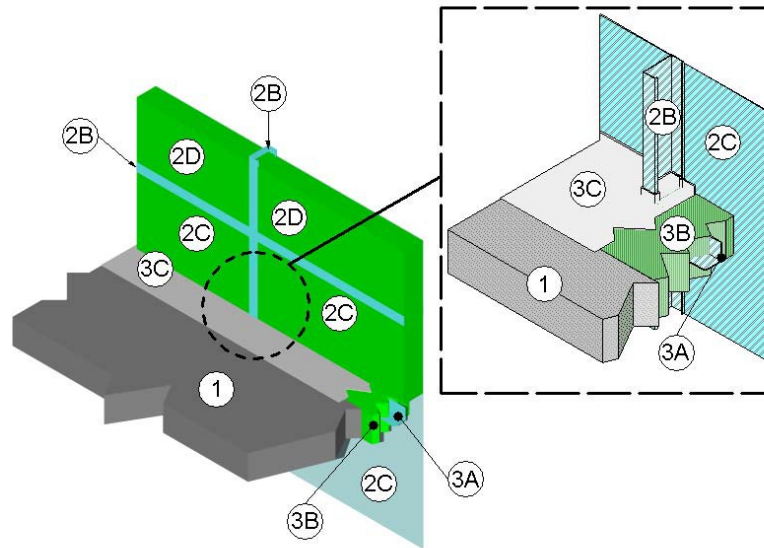
Version: 02 August 2017

SFT-BC-OP-19I

RI-BPF 180-02

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

ROCKWOOL
Design No. RI/BPF 180-02
Perimeter Fire Barriers
Roxul Safe®, CURTAINROCK® 40, and CURTAINROCK 80®
ASTM E 2307
T-Rating: 1-1/4 Hour
F-Rating: 3 Hour
Class IV: 100 cycles @ 30 cpm/400 cycles @ 10 cpm
± 16.7% horizontal movement



1. **CONCRETE FLOOR ASSEMBLY:** Three-hour rated, solid concrete, floor assembly made from normal weight or light weight concrete with a nominal 150 pcf density, having a min. uniform thickness of 4 in. including at the joint face.
2. **CURTAIN WALL ASSEMBLY:** Incorporate the following construction features:

- 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 max. 120 in.

Date Revised: December 15, 2017

Page 1 of 3

Project No. G103094873

Version: 02 August 2017

SFT-BC-OP-191

RI-BPF 180-02 (2 OF 3)

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

- B. **STEEL STUD FRAMING** – Use min. 3-5/8 in. × 1-5/8 in., 18 GA, C-shaped steel studs as vertical framing. Attach steel studs to steel channels at top and bottom using 7/16 in. long, #7 self-drilling, zinc plated, pan framing screws. Min. distance between vertical steel studs 48 in. Install steel studs as horizontal framing members using welded connections to steel studs and, in the spandrel area, locate the horizontal framing a nominal 12 in. above the top surface of the concrete floor assembly (Item 1). Max. distance between horizontal framing members 72 in.

- C. **STEEL PANELS** – Install min. 20 GA thick, G-90 galvanized steel panels with max. dimensions of 48 in. × 144 in. to steel stud framing (Item 2B). Fasten using 1/2 in. long, #8-18 Phillips Truss Head self-tapping sheet metal screws at max. 8 in. on center spacing.

- D. **CERTIFIED COMPANY: ROCKWOOL**

CERTIFIED PRODUCT: ROCKWOOL Semi-Rigid, Stone Wool, Batt Insulation

MODELS: CURTAINROCK 40® or CURTAINROCK 80®

CURTAIN WALL INSULATION – Use a nominal 4 pcf density, 4 in. thick, batt insulation or nominal 8 pcf density, 2 in. thick, batt insulation to completely fill the rectangular areas created between vertical and horizontal steel stud framing (Item 2B) located 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. **OPTIONAL** – When used, install a 2 × 2 in., 18 GA, steel angle with its horizontal leg located at the mid depth of the packing material. Secure the 2 × 2 in., 18 GA, steel angle to the inside stud faces using 1/2 in. long, #8-18 Phillips Truss Head self-tapping sheet metal screws.

- B. **CERTIFIED COMPANY: ROCKWOOL**

CERTIFIED PRODUCT: ROCKWOOL Semi-Rigid, Stone Wool, Safing Insulation

MODEL: Roxul Safe®

PACKING MATERIAL – Use a min. 4 in. thick, 4 pcf density, stone 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 1-1/2 times wider than nominal joint width to achieve 33% compression. Compress the packing material into the perimeter joint between the face of the concrete floor assembly (Item 1) and the interior face of the steel panels (Item 2C) completely filling the perimeter joint. Tightly compress together splices (butt joints) in the lengths of packing material by using min. 1/4 in. compression per piece of packing material. Locate the top surface of the packing material flush with the top surface of the concrete floor assembly (Item 1).

When the optional reinforcement angle (Item 3A) is used, install packing material in the nominal joint width in two

RI-BPF 180-02 (3 OF 3)

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

parts. Compress the packing material into the perimeter joint between the vertical leg of the reinforcement angle (Item 3A) and the interior face of the steel panels (Item 2C). Fill the steel stud cavity using the same packing material and min. compression. Compress the packing material into the perimeter joint between the face of the concrete floor assembly (Item 1) and the horizontal leg of the reinforcement angle (Item 3A).

CERTIFIED COMPANY: 3M Company

CERTIFIED PRODUCT: FireDam™

MODEL: FD Spray 200 (Elastomeric, Sprayable)

FILL, VOID, OR CAVITY MATERIAL – Apply the spray coating over the packing material (Item 3B) as follows: Spray apply the liquid to cover the exposed top surface of the packing material (Item 3B) compressed and installed in the perimeter joint. Apply a min. wet film thickness of 1/8 in. and overlap the spray coating a min. 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.