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LISTING INFORMATION OF

ROCKWOOL - Fire Rated Wall Assemblies (ASTM E119 & CAN/ULC S101)

SPEC ID: 58801

ROCKWOOL
8024 Esquesing Line
Milton, ON L9T 6W3
Canada

LISTING INFORMATION

Cavityrock® is a lightweight rigid insulation board with a rigid upper surface. Cavityrock® is intended for use in cavity wall applications. It is available in 16 in. x 48 in. and 24 in. x 48 in. panels. The product thickness certified by Intertek is 2 in. to 6 in. Cavityrock® has a nominal dual density of 6.2 lbs/ft^3 (outer layer) and 4.1 lbs/ft^3 (inner layer) for thicknesses > 2.5 in. and a nominal monolithic density of 4.4 lbs/ft^3 for thicknesses less than 2 in.

Comfortboard® is a rigid mineral wool insulation sheathing board. Comfortboard® 80 is an exterior non-structural insulation sheathing that provides a continuous layer of insulation around the residential building envelope. These products are made in sizes of 24 in. x 48 in. and 36 in. x 48 in. with a thickness range certified by Intertek of 1.5 in. to 3 in. Comfortboard® 80 has a nominal density of 8.0 lb/ft^3. Comfortboard® 110 comes in sizes 24 in. x 48 in. boards and 48 in. x 72 in. The product thickness certified by Intertek is 1.5 in. to 3 in. Comfortboard® 110 has a nominal density of 11.0 lb/ft^3.

Comfortbatt® is a semi-rigid stone wool batt insulation designed for thermal resistance in wood and steel framing applications. It is available in nominal 16 in. x 48 in. and 24 in. x 48 in. panels. Comfortbatt® has a nominal density of 1.8 lb/ft^3.

FIRE RATINGS

Test Standard	Rating	Design Number
ASTM E119	1 Hour	RI/MFF 60-01 RI/MFF 60-02 RI/MFF 60-03 RI/MFF 60-04
CAN/ULC S101	1 Hour	RI/MFF 60-03 RI/MFF 60-04

Attribute	Value
Criteria	CAN / ULC S101 (2014)
Criteria	ASTM E119 (2018)
CSI Code	07 21 00 Thermal Insulation
CSI Code	07 81 00 Applied Fireproofing
CSI Code	07 81 33 Mineral-Fiber Fireproofing
Listing Section	WALL ASSEMBLIES
Spec ID	58801

DRAWING INDEX

RI-MFF-60-01

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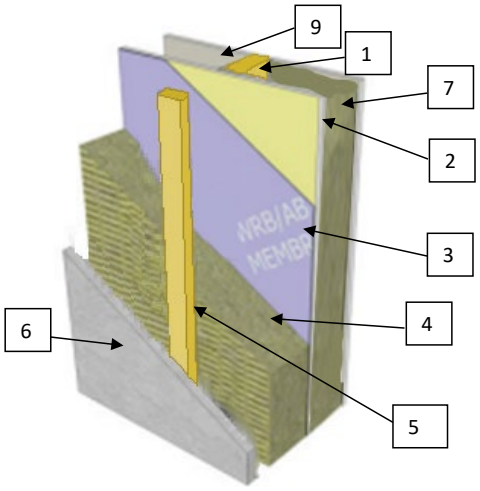
Division 07 – Thermal and Moisture Protection
07 81 00 Applied Fireproofing
07 81 33 Mineral-Fiber Fireproofing

ROCKWOOL
Design No. RI/MFF 60-01
Stone Wool Insulation
Comfortbatt® and Comfortboard® 80
ASTM E119
Rating: 1 Hour
Unrestricted Load Bearing Wall Assembly
Load Bearing



1. **FRAMING:** Use min. 2 x 4 wood studs, max. 24 in. on center (oc). Two top plates and one bottom plate to be used as part of the frame, secured with Rockwool recommended fasteners.

2. **EXTERIOR SHEATHING:** Install min. 7/16 in. thick OSB exterior sheathing to the exterior side of the wood framing with the long dimension perpendicular to the wood studs. Secure using 6d nails spaced 6 in. oc around the perimeter and 8 in. oc in the field.

3. **WATER RESISTIVE BARRIER (WRB):** Henry Blueskin Primer evenly applied across the OSB surface using a 10mm nap roller. Once cured, install a single layer of Henry BlueskinVP™ or Blueskin® SA.

4. **CERTIFIED MANUFACTURER:** ROCKWOOL

   CERTIFIED PRODUCT: Stone Wool Insulation

   CERTIFIED MODEL: Comfortboard® 80

   Secure Rockwool's min. 1-1/2 in. Comfortboard® 80 insulation onto the assembly using construction screws with 2 in. diameter steel insulation plates, placed in each corner and centre of the insulation board.

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5. **SPACER:** Nominal 1 in. x 3 in. wood furring strips placed 24 in. vertically oc, to be secured to the assembly with construction screws through the Comfortboard® 80 and into the OSB surface. Place one furring strip horizontally across the top of the assembly and another across the bottom of the assembly. Construction screw spacing shall be max. 18 in. oc vertically and max. 24 in. oc horizontally.

6. **EXTERIOR CLADDING:** Nominal 8 in. wide Hardieplank Cladding installed over the wood furring strips using a nailing pattern of 24 in. oc (into furring strips) with 6 in. exposure.

7. **CERTIFIED MANUFACTURER:** ROCKWOOL

   CERTIFIED PRODUCT: Stone Wool Insulation

   CERTIFIED MODEL: Comfortbatt®

   Install Rockwool's nominal 3-1/2 in. thick Comfortbatt® insulation, friction fit between the nominal 2 x 4 lumber framing.

8. **MOISTURE BARRIER (Not Shown):** Secure 6mm poly vapour barrier to the wood stud frame using staples at every 12 in.

9. **INTERIOR SHEATHING:** Apply one layer of 5/8 in. thick, Type X gypsum board to the interior side of the wood framing with the long dimension perpendicular to the wood studs. Secure using no. 6, 1-5/8 in. long self-tapping drywall screws spaced nominally 8 in. oc around the perimeter and 12 in. oc in the field.

   JOINT TAPE AND COMPOUND (Not Shown) – Apply mesh drywall tape to gypsum board joints, and cover all joints and screw heads with two coats of drywall joint compound.

Consult the listing report on the Directory of Building Products (https://bpdirectory.intertek.com) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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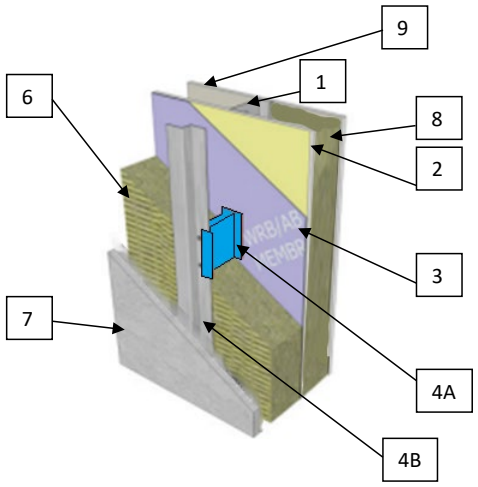
Division 07 – Thermal and Moisture Protection
07 81 00 Applied Fireproofing
07 81 33 Mineral-Fiber Fireproofing

ROCKWOOL
Design No. RI/MFF 60-02
Stone Wool Insulation
Comfortbatt® and Cavityrock®
ASTM E119
Rating: 1 Hour
Restricted - Exterior Exposure Only
Load Bearing



1. **FRAMING:** Min. 3-5/8 in. 20 GA teel studs, max. 24 in. on center (oc). Secure steel studs to 20 GA top and bottom track using Rockwool approved screws.

2. **EXTERIOR SHEATHING:** Install min. 5/8 in. thick Type X gypsum sheathing to the exterior side of the steel framing with the long dimension perpendicular to the steel studs. Secure using no. 6, 1-7/8 in. self-tapping drywall screws spaced nominally 8 in. oc around the perimeter and 12 in. oc in the field.

3. **WATER RESISTIVE BARRIER (WRB):** Henry Blueskin Primer evenly applied across the Type X gypsum surface using a 10mm nap roller. Once cured, install a single layer of Henry BlueskinVP™ or Blueskin® SA.

4. **SPACER:**

   A. CASCADIA CLIP® – The Cascadia Clip® Fiberglass Thermal Spacer, with a max. depth of 2 in., is installed between the Z-bar and the exterior sheathing.

   B. Z-Bar – 20 GA 2 in. Z-bar is clipped onto the Cascadia Clip® vertically (spaced max. 26 in. oc), and is fastened to the wall assembly with 4-1/4 in. Cascadia/Roxul supplied screws that pass through the Z-bar flange, Cascadia Clip® spacer, Blueskin surface, gypsum, and into the steel stud framing.

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The Cascadia Clip® should be installed as per manufacturer's instructions and to meet their IAPMO report (ER #410).

5. **INSULATION HANGER PINS (Not Shown):** 12 GA 2-1/2 in. long insulation hanger pins fastened to the Blueskin surface by 1-5/8 in. drywall screws through the pin washer, spaced at approximately 1 pin per square foot of the wall assembly.

6. **CERTIFIED MANUFACTURER:** ROCKWOOL

   CERTIFIED PRODUCT: Stone Wool Insulation

   CERTIFIED MODEL: Cavityrock®

   Secure the Rockwool min. 2 in. thick CavityRock® insulation in between each Z-bar cavity with existing insulation hanger pins.

7. **EXTERIOR CLADDING:** 29 GA steel profiled exterior cladding (3 ft. x 12 ft. sections) installed over the Z-bar channels, horizontally, and fastened using 1 in. self-tapping sheet metal screws (with washer) spaced 24 in. oc (into steel Z-bar channels).

8. **CERTIFIED MANUFACTURER:** ROCKWOOL

   CERTIFIED PRODUCT: Stone Wool Insulation

   CERTIFIED MODEL: Comfortbatt®

   Install the Rockwool nominal 3-1/2 in. thick Comfortbatt® insulation friction fit between the nominal 3-5/8 in. steel stud framing (Item 1).

9. **INTERIOR SHEATHING:** Apply one layer of min. 5/8 in. thick, Type X gypsum board to the interior side of the steel framing (Item 1) with the long dimension perpendicular to the steel studs. Secure using no. 6, 1-7/8 in. long self-tapping drywall screws spaced nominally 8 in. oc around the perimeter and 12 in. oc in the field.

   JOINT TAPE AND COMPOUND (Not Shown) – Apply mesh drywall tape to gypsum board joints, and cover all joints and screw heads with two coats of drywall joint compound.

Consult the listing report on the Directory of Building Products (https://bpdirectory.intertek.com) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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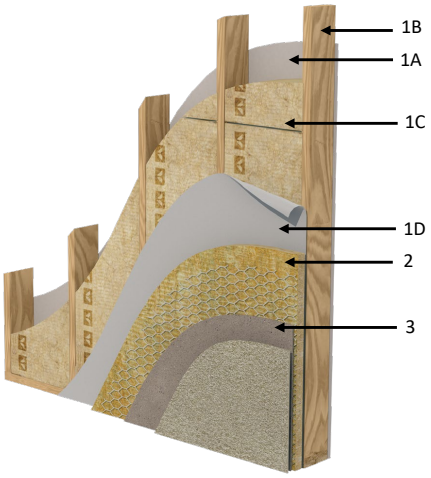
07 81 00 Applied Fireproofing
07 81 33 Mineral-Fiber Fireproofing

ROCKWOOL
Design No. RI/MFF 60-03
Comfortbatt®, Comfortboard® 80, and Comfortboard® 110
ASTM E119 and CAN/ULC S101
Rating: 1 Hour
Limited Load Bearing (58% loading) Wall Assembly



1. LOAD BEARING WALL ASSEMBLY:

A. INTERIOR GYPSUM – Install one layer of 5/8 in. thick Type X gypsum board horizontally to the interior side of the wood framing using 1-5/8 in. long drywall screws at nominal spacing of max. 12 in. around the board perimeter and in the field. Tape and mud all joints with gypsum joint compound. Apply joint compound to all exposed fastener heads.

B. FRAMING – Use nominal min. 2 × 4 wood studs, spaced 24 in. or 16 in. on center (oc), with a single top plate and a single bottom plate. Studs are fastened to the header and sill plates with two 16d framing nails per stud per end.

C. FRAMING CAVITY INSULATION:

CERTIFIED PRODUCT:
ROCKWOOL Comfortbatt®

Friction fit ROCKWOOL Comfortbatt® mineral fiber insulation batts into wall cavities with thickness equal to stud depth.

D. WATER RESISTIVE BARRIER (WRB) – Fasten one layer of Grade D, 60 min. asphalt building paper or DELTA VENT SA to the studs per manufacturer's instructions, or any other water-resistive barrier compliant with 2021 IBC Section 1403.2, or IRC Section R703.2, as applicable.

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Division 07 – Thermal and Moisture Protection
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2. CONTINUOUS INSULATION:

CERTIFIED PRODUCTS:
ROCKWOOL Comfortboard® 80 or Comfortboard® 110

Install min. 1 in. thick pieces of ROCKWOOL Comfortboard® 80 or Comfortboard® 110 on the exterior side of the framing using one of the fastening options listed below.

i) For insulation up to 1-1/2 in., use corrosion-resistant, 16 GA staples with a 7/16 in. wide crown, penetrating the studs by at least 1 in., spaced at max. 6 in. oc.

ii) Use 3 in. diameter TruFast Grip-Lok Hurricane washers with Grip-Deck HiLo screws. Follow the manufacturer's instructions as diameter of the screws varies with length. Fasteners must be spaced max. 6 in. oc.

iii) Any equivalent fastening method employing non-combustible washers and fasteners.

OPTIONAL – DELTA Dry Stucco & Stone drainage mat may be installed over the insulation.

3. EXTERIOR FINISH: Apply min. 3/8 in. thick stucco base coat (ASTM C926) to min. 20 GA self-furring lath (lath is fastened to the wood framing per ASTM C1063). Apply min. 1/8 in. thick generic stucco finish onto the base coat**.**

Consult the listing report on the Directory of Building Products (https://bpdirectory.intertek.com) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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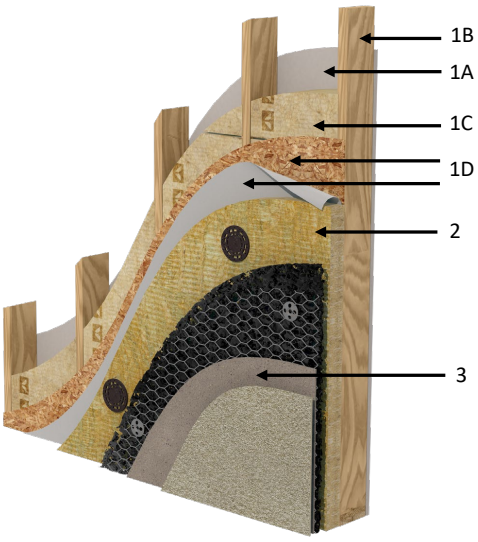
07 81 00 Applied Fireproofing
07 81 33 Mineral-Fiber Fireproofing

ROCKWOOL
Design No. RI/MFF 60-04
Comfortbatt®, Comfortboard® 80, and Comfortboard® 110
ASTM E119 and CAN/ULC S101
Rating: 1 Hour
Unrestricted Load Bearing Wall Assembly



1. LOAD BEARING WALL ASSEMBLY:

A. INTERIOR GYPSUM – Install one layer of 5/8 in. thick Type X gypsum board horizontally to the interior side of the wood framing using 1-5/8 in. long drywall screws at nominal spacing of max. 12 in. (8 in. on center (oc) for interior exposure applications) around the board perimeter and in the field. Tape and mud all joints with gypsum joint compound. Apply joint compound to all exposed fastener heads.

B. FRAMING – Use nominal min. 2 × 4 wood studs, spaced 24 in. or 16 in. oc, with a single top plate and a single bottom plate. Studs are fastened to the header and sill plates with two 16d framing nails per stud per end.

C. FRAMING CAVITY INSULATION:

CERTIFIED PRODUCT:
ROCKWOOL Comfortbatt®

Friction fit ROCKWOOL Comfortbatt® mineral fiber insulation batts into wall cavities with thickness equal to stud depth.

D. SHEATHING AND WATER RESISTIVE BARRIER (WRB)

Any one of the following combinations of Sheathing and WRB may be used:

i) To min. 7/16 in. thick OSB or plywood sheathing, fasten one layer of Grade D, 60 min. asphalt building paper or DELTA

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Division 07 – Thermal and Moisture Protection
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VENT SA, or any other water-resistive barrier compliant with 2021 IBC Section 1403.2, or IRC Section R703.2, as applicable.

ii) Install min. 1/2 in. thick ZIP panels as per the manufacturer's instructions. Water resistive barrier not required over ZIP Panels.

Plywood and OSB sheathing shall be fastened to the studs, sill, and plates using 2-3/8 in. 6D coated sinker nails spaced 8 in. oc.

2. **CONTINUOUS INSULATION:**

CERTIFIED PRODUCTS:
ROCKWOOL Comfortboard® 80 or Comfortboard® 110

Install min. 1 in. thick Comfortboard® 80 or Comfortboard® 110 on the exterior side of the sheathing using one of the fastening options listed below.

i) For insulation boards up to 1-1/2 in., use corrosion-resistant, 16 GA staples with a 7/16 in. wide crown, penetrating the combined thickness of sheathing and studs by at least 1 in., spaced at max. 6 in. oc.

ii) Use 3 in. diameter TruFast Grip-Lok Hurricane washers with Grip-Deck HiLo screws. Follow the manufacturer's instructions as diameter of the screws varies with length. Fasteners must be spaced max. 6 in. oc.

iii) Any equivalent fastening method employing non-combustible washers and fasteners.

OPTIONAL – DELTA Dry Stucco & Stone drainage mat may be installed over the insulation.

3. **EXTERIOR FINISH:** Apply min. 3/8 in. thick generic stucco base coat (ASTM C926) to min. 20 GA self-furring lath (lath is fastened to the wood framing per ASTM C1063). Apply min. 1/8 in. thick generic stucco finish onto the base coat.

Consult the listing report on the Directory of Building Products (https://bpdirectory.intertek.com) for the edition of the standard(s) evaluated.

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