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CERTIFICATION TESTING INSPECTION

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BUILDING PRODUCTS LISTING PROGRAM

Customer: Roxul Inc., dba ROCKWOOL
Class: Thermal Insulation
Location: Milton, Ontario
Website: www.rockwool.com

Listing No. B1067
Project No. B1067-1 Edition 21

Effective Date: September 29, 2014
Last Revised Date: October 14, 2026

Standards:	CAN/ULC-S101-14	*Fire Endurance Tests of Building Construction and Materials.*
	ASTM E119-20	*Standard Test Methods for Fire Tests of Building Construction and Materials*.
	CAN/ULC S146-19	*Standard Method of Test for the Evaluation for Encapsulation Materials and Assemblies of Materials for The Protection of Structural Timber Elements*.
	CAN/ULC-S124-06	*Evaluation of Protective Coverings for Foamed Plastics.*
	ASTM C665-17	*Standard Specification for Mineral-fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing*.
	ASTM C612-14(R19)	*Standard Specification for Mineral Fiber Block and Board Thermal Insulation.*
	ASTM C726-17	*Standard Specification for Mineral Wool Roof Insulation Board.*
	ASTM E136-22	*Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C.*
	ASTM E84-21	*Standard Test Method for Surface Burning Characteristics of Building Materials.*
	ASTM D3345-22	*Standard Test Method for Laboratory Evaluation of Wood and Other Cellulosic Materials for Resistance to Termites.*
	ASTM C518-21	*Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.*
	CAN/ULC S702.1-21	*Standard for Mineral Fibre Thermal Insulation for Buildings, Part 1: Material Specification mineral wool batt thermal insulation.*
	ASTM E2707-22	*Standard Test Method for Determining Fire Penetration of Exterior Wall Assemblies Using a Direct Flame Impingement Exposure*.
	2022 California Building Standards Code: SFM 12-7A-1	*Chapter 12-7A Materials and Construction Methods for Exterior Wildfire Exposure: Exterior Wall Siding and Sheathing*.
	NFPA 285-23	*Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components*.
	CAN/ULC S134-2013	*Standard Methods for Fire Tests of Exterior Wall Assemblies*
	CAN/ULC S114-2018	*Standard Method of Test for Determination of Non Combustibility in Building Materials.*

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Products: ROCKWOOL Comfortbatt® – Mineral Wool Batt Insulation
ROCKWOOL Comfortboard® 80 – Mineral Wool Board Insulation
ROCKWOOL Comfortboard® 110 – Mineral Wool Board Insulation
ROCKWOOL Toprock® DD – Mineral Wool Roof and Deck Insulation
ROCKWOOL Cavityrock® and Cavityrock® Black - Semi-rigid insulation board
ROCKWOOL Frontrock® DD – Dual Density Mineral Fiber Thermal Insulation Board
ROCKWOOL Frontrock® MD – Mono Density Mineral Fiber Thermal Insulation Board

Markings: Product is marked with labels supplied by ROCKWOOL with the following information:

- Manufacturer's Name
- Manufacturing Address
- Product Name
- Date of Manufacture
- QAI logo with the "C" and "US" identifier
- QAI Listing Number (B1067-1)
- QAI CERus-1004
- QAI Certification Logo outlined below:

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Ratings: ROCKWOOL Comfortbatt®, Comfortboard® 80, Comfortboard® 110, and Toprock® DD products have been evaluated for compliance to the 2021 / 2018 / 2015 International Building Code and 2021 / 2018 / 2015 International Residential Code as outlined in QAI CER$_{US}$-1004.

ROCKWOOL Comfortbatt®, Comfortboard® 80, Comfortboard® 110, Toprock® DD, Cavityrock®, Frontrock® DD, and Frontrock® MD products comply with ASTM E136 and are classified as noncombustible in America.

ROCKWOOL Frontrock® DD and Frontrock® MD products comply with CAN/ULC S114 and are classified as noncombustible in Canada.

ROCKWOOL Comfortbatt®, Comfortboard® 80, Comfortboard® 110, Toprock® DD, Cavityrock®, and Cavityrock® Black product classifications as thermal insulation per ASTM C665, ASTM C612, and ASTM C726 are outlined below:

PRODUCT	CLASSIFICATION		
	ASTM C665	ASTM C612	ASTM C726
Comfortbatt®	**Type I**	-	-
Comfortboard® 80	-	**Type IVB Category 2**	-
Comfortboard® 110	-	**Type IVB Category 2**	-
Toprock® DD	-	-	**Type I Class I**
Cavityrock® and Cavityrock® Black	-	**Type IVB Category 2**	-

ROCKWOOL Comfortbatt®, Comfortboard® 80, Comfortboard® 110, Toprock® DD, Cavityrock®, and Cavityrock® Black products' surface-burning characteristics per ASTM E84 are outlined below:

PRODUCT	CLASSIFICATION		
	Thickness (inches)	Flame Spread Index	Smoke Developed Index
Comfortbatt®	**≤ 10**	**≤ 25**	**≤ 50**
Cavityrock®	**≤ 8**		
Cavityrock® Black	**≤ 6**		
Comfortboard® 80	**≤ 6**		
Comfortboard® 110	**≤ 6**		
Toprock® DD	**≤ 6**		

ROCKWOOL Comfortboard® 80 and Comfortboard® 110 products comply with ASTM D3345, and are classified as termite resistant, including Formosa termite types.

For products applicable for use in fire-resistance-rated assemblies and non-combustible construction, see QAI CER$_{US}$-1004 and the fire-resistance-rated designs listed below.

ROCKWOOL Comfortbatt® and Cavityrock® products comply as Type 1 mineral wool thermal insulation in accordance with CAN/ULC S702.1.

ROCKWOOL Cavityrock® Black products comply as Type 2 mineral wool thermal insulation in accordance with CAN/ULC S702.1.

ROCKWOOL Comfortbatt® and Cavityrock® product surface burning characteristics per CAN/ULC S102 are outlined below:

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PRODUCTS	CLASSIFICATION		
	Thickness (inches)	Flame Spread Index	Smoke Developed Index
Comfortbatt®, Cavityrock®	≤ 10	≤ 25	≤ 50

ROCKWOOL mineral wool CAN/ULC-S101 and ASTM E119 – Walls and Partitions:

QAI Design #	Description	Rating
B1067-1a	Single layer of 5/8'' Type X gypsum board facing interior finish, over minimum 2'' x 4'' (38 mm x 89 mm) dimensional lumber, spaced at maximum 24'' (610 mm) spacing. Stud cavity to be filled with minimum 3.5'' (89 mm) Comfortbatt® friction fit into stud cavity with compression at butt joints to remove gaps. Exterior 7/16'' (11 mm) wood based, or exterior gypsum sheathing. Exterior water-resistive barrier (WRB) and exterior cladding as required by code does not reduce rating. See design B1067-afor additional details.	1-hour Restricted Load Bearing[1] Rated Interior Facing Fire.
B1067-1b	Single layer of 5/8'' Type X gypsum board facing interior finish, over minimum 2'' x 4'' (38 mm x 89 mm) dimensional lumber, spaced at maximum 24'' (610 mm) spacing. Stud cavity to be filled with minimum 3.5'' (89 mm) Comfortbatt® friction fit into stud cavity with compression at butt joints to remove gaps. Exterior 7/16'' (11 mm) wood based, or exterior gypsum sheathing. Comfortboard® 80 or 110 exterior continuous insulation installed with furring strips of ¾'' (20 18 mm) x 2'' (51 mm) installed along stud locations, with #8 wood screws at 24'' (610 mm) fastener spacing anchors the continuous insulation. Exterior WRB and exterior cladding as required by code does not reduce rating. See design B1067-1b for additional details.	1-hour Restricted Load Bearing[1] Rated Interior Facing Fire.
B1067-1g	Single layer of minimum 5/8 in. (16 mm) Type X gypsum board forming the interior finish, installed over minimum nominal 2 in. x 4 in. (38 mm x 89 mm) dimensional lumber studs spaced a maximum of 24 in. (610 mm) on center. Stud cavities shall be filled with minimum 3-1/2 in. (89 mm) Comfortbatt® insulation, friction fit with compression at butt joints to remove gaps. Exterior sheathing shall consist of minimum 7/16 in. (11 mm) thick OSB, plywood or exterior gypsum complying with the applicable code. A single layer of minimum 1-1/2 in. (38 mm) thick Comfortboard® 80 or Comfortboard® 110 continuous exterior insulation shall be installed over the sheathing. Furring shall consist of a single layer of wood furring strips (Configuration A), or wood furring strips or steel hat channels with an optional second layer installed perpendicular to the first layer (Configuration B). The first layer shall be secured through the insulation into the wood framing with screws of sufficient length to provide minimum 1 in. (25 mm) penetration, spaced a maximum of 24 in. (610 mm) vertically. Where provided, the second layer shall be mechanically fastened to the first layer to transfer cladding loads to the supporting framing. Refer to Design B1067-1g for details.	1-hour Unrestricted Load Bearing

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QAI Design #	Description	Rating
B1067-1h	Two layers of 5/8'' Type X gypsum board facing interior finish installed with joints offset 24'' (610 mm), over minimum 2'' x 4'' (38 mm x 89 mm) dimensional lumber, spaced at maximum 24'' (610 mm) spacing. Stud cavity to be filled with minimum 3.5'' (89 mm) Comfortbatt® friction fit into stud cavity with compression at butt joints to remove gaps. Exterior grade sheathing of minimum 7/16'' (11 mm) thickness OSB, plywood or exterior gypsum complying with the applicable code. Two layers of Comfortboard® 80 or 110 exterior continuous insulation of minimum 2'' (51 mm) thickness installed with joints offset, anchored with furring strips of ¾'' (20 18 mm) x 2'' (51 mm) installed along stud locations, with #8 wood screws at 12'' (305 mm) fastener spacing anchors the continuous insulation. See design B1067-h for additional details.	2-hour Unrestricted Load Bearing
B1067-1i	Partition wall with each assembly face finished with a single layer of 5/8'' Type X gypsum board installed over a double stud row of minimum 2'' x 4'' (38 mm x 89 mm) dimensional lumber, spaced at maximum 24'' (610 mm) spacing. Stud rows are spaced with maximum 2'' (51 mm) air gap, that can e optionally filled with Comfortboard® 80 or 110 insulation. Each stud row, stud cavities are to be filled with minimum 3.5'' (89 mm) Comfortbatt® friction fit into stud cavity with compression at butt joints to remove gaps. See design B1067-i for details.	1-hour Unrestricted Load Bearing

Note 1: Restricted-Load Bearing - Load rating for this assembly was calculated and tested using the limit states design method outlined in CAN/ULC-S101 – Appendix C with a load reduction of 18%.

ROCKWOOL mineral wool CAN/ULC-S101 and ASTM E119 – Floor / Ceiling Assemblies:

QAI Design #	Description	Rating
B1067-1j	Minimum 3-inches (76 mm) thickness Comfortboard® 80 or Comfortboard® 110 of minimum nominal 8 lbs/ft^3 (128 kg/m^3) density. The Comfortboard® is installed with joints closely fit (products ≥ 3 inches (76 mm) thickness) or with joints offset by a minimum 12-inches (305 mm) where multiple Comfortboard® layers are installed. Comfortboard® is to be anchored with a minimum of five (5) steel fasteners paired with minimum 2-inch (51 mm) diameter steel plates or washers. Steel fasteners are required to penetrate the underlying cross-laminated timber (CLT) a minimum of 2-inches (51 mm).	4-hour Restricted Load Bearing[1]

Note 1: Restricted-Load Bearing - Load rating for this assembly was calculated and tested using Load Resistance Factor Design per the National Design Specification per ASTM E119 with an applied load of 82% design load.

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ROCKWOOL mineral wool Non-Combustible Protection Rating assemblies per ASTM E119:

QAI Design #	Description	Noncombustible Protection Time
B1067-1j	Floor / Ceiling (Horizontal) Installation: Comfortboard® is installed with joints closely fit or with joints offset by a minimum 12-inches (305 mm) where multiple Comfortboard® layers are installed to achieve required thickness. Comfortboard® is to be anchored with a minimum of five (5) steel fasteners paired with minimum 2-inch (51 mm) diameter steel plates or washers. Steel fasteners are required to penetrate the underlying mass timber element a minimum of 2-inches (51 mm).	40-minutes at 1.5 inches (38 mm) thickness 80-minutes at 3-inches (76 mm) thickness
B1067-1k	Wall (Vertical) Installation Comfortboard® is installed with joints closely fit or with joints offset by a minimum 12-inches (305 mm) where multiple Comfortboard® layers are installed to achieve required thickness. Comfortboard® is to be anchored with a minimum of five (5) steel fasteners paired with minimum 2-inch (51 mm) diameter steel plates or washers. Steel fasteners are required to penetrate the underlying mass timber element a minimum of 2-inches (51 mm).	

Note 1: Noncombustible Protection Time Rating for the protection of mass timber is determined in accordance with Section 703.6 of the 2021 International Building Code.

ROCKWOOL mineral wool thermal insulation compliant NFPA 285 exterior wall assemblies:

QAI Design #	Approved Products	Description	Conditions of Use
B1067-1l	Cavityrock, Comfortboard 80, Comfortboard 110	Cross-Laminated Timber (CLT) Mass Timber exterior wall, with ROCKWOOL exterior continuous insulation over water resistive barrier with non-combustible cladding.	Installation to be in accordance with QAI Design B1067-1l.

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ROCKWOOL mineral wool thermal insulation compliant CAN/ULC S134 exterior wall assemblies:

QAI Design #	Approved Products	Description	Flame Spread	Heat Flux at 3.5 m (11.5 ft)	Conditions of Use
B1067-1m	Cavityrock	Cross-Laminated Timber (CLT) Mass Timber exterior wall, with ROCKWOOL exterior continuous insulation over water resistive barrier with non-combustible cladding.	< 5.0 m (16.4 ft)	< 35 kW/m2 (11,100 BTU/hr·ft2)	Installation to be in accordance with QAI Design B1067-1m.

ROCKWOOL Comfortboard® 80 and Comfortboard® 110 mineral wool board Wildland Urban Interface (WUI) flame impingement compliant exterior wall assemblies evaluated per SFM Chapter 12-7A-1[1] and ASTM E2707:

Exterior Cladding[2]	Air Cavity[3]	Exterior Insulation	WRB[4]	Sheathing[5]
Non-combustible or Wood Based Permitted	0'' – 1'', creating with wood based or non-combustible furring strips	Minimum 1 inch (25 mm) thickness ROCKWOOL Comfortboard® 80 or Comfortboard® 110, installed with joints tight, anchored with five (5) fasteners with 2-inch (51 mm) diameter washers or plates.	Any code approved synthetic or bitumen based WRB approved by the Authority Having Jurisdiction	≥ 7/16'' (11 mm) Oriented Strand Board (OSB), Plywood, Exterior Gypsum or Cement Board

1: Assemblies noted are resistant to direct flame impingement as evaluated per ASTM E2707 and SFM Chapter 12-7A-1 and do not represent fire-resistance rated assemblies. See ASTM E119 section for fire-resistance rated assemblies rated for exterior exposure to fire.
2: Exterior cladding material and installation is to comply with applicable codes. Resistance to anticipated service loads is outside the scope of the noted certification.
3: Cladding installation can be ventilated or direct to sheathing in contact with exterior insulation.
4: Water-resistive barrier (WRB) material and installation is to comply with applicable codes.
5: Sheathing including attachment is to comply with applicable codes. Resistance to anticipated service loads is outside the scope of this report

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ROCKWOOL mineral wool thermal insulation encapsulation rating per CAN/ULC-S146:

QAI Design #	Description	Encapsulation Rating
B1067-1j	Floor / Ceiling (Horizontal) Installation: Minimum 4-inches (102 mm) thickness Comfortboard® 80 or Comfortboard® 110 of minimum nominal 8 lbs/ft^3 (128 kg/m^3) density. The Comfortboard® is installed with joints closely fit (products ≥ 4 inches (102 mm) thickness) or with joints offset by a minimum 12-inches (305 mm) where multiple Comfortboard® layers are installed. Comfortboard® is to be anchored with a minimum of five (5) steel fasteners paired with minimum 2-inch (51 mm) diameter steel plates or washers. Steel fasteners are required to penetrate the underlying mass timber element a minimum of 2-inches (51 mm).	≥ 50 minutes
B1067-1k	Wall (Vertical) Installation: Minimum 4-inches (102 mm) thickness Comfortboard® 80 or Comfortboard® 110 of minimum nominal 8 lbs/ft^3 (128 kg/m^3) density. The Comfortboard® is installed with joints closely fit (products ≥ 4 inches (102 mm) thickness) or with joints offset by a minimum 12-inches (305 mm) where multiple Comfortboard® layers are installed. Comfortboard® is to be anchored with a minimum of five (5) steel fasteners paired with minimum 2-inch (51 mm) diameter steel plates or washers. Steel fasteners are required to penetrate the underlying mass timber element a minimum of 2-inches (51 mm).	

ROCKWOOL Comfortboard® 80 and Comfortboard® 110 mineral wool for protection of foam plastics per the National Building Code of Canada following CAN/ULC-S101 – Non-Loadbearing Walls and Partitions:

QAI Design #	Board Thickness	Sheathing:	20 min Temperature Rise	Stay-In Place Period
B1067-1c	3” (80 mm)	None	Complies	40-minute
B1067-1d	1-1/4” (31 mm)	3/8” (11 mm) OSB or plywood	Complies	40-minute

* Remain-in place

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ROCKWOOL Comfortbatt®, Comfortboard® 80 and Comfortboard® 110 mineral wool thermal insulation as a protective covering for foamed plastic when friction fit between code approved supports per CAN/ULC-S124 for use over foamed plastic insulation of a maximum R value of 7.5/inch.

QAI Design #	Product	Thickness:	Classification	Installation
B1067-1e	Comfortbatt®	5.5”	B	Friction fit into wall stud cavity. Minimum 2 in. x 4 in. wood wall studs.
	Comfortboard® 80 / Comfortboard® 110	2’’	B	Friction fit into joist cavity. Minimum 2 in. x 6 in. members.
	Comfortboard® 80 / Comfortboard® 110	3’’	A	

ROCKWOOL Comfortboard® 80 and Comfortboard® 110 mineral wool thermal insulation as a protective covering for foamed plastic per CAN/ULC-S124 for use over foamed plastic insulation of a maximum R value of 7.5/inch

QAI Design #	Product	Thickness:	Classification	Installation
B1067-1f	Comfortboard® 80 / Comfortboard® 110	2”	B	Fastened to the foamed plastic using Ramset Insulfast insulation fasteners and non-combustible fasteners at manufacturer’s recommended instructions, anchored into code compliant substrate. Tight butt-edge fit.
	Comfortboard® 80 / Comfortboard® 110	3’’	A	

Notes: Final acceptance of the product in the intended application is to be determined by the authority having jurisdiction.

Product is to be installed in accordance with the QAI Design Listing and manufacturer’s published installation instructions by qualified installing personnel.

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