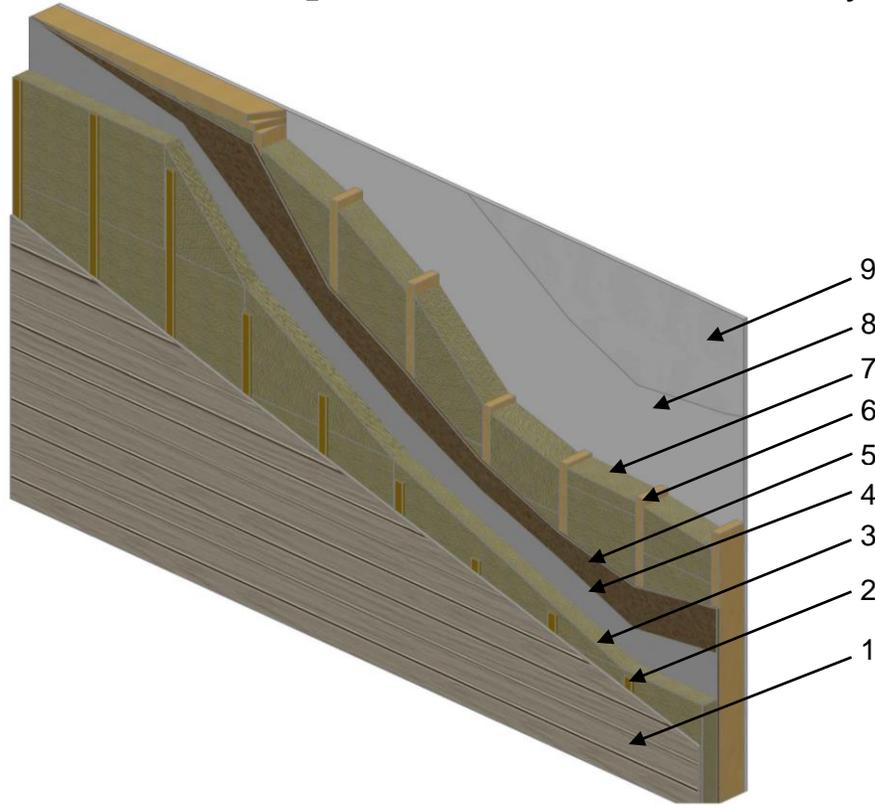




## QAI Design B1067-1b –ROCKWOOL COMFORTBATT – CAN/ULC 101/ASTM E119 1 Hour Restricted-Load Bearing<sup>1</sup> Fire-Resistance-Rated Wall Assembly<sup>2</sup>



No.	COMPONENT	DESCRIPTION	
1	Siding	Any exterior cladding product	
2	Wood Furring Strips	Minimum Size	¾-inch thick by 2-inch wide.
		Installation:	#8 wood screws spaced a minimum of 24 inches vertically. Screws to be sufficient length to penetrate a minimum 1-inch into wood framing. Designers can vary the type, number and embedded depth of fasteners to meet specific requirements.
3	Insulation	Certified Manufacturer:	ROCKWOOL
		Certified Product Name:	COMFORTBOARD™ 80
		Minimum Thickness:	≥ 1.5 inches.
		Nominal Density:	8.0 lbs/ft <sup>3</sup> (128 kg/m <sup>3</sup> )
	Installation:	Fasten the board to hold it in place prior to fastening the wood furring strips over the board.	
4	Building Wrap	Any Exterior Air Barrier System complying with ASTM E2178	
5	Exterior Sheathing	Type:	Plywood, Oriented Strand Board (OSB) or glass-mat-surfaced gypsum sheathing.
		Minimum Thickness:	7/16 inch (11 mm).
6	Studs	Minimum Stud Size:	2-inch x 4-inch (38 mm x 89 mm).
		Grade:	Any Grade as per CSA O86*.
		Species:	Any Species as per CSA O86*.
		Maximum Wood Stud Spaced:	24-inch (610 mm) on center.
		Blocking:	At horizontal gypsum joints.
7	Insulation	Certified Manufacturer:	ROCKWOOL
		Certified Product Name:	COMFORTBATT®
		Minimum R-Value	R14
		Minimum Thickness:	3-1/2 inch (89 mm)
		Nominal Density:	1.8 lb/ft <sup>3</sup> (29 kg/m <sup>3</sup> )
	Installation:	Friction fit insulation between stud cavities with staggered horizontal joints. Insulation must be compressed vertically to create a tight joint. No Fasteners are required.	
8	Vapour Barrier	Any vapour barrier system meeting CAN/CGSB-51.34-M.	

<b>9</b>	<b>Gypsum Board</b>	Type:	Type X gypsum wallboard complying with ASTM C1396.
		Thickness:	Single layer of 5/8-inch (16 mm).
		Application:	Sheathing is to be fastened to wood framing with 1-1/4-inch (29 mm) length #6 Type S screws spaced at 8 inches (200 mm) on center around the perimeter, and 12 inches (305 mm) on center spacing in the field. Joints to be taped and mudded, and fastener heads to be mudded with tape and joint compound in compliance with CSA A82.31-M or ASTM C840, or as required to meet installation requirements as set by the appropriate model code.

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%. Where assemblies are designed in accordance with allowable stress design (ASD) or load resistance factor design (LRFD) appropriate load adjustments are to be applied.

Note 2: This assembly is rated for an interior oriented to fire **only**.