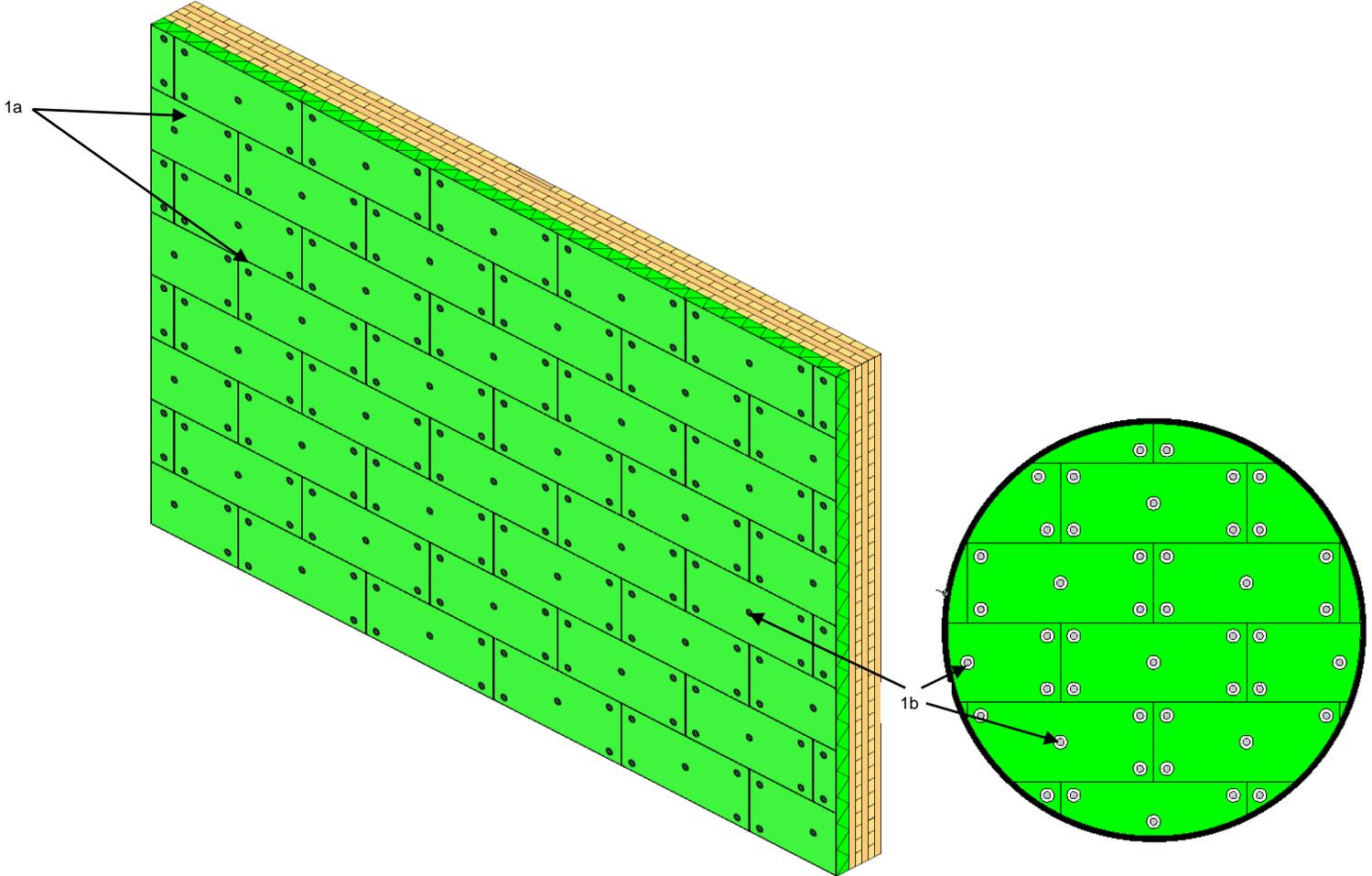


**QAI Design B1067-1k – ROXUL INC. dba ROCKWOOL –MASS TIMBER PROTECTION**

STANDARDS	RATINGS	Minimum Thickness Inches (mm)
CAN/ULC S146	≥ 50-minutes Encapsulation Rating <sup>2</sup>	4-inches (102 mm)
2021 International Building Code Section 703.6 Referencing ASTM E119	40-minutes Noncombustible Protection Time <sup>2</sup>	1.5-inches (38 mm)
	80-minutes Noncombustible Protection Time <sup>2</sup>	3-inches (76 mm)



No.	COMPONENT	DESCRIPTION		
1	Mineral Board Insulation	Manufacturer:	ROCKWOOL	
		Type:	Comfortboard® 80 or Comfortboard® 110 of minimum nominal 8 lbs/ft <sup>3</sup> (128 kg/m <sup>3</sup> ) density.	
		Minimum Thickness:	<b>Noncombustible Protection Time Rating Section 703.6 2021 IBC</b>	<b>Encapsulation Rating per CAN/ULC S146</b>
			1.5 inches (38 mm) = 40 minutes 3-inches (76 mm) = 80 minutes	4-inches (102 mm)
Installation:	<p>Comfortboard® can be installed as a single layer or as multiple layers to a minimum total thickness for noncombustible protection time ratings for thicknesses shown above.</p> <p>Total installed thickness of a single layer or as multiple layers is to be a minimum of ≥ 4-inches (102 mm) for encapsulation ratings per CAN/ULC S146.</p> <p>Single Layer: Joints are to be pressed tight at time of insulation to remove gaps between boards. Rows of boards have joints offset.</p> <p>Multiple Layers: Layers are to have joints offset a minimum of 12-inches (305 mm) between layers.</p>			

1b	Fastener	Type:	Steel fasteners paired with steel washers or plates.
		Minimum Size:	2-inch (51 mm) diameter washers or plates of sufficient length for 2-inch (51 mm) penetration.
		Installation:	Minimum of five (5) washers evenly distributed across the Comfortboard® is required for anchoring. A suggested installation pattern is shown. Fastening with additional fasteners is permitted where the fasteners are uniformly distributed to retain the Comfortboard® in a fire event. Consult Rockwool's Fastening Guidelines for more information.
2	Mass Timber	Type:	<b>Encapsulation Rating per CAN/ULC S146:</b> Mass timber elements complying with the National Building Code of Canada or Provincial governing codes. <b>Noncombustible Protection Time per ASTM E119:</b> Mass timber elements complying with the 2021 International Building Code or state governing codes.
		Minimum Thickness:	<b>Encapsulation Rating per CAN/ULC S146:</b> Per engineering design. <b>Noncombustible Protection Time per ASTM E119:</b> Per engineering design.
		Installation:	Installation is to be in accordance with the local codes and engineering design where applicable and is outside the scope of this listing. Sealing of adjacent mass timber elements is to be in accordance with the local governing code requirements.

Note 2: Encapsulation Rating and Noncombustible Protection Time apply for installations of mass timber elements including walls, columns and beams where installed in accordance with items 1b shown above.