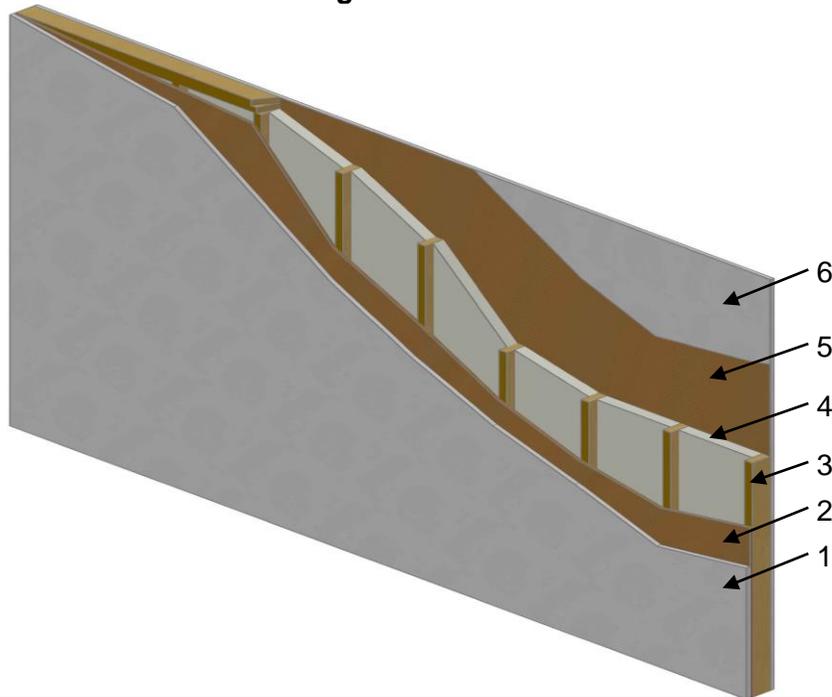




**QAI Design B1056-1c – Icynene Inc. – ASTM E119/CAN/ULC S101
1 Hour Restricted* Load Bearing Fire Resistance Rated Wall Assembly**



No.	COMPONENT	DESCRIPTION
1	Exterior Sheathing	Sheathing Type: Type X gypsum wallboard complying with ASTM C1396 and CAN/CSA-A82.27
		Minimum Thickness: 5/8 inch (16 mm)
		Minimum Fastener Size: #6 x 1-1/4" (32 mm) long self-taping zinc plated drywall screws
		Maximum Fastener Spacing: 8 inches (200 mm) on center around the perimeter and 12 inches (305 mm) on center in the field
		Finish: Joints to be taped and mudded, and fastener heads to be mudded as per CSA A82.31-M or ASTM C840 (Level 2)
2	Exterior Sheathing	Sheathing Type: Cascades Inc. - wood fiber utility board (0.72 lbs/ft ² [0.03kg/m ²])
		Minimum Thickness: 1/2 inch (12 mm)
		Minimum Fastener Size: #6 x 1-1/4" (32 mm) long self-taping zinc plated drywall screws
		Maximum Fastener Spacing: 8 inches (200 mm) on center around the perimeter and 12 inches (305 mm) on center in the field
		Finish: Joints to be taped and mudded, and fastener heads to be mudded as per CSA A82.31-M or ASTM C840 (Level 2)
3	Wood Stud	Minimum Stud Size: 2 inch x 4 inch (38mm x 89 mm)
		Maximum Stud Spaced: 24 inch (610 mm) on center
4	Insulation	Certified Company: Icynene, Inc.
		Certified Product: Polyurethane Foam Insulation
		Certified Model: Classic (LD-C-50™), Classic Max (LD-C-50™ V2), Classic Max Select (LD-C-50™ V2.4), Classic Plus (LD-C-70™), Classic ECO (LD-R-50™)
		Application: Spray applied
		Maximum Thickness: 2-1/4 inches (50 mm)
5	Interior Sheathing	Maximum Density: 0.55 lbs/ft ³ (8 kg/m ³) [Classic, Classic Max, Classic Max Select & Classic ECO] 0.77 lbs/ft ³ (11 kg/m ³) [ClassicPlus]
		Details: Applied between the wood stud (Item 3) cavities. Trim any excess insulation (flush with the edge of the wood stud (Item 3))
5	Interior Sheathing	Sheathing Type: Cascades Inc. - wood fiber utility board (0.72 lbs/ft ² [0.03kg/m ²])
		Minimum Thickness: 1/2 inch (12 mm)
		Minimum Fastener Size: #6 x 1-1/4" (32 mm) long self-taping zinc plated drywall screws
		Maximum Fastener Spacing: 8 inches (200 mm) on center around the perimeter and 12 inches (305 mm) on center in the field
		Finish: Joints to be taped and mudded, and fastener heads to be mudded as per CSA A82.31-M or ASTM C840 (Level 2)
6	Interior Sheathing	Sheathing Type: Type X gypsum wallboard complying with ASTM C1396 and CAN/CSA-A82.27
		Minimum Thickness: 5/8 inch (16 mm)
		Minimum Fastener Size: #6 x 1-1/4" (32 mm) long self-taping zinc plated drywall screws
		Maximum Fastener Spacing: 8 inches (200 mm) on center around the perimeter and 12 inches (305 mm) on center in the field
		Finish: Joints to be taped and mudded, and fastener heads to be mudded as per CSA A82.31-M or ASTM C840 (Level 2)

*Restricted-Load Bearing - Load rating for this assembly was 1,805 pounds per stud