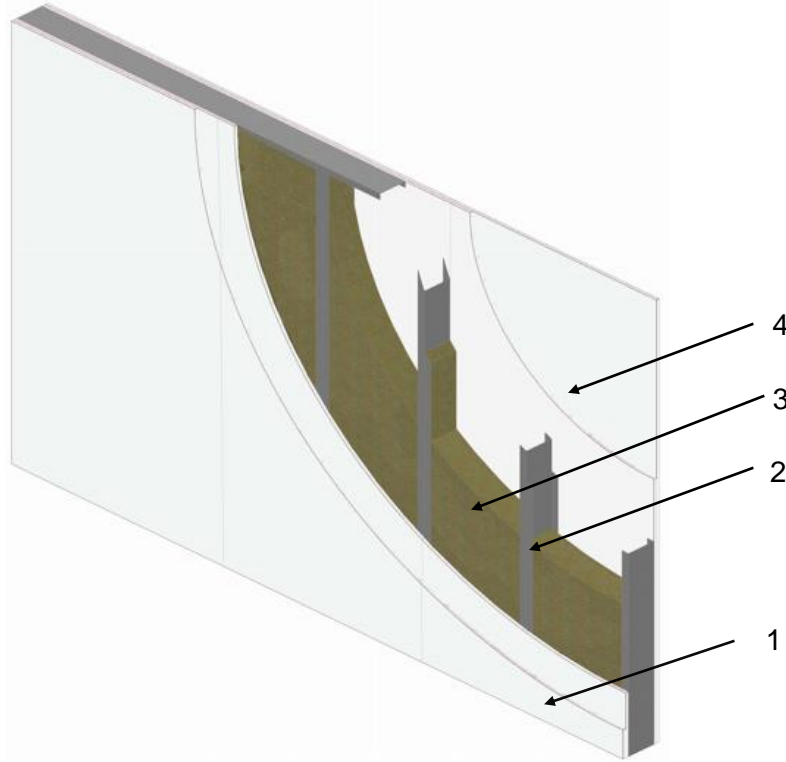


**QAI Design B1073-1d – ReThinking Construction - MEGCRETe™ Prefabricated Wall Assembly  
Load Bearing Firewall Assembly per NBC 2010 - Section 4.1.5.17  
2 Hour Restricted\*-CAN/ULC-S101/ASTM E119**



No.	COMPONENT	DESCRIPTION	
1	Exterior Sheathing	Manufacturer:	MBP-IP
		Product Name:	MEGCRETe™ MBP-IP MgO (Listed and Labeled by Underwriters Laboratories (UL))
		Minimum Thickness:	2 layers of 1/2 inch (12 mm)
		Applications:	The two sheets are bonded to each other
		Fasteners:	#9 x 1-3/4 inch (45 mm) GRK R4 screws fastened around the spaced 6 inches on center, holes were pre-drilled with a 9/64 inch (3.6 mm) bit. Fasteners at the back-to-back studs in the center of the panel alternate studs every 6 inches.
		Panel Joints:	Polyurethane sealant
2	Spline	Type:	Steel Stud
		Yield Strength:	50 ksi
		Size:	800S162-54 (16ga. Stud with 8 inch web and 1-5/8" flange)
		Laminated Spline:	Two steel studs are laminated together back-to-back with a 1/8" beads of RTV silicone sealant conforming to CGSB 19-GP-9M at the edges of the stud and 2 - #10 - 3/4" self-drilling screws 1 inch in from each edge spaced every 8 inches (3 inches from ends).
Installation:	Steel stud cavities were filled with 1-5/8 inch x 8-1/4 inch wide strips of insulation (See component 3).		
3	Insulation	Manufacturer:	ROXUL Inc.
		Product:	COMFORTBATT
		Thickness:	3-1/2 inch and 5-1/2 inch
		Minimum Density:	32 kg/m3 (2.0 lb/ft³) complying with CAN/ULC S702
		Installation:	Friction fit into the stud cavity
4	Interior Sheathing	Manufacturer:	MBP-IP
		Product Name:	MEGCRETe™ MBP-IP MgO (Listed and Labeled by Underwriters Laboratories (UL))
		Minimum Thickness:	2 layers of 1/2 inch (12 mm)
		Applications:	The two sheets are bonded to each other
		Fasteners:	#9 x 1-3/4 inch (45 mm) GRK R4 screws fastened around the spaced 6 inches on center, holes were pre-drilled with a 9/64 inch (3.6 mm) bit. Fasteners at the back-to-back studs in the center of the panel alternate studs every 6 inches.

\* Maximum allowable axial load of 1800 pounds per linear foot and a uniform transverse load equal to 0.5 kPa per NBC 2010 - Section 4.1.5.17. Design of firewall to resist damage should be determined by a registered design professional or the authority having jurisdiction in accordance with applicable codes.