

## **Below Grade Wall Assembly**

Assembly # MB-07

Description: ICF wall consisting of 152.4mm (6") concrete core with 63.5mm (2.5") expanded polystyrene (Type 2) insulation each side. Interior finished with 12.7mm (1/2") gypsum board.

Assembly Components (layer listed from exterior to interior)	RSI Value	R Value
63.5mm (2.5") expanded polystyrene (Type 2)	1.778	10.09595
152.4mm (6") Concrete core	0.06096	0.346147
63.5mm (2.5") expanded polystyrene (Type 2)	1.778	9.374812
12.7mm (1/2") gypsum board	0.07747	10.09595
Inside Air Film	0.12	0.681392
	63.5mm (2.5") expanded polystyrene (Type 2) 152.4mm (6") Concrete core 63.5mm (2.5") expanded polystyrene (Type 2) 12.7mm (1/2") gypsum board	63.5mm (2.5") expanded polystyrene (Type 2)  1.778 152.4mm (6") Concrete core  63.5mm (2.5") expanded polystyrene (Type 2)  1.778 12.7mm (1/2") gypsum board  0.07747

Total 3.81 30.6

Note:

The thermal resistance values of each continuous layer incorporated in the assembly are from A-9.36.2.4.(1)D.

	$RSI_{parallel} =$	=100		
Parallel Heat Flow Calculation:	_	% area of framing	+	% area of cavity
		RSI <sub>F</sub>	_	RSI <sub>C</sub>

% Area of Framing N/A Value of the area of framing member obtained from Table A-9.36.2.4.(1)A

% Area of Cavity N/A Values of the area of cavity obtained from Table A-9.36.2.4.(1)A

RSI Framing N/A
RSI Cavity N/A
RSI Parrallel \* N/A

Note: The above values and references are from the 2010 National Building Code of Canada. This document is intended to be used for reference purposes. The assembly components shall be detailed in a cross section on the submitted plans.

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RSI <sub>eff</sub> =	3.81	(m²·K)/W	R <sub>eff</sub> =	30.6	(h·ft²·⁰F)/Btu	
eff = effective thermal resistance						