

Above Grade Wall Assembly

Assembly # MW-05

Description: 38x140 (2x6) Studs at 406mm (16") o/c with 114.3mm (4.5") 2lb. sprayed polyurethane foam cavity insulation. 11.1mm (7/16") OSB sheathing. Exterior finish with vinyl siding, interior finish with 12.7mm (1/2") gypsum board.

Layer	Assembly Components (layer listed from exterior to interior)	RSI Value	R Value
1	Outside Air Film	0.03	0.170348
2	Non-Insulated Vinyl siding	0.11	0.624609
3	Weather Barrier House wrap	N/A	N/A
4	11.1mm (7/16") OSB Sheathing	0.108903	0.618377
5	38x140 (2X6) @ 406mm (16") o/c with RSI 4.11 (R 23.3) 2lb. medium density sprayed	2.62726	14.91827
	polyurethane foam *		
6	25.4mm (1") Air Space	0.18	1.022087
7	6 mil. Polyethylene	N/A	N/A
8	12.7mm (1/2") Gypsum Board	0.07747	0.439895
9	Inside Air Film	0.12	0.681392

Total 3.25 18.5

Note:

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

% Area of Framing
% Area of Framing
% Area of Cavity
77%
Value of the area of framing member obtained from Table A-9.36.2.4.(1)A
77%
Values of the area of cavity obtained from Table A-9.36.2.4.(1)A

RSI Framing 1.19
RSI Cavity 4.11
RSI Parrallel * 2.62726

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.

RSI _{eff} =	3.25	(m ² ·K)/W	R _{eff} =	18.5	(h·ft²·ºF)/Btu	
eff = effective thermal resistance						