

Above Grade Wall Assembly

Building Inspection Inspection des bâtiments

Assembly # MW-04

Description: 38x140 (2x6) Studs at 406mm (16") o/c with RSI 4.23 (R 24) fibreglass batt 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 4.23 (R24) Fiberglass batt *		2.66446	15.1295
6	6 mil. Polyethylene		N/A	N/A
7	12.7mm (1/2") Gypsum Board		0.07747	0.439895
8	Inside Air Film		0.12	0.681392
	1	I	I	
		Total	3.11	17.7
		TUTAL	5.11	17.7

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 Ca	alculation:	—	% area of framing	+	% area of cavity				
		_	RSI _F		RSI _C				
% Area of Framing	23%	% Value of the area of framing member obtained from Table A-9.36.2.4.(1)A							
% Area of Cavity	77%	Values of the area of cavity obtained from Table A-9.36.2.4.(1)A							
RSI Framing	1.19	9							
RSI Cavity	4.23	3							
RSI Parrallel *	2.6644	6							
Note: The above valu	ues and refe	rences are from the 2010	National Building Co	de 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} = 3.11	(m²∙K)/W	/ R	R _{eff} = 17.7	(h·ft ² ·°F)/B	tu				
eff = effective therm	al resistance								