

Ceiling Below Attic Assembly

Building Inspection Inspection des bâtiments

Assembly # MA-01

Description: Flat ceiling with 38x89 (2x4 bottom cord) typical trusses spaced at 610mm (24") o/c with 356mm (14") blown cellulose. Ceiling finished 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	38x89 (2x4) typical trusses @ 610mm (24") o/c with 356mm (14") blown cellulose*	8.5085	48.3135
3	19mm (3/4") Strapping	0.15	0.851739
4	6 mil. Polyethylene	N/A	N/A
5	12.7mm (1/2") gypsum board	0.07747	0.439895
6	Inside Air Film	0.11	0.624609
	Total	8.88	50.4

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		% area of	framing	+	% area of cavity				
			RS	SI _F		RSI _C			
% Area of Framing	11%	Value of the area of framing member obtained from Table A-9.36.2.4.(1)A							
% Area of Cavity	rea of Cavity 89% Values of the area of cavity obtained from Table A-9.36.2.4.(1)A					.4.(1)A			
RSI Framing	0.7565								
RSI Cavity	2.225	_							
RSI Parrallel *	8.5085								
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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} = 8.88	(m²∙K)/W		R _{eff} =	50.4	(h∙ft²•⁰F)/B	tu			
eff = effective therma	al resistance								