

Cathedral Ceiling Assembly

Assembly # MC-01

Description: Cathedral ceiling with 38x89 (2x4) trusses with raised heel spaced at 610mm (24") o/c with 190.5mm (7.5") blown cellulose. Ceiling to be finished with 12.7mm (1/2") gypsum board over strapping.

Layer	Assembly Components (layer listed from exterior to interior)	RSI Value	R Value
1	Outside air film	0.03	0.17035
2	38mmx89mm (2x4) trusses @ 600mm (24") o/c with 190.5mm (7.5") blown cellulose*	4.496629	25.53304
3	6 mil. Polyethylene	N/A	N/A
4	Strapping 19mm (3/4")	0.15	0.851739
5	12.7mm (1/2") gypsum board	0.07747	0.439895
6	Inside air film	0.11	0.624609

Total 4.86 27.6

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 7% Value of the area of framing member obtained from Table A-9.36.2.4.(1)A

% Area of Cavity 93% Values of the area of cavity obtained from Table A-9.36.2.4.(1)A

RSI Framing 0.7565
RSI Cavity 2.225
RSI Parrallel * 4.496629

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} =	4.86	(m²·K)/W		R _{eff} =	27.6	(h·f²·ºF)/Btu
eff = effect	tive therma	al resistance	•			