

Wall Systems

	Wall Reference	Wall Type	Spandrel Methodology	Wall Construction	Wall Thickness (mm)	Total System R-Value (m².K/W)	Solar Absorptance
1	Metal Clad	Wall		Metal Clad / Metal Frame	90	1.83	0.70
2	Internal Wall	Wall		Internal wall with R1.5 insulation	90	1.86	0.50
3							
4							
5							
6							

Total System R-value Calculator

	Layer 1	Layer 2 (Air space)	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7
Ventilation	Unventilated						
Material	Steel	Airspace - 20mm, inner surface 0.05 emittance	Glasswool	Gypsum plasterboard			
Thickness	1	20	66	10			
Conductivity (W/mK)	47.500	n/a	0.044	0.170			
Framing			Steel				
Metal Frame, Web Thickness (mm)			7				
Metal Frame, Flange Width (mm)			50				
Framing Area			11.0%				
Thermal Break Material							
Thermal Break Thickness							
Thermal Break Overlap Area							
Resistance (m².K/W)	0.00	0.00	1.48	0.06	0	0	0
Wall Construction	Metal Clad / Metal Frame						
	Internal Surface Resistance (still air, on a wall)						0.12
	System R-Value (m².K/W)						1.66
	System U-Value (W/m².K)						0.60