



ABN : 95 678 212 836

SIPS Panels Energy Rating Statement

As cost-effective, resource-efficient and sustainable builds increasingly become a priority, structural insulated panels (SIPs) provide a strong, efficient and lightweight prefabricated alternative for walls, roofs, and floors. The high-performance composite building material is a load-bearing structural system consisting of an expanded polystyrene (EPS) insulating foam core sandwiched between two outer engineered skins, typically oriented strand board (OSB).

SIPS 176mm Floor Panel

SIPS Floor – 176mm thick panel with “different floor finish”

Element	Density (kg/m3)	Thickness (mm)	Conductivity (W/mk)	Resistance (R)
Outside Air	-	-	-	0.04
OSB 3 External	620	12	0.12	0.12
Unipoly EPS – SL Grade	13.5	150	0.038	3.85
OSB 3 Internal	620	12	0.12	0.12
Flooring (Min. 11mm)	700	11	0.12	0.09
Inside Air (Still)	-	-	-	0.12

Total R Value: 4.34

SIPS 116mm Wall Panel

SIPS Wall – 116mm thick panel with minimum 10mm plasterboard internal lining
(no external cladding is accounted for)

Element	Density (kg/m3)	Thickness (mm)	Conductivity (W/mk)	Resistance (R)
Outside Air	-	-	-	0.04
OSB 3 External	620	12	0.12	0.12
Unipoly EPS – SL Grade	13.5	90	0.038	2.31
OSB 3 Internal	620	12	0.12	0.12
Plasterboard (10mm)	700	10	0.12	0.06
Inside Air (Still)	-	-	-	0.12

Total R Value: 2.77

SIPS 166mm Wall Panel

SIPS Wall – 166mm thick panel with minimum 10mm plasterboard internal lining
(no external cladding is accounted for)

Element	Density (kg/m3)	Thickness (mm)	Conductivity (W/mk)	Resistance (R)
Outside Air	-	-	-	0.04
External Cladding (TBC)	-	-	-	0.00
Airspace	-	-	-	0.18
OSB 3 External	620	12	0.12	0.12
Unipoly EPS – SL Grade	13.5	140	0.038	3.59
OSB 3 Internal	620	12	0.12	0.12
Plasterboard (10mm)	700	10	0.12	0.06
Inside Air (Still)	-	-	-	0.12

Total R Value: 4.23

SIPS 166mm Roof Panel

SIPS Roof – 166mm thick panel with minimum 10mm plasterboard internal lining
(no external cladding is accounted for)

Element	Density (kg/m3)	Thickness (mm)	Conductivity (W/mk)	Resistance (R)
Outside Air	-	-	-	0.04
Metal Roofing	700	0.42	0.21	0.00
Airspace	-	-	-	0.18
OSB 3 External	620	12	0.12	0.12
Unipoly EPS – SL Grade	13.5	140	0.038	3.59
OSB 3 Internal	620	12	0.12	0.12
Plasterboard (10mm)	700	10	0.12	0.06
Inside Air (Still)	-	-	-	0.12

Total R Value: 4.23