

Insulated metal roof and wall panels with PIR, PUR, rockwool or EPS core between galvanized pre-painted steel skins, 40–200 mm thick, manufactured to EN 14509 in our Dilovası plant and exported to the Gulf, CIS, Balkans and Africa.

EN 14509 CE	EN 13501-1 fire class	RAL 9002 / 9006 / 3009 from stock	MOQ 1 × 40' HC
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40–200 mm insulated metal panels with DX51D+Z galvanized, pre-painted skins. Manufactured in our Dilovası plant, roll-formed to your length up to 13.5 m and packed for 40' HC or truck. CE-marked to EN 14509; B-s1,d0 (PIR) or A2-s1,d0 (rockwool) fire class.

ROOF PANELS VS WALL PANELS

	Roof panel	Wall panel
Outer skin	Trapezoidal 40/250, 3–5 ribs	Flat, micro-rib or box profile
Joint	Overlap rib + tongue & groove	Tongue & groove, hidden or visible fix
Thickness range	40–150 mm	40–200 mm
Typical span (50 mm PIR)	3.0 m	3.5 m
Min. pitch	5°	—
Standard width	1 000 mm cover	1 000 / 1 150 mm cover

PIR VS PUR VS ROCKWOOL VS EPS CORE

Core	λ (W/mK)	Density (kg/m³)	Fire class (EN 13501-1)	Max. service temp.	Typical use
PIR	0.022	40	B-s1,d0	+100 °C	Warehouses, cold stores, food plants
PUR	0.024	40	B-s2,d0 / C	+80 °C	General industrial (legacy)
Rockwool	0.040	100–120	A2-s1,d0	+250 °C	Fire walls, public buildings, insurer-driven specs
EPS	0.037	15–20	E / B-s2,d0 (FR grade)	+75 °C	Unheated sheds, site cabins, temporary buildings

THICKNESS, U-VALUE AND WEIGHT TABLE

Thickness	Core	U-value W/m²K	Weight kg/m²	R-value m²K/W
40 mm	PIR	0.52	9.8	1.9
50 mm	PIR	0.42	10.2	2.4
60 mm	PIR	0.35	10.6	2.9
80 mm	PIR	0.27	11.4	3.7
100 mm	PIR	0.21	12.2	4.7
120 mm	PIR	0.18	13.0	5.6
150 mm	PIR	0.14	14.1	7.0
200 mm	PIR (cold room)	0.11	16.0	9.3
50 mm	Rockwool	0.75	15.0	1.3
80 mm	Rockwool	0.48	18.3	2.1
100 mm	Rockwool	0.40	20.5	2.5
150 mm	Rockwool	0.26	26.0	3.8
50 mm	EPS	0.68	9.0	1.5
100 mm	EPS	0.35	9.8	2.9

U-values per EN 14509 Annex A.10 method, skins 0.50/0.50 mm. Project-specific values are stated on the CE declaration of performance.

SPAN AND LOAD TABLE

Thickness	0.75 kN/m²	1.00 kN/m²	1.50 kN/m²	2.00 kN/m²
40 mm	2.9 m	2.5 m	2.0 m	1.7 m
50 mm	3.4 m	3.0 m	2.4 m	2.1 m
80 mm	4.5 m	4.0 m	3.3 m	2.8 m
100 mm	5.1 m	4.5 m	3.7 m	3.2 m
120 mm	5.6 m	5.0 m	4.1 m	3.6 m
150 mm	6.2 m	5.5 m	4.6 m	4.0 m

Indicative; verify against the project load table before ordering purlins.

STANDARDS

EN 14509:2013 (self-supporting double-skin metal-faced insulating panels) · EN 13501-1 (fire classification) · EN 10346 (skin coil DX51D+Z) · EN 10169 (pre-painted skin) · EN 13165 / EN 13162 (PIR / mineral wool core)