



EPS VS PIR VS ROCKWOOL

Choosing the right insulated panel for thermal performance, fire safety, acoustics and budget – at a glance.

01 QUICK COMPARISON

* = relative performance, 5 = best

FEATURE	EPS Polystyrene	PIR Polyisocyanurate	ROCKWOOL Mineral Fibre
Thermal Performance			
Acoustic Performance			
Fire Resistance			
Weight more = lighter			
Structural Strength	Good	Excellent	Good
Relative Cost	\$\$\$	\$\$\$	\$\$\$
DIY Friendly			
Most Popular Use	Sheds & Cool Rooms	Premium Buildings	Offices & Accommodation

02 SAFETY & COMFORT

the two questions customers ask most

FIRE Rating	EPS Combustible	PIR Self-extinguishing	ROCKWOOL Non-combustible	ACOUSTIC Noise control	EPS Basic	PIR Moderate	ROCKWOOL Excellent
-----------------------	---------------------------	----------------------------------	------------------------------------	----------------------------------	---------------------	------------------------	------------------------------

03 THERMAL PERFORMANCE · 50MM VS 75MM

higher R-value = better insulation, lower running cost

50 MM PANEL — R-VALUE	75 MM PANEL — R-VALUE
EPS R1.3–1.5	EPS R2.0–2.2
PIR R2.2–2.5	PIR R3.3–3.7
ROCKWOOL R1.4–1.6	ROCKWOOL R2.1–2.3
→ Our Z-Lock standard. R1.3–1.5, ideal for 0–8°C cool rooms, chillers & sheds.	→ Recommended for cold storage, container houses & year-round comfort.
SCALE 0 ————— R3.8	100mm available on request · EPS R2.7–3.0 · PIR R4.4–5.0 · Rockwool R2.8–3.1

04 WHICH PANEL FOR YOUR PROJECT

EPS \$\$\$ BEST VALUE · LIGHTWEIGHT · DIY - Storage sheds & workshops - Farm & agricultural buildings - Budget-friendly projects Lowest cost and easiest to install – outstanding value for general-purpose sheds.	PIR \$\$\$ BEST THERMAL · ENERGY EFFICIENT - Cool rooms & refrigeration - Freezer & cold storage - Premium energy-rated builds Highest R-value per millimetre – the premium choice where thermal performance is critical.	ROCKWOOL \$\$\$ BEST ACOUSTIC · NON-COMBUSTIBLE - Container houses & site offices - Accommodation & granny flats - Studios & quiet workspaces Superior sound insulation and non-combustible fire safety for comfortable, compliant living spaces.
--	---	---

HOW TO CHOOSE

Compare the panels side by side and pick what suits your project. **EPS** – best value & lightweight for sheds and cool rooms. **PIR** – highest thermal efficiency for refrigeration. **Rockwool** – best acoustic comfort & non-combustible fire safety. Not sure? Talk to us for a tailored recommendation.