

Product specification for HeliPower invisible solar water heating system



Technical product data

Area: Western Cape South Africa
Principles: roofing material covered solar panel
System principle: extruded cassettes with insulation
System material: AlMgCu
Solar system weight: ~8 kg/m²
Max operating pressure: 10 Bar
Cassette efficiency: 0.55
Max output: 550 W/m²
Max water temp: 10°C less than roof materials
Power output/m²: 800-1050 kWh/m²/y
Lifetime: >30 year

All data limits: no wind, 30° roof angle, straight north, extra 100 mm fiber insulation in roof, natural stone slates.

Savings/Rc50/kWh electricity: 400-525R/m²/y



Technical system data

Area: Western Cape South Africa
Principles: invisible cassettes under natural slates
System module size: 25-30 m²
System material: AlMgCu, plastics
System weight incl slates: ~20 kg/m²
Max operating pressure: 6 Bar
System efficiency: 55%
Max daytime hot water output: 13 kW
Max nighttime cooling capacity: 10 kW
Max water temp: 10°C less than roof
Power output in: 20-26 MWh/y
Lifetime: >30 year

All data limits: no wind, 30° roof angle, straight north, extra 100 mm fiber insulation in roof, natural stone slates.

Savings/Rc50/kWh electricity: 10-13,000 R/y

