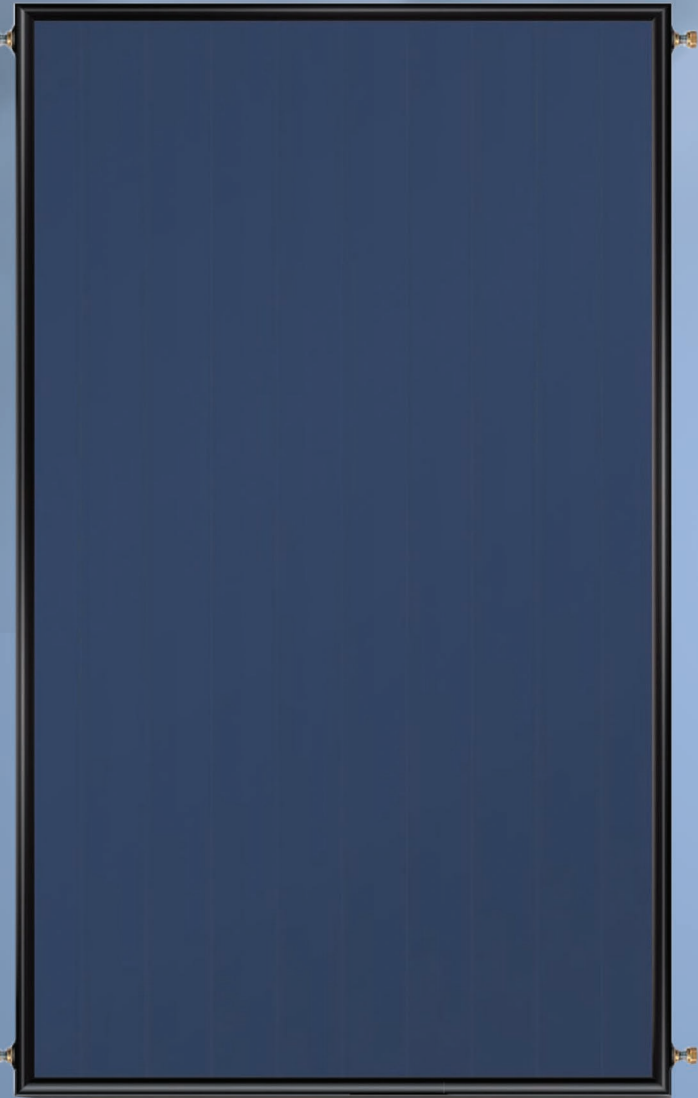


wunder

# WUNDER ALS



- ✓ Solar KEYMARK certified
- ✓ Full Selective Titanium-Coated Alumunim Surface
- ✓ Laser Welding
- ✓ Copper Pipe
- ✓ Low Iron Tempered Glass
- ✓ Rock Wool Insulation

**30 years of experience, exports in 60 countries, innovative products**  
**One of the world's leading companies in its sector**



# Wunder ALS

	Wunder ALS 2512	Wunder ALS 2110	Wunder ALS 1809
Dimensions (mm)	1988x1218x90	1988x1041x90	1927x927x90
Casing	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case
Weight (kg)	44	37.2	34
Sealing	EPDM & Silicone & Aluminum Frame	EPDM & Silicone & Aluminum Frame	EPDM & Silicone & Aluminum Frame
Gross Area (m <sup>2</sup> )	2.42	2.07	1.79
Aperture Area (m <sup>2</sup> )	2.24	1.92	1.62
Absorber Area (m <sup>2</sup> )	2.23	1.89	1.59
Absorber Material	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum
Absorber Thickness (mm)	0.3	0.3	0.3
Absorptance	0.95	0.95	0.95
Emittance	0.04	0.04	0.03
Welding Method	Laser Welding	Laser Welding	Laser Welding
Heat Carrier Volume (lt)	1.27	1.07	1
Diameter of Absorber Tube (mm)	8 / 10	8 / 10	8 / 10
Absorber Tube Wall Thickness (mm)	0.45	0.45	0.45
Diameter of Header Tube (mm)	18 / 22	18 / 22	18 / 22
Header Tube Wall Thickness (mm)	0.7	0.7	0.7
Number of Tube	12	9	9
Tube Pitch (mm)	110	110	110
Glass Material	Low Iron Tempered Glass	Low Iron Tempered Glass	Low Iron Tempered Glass
Transmittance of Glass	0.91	0.91	0.91
Thickness of Glass (mm)	4	4	4
Insulation Material	Rock Wool	Rock Wool	Rock Wool
Thermal Conductivity (W/mK)	0.037	0.037	0.037
Heat Capacity of Wool (kJ/kgK)	0.84	0.84	0.84
Density of Wool (kg/m <sup>3</sup> )	52	52	52
Thickness of Wool (mm)	50	50	50
Stagnation Temperature (°C)	232	232	232
Maximum Operation Pressure (bar)	10	10	10
Test Pressure (bar)	25	25	25
Nominal Flow Rate (lt/h)	120	105	100
Base Sheeting	Embossed - Finished Aluminum Sheet	Embossed - Finished Aluminum Sheet	Embossed - Finished Aluminum Sheet
Mounting	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

