

Technical Data

The Australis Series 2 collector is the most popular collector in our solar range. Its design is tried and proven over many years of use and it is designed for both residential and commercial applications where capital costs are critical.

If your home is situated in a temperate or tropical zone - then the Edwards Australis Series 2 collector is for you. With your wonderful climate, this proven Edwards Australis Series 2 collector will supply you and your family abundant piping hot water. The Australis Series 2 is solidly constructed from high grade copper and aluminium and is housed in a durable long life COLORBOND® steel tray.

ABSORBER PLATE

The absorber plate is constructed of 0.8mm thick pressed aluminium. It is coated with a polyester matt black paint designed to maximise solar performance and prolonged exposure to sunlight without degradation.

CASING

The collector casing is constructed of 0.4mm COLORBOND® steel and extruded aluminium to provide good corrosion resistance properties and light handling capabilities.

INSULATION

Polyester batts are used to insulate the base of the collector to minimise heat loss. It is 38mm thick and has a density of 14kg per cubic meter.

CONNECTIONS

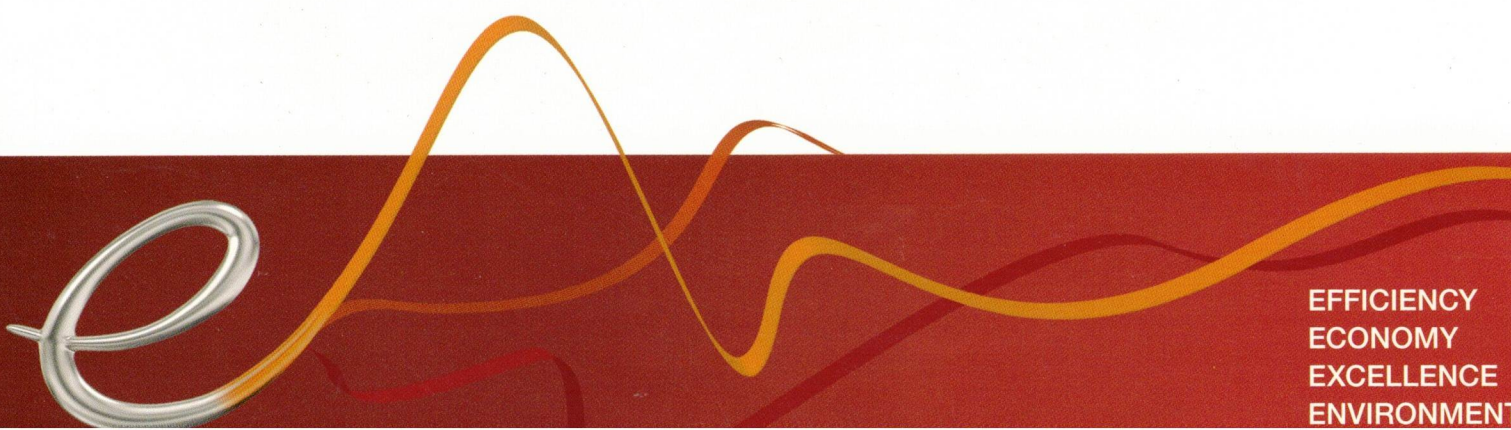
These are M33, brass compression fittings that conform to Australian and International Standards. Each fitting accepts a 25mm copper tube and ensures the prevention of water ingress through the casing.

RISERS

Designed for either water or propylene glycol, the copper tubes conform to Australian Standard AS1432 and other applicable international standards. The 25mm diameter headers and 12.7mm risers are of Type C copper and the 6 risers are spaced at 148mm. The risers are mechanically bonded to the absorber plate.

GLAZING

Tempered, low iron Solite glass is used to maximise the solar radiation available. It is extremely strong 3.2mm thick tempered glass that is hail resistant. It is specifically designed for solar applications and has a minimum energy transmittance of 0.89 and a low iron oxide content of only 0.04% or less.



EFFICIENCY
ECONOMY
EXCELLENCE
ENVIRONMENT

SPECIFICATIONS

Overall Data		
Overall Collector Dimensions	mm	1941 x 1027 x 84
Weight of Collector – full	kg	35
Accreditation		AS2712, AS9001:2000
Aperture Area	m ²	1.98

Risers		
Number of Risers		6
Fluid Capacity	litres	2
Riser Dimensions	mm	12.7 x 0.71 x 1864
Header Dimensions	mm	25.4 x 0.91 x 998
Test Pressure	kPa	300
Maximum Working Pressure	kPa	1400

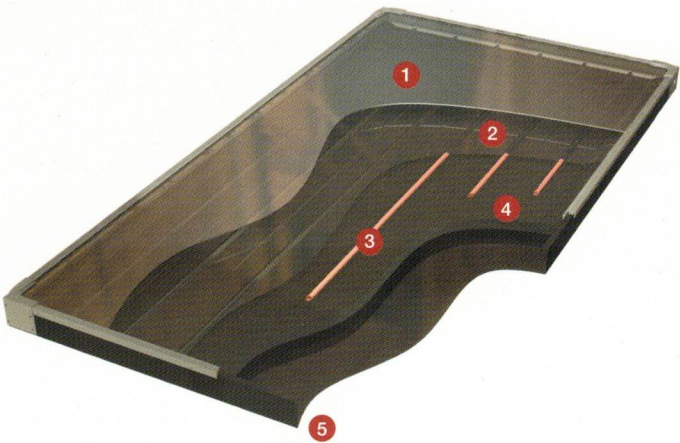
Insulation		
Polyester Insulation Density - Base	kg/m ³	14
Insulation Thickness - Base	mm	38
Polyester Insulation Density -Sides	kg/m ³	32
Insulation Thickness - Sides	mm	28

Absorber Plate		
Effective Absorber Surface Area	m ²	1.86
Absorber Plate Thickness	mm	0.8
Absorber Plate Dimensions	mm	1840 x 980

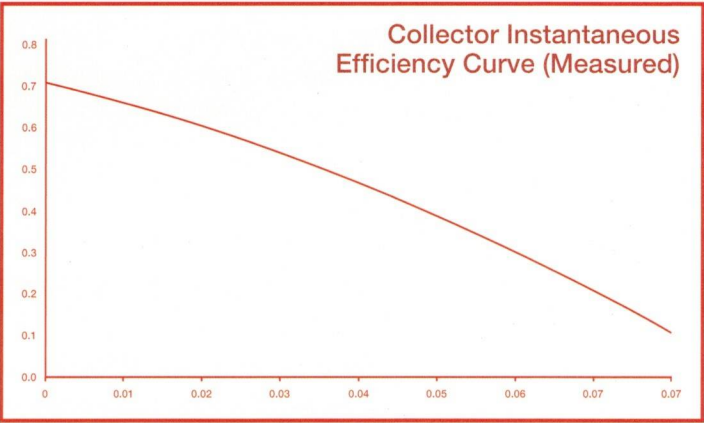
Glazing		
Glazing Type		Tempered Low Iron Solite Glass
Glazing Thickness	mm	3.2
Glazing Transmittance		0.89 min.
Glazing Iron Oxide Content	%	< 0.04

Casing		
Casing Thickness	mm	0.4
Casing Drain Holes	mm	4 x Ø4mm

Connections		
Inlet/Outlet Connections	mm	33 Female Compression
Max. Torque	Nm	34



- 1. Low iron Solite Tempered Glass**
Maximises available solar radiation.
- 2. Aluminium Powder Coated Absorber Plate**
Designed to maximise solar input and prolong life span.
- 3. Polyester Insulation**
Reduces heat losses and improves performance.
- 4. 6 Copper Risers**
Used for its excellent corrosion resistance and heat transfer properties.
- 5. Durable COLORBOND® steel to**
Provides all weather protection to the collector internals.



η_0	0.7103
a_1	4.5185 W/(m ² K)
a_2	0.047304 W/(m ² K ²)

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