

Innovative & Smart

Prisma is an innovative flat plate collector patented by Calpak. It introduces in the solar thermal industry a unique polymeric material, primarily known and used in the automotive industry. This material, applied in the collector's casing, strengthens its composite structure, achieves absolute humidity protection and offers a perfect finishing.

Prisma is the result of a demanding and lengthy R&D process whereby Calpak closely collaborated with high-end technology experts. It is created by Calpak's fully robotized production plant that ensures standardized quality.

Prisma is the smart choice for adding value to your solar thermal installation!



In a nutshell, the Prisma offers:

1. Overall higher manufacturing quality
2. Increased strength and durability
3. Perfect sealing against humidity
4. Supreme energy performance
5. Unparalleled finish (clean-cut look)

Innovative characteristics

Colofast® (BASF®)

Colofast is a special polymeric material, patented by BASF and widely used by prominent car manufactures such as AUDI and BMW for the perfect adherence of sunroofs. Colofast is applied by Calpak's fully automated production line in one final assembly step to precisely and permanently connect the collector casing with the glass facade. In addition, it forms a solid peripheral structure for the upper section of the casing.

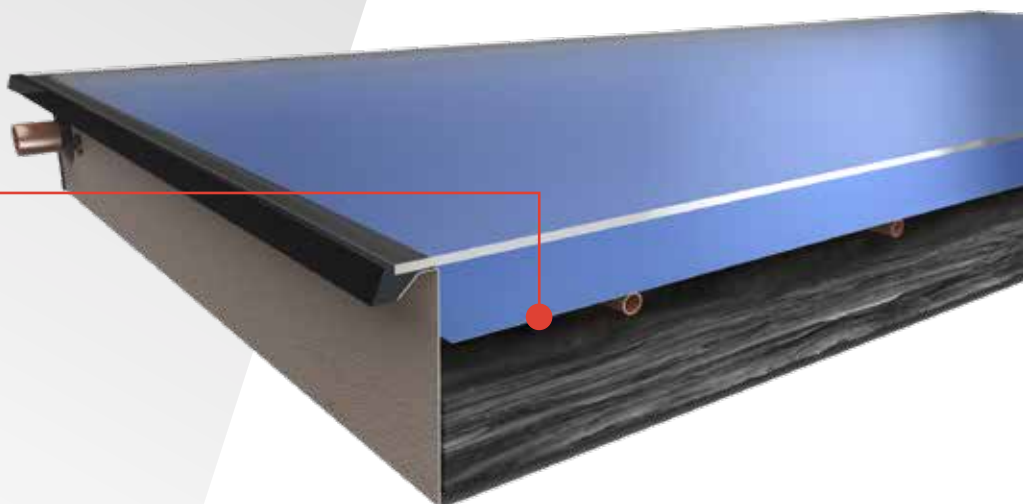
The connection point is consequently very strong, impermeable and gives the Prisma a clean look. The glass is fused with the casing, without any sealing rubber gaskets, making this collector truly unique.

Casing

The casing of the collector is structured with a single piece external trough made of high quality alloy-steel. This monolithic design offers robust construction and protection against corrosion, eliminates thermal bridges and has a clean-cut look.

Full plate high selective absorber

The absorber is composed of a high selective aluminium surface, laser welded to a dense copper-harp, offering supreme energy performance.



Technical Specifications		prisma 2.0	prisma 2.5
Dimensions	Length (mm)	1641	2035
	Width (mm)	1243	1243
	Height (mm)	86	86
	Weight (kg)	31	38
Aperture Area (m ²)		2,04 / 1,91	2,53 / 2,38
Absorber quality		Full Plate - High Selective	
Absorber material		Copper Harp / Aluminium Surface	
Absorber welding		Laser	
Absorption coefficient		a > 95%	
Emmission coefficient		e < 3%	
Casing material		Pre-painted zinc coated alloy-steel (ArcelorMittal) & Colofast (BASF)	
Insulation		40mm Glass-wool of 50 kg/m ³ density	
Glass cover		Tempered 3,2mm, Low-iron prismatic (T >91,5%)	