

# Solar panel

## Collector

Solar thermal collectors PTML 2.1 and 2.6 series PTML harp vertical series and horizontal meander, are flatbed selective and are characterized by high absorbing surface, high efficiency, ease of mounting and fitting and modern design. Suitable for all applications in solar thermal systems are adaptable to different surfaces, both flat roof and sloped, allowing also the installation on the façade.

## Absorber

Metallic absorber consists of copper pipes and aluminum plate absorber with highly selective coating films treated metal-ceramic, laser welded, totally built by T.M.L.

## Insulation

The insulation of the collector is made of rock wool with layers of 50 mm in thickness.

## Flatbed

The solar thermal collectors PTML 2.1 and 2.6 PTML series harp vertical and horizontal meander are provided with protection constituted by a slab of tempered glass Th. 4 mm prismatic low iron content that optimizes the properties of transmission and reduces reflection of sunlight (degree of transmittance 91.5%).

## Containment enclosure

The containment structure to protect the absorber is constituted by a hot anodized aluminum printed property.

Technical informations	External dimensions	Gross area	Capturing surface	Liquid content	Absorpt.	Emiss.	Operating pressure	Max pressure	Test pressure	Max temp.	Stagnation temperature	Weight
<b>PTML 2.1 AV</b>	2125 x 1025 x 95 mm	2,178 Sq.m.	1,857 Sq.m.	1,231 Lt	95 %	5%	6 bar	9 bar	16 bar	250 °C	205 °C	38,5 Kg
<b>PTML 2.6 AV</b>	2125 x 1275 x 95 mm	2,709 Sq.m.	2,328 Sq.m.	1,517 Lt	95 %	5%	6 bar	9 bar	16 bar	250 °C	205 °C	48,5 Kg

Power collector PTML2.1AV				
Efficiency: 0,767				
Heat loss coefficient K1: 4,187 [W/(m²K)]				
Heat loss coefficient K2: 0,012 [W/(m²K²)]				
Radiation orthogonal to the panel				
	Radiation (G)			
Tm - Ta	400 [W/m²]	700 [W/m²]	1000 [W/m²]	
<b>10</b>	490 [W]	917 [W]	1344 [W]	
<b>30</b>	316 [W]	743 [W]	1170 [W]	
<b>50</b>	125 [W]	552 [W]	979 [W]	

Power for collector PTML2.6AV in W				
Efficiency: 0,763				
Heat loss coefficient K1: 3,744 [W/(m²K)]				
Heat loss coefficient K2: 0,015 [W/(m²K²)]				
Radiation orthogonal to the panel				
	Radiation (G)			
Tm - Ta	400 [W/m²]	700 [W/m²]	1000 [W/m²]	
<b>10</b>	632 [W]	1176 [W]	1719 [W]	
<b>30</b>	426 [W]	969 [W]	1513 [W]	
<b>50</b>	191 [W]	735 [W]	1278 [W]	

Tm= Average temperature of the panel [K]

Ta= Air temperature [K]



**Harp vertical panel**

**Code PTML2.1AV**

€ -

**Code PTML2.6AV**

€ -



**Horizontal meander panel**

**Code PTML2.1MO**

€ -

**Code PTML2.6MO**

€ -



## Mount kit

Kit for recessed installation of flat collectors PTML2.1AV (2.1mq) and PTML2.6AV (2.6mq). The flush mounting on pitched roofs uses kits that allow you to integrate into the roof flat collectors and PTML2.1AV PTML2.6AV. The fixing of the collector is performed directly on the covering floor through the use of the support frame (Code SKI not included) around which will be placed around the sealing frame.

**Code INCA21-1**

€ -

**Code INCA26-1**

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**Code INCA21-2**

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**Code INCA26-2**

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**Code INCA21-3**

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**Code INCA26-3**

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**Code INCA21-4**

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**Code INCA26-4**

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