

## Vía Láctea

Pergola

Enric Batlle, Joan Roig, 1990

urbidermis



Structure



Luminaires



Photovoltaic panels



### Materials

Great shade coverage of 18 m<sup>2</sup>, consisting of photovoltaic panel modules made from 4 mm double-glazed tempered glass and highpowered PERC cells encapsulated in polymer, or consisting of eight modules of wooden slats, made from autoclave pine. Supporting structure created with two 100x50 mm side girders, three 150x100 mm rectangular base pillars and a 100x50 mm forked support made from hot-dip galvanized S275 JR steel, painted finish with C3 protection. Body for two luminaires, made from rectangular section of the same material and finish. Linear LED luminaire and polycarbonate diffuser. A2 stainless steel screws.

### Finishes

Structure



Light gray

Cover



Autoclave pine



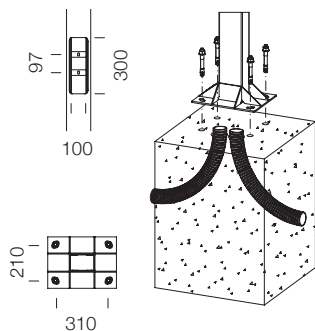
Photovoltaic panels

\*The colors shown are simply indicative. (Other colors on request)

\*\*Ask about finishes for marine environments

### Installation

Pillars fixed in a concrete block on-site, 20 cm below the pavement level, with groove for electrical connection for the version with light, and four expansion wall plugs per column. Entirely mechanical installation, with no welds, using A2 stainless steel screws. The element is supplied disassembled, in six components: column, side column, supporting structure, wooden covering, body for luminaires, and luminaires. Installation and assembly instructions, screws, template, trim, and expansion wall plugs included.



\*Element calculated for type II terrain and 29m/s wind, with soil made up of loose or wet sand of medium compactness (E0= 4800 kN/m<sup>2</sup>) and HM-20 concrete foundation. We offer adaptations for more demanding types of terrain and climatic conditions.

### Maintenance

Does not require functional maintenance, except to preserve the original color of the wooden slats and periodic cleaning of the photovoltaic panels.

### Regulations

Regulation 305/2011/EU for the Marketing of construction products and CTE (Technical Building Code) RD 314/2006  
EN 1090, UNE EN 10025, UNE EN ISO 1461, ISO 12944, UNE EN 15048, UNE EN ISO 9227.

Technical information

Distributions

Symmetric Distribution: TV



Light source

2x 1,5m Lineal LED 21W

3000K 80CRI

CE, RoHS, IP66 (protection of the luminaires against the penetration of solids and liquids)

Electrical Class I

Control

1-10V, DALI

All technical data are subject to industrial tolerances.

Updated information: [urbidermis.com](http://urbidermis.com)

Energy production

4.8 kWp per module (310 Wp x 8 photovoltaic panels)

STC (standard measurement conditions): 1000W/m2 irradiance, AM 1.5 spectral distribution Temperature 25±2°C

CE, IP67 (degree of protection of the luminaires against the penetration of solids and liquids)

DVE (health and safety requirements), MCS (certified facility), BBA (British Board of Agreement)

Electrical class II

Warranty of photovoltaic panels

Up to 30 years according to conditions.

Performance guarantee

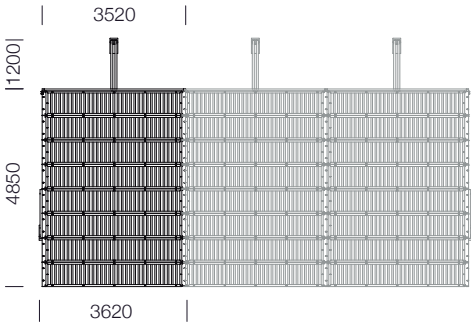
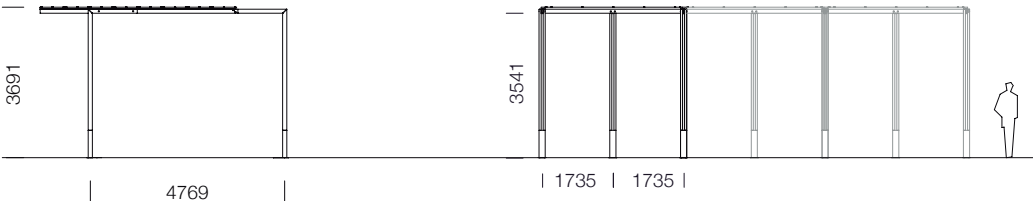
Minimum 87% after 30 years.

Approximate weight without packaging (kg)

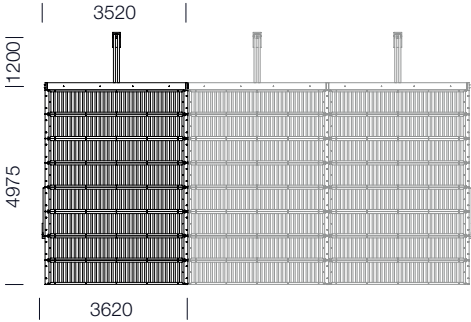
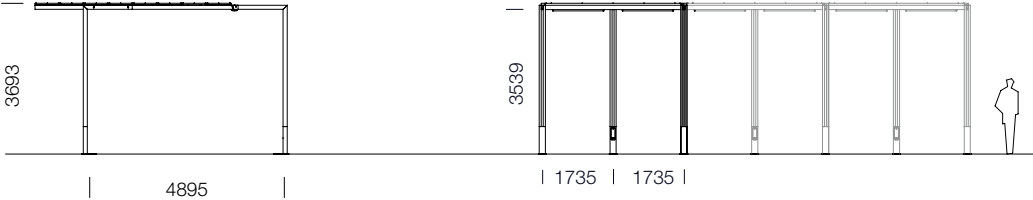
Initial module: 844

Módulo alineación: 725

Pine autoclave cover

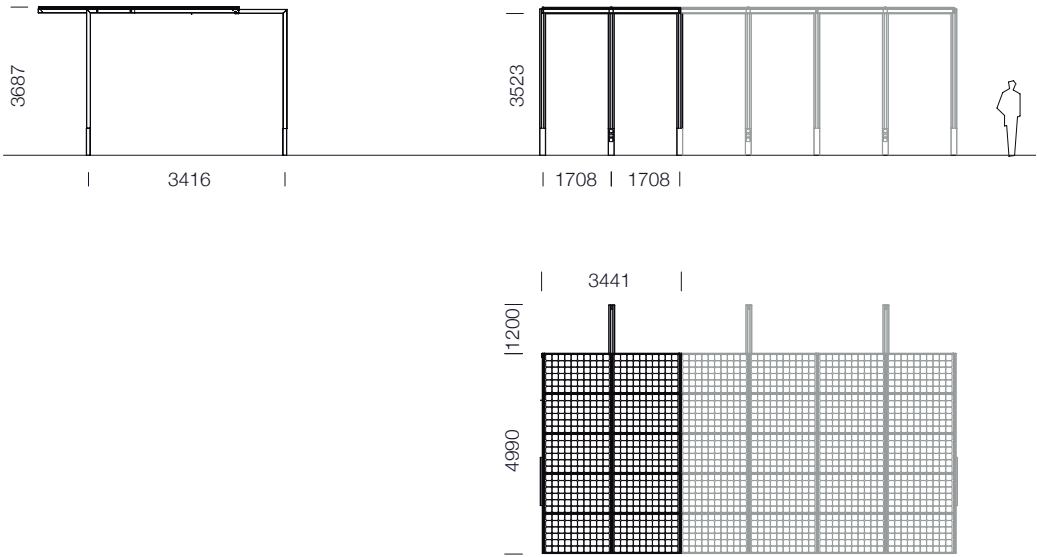


Pine autoclave cover with luminaires



Measurements in mm

Photovoltaic panels  
cover



Measurements in mm

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