

## PV-TEC 2000 Drainage System

**Assembly version for photovoltaic modules of all kinds with sealing level under the module surface.**

### Technical specifications of the drainage layer

#### Material

- HDPE (High Density PE) in a recipe for SOLTECH, double UV stabilized

#### Material thickness

- ca. 1.4 mm

#### Colour

- black



Do not confuse the Soltech drainage layer with protection plastic sheeting on foundation walls. The latter is not suitable to be applied in roofs

#### Width of the roll goods

- 1.0 m and 2.0 m (length up to 20 m)

#### Height of convexities

- 20 mm

#### Drainage capacity

- ca. 10 l/s/m
- ca. 600 l/min/m
- ca. 3.600 l/h/m

#### Compressive strength

- > 220kN/qm (22t/qm)

#### Temperature-resistant

- -40 °C to + 80 °C

#### Physiological properties

- harmless concerning potable water

#### General stress

The Soltech drainage layer is chemical-resistant, resistant to roots, resistant to rotting and resistant to fungal and bacterial attack. Due to its recipe, the drainage layer is relatively insensitive to ultraviolet rays . The long-term stability for the installation of photovoltaic modules is reached by protecting them against direct insolation by means of our assembly version.



## PV-TEC 2000 Module Assembly System

### Important instructions – technical security – specifications

The profile and hardware systems of PV-TEC 2000 comply with all existing standards, regulations and technical approvals in the European Economic Area, especially with DIN ISO 9001 and the EC Construction Product Directive. The profile production is certified according to the international quality standard DIN ISO 9001.

#### Profile material

- ALMgSi 0.5 F22, DIN 1725/1748

#### Composite material

- Polyamide 6,6 (PA) for anodizing or colour coating after the polythermide (PT) composite for anodizing or colour coating prior to the composite

#### Anodic oxidation

- DIN 17611

#### Colour coating

- According to the quality regulations of the "Quality Control Association for material coating of component parts (reg. ass.)"

#### Materials for components

- Stainless steel, aluminium, zinc (fire-proof galvanization according to DIN50496), polyamide.

#### Frame material group

- DIN 4108, table 1, depending on the profile combination 2.1 or 1

#### Load group

- DIN 18055, group c

#### Static load

The system components are coordinated as to safely bear loads according to DIN 1055 T4 and T5, e.g. wind load (consisting of pressure and suction effect), snow load and bearing forces. This refers to roof inclinations between 10° and 60°, the placement of a bar fastening on a 1.5 qm module area – fastening distance up to 150 cm and snow load zone III, ground level up to 600 m. With greater heights, the distance between the fastenings is reduced. (Regarding special static load, e.g. in the 4 corner areas of the roof, shorten the distance, if necessary). The breakaway torques for point fastenings amount to <10 Nm for modules with frames, <8 Nm without frames, ca. 5 Nm in the cover bar installation.

In all Soltech systems, the assembly works must be performed in compliance with the special regulations of the roofing trade, as well as according to the Soltech installation instructions. The specifications require special consideration of the construction dimensions and do not go without inspection through the installer, who has to consider the conditions of the individual case, especially the static conditions (according to DIN) for the installation.