VERNIPRENS
WITH THE RENEWABLE
ENERGIES

VERNISOL

CONCRETE SUPPORT ADJUSTABLE 10°-40°

TECHNOLOGY
MADE WITH INSPIRATION

More than 40 years of experience in the sector of prefabricated concrete products, reconstituted and ornamental stone; a vast product catalogue and a solid commitment to quality, all at the service of your projects. Now, **a product committed to new technologies**, in search of contributing to new energy trends, advanced products in quality and innovation.

Imagine – because it all starts with an idea.

NEW
PATENTED SUPPORT

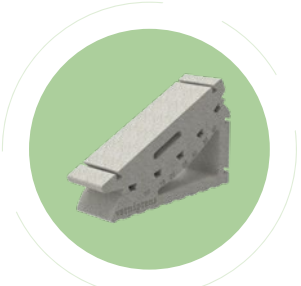
Concrete support developed for the installation of solar panels on roofs and surfaces without mechanical fixings and environments that require optimization of the installation based on safety factors and resistance to weather conditions.

Manufactured with cement and high-resistance aggregates, and with an innovative design, these supports permit **an optimum elevation of each place**, and even the possibility to change it depending on the seasons of the year.

No need for fixing or screws to the ground, since the weight of the set itself is capable of withstanding strong winds keeping the panels perfectly oriented at all times.

This technological development is designed to make solar projects profitable, and to achieve excellent aesthetic and efficient results in the installation and maintenance process. A project of the Verniprens I&D department that is being admired by the most demanding agents in the solar sector. Its **ease in handling, transport and adjustment, together with its strength and reliability**, give this support unquestionable features in profitability and efficiency.

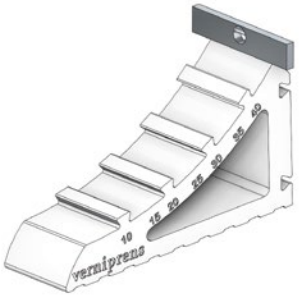
MAIN
ADVANTAGES



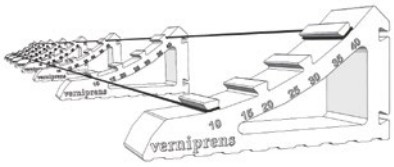
- Easy installation on floor and deck.
- Installation on terraces without perforations.
- Quick installation by one single person.
- Concrete product, anti-theft product.
- Durable material.
- Cheaper than metal supports.
- Several elevation degrees.

CONCRETE SUPPORT ADJUSTABLE 10°-40°

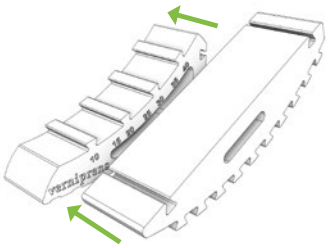
INSTALLATION
IN THREE SIMPLE STEPS



1. Ensure that the **place of the installation is stable, clean, even and free from loose items**. The inferior part of the support should have a total contact with the surface, ground or deck. **The lower units should be arranged**, starting at the ends of the rows, **and ensuring that they are aligned and level**.



2. Once the two units of the ends of the same row have been leveled, **a simple string (or thin rope) will help to make a perfect alignment** of the rest of the supports to be installed
NOTE: The distance between the supports must be calculated based on the panel model to be installed.

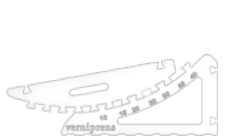


3. Once all the lower units are placed and aligned, it is very easy to place the upper unit. A simple **lateral displacement in the corresponding guides of the desired elevation** will put the two pieces together.

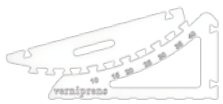
   NOTE: All units should have the same elevation angle, see *Elevation Chart*.
   IMPORTANT: For the union of the upper part, insert it by the part marked with the degrees as indicated by the arrows in this image.

ELEVATION
CHART

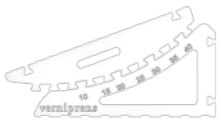
The composition of two pieces allows to adjust the angle of elevation depending on the latitude where the installation is made. **Depending on the design of the project and the latitude of the place, the corresponding elevations must be formed.**



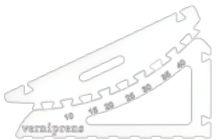
10°



15°

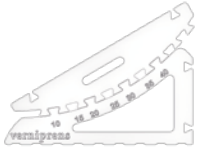


20°

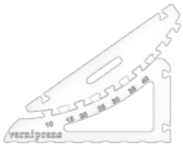


25°

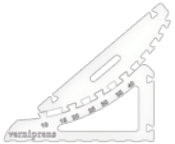
A simple lateral anchoring of the upper part enables getting the desired angle of 10° to 40° in fractions of 5°.



30°

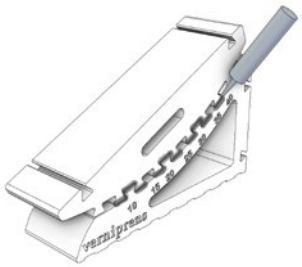


35°



40°

INSTALLATION OF PANELS



In order to obtain a greater compaction of the two units, **small amounts of polyurethane putty should be placed on the guides**, so as to avoid possible vibrations caused by strong winds.

Two models of special anchors guarantee the anchoring of the panels to the concrete support. **Extreme anchorage** (4 units per row), for the beginning and the end, and a **central model** for the supports that join two panels (2 units per panel).

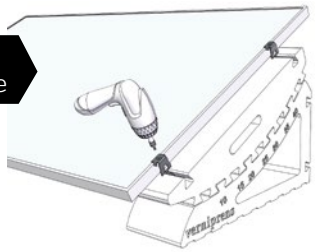
EXTREME anchorage

CENTRAL anchorage

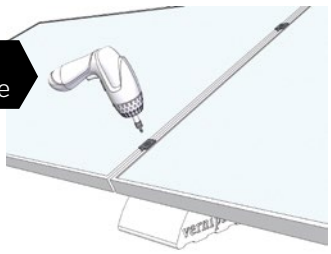
IMPORTANT: The extreme anchor is designed for 3 cm panels, removing the bottom with a simple lateral movement and the help of pliers.
In the case of installing panels of greater height of the frame, the lower part can be maintained.

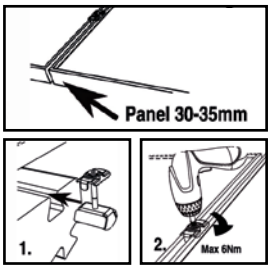
For a correct installation of the panels on the cement supports, it is necessary to **respect the "Tightening Torque":** 6Nm maximum.

Installation of extreme anchorage



Installation of central anchorage



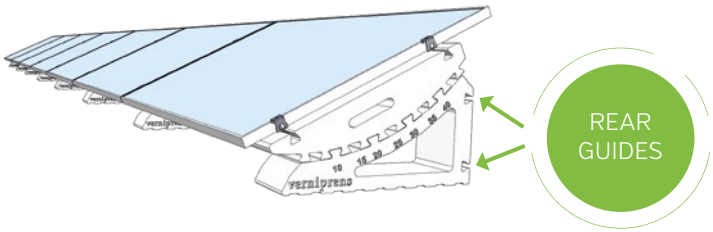


IMPORTANT

The **correct installation**, calculation and dimensioning of the structure and installation of the panels will be under the **responsibility of the engineering of the project**.

In the case of wanting **to increase the adhesion on a roof surface** exposed to high winds, **the application of polyurethane (or cement) putties on the base is recommended**, so that the assembly reinforces its wind resistance. The calculations and this type of technical decisions will always be the responsibility of the designer and installer.

This support has **two rear guides that can be used for anchoring auxiliary elements** such as connection gutters, cable passes or application of safety tensioners. In the case of using these guides, anchors must be added.

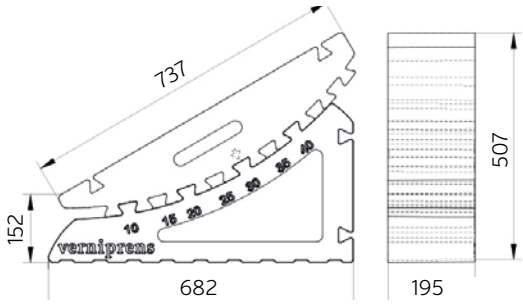


VERNISOL

CONCRETE SUPPORT ADJUSTABLE 10°-40°

SPECIFICATIONS

VERNISOL	Ref. 900878
Composition	Concrete
Water absorption	< 10%
Concrete density	2300 kg/m³
Possible inclinations	10°, 15°, 20°, 25°, 30°, 35° y 40°
Colour	Grey
Units per pallet	20 or 10
Dimensions of pallet (L x W x H)	100 x 120 x 108 cm
Dimensions of unit (L x W x H)	682 x 507 x 195 mm
Volume of unit	0,032 m³
Weight of unit	67 Kg



PATENTED PRODUCT AND UTILITY SYSTEM

From 10 to 40 degrees of elevation, without mechanical elements or tools.