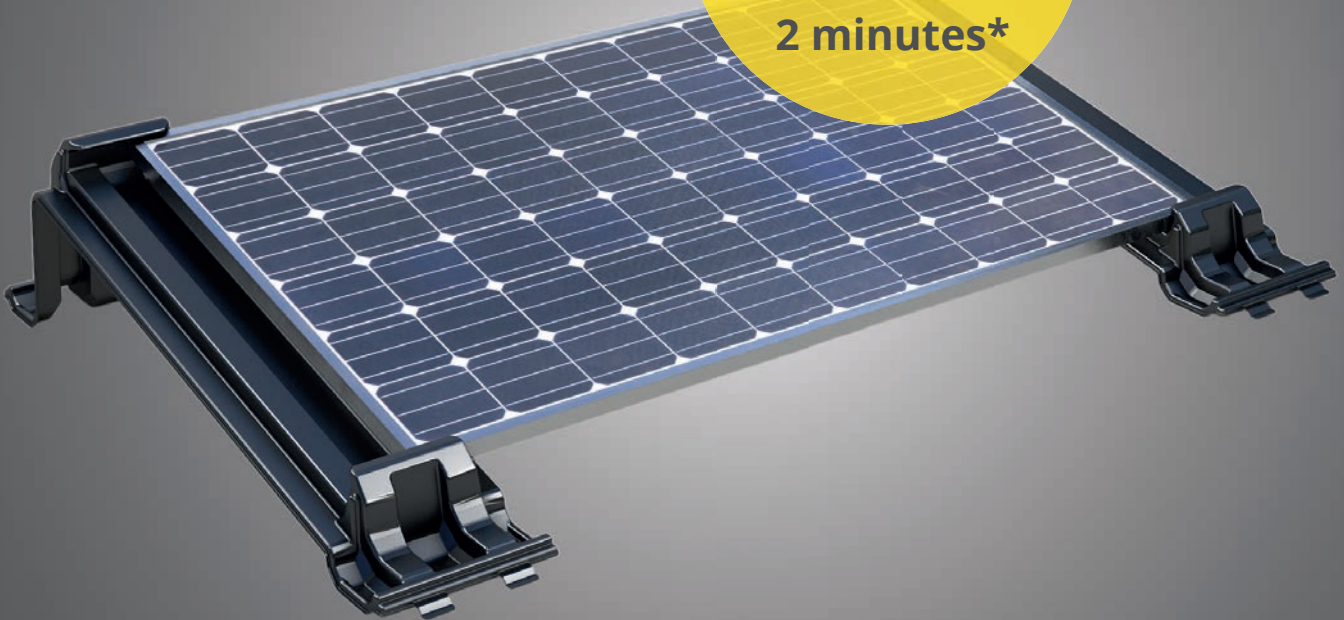


SOLARDIREKT

the easy way



install 1 kWp
securely in
less than
2 minutes*



VARIOTWIN[®] 4.0



DATA SHEET

The fastest flat-roof mounting system worldwide.

With its two integrated module clamps, the system is fast and easy to install - without any professional help.

*calculated on the basis of 250 WP solar panels



- » **easy** to install
- » **easy** 2-Click-System
- » **easy** to plan
- » **easy** to combine
- » **easy** on the environment
- » **easy** to transport
- » **easy** to store
- » **easy** on your wallet



Dimensions / Weight

**install 1 kWp
securely in
less than
2 minutes***

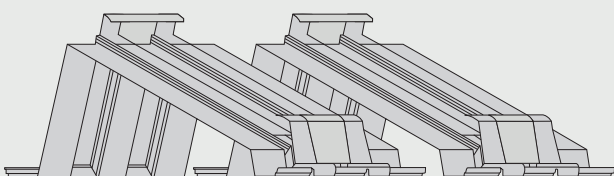


Length: 1419 mm
Height: 360 mm
Width: 300 mm
Weight: 1.6 kg
Angle: 12 °

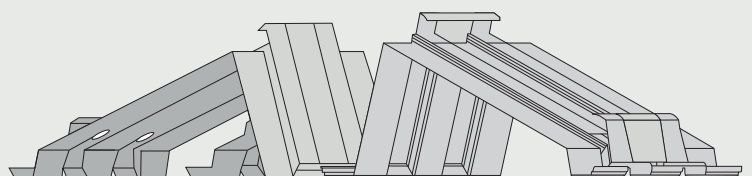
- » HDPE
- » UV-resistant
- » Black
- » For almost every solar module

*calculated on the basis of 250 WP solar panles

SOUTH ELEVATION



EAST-WEST ELEVATION

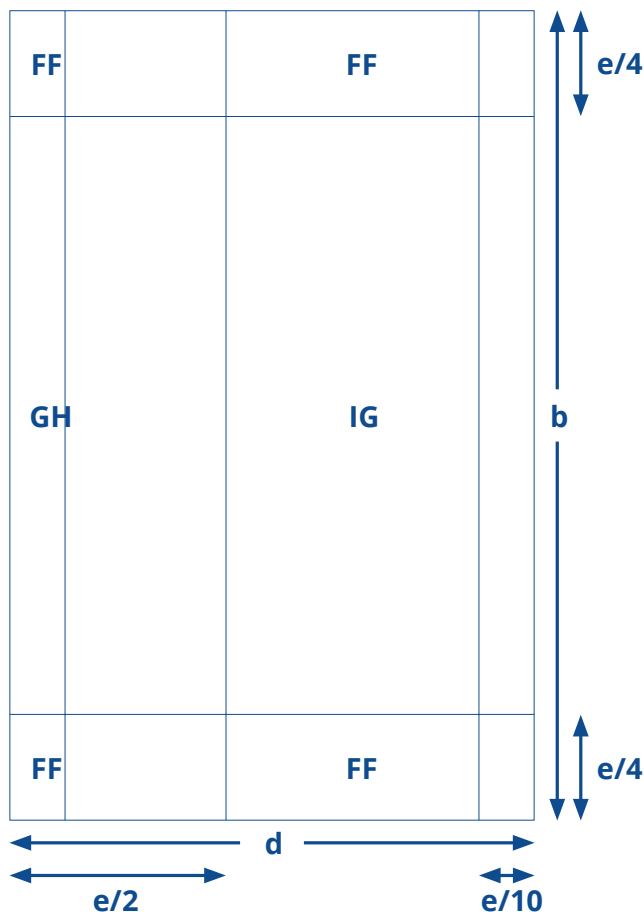


Determining ballast values for the VARIOTWIN 4.0

According to DIN 1055 norms, the VarioTwin Large is classified for wind loads of up to 300 m. Wind loads are measured in the form of wind pressure and wind power. The applied forces and pressures in question include wind speed, wind zone, speed of pressure, terrain, and building height. Our VarioTwin Large flatroof mounting system is appropriate for flat roofs and shed roof constructions with a roof angle of up to 5°. To define the stability checks for the module mounting system VarioTwin 4.0, a structural engineering office calculated the aerodynamic influences and the necessary statics according to the regulations DIN 1055-4 and 1055-5. The structural calculations provide the data necessary for estimating the required ballast levels for the mounting system VarioTwin 4.0. The following materials are appropriate for ballast: gravel, pavement slabs or concrete blocks.

The ballast values in the tables provided refer to the location Germany. For individual situations, SOLARDIREKT ENERGY GmbH & Co. KG recommends to conduct independent testing of building statics. We accept no liability for individual matters concerning building statics. The values given herein refer exclusively to the materials and accessories of SOLARDIREKT ENERGY GmbH & Co. KG in this context. SDT VarioTwin 4.0 was conceived exclusively for the use as a mounting system for photovoltaic cell modules. For every use other than the one described, SOLARDIREKT ENERGY GmbH & Co. KG accepts no liability. Nearly every conventional solar module can be mounted using the VarioTwin 4.0. The mounting of the photovoltaic modules on the VarioTwin 4.0 flat roof system is approved only for horizontal mounting and should be done by professionals.

EDGE ZONING DISTRIBUTION OF THE VARIOTWIN 4.0



The data required to calculate ballast requirements for roof zones H and I as well as F and G can be found in the table below.

e = building height

Example: building height 10 m

e = 10 m

$e/4 = 10 : 4 = 2,5$ m

$e/10 = 10 : 10 = 1$ m

SOLARDIREKT
the easy way



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