

SOLARBLOC[®]  PRETENSADOSDURÁN

MOUNTING SYSTEM SOLARBLOC[®] HS/DT 10⁰

**PIONEERS IN THE INNOVATION AND
DEVELOPMENT OF CONCRETE
STRUCTURES FOR SOLAR
PANELS.**



SOLARBLOC® HS/DT 10°



SOLARBLOC® HS/DT 10° the double-angle mounting system for high-power self-consumption solar panels and solar farms.

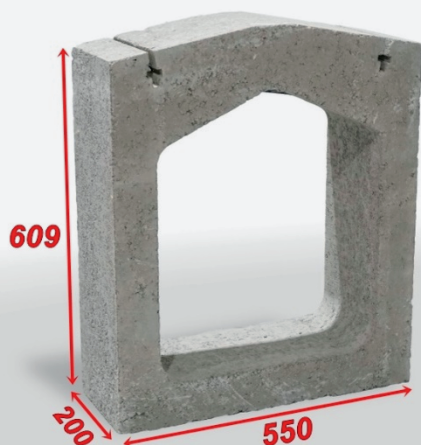
Comprising two structures that support the panels with a 10° double tilt angle, this system is designed to maximise the installation's power and save costs for solar farms.

This SOLARBLOC® HS/DT 10° system is made up of two structures called **HS/DT TOP BLOCKS** and **HS/DT BASE BLOCKS**, which once positioned with the necessary spacing, create a double plane at an angle of 10° at the point where the panels are fixed.

Due to the dimensions of each component and the minimum distance from the panel to the ground, these structures are manageable and practical for high-power installations that aim to simplify implementation and the material resources required.

Dimensiones:

Measurements in mm



SOLARBLOC® HS/DT
TOP BLOCK 10°



SOLARBLOC® HS/DT
BASE BLOCK 10°

- **Angle:**

10° double tilt angle

- **Weight depending on model:**

HS/DT TOP BLOCKS = 78kg

HS/DT BASES BLOCKS = 66kg

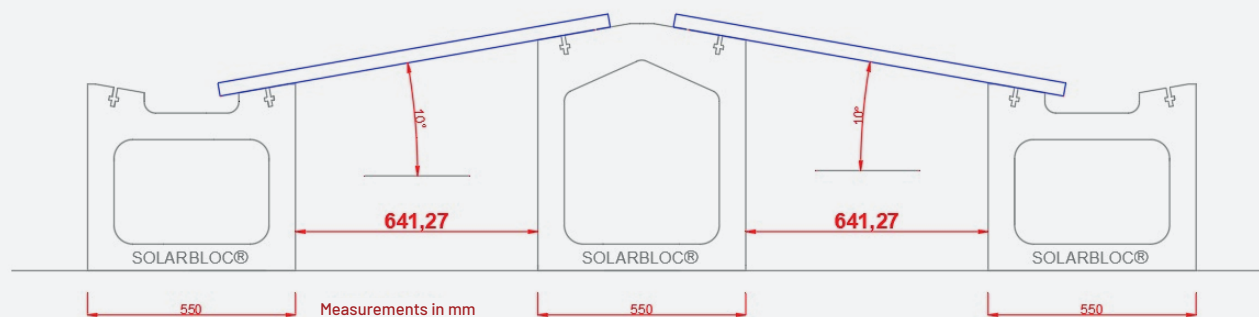
- **Units/pallets:**

HS/DT TOP BLOCKS = 16Units/pallet

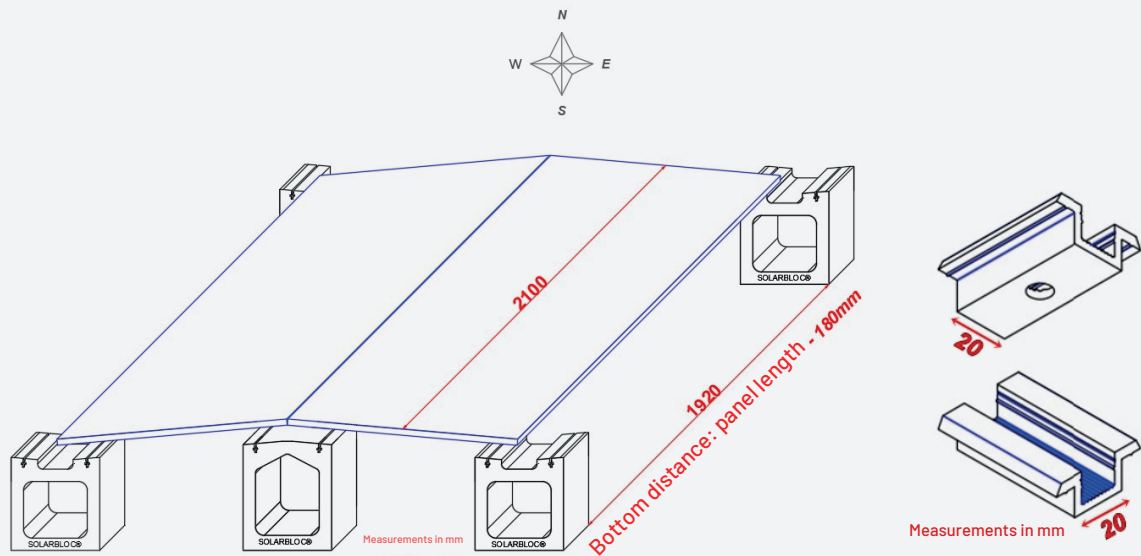
HS/DT BASE BLOCKS = 16Units/pallet

Positioning:

In order for the plane between the HS/DT TOP BLOCK and HS/DT BASE BLOCK structures to be inclined at 10° with an E-W orientation, the inner spacing between the structures must be 641 mm, with the panel resting on the short end.



*MAXIMUM PANEL WIDTH TO USE ANTI-FLEXING SYSTEM: 1134 mm.
Minimum spacing between panels: 70 mm.



**The inner spacing between the facing HS/DT TOP BLOCK and HS/DT BASE BLOCK structures regarding the N-S orientation will be determined by the panel length minus 180 mm.*

This value (180 mm) is determined by the width of the structures (200 mm) minus the spacing between the panels due to the clamping method used (20 mm clamp) in the middle of the structures.

INSTALLATION METHOD

SOLARBLOC®

HS/DT 10°

1. SETTING OUT THE WORK AREA

Mark the area where the **HS/DT 10° TOP BLOCKS** y **HS/DT 10° BASE BLOCK** structures will be positioned for the solar panel installation.

2. MANOEUVRING THE SUPPORT

The structures weigh between 66 kg and 78 kg, therefore we recommend moving them using a hand truck or similar.

The use of mechanical means is recommended for high-power ground installations.



3. POSITIONING SOLARBLOC® STRUCTURES IN THE ESTABLISHED AREAS

- Position the first and last structures in the row, using a staking-out line or digital means to align them.

- Complete the row with the HS/DT TOP BLOCK and HS/DT BASE BLOCK structures, alternating between them and maintaining the required inner spacing.



4. INSTALLING METAL ANCHORS IN SOLARBLOC® HS/DT 10° STRUCTURES

After positioning all the structures, the metal anchors are installed as follows:

- Assemble the various anchors comprising:

FOR END-CLAMP ON SOLARBLOC FOR ROOFING		FOR ALUMINIUM OMEGA MID-CLAMPS ON SOLARBLOC	
THICKNESS OF PANEL From 30 to 50mm	TYPE OF BOLT 8x60mm	THICKNESS OF PANEL From 30 to 40mm From 40 to 50mm	TYPE OF BOLT 8x70mm 8x80mm
<p>FINAL CLAMPING</p>		<p>ALUMINIUM OMEGA</p>	

Insert the assembled anchor in the concrete channel at the side of the HS/DT10° TOP BLOCK and HS/DT10° BASE BLOCK structures. The anchors will be installed in the middle of the structures.

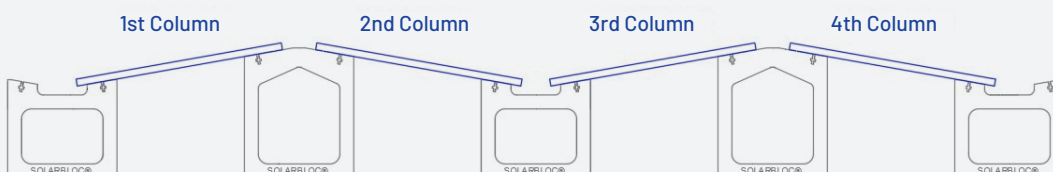


5. INSTALLING SOLAR PANELS ON SOLARBLOC® HS/DT 10°

Once the anchors have been fixed to the structures, the panel frame is attached.

Next steps:

- The installation is carried out in columns of panels, starting with one of the outer panels on the 1st column, which are fixed at the ends using end-clamps.



The adjacent panel in the same column is then rested on the inclined plane made by the HS/DT10° TOP BLOCK and HS/DT10° BASE BLOCK structures. The metal anchors are tightened, in this case omega clamps, using a maximum tightening torque for the panel of 20 Nm.

- Once the panels in the 1st column have been installed, the steps are repeated for the 2nd column, and so on.

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