

ConSole, ConSole+

Flat-roof mounting system for PV-modules and -laminates



Customized system alternatives for fast, simple and cost-effective mounting on flat-roofs and ground areas

ConSole mounting systems

ConSole mounting systems are the ideal solution for installing solar modules quickly and cost-effectively on flat-roofs. The ConSole system also withstands high wind loads thanks to the simple and customized weighing down approach using ballast such as gravel, footway flagstones or similar materials. The respective ballast weight depends on the height of the building, the location, the local wind conditions and snow loads and the state of the foundations.

- For flat roofs with a roof pitch of up to 5°.
- Also suitable for ground mounted systems, waste sites, rocky foundations, conversion sites, etc.
- Suitable for most commercially available solar modules due to the range of product sizes.
- Requires no roof penetration or damage to the roof covering.
- Free positioning on the roof.
- Optimal load distribution without concentrated loads.
- Made from 100% recycled chlorine-free polyethylene (HDPE), robust, durable and weather-proof.
- Complies with fire protection requirements DIN 4102, class B2.
- Low product weight, according to type 5.0–7.2 kg.
- All round mounting edge for simple and fast modular installation.
- Large air slots for optimal air circulation for cooling the modules.
- Boreholes included for drainage.
- Stackable for efficient storage and transport.
- Maintenance-free system.
- 10-year product warranty.

ConSole, features

- Suitable for framed PV-modules.
- Available in 4 sizes for various module dimensions.
- Angle set at 25°.
- TÜV certified.
- One of the premier flat-roof systems on the market.

ConSole+, features

- Very low ballasting.
- Optional Streamliner+ (wind deflector) for ballast reduction on the roof edge.
- Yield-optimized system with an angle of 15° for minimum distance between rows.

ConSole DS, features

- Suitable for frameless PV-laminates with a module size of 1,100 x 1,300 mm.
- Angle set at 20°.
- TÜV certified.



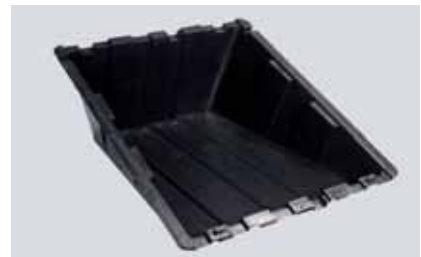
ConSole, page 4



ConSole+, page 6



ConSole DS, page 8





ConSole 4.1, 4.2, 5.2, 6.2, 4 Size variants for installing PV-modules

Determining the ballast

The respective ballast weight depends on the local conditions such as building height and wind load zone conditions. Pebbles, stones, footway flagstones or similar materials are all suitable for properly ballasting a ConSole system.



Fixing U-profiles

Each PV-module requires 2 U-profiles in order to fasten the module onto the ConSole. The U-profiles are installed on the underside of the module using the boreholes in the module frame.



Preparing the ConSole

The PV-module is placed using the U-profiles on the ConSole assembly edge and centered in the width. The clips on both sides of the U-profile have boreholes that also serve as drilling templates.



Installing the PV-module

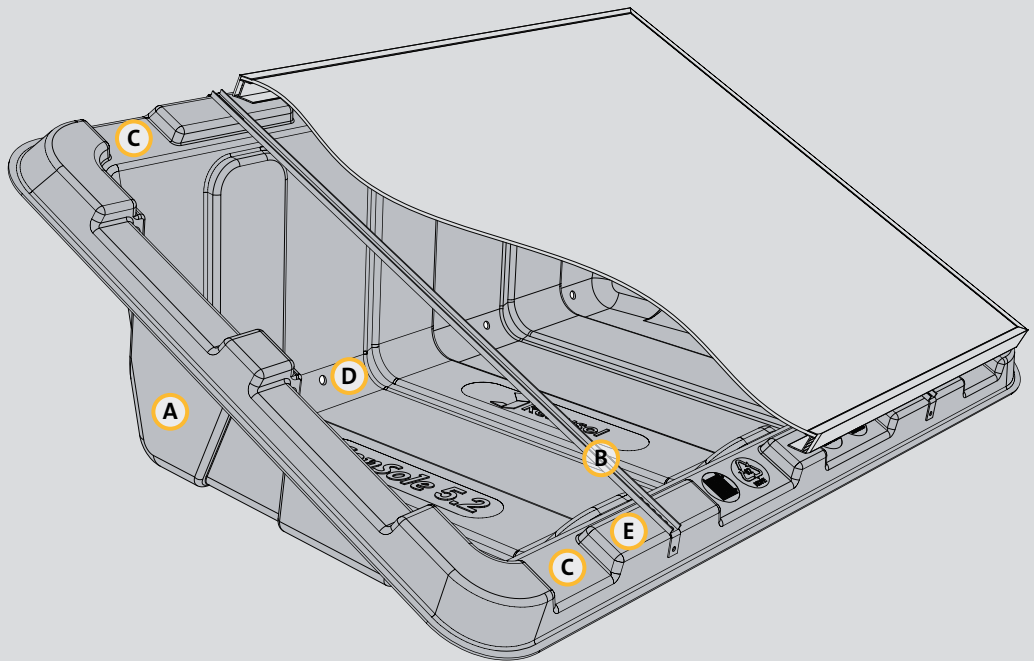
The upper clip on each U-profile are first fastened on the upper ConSole mounting edge in order to prevent the module from slipping. Both clips are then drilled and fastened to the lower assembly edge.



Select the visual appearance

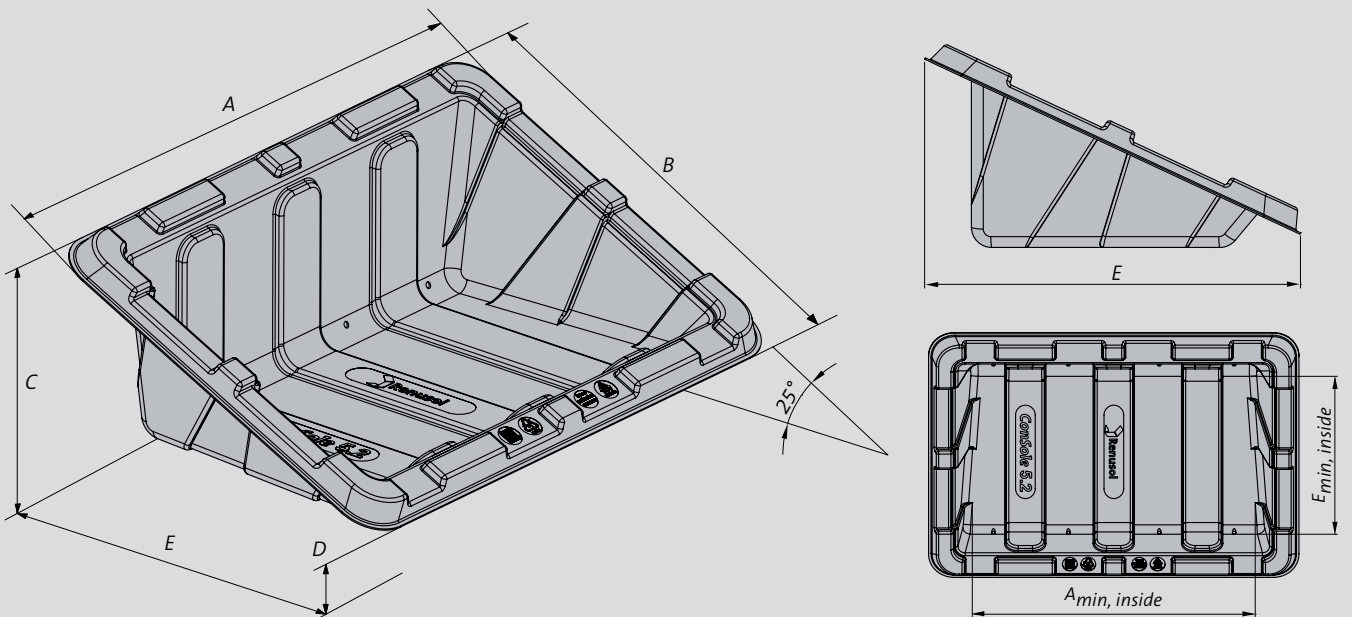
Black module frames achieve a high level of visual uniformity.





ConSole system overview:

- A ConSole
- B U-profile of aluminium
- C Air slots, top and bottom
- D Borehole for drainage
- E All round mounting edge



Recommended measurement of ConSole/PV-module

Measurement	A mm	B mm	C mm	D mm	E mm	A _{min, inside} x E _{min, inside} mm
ConSole 4.1	1,680	840	400	50	740	1,300 x 400
ConSole 4.2	1,240	1,090	530	50	960	890 x 490
ConSole 5.2	1,520	1,080	500	40	960	1,140 x 630
ConSole 6.2	1,740	1,070	500	50	970	1,380 x 630

ConSole+, newly developed mounting system for flat-roofs with low load bearing capacities

All the benefits of the ConSole product series + more benefits

The ConSole+ is a targeted further development of the ConSole product series.

- Yield-optimized system with an angle of 15° for minimum distance between rows.
- Optional Streamliner+ (wind deflector) for ballast reduction on the roof edge.
- Suitable up to wind load zone 4 and snow load zone 3.
- Fast and easy installation.
- For module sizes from 1,650–1,710 mm x 950–1,070 mm (width x height).
- Also suitable for ground mounted systems, waste sites, rocky foundations, conversion sites, etc.
- Wind loads tested and calculated according to Eurocode 1 „Effects on structures“ EN 1991-1-4:2005 (and national Annex).
- TÜV certification in preparation.
- Powerful and cost-effective system.

