



MegaSlate® Solar roof system

Futuristic building-integrated roof coverings with photovoltaics

An overview of the MegaSlate® solar roof system

Technical specifications:

Nominal output: From 136 to approx. 150 Wp
Cell type: Silicon, either monocrystalline or polycrystalline
Construction: Tempered 6 mm solar glass,
Rear surface (anthracite/white/
transparent)
Size of standard solar laminate: 131.6 cm wide by 97.5 cm high
Overlap: 15 cm from above over the solar laminate below
Visible surface: 131.6 cm wide by 82.5 cm high
Weight: approx. 22 kg
Electrical connection: Touch-safe DC connector

Certificates: MegaSlate® Solardachsystem
(TÜV ID: 4411005400)
IEC 61215 (TÜV ID: 0000008015)



- Regelmäßig überwacht
- Qualified, TÜV-Spec TZE/2.572.10

Protection class: II
Guarantee: 10 years 90% nominal performance
20 years 80% nominal performance
Roof support: approx. 12 cm x 3 cm horizontal roof battens at 82.5 cm separation.

Further system components:

- Drain channels/FRP-profile (fibre reinforced plastics)
- Rubber supports (integrated in drain channels)
- Coated roof hooks



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The MegaSlate® solar roof: build for the future!

Keep the elements out and generate electricity at the same time using the MegaSlate® solar roof, the latest concept for both new and existing buildings.



Meet the highest standards of durability and reliability

The MegaSlate® solar roof can be used as a complete or partially-integrated roof covering unit, replacing traditional roofing tiles. The MegaSlate® system provides optimal protection against the elements; it is certified by TÜV and tested for resistance to wind, snow and hail.

The frameless solar modules (known as solar laminates) can be installed easily and quickly and are strong enough to walk on. A MegaSlate® solar roof can be combined with other roofing materials as well as thermal solar collectors. Both new build and renovation projects will find added value in the use of the MegaSlate® solar roof.

New perspectives on architecture and design

Alongside the high functionality due to the MegaSlate® solar roof's guaranteed impermeability, MegaSlate® offers architects, planners and home owners the opportunity to integrate an aesthetically appealing photovoltaic system into their buildings.

Easy to handle

The frameless MegaSlate® solar laminates are shingled like traditional roof tiles. The MegaSlate® solar roof system is delivered with a substructure composed of drain channels (FRP profiles) and coated roof hooks. Installation is carried out by a roofer or specialist tradesman.

The solar laminates are placed on the prepared substructure and electrical connections are made using touch-safe DC-connectors. The elements overlap vertically with the drain channels also serving as the support of the MegaSlate® solar

laminates. The MegaSlate® roof is fitted to the tiles or to the edges using roof sheeting. If necessary, the solar laminates can be removed individually.

The new standard

The MegaSlate® solar roof is designed for roofs with an incline of at least 20°.

The MegaSlate® solar laminates come in a standard size. The use of tailor-made solar laminates enables precise fitting to the available roof surface or recesses, such as skylights or dormer windows.

Outstanding performance in energy production

Maximum energy production is achieved by the use of optimal roof support construction with good back ventilation. Energy production can be increased by collecting the hot air generated at the backside of the solar laminates.

Dust and dirt get washed away, while biological growths cannot take hold on the frameless solar laminates, further increasing energy production.

The MegaSlate® solar roof is a true weatherproof roof which generates electricity for you.



Based on the visible height of the MegaSlate® solar laminates, the battens are laid with proper spacing.



The individual MegaSlate® solar laminates are pushed beneath the upper element and fixed into the roof hooks.



The frameless MegaSlate® solar laminates are shingled like traditional roof tiles.



At the gutter, the ridge and the edges, standard solutions can be applied with minimal adaptation.