

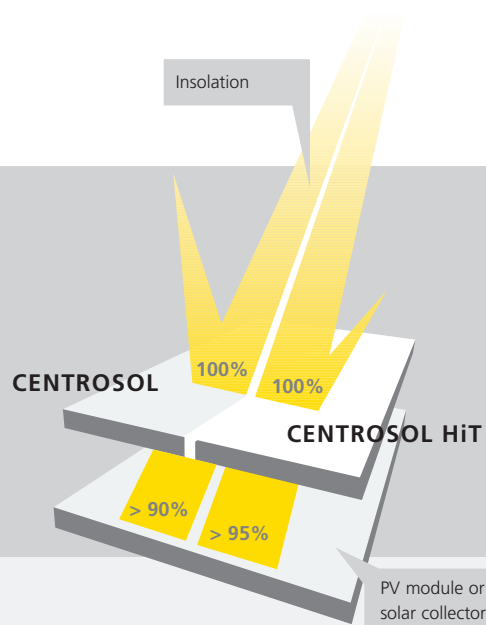


SOLAR GLASS

PROTECTING AND BOOSTING THE OUTPUT OF SOLAR ENERGY SYSTEMS

The solar glass used for covering solar cells is an important component of solar modules. The specially coated glass reduces reflection of the sun's rays and improves solar transmission, and consequently the energy yield of photovoltaic and solar thermal systems, by up to 6 %. But solar grades of glass also have to withstand the high mechanical and thermal loads to which the solar energy system is exposed.

- Increases the output of photovoltaic systems by 2-3 % and of solar thermal systems by 5-6 %
- Optimum flatness
- High mechanical strength
- High thermal stability



Reflection and solar transmission

Reflection: a light ray or another type of wave (e.g. sound) is sent back by the surface of a medium.

Transmission: a light ray or another type of wave is allowed to pass through a medium.

Absorption: a light ray or another type of wave is absorbed by a medium, in other words neither reflected nor transmitted.

SOLAR GLASS



The following solar glasses are available:

- **CENTROSOL**
(Low-iron glass)
- **CENTROSOL HiT**
(Anti-reflective glass)
- **CENTROFOL**
(Glass-foil-combination)

	Clear glass CENTROSOL CST, C, C+, HiT	Structured glass CENTROSOL SM, MM, HiT
Applications	Cover glass for photovoltaics, solar thermal and special applications	
Energy transmission	89 - 91.5 % depending on structure 95 - 97 % with Nano Power anti-reflective coating (CENTROSOL HiT)	
Basis glass	Low-iron float glass	Low-iron structured glass
Glass surfaces	Smooth on both sides and clear	One-sided and two-sided structures and various structural designs
Available glass thicknesses*	2.6 mm, 3.0 mm, 4.0 mm, 5.0 mm und 6.0 mm	3.2 mm, 4.0 mm and 6.0 mm
Min. dimensions	600 x 400 mm	
Max. dimensions*	3.0 mm thick = 2100 x 1200 mm 4.0 mm thick = 2500 x 1500 mm	3.2 mm thick = 2100 x 1200 mm 4.0 mm thick = 2500 x 1500 mm
Glass tempering	Thermal partial and full tempering (TGV and ESG)	

* Other dimensions available on request



A Product of

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