



Solar system combined with the fall protection system Fallnet® Rail.

Project Data

Area: ca. 2.500 m²

Construction Year: 2008

Architect/Design:
Glück Landschaftsarchitektur, Stuttgart

Contractor:
Garten Moser, Reutlingen

System build-up:
"Sedum Carpet" with Floraset® FS 50
and Solar Base SB 200

Coordinates:
48°10'25.64"N 11°31'56.59"E

Conception

The Munich Technology Centre (MTZ) supports founders and young entrepreneurs from all technology sectors during the founding phase by providing suitable spaces and intensive coaching. The MTZ also offers the companies the possibility to keep the established location during the growth phase.

On the 2.500 m² roof it was decided to use a photovoltaic system combined with

an extensive green roof.

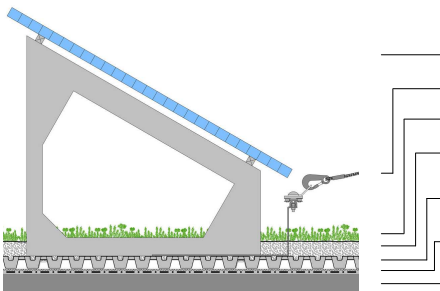
The individual frames for the solar system were each mounted on a 1 x 2 meter Solar Base Plate SB 200 and covered with substrate.

Because the solar panels were set up almost to the edge of the roof the additional fixing device Fallnet® SB 200 Rail was installed which allows for safe working in the perimeter areas.



External view of the Munich Technology Centre (MTZ).

System Build-up



- Solar Base Frame and Solar Panel
- Fixing Device Fallnet® SB 200 Rail
- Plant layer "Sedum Carpet"
- System Substrate "Sedum Carpet"
- Solar Base SB 200 resp. Floraset® FS 50 with Filter Sheet SF
- Protection Mat SSM 45
- Roof construction with root resistant waterproofing

Development



Each Solar Base Frame has been mounted on a 2 m² Solar Base Plate SB 200.



In addition, a rail system was attached to the SB 200 boards to protect against falls.



Because a green roof has a significantly lower surface temperature than a blank or graveled roof, the photovoltaic module remains cooler over a green roof and thus a high power outcome is maintained.



The solar panels were mounted almost to the roof edge in order to maximise the available roof area.

