



DGNB Gold Certificate
for the building's sustainable, economical and functional qualities as well as technical design.

BUILDER: WTZ Heilbronn GmbH, Heilbronn
ARCHITECT: Vogt.Heller Architekten, Neckarsulm

GROSS AREA: 10.200 sqm
CONSTRUCTION PERIOD: 2012-2014

SOLAR SHADING:
MicroShade MS-A Vertical
1,000 sqm façade.
g-value: 0.09 - 0.10

ADVANTAGES:

- Ensures good indoor climate and thermal comfort
- Saves energy and operating costs
- Ensures natural daylight in offices
- Long lifetime with lower lifecycle costs

WTZ TOWER WITH MICROSHADE SOLAR SHADING AWARDED DGNB GOLD

MicroShade was the best solar shading for the high rise. MicroShade adds to the building's green profile, meeting the requirements for DGNB's Gold certification.

The 16-storey office tower in Heilbronn's Future Park was designed to meet the requirements for Silver certification for sustainability. However, when the DGNB, the German Sustainable Building Council, assessed the newly built tower at the WTZ, Wirtschaft & Technologie Zentrum, in October 2015, it was awarded a Gold Certificate.

Heilbronn, an old industrial town, is focusing on creating growth. The green profile and a DGNB stamp for sustainability are important if the town is to attract growth industries in IT and biotech.

When it came to the tower's glass façade, a solution had to be found for the passive warming from the sun. The builder and architect decided against external panels based on the wind factor and the building's height of 64 metres. Other options were ruled out due to high operating costs and short service life and others because they would have made the rooms dark and thus deviate from DGNB's requirement. MicroShade solar shading would solve all these problems.

At the design stage, the aim was to keep the sun's passive warming down to 0.18 g. The architect's calculations for MicroShade came out at 0.12. In reality, only 0.09-0.10 of the sun's heat penetrated, which is half of that prescribed in the requirement.

The builder also wanted to be certain about the service life of the MicroShade windows, so a series of windows were sent to the German test laboratory ift, Institut für Fenster-technik. The climate test documented a service life of at least 30 years. Therefore, all doubts were thoroughly removed thanks to German thoroughness.



MicroShade A/S

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