



SIKA AT WORK

PHOTOVOLTAIC LIGHT WEIGHT ROOF, GERMANY

SOLON LIGHTWEIGHT® SYSTEM BONDED WITH Sikasil® SG-20

BUILDING TRUST



PHOTOVOLTAIC LIGHT WEIGHT ROOF, GERMANY



PROJECT DESCRIPTION

This project is the first actual installation of the new TÜV tested Solon LightWeight® System. Sika and Solon SE instructed the contractor to successfully perform the installation of the system over a 720 m² surface. This was one of the first times that the installers could forget about the wrench and hacksaw as well as the usual metal components and small parts. The materials needed most are modules, adhesive and tape. The Sika®Tape FA-22 pads are only used as pre-fixation and distance provider until the adhesive is cured. In addition, the system has a weight of only about 8.5 to 12.5 kg/m² and does not need any roof penetration. Nevertheless the system is suitable for all wind and snow areas due to the structural yet flexible bonding of the modules to the trapezoid sheet metal or standing seam roofs, which is therefore supporting the modules. In addition to this load test, Sika and Solon have run severe adhesion tests with the Sika products to ensure a durable performance. With the modules being frameless, the self cleaning ability of the surfaces is enhanced considerably.

SIKA SOLUTION

Sikasil® SG-20
Sika® Tape FA-22

PROJECT PARTICIPANTS

Project name:	Project "Lappersdorf"
Location:	Germany
Owning company:	Schreinerei Tippelt GmbH
Photovoltaic modules:	Solon SE
Installation:	Photovoltaik-Technik Lichtinger GmbH
Power output:	Approx. 80 kWp
Start of operation:	April 2010

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www.sika.com/solar-references

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SIKA SERVICES AG

Tueffenwies 16
8048 Zurich
Switzerland

Contact

Phone +41 58 436 52 87
Fax: +41 58 436 54 07
www.sika.com/solar

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