



## **A world-first from Würth Solar: the "ARTLine Invisible" facade system with coloured CIS modules**

*Intersolar 2009: Würth Solar presents innovative facade-mounted retaining system for rear-ventilated facades, with the option of coloured CIS solar modules*

Schwäbisch Hall, 27 May 2009 – Würth Solar, the leading innovator in CIS technology for generating photovoltaic energy and at the same time a full-line provider of photovoltaic systems, is presenting a new type of system for facade integration of its GeneCIS modules at this year's Intersolar. This system, for rear-ventilated curtain wall facades with GeneCIS photovoltaic modules, was developed in cooperation with StoVerotec, one of the leading manufacturers of facade systems. With this system, the GeneCIS modules from Würth Solar are bonded to a support plate, which is hooked into a substructure. Thus, for the first time ever, the entire substructure is completely concealed, which lends the whole facade a homogenous and refined appearance.

In addition, Würth Solar is the world's first company to market coloured CIS modules which can be integrated into the facade. This opens up new visual possibilities for architects and planners with regard to facade design. GeneCIS modules from Würth Solar can be coloured differently to suit requirements. Besides the "original" black, the range includes the colours red, green, yellow, blue and white.

The facade system is marketed under the name "ARTLine Invisible" and will be presented at Intersolar in Munich from 27 to 29 May 2009 (stand no. 450, hall A2), where the optional integration of coloured modules will also be showcased for the first time.

"The integration of CIS modules, as the key components, into a rear-ventilated curtain wall facade by means of bonding, is a world-first. The use of GeneCIS modules increases the quality of the facade design even further. Our coloured modules top off these new possibilities," says Timo Bauer, Product Manager at Würth Solar. "To an ever-increasing extent, photovoltaic modules are becoming multifunctional building elements: they not only generate electricity, but also serve as weather protection and set aesthetic accents. Simultaneously, as part of the rear-ventilated curtain wall facade, they enable buildings' energy requirements to fall dramatically."



### **Long-lasting and profitable**

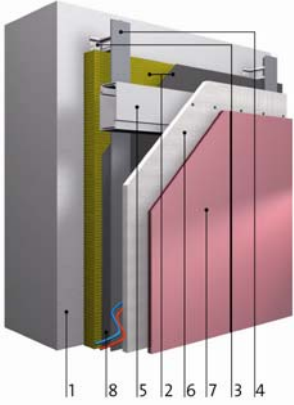


The popularity of rear-ventilated curtain wall facades is growing, not least because of the diversity of design options which they allow. The structural separation of thermal insulation and weatherproofing means that the system is extremely long-lasting and thus highly profitable. Upon integration of GeneCIS modules, the ventilation gap between the elements enables simple, concealed electrical cabling. The active facade elements are fastened by means of clasp retainers. The specific weight of a module bonded to the support plate is comparatively low at 32 kg/m<sup>2</sup>. This makes it possible to mount the GeneCIS elements on a very wide range of building materials, e.g. concrete, steel etc.

The Würth Solar modules' stable glass-glass composite guarantees resilience across the whole surface, as well as a long service life. The low cost of installation is another advantage: as the modules are completely prepared and bonded to the support plate before delivery, all that needs to be done on the construction site is to hook them into the substructure and to connect the cables. As installation is so quick and easy, this system is highly suitable for large and small facades alike.

### **About Würth Solar**

*Würth Solar, a company in the Würth Group, is a full-line provider of photovoltaic systems based on CIS technology. In its specially constructed CISfab solar factory in Schwäbisch Hall, Germany, Würth Solar became the world's first company to begin large-scale mass production of CIS solar modules in autumn 2006. CIS stands for the chemical compound of the elements copper, indium and selenide (CuInSe<sub>2</sub>). From the development and production of GeneCIS solar modules, to customer-specific consultancy, financing and system planning of solar energy systems, through to installation and support of these systems via certified service partners, Würth Solar provides its customers with everything from a single source. Würth Solar currently employs 218 staff. Further information can be found at [www.wuerth-solar.com](http://www.wuerth-solar.com).*

## Press Release

 <ol style="list-style-type: none"><li>1 Wall</li><li>2 Insulation (covered by a membrane)</li><li>3 Wall bracket</li><li>4 T-shaped profile</li><li>5 Clasp profile</li><li>6 20 mm support plate</li><li>7 GeneCIS photovoltaic module</li><li>8 Connection cable</li></ol>	<p><b>Facade system structure for rear-ventilated curtain wall facades:</b></p> <p>The GeneCIS modules from Würth Solar are directly bonded to a support plate.</p> <p>(Source: Würth Solar, StoVerotec)</p>
	<p><b>"ARTLine Invisible" facade integration from Würth Solar:</b></p> <p>The fastening elements cannot be seen.</p> <p>(Source: Würth Solar, StoVerotec)</p>
	<p><b>Coloured modules</b> (Source: Würth Solar)</p>