

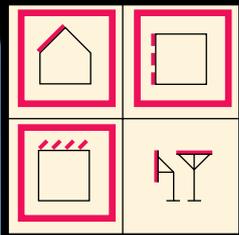
demosite

IEA PVPS TASK VII EXHIBITION CENTRE FOR PV INTEGRATION

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ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE
Laboratoire d'énergie
solaire - LESO-PB
CH-1015 Lausanne
T +41 21 - 693 45 45
www.demosite.ch



STANDARD PRODUCT
CUSTOM PRODUCT
PROTOTYPE

COLT / SOLUTION

COLT INTERNATIONAL (Suisse) SA
Bureau de Suisse Romande
Résid. Claire-Fontaine
CH - 1278 La Rippe
Tel. +41 22 367 21 70
Fax +41 22 367 21 73
Internet www.coltinternational.co.uk

SOLUTION
Atlantis Solar Systeme Ltd
Betriebsstätte Solution
Industriepark Altgraben
CH - 4624 Härkingen
Tel. +41 62 398 03 89
Fax +41 62 398 47 15
email solution@atlantisenergy.ch

SYSTEM DESCRIPTION

This original roof with three pyramids provides shelter, daylight and electricity.

Two sides of each pyramid are customized photovoltaic modules set in glass/Tedlar and are translucent except for the photovoltaic cells.

Photovoltaic modules that let light filter through are used more and more often. Among others, the platform canopies of a railway station have been equipped with some (Morges, Switzerland).



APPLICATION FIELD

Building type	Any kind of roof or facade where simultaneous shadowing and diffuse light entry are required.
Building elements	Any size or form
Mounting technology	Silicon seal (Seraflex), metallic construction
PV Module	any kind of PV technology (amorphous, poly -or- monocrystalline cells)

AT DEMOSITE

PV Area	5,2 m ²
PV Module	Solution with 47 monocrystalline cells Siemens Solar connected in series
Power, voltage	69 W, 23 V (standard test conditions)
Size	1740 x 994 mm each, triangular
Connection	2 x 3 modules in series

COLT / SOLUTION

COLT International specialises in the manufacture and installation of smoke and environmental control systems for buildings as well as solar protection systems. Photovoltaic systems are a complement to its activity.

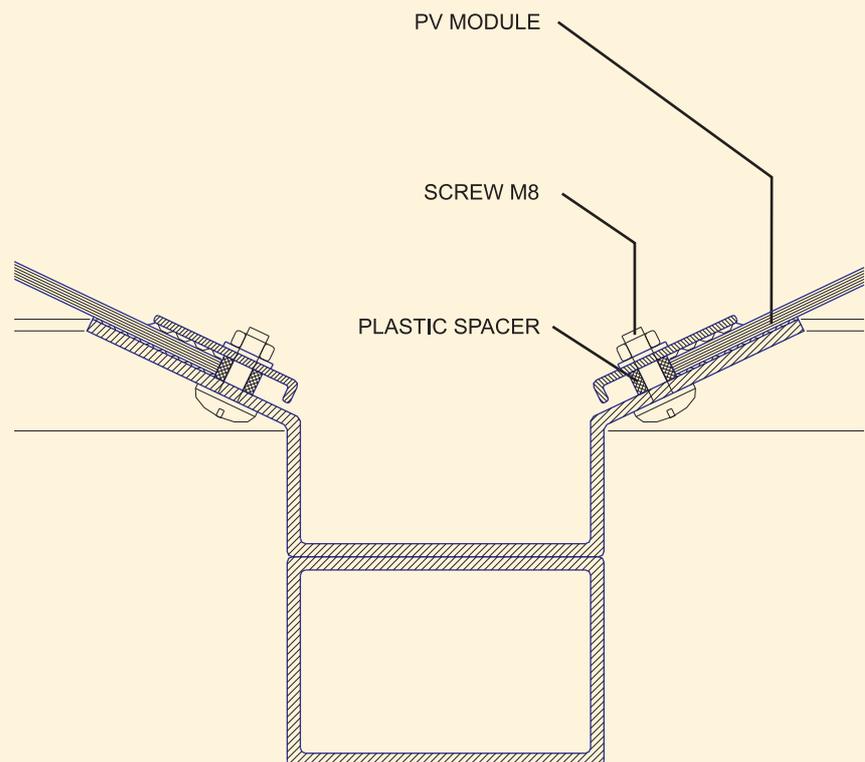
SOLUTION AG, a subsidiary company of Atlantis Systems Ltd., is a Swiss manufacturer of photovoltaic modules; their laminated glass/Tedlar panels are available in standard sizes or custom-sized. The property lamination process passed the European tests (CEC Spec. 503 - IEC 1215).

SYSTEM TECHNOLOGY

The four triangular translucent photovoltaic modules that form each pyramid are held together by silicone only.

They are hot-glued at the manufacturers and then taken to the site to be mounted on a structure of lacquered steel channel sections.

Due to its modularity, this type of panel offers the seducing possibility of covering different architectural spaces producing electricity and providing daylight at the same time. Cell and Tedlar type as well as the spacing between cells can be chosen by the client.



CROSS SECTION OF THE GUTTER