



# AUSTROPLAN PV LINER

BUILDING INTEGRATED PHOTOVOLTAICS FOR GENERATIONS



**agru**

Worldwide Competence  
in Plastics



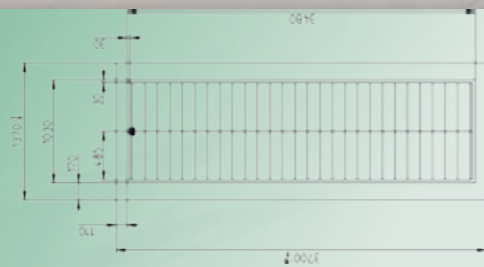
## AUSTROPLAN PV Liner

### Combines roof liners and proven PV modules

The high-performance AUSTROPLAN photovoltaik-liner is best suitable for the efficient generation of electricity on the roof and is established because of its easy installation. The sealing of the roof and the installation of the photovoltaic system is done in one step – saving time and money.

The AUSTROPLAN PV liner is applicable for all roofs on industrial and administrative buildings or sports stadiums – regardless whether these are new or existing structures.

The PV-module which is generating electricity is encapsulated into the AGRU roof liner by lamination.



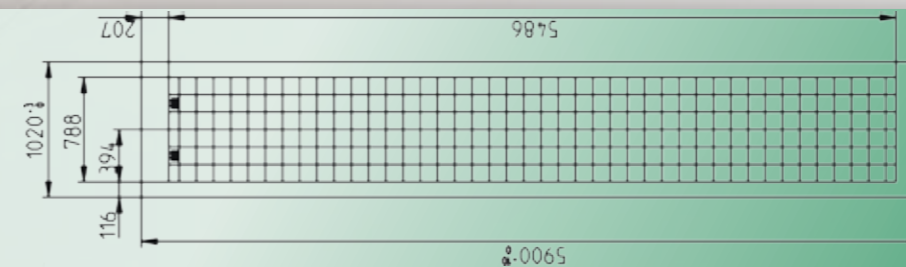
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The AUSTROPLAN PV liner is applicable for all roofs on industrial and administrative buildings or sports stadiums – regardless whether these are new or existing structures.

The PV-module which is generating electricity is encapsulated into the AGRU roof liner by bonding.



### Product advantages

- Best generation of energy, even at high temperatures and low insolation
- a-Si thin film modules with superior energy yields
- High energy output for slightly sloped areas
- Low weight and static advantages
- Applicable for each roof pitch (>3°) and all directions
- Quick-Build-System with the existing roof as supporting structure
- Easy electrical connection with Multi-Contact Quick-Connect-System
- Efficiency data from the PV-manufacturer: 20 years > 80% of actual power output (STC standard testing conditions)
- Easy and fast installation

#### • efficiency data\* 2S Modul

Rated power	Pmpp (W)***	150
Rated voltage	Vmpp (V)***	45,0
Rated current	Imp (A)***	3,0
Short circuit current	Isc (A)	4,0
Open circuit voltage	Voc (V)	64,0
Short circuit current	Isc (A) @75°C	4,2
Open circuit voltage	Voc (V) @-20°C	71
Temp. coefficient Voc**	%/°C	-0,237
Temp. coefficient Isc**	%/°C	+0,086
Temp. coefficient Pmpp**	%/°C	-0,15
Max. system voltage	(V)	600

More types on request

#### • AUSTROPLAN PV liner 2 modules

with two lines of PV-modules  
size: 1.37m x 3.70m  
PV-area: approx. 3.38m<sup>2</sup>

#### • efficiency data AUSTROPLAN PV liner

modul	type	[W]	[Wp/m <sup>2</sup> ]
2	2S	150	27

#### • efficiency data\* PVL-144 STC

Rated power	Pmpp (W)***	144
Rated voltage	Vmpp (V)***	33
Rated current	Imp (A)***	3,36
Short circuit current	Isc (A)	5,3
Open circuit voltage	Voc (V)	46,2
Temp. coefficient Voc**	%/°C	-0,38
Temp. coefficient Isc**	%/°C	+0,10
Temp. coefficient Pmpp**	%/°C	-0,21
Max. system voltage	(V)	600

More types on request

#### • AUSTROPLAN PV liner 2 modules

with two lines of PV-modules  
size: 1.02m x 5.9m  
PV-area: approx. 4.44m<sup>2</sup>

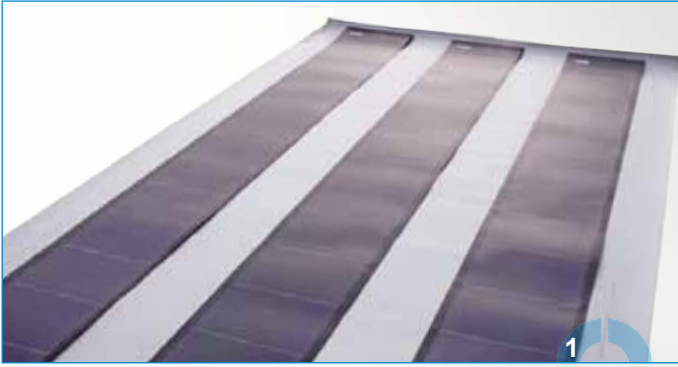
#### • efficiency data AUSTROPLAN PV liner

modul	type	[W]	[Wp/m <sup>2</sup> ]
2	PVL-136	272	43.87
2	PVL-144	288	46.45

### Product advantages

- Best generation of energy, even at high temperatures and low insolation
- Lower shadow sensitivity through by-pass diodes
- Established, best known PV-system on the market
- Flexible installation of the modules per liner because of bonding the modules on the liner directly at the AGRU production site
- Efficiency data from the PV-manufacturer: 20 years > 80% of actual power output (STC standard testing conditions)
- Low weight and static advantages
- Easy and fast installation
- Opportunities to feed the gained power directly in the national network

# YOUR BENEFIT – THE EASY INSTALLATION



Placement of PV-modules



Welding with manual equipment



Mechanical fixation of PV-modules



Welding with automatic equipment



## ● LINING SYSTEMS

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Your distributor:



Worldwide Competence  
in Plastics

**AGRU Kunststofftechnik GmbH**

A - 4540 Bad Hall

Ing. Pesendorfer-Straße 31

T +43 (0) 7258 790 - 0

F +43 (0) 7258 3863

office@agru.at

www.agru.at