

**Data sheet for projecting report / installation plan for alwitra EVATEC**

Processing possible only if completely filled in and signed. Data are the basis for the static pre-calculation and are in the responsibility of the undersigned.

Please return completely with signature by e-mail to alwitra sales department:

export@alwitra.de

FB.AT.44

version: Dec. 2023 (Rel. 4)



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<b>1. <input type="radio"/> architect <input type="radio"/> roofing contractor</b> name: <input type="text"/> street: <input type="text"/> post code / town: <input type="text"/> phone: <input type="text"/> e-mail: <input type="text"/> person in charge: <input type="text"/>	<b>2. building project</b> alwitra project n°.: <input type="text"/> (if known) project: <input type="text"/> street: <input type="text"/> post code / town: <input type="text"/> <b>post code, street, house number mandatory!</b> Wind load zone: <input type="text"/> Terrain category: <input type="text"/> Height above sea level: <input type="text"/> m
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

**3. delivery via dealer (name, town):**

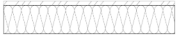

**4. requested planning documents:**  project planning report  project planning report + preliminary planning

**5. project type:**  new building  refurbishment  
 existing roof (age of waterproofing membrane max. 5 years)  EVALON  EVALASTIC

**6. roof shape:**  pitched roof  monopitch roof  other:

**7. project data:** **exposed location:**  yes  no separate scetch (fully dimensioned) attached

roof lenght gable-gable: <input type="text"/> m  roof lenght ridge eaves: <input type="text"/> m  attic height: <input type="text"/> m  building height: <input type="text"/> m  roof slope: <input type="text"/> ° 	<b>Base layer:</b> <input type="radio"/> wood <input type="radio"/> steel trapezoidal sheet for wood (OSB, formwork,...) <input type="radio"/> formwork <input type="radio"/> OSB wood thickness: <input type="text"/> mm <b>for steel trapezoidal sheet:</b> yield strenght: <input type="text"/> N/mm <sup>2</sup> manufacturer/designation: <input type="text"/> / <input type="text"/> sheet thickness: <input type="text"/> mm girth distance: <input type="text"/> mm
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**insulation:**  
 cold roof: yes   no    
 insulation material, type:  /   
 thickness:  mm

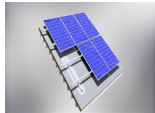
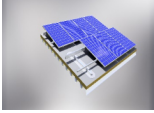
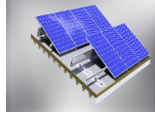
**Tension direction for TRP sheet or wooden formwork:**  
 from ridge to eaves  
 parallel to eaves

**8. mounting rail:**  
 EVALON  ligh grey  slate grey  EVALASTIC  ligh grey  slate grey matt

**9. solar panel:**  data sheet  manufacturer / designation:   dimensions:

**permitted clamping range:**  (without specification, preliminary planning is carried out with 0.25 x module lenght)

**10. execution:**

<input type="radio"/> Parallel to the roof	<input type="radio"/> FixZ-7	<input type="radio"/> FixZ-15
		
Parallel to the roof: recommended from 5° roof slope.	FixZ-7: recommended 0° - max. 5° roof slope.	FixZ-15: recommended 0° - max. 5° roof slope.

<input type="text"/>	<input type="text"/>	<input type="text"/>
place	date	Signature

# Explanations to the data recording sheet for the preparation of the project planning report / installation plan for alwitra EVATEC

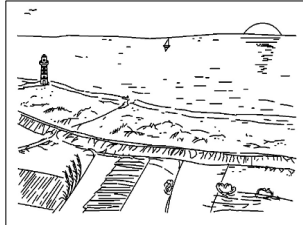
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version: July 2023 (Rel. 3)

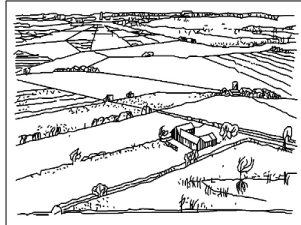


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## Explanations of the terrain categories:

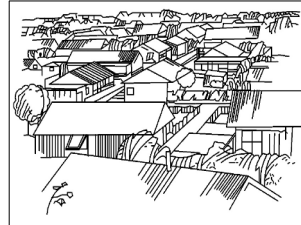


**terrain category I**  
open sea; lakes with  
at least 5 km free  
area downwind;  
smooth, flat land  
without obstacles



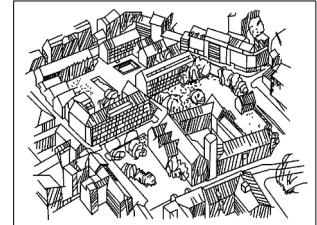
**Mixed profile coast**  
transition area  
between  
terrain  
category  
I and II

**terrain category II**  
terrain with hedges,  
individual farmsteads,  
houses or trees,  
z. e.g. agricultural  
area



**Mixed profile inland**  
transition area  
between terrain  
category  
II and III

**terrain category III**  
suburbs, industrial  
or commercial areas;  
forests



**terrain category IV**  
urban areas, at least  
15 % of the area with  
buildings whose  
average height exceeds 15 m  
exceeds

### NA.B.1 Determination of the terrain categories

On the safe side, terrain category I can be used as a basis in coastal areas and on the North Sea and Baltic Sea islands, and terrain category II in inland areas.

### NA.B.2 Transitions between terrain categories

The reduction of ground-level wind speeds by forests may only be assessed with terrain category II. In a strong storm, it is not ensured that the ground roughness of terrain category III remains effective because the vegetation may not withstand the wind forces.

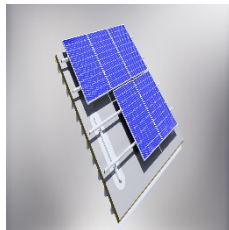
In cases of doubt, the smoother (undeveloped) terrain category is to be assumed.

The influence of changing ground roughness may be recorded without further investigation as follows: If the building site is closer than 1 km to a change from smoother (undeveloped) to rougher (developed) terrain, the less favourable, smoother terrain category shall be used. If the building site is further than 3 km from the change in roughness, the rougher terrain category may be used if the building is lower than 50 m. For structures higher than 50 m, the smoother terrain category shall be assumed.

source: DIN EN 1991-1-4 / NA: 2010-12 appendix NA.B

## Explanations of the photovoltaic systems:

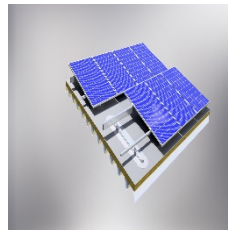
### Parallel to the roof



Installation of a **roof-parallel** PV system without elevation using SoloPlus module support profiles, which are fastened to the **alwitra EVATEC Solar mounting rail** using **Rapid2+L** brackets. The additional roof load is in the range of 14Kg/m<sup>2</sup>.

parallel to the roof: recommended starting from 5° roof slope.

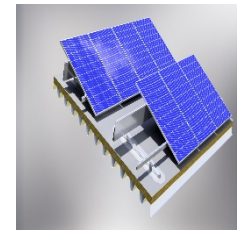
### FixZ-7



Installation of a PV system with **5°-7° additional elevation** (depending on module length) compared to the roof pitch using **FixZ-7** module support profiles for mounting on **EVATEC Solar mounting rails** using **Rapid2+L brackets**. The additional roof load is in the range of 15Kg/m<sup>2</sup>.

FixZ-7: recommended 0° - max. 10° roof slope.

### FixZ-15



Installation of a PV system with **additional 11°-15° elevation** (depending on module length) compared to the roof pitch using **FixZ-15** module support profiles for mounting on **EVATEC Solar mounting rails** using **Rapid2+L** brackets. The additional roof load is in the range of 16.5 kg/m<sup>2</sup>.

FixZ-15: recommended 0° - max. 10° roof slope.