SOLISTEK

2022 — In-roof system

# Solid Solrif® - solar power plant as a roof

# Advantages of the Solrif® system

- Easy, fast installation (6 min per module)
- Replaces conventional roofing material
- Waterproof from 10 degrees
- Simplest design on the market
- Tried, tested and reliable
- Ventilated
- Superior aesthetics
- For roof pitches between 10 and 70 degrees (lower slopes require rain-proof or water-tight substructure)
- The system saves the end user considerable sums of money over a period of 20+ years

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03

# Solrif® frame – Ernst Schweizer AG

- 2 decades of development and improvement
- 1920: Company founded
- 1999: Launch of Solrif® frame and mounting system

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04

# Solrif® integration system

- Module
- Solrif® frame
  - Attached in-factory
  - Transforms module into roof tile
- Mounting clamps
- Side profiles
- Flashings

05

# SOLID Solrif® – solar power plant as a roof

It became possible when we connected our fire class A SOLID Glass-Glass solar module with Solrif® system from Ernst Schweizer AG. **We call this system SOLID Solrif®.**

SOLID Solrif® is valued for its ability to generate electricity, for its simplicity of mounting and design.

House owner saves money twice: at first on roof tiles, and later – on smaller bills for electricity at least for 30 years. All we need to provide the offer is building location and roof dimensions.

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06

# Advantages of the Solrif® system - fast installation time

- 4 main components - clamps and profiles.
- +12 supplementary components
- No plastic
- Easy to plan.
- Installation time: 6 minutes per module

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07

# Advantages of the Solrif® system - Tested, proven over the time

- **>700MW** installed since 1999
- Metal coating IGP-HWF 3001 - 10 years warranty by
- ISO 9001- SQS (the Swiss Association for Quality, and Management Systems)
- TUV certified. Certificate number 7095.

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08

# Solrif® system - Documented for a clear installation process:

- Detailed mounting manual
- Instructions how to handle:

✓ Snow loads.

✓ Windows

✓ Dummies

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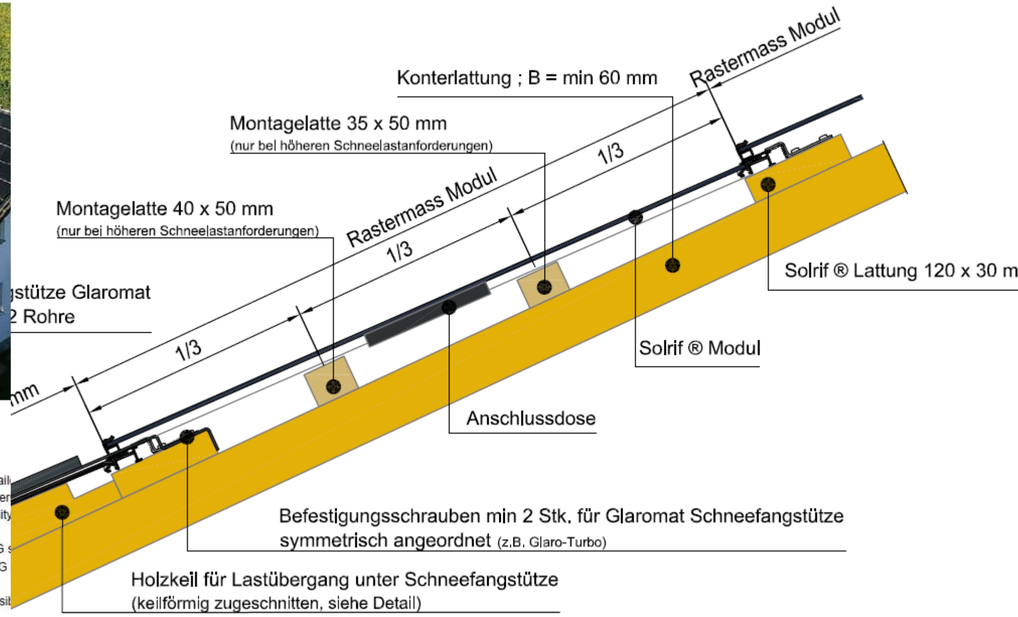
Solar Energy Systems by Schweizer:
Installation Manual –
Photovoltaic In-Roof Mounting System Solrif®.




Art. No: 19591e

**The following applies when processing the Solrif® System:**
Ernst Schweizer AG sells the Solrif® System through specialty retail
tractual partner and thus the warranty provider for project developer
the specialty retailer or the module manufacturer. Any and all liability
pers, installers and the like is excluded.
These installation instructions are provided by Ernst Schweizer AG
were prepared with the greatest possible care. Ernst Schweizer AG
or incorrect statements in these instructions.
The specialty retailers or module manufacturers are solely responsi
tion relating to installation.

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Installation Manual –
PV In-Roof Mounting System Solrif®
Technical data subject to change
06.05.2019/HL



## 2 Requirements based on application

For Solrif®, the following requirements have been determined regarding water-tightness:

| Roof pitch | Description |
|---|---|
| > 10° | Minimum roof pitch for using Solrif® |
| 10° - 22° | Water-tight roof substructure required |
| > 22° | Rain-proof roof substructure required |
| < 32° | Underlay must be implemented to drain into the gutter |
| Roof renovation | |
| > 32° | No need to upgrade the old roof substructure (for using Solrif®) |
| < 32° | The old roof substructure may need to be upgraded to be rain-proof |

# Advantages of the Solrif® system

- Full integration
- Partial integration
- Dummies
- Flexible design (shifted rows)

# Advantages of the Solrif® system

- Ventilated in-roof system
- Possible to replace panel if broken/not operating
- Rainproof


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# Glass - Glass advantages

## Power 370Wp Transparent and full black

10500 Pa

Extreme load resistance

NH3

Ammonia resistance

Self- cleaning effect

Dust & Sand resistance

Fire class A

Salt mist resistance

Officially approved for overhead use by DIBt,


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## Certifications

IEC 61215
IEC 61730

# Solrif® project guidelines

## Step 1. Address

## Step 2. Measurements

We need:

- roof dimensions
- roof angle
- shading

## Step 3. Preliminary budget and system size

Estimate number of panels and price -XXX, EUR per panel

Budget for a high snow/wind load areas can vary

## Step 4. System detailed calculation

- Exact Bill of Materials with spare parts
- Detailed project report for the client/installer with exact measurements

## Step 4. Offer and order

Including drawings with exact measurements, system layout, exact power and total costs.
Checking the project site, consulting with Engineers, installers.

## Step 5. Receive delivery and install, Assistance on-site, online - available,

We recommend to prepare for the 1st project.

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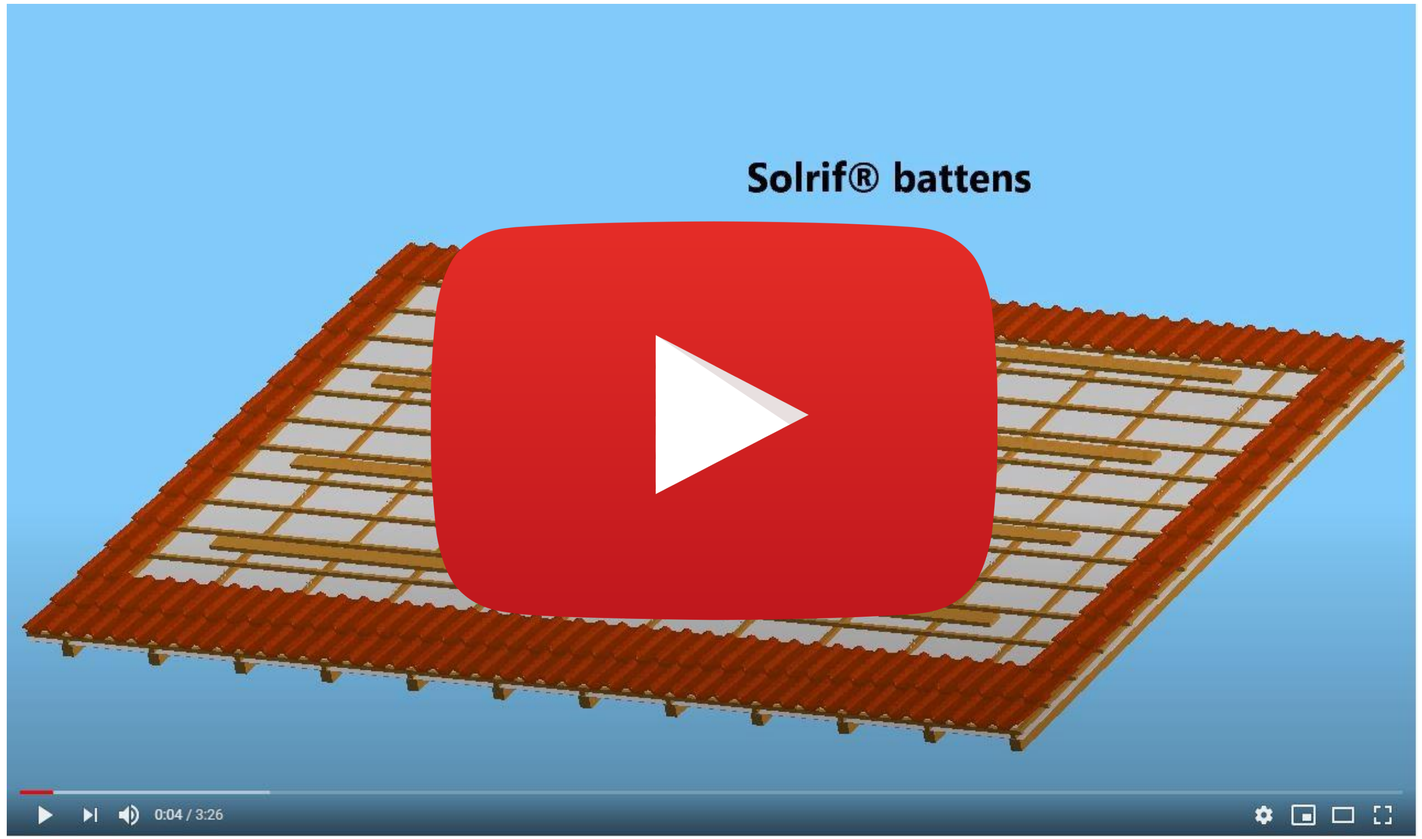
# Solrif® installation guide

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**Solrif® system,**
4kW, Latvia, Riga

**Solrif® system,**
10 kW, Netherlands

**Solrif® system**
7 kW, Norway

**Solrif® at Kalvandö Gård,**
41 kW, Sweden

**Solrif® carport,**
4,5 kW, Sweden

**Solrif® system,**
10 kW, Switzerland

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**Solrif® in Norway,**
**4** kW

**Solrif®**, Sweden

**Solrif® system,**
Finland

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2022 Corporate presentation

# Thank you!

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