



Photovoltaic flat roof installation system for east-west orientation

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# CERTIFICATES AND APPROVALS

## iFIX SOUTH

**The smart substructure  
for photovoltaic installations**

Our iFIX product family meets high technical standards for the construction sector. The general construction permit/type approval for iFIX South has been applied for at the DIBt (Deutsches Institut für Bautechnik). We apply a wide range of testing procedures, including bond and long-term tests as well as experimental component analyses, to continually develop and optimize our products. This guarantees our customers consistently high levels of quality.

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### Quality Management

**ISO 9001** – Our company is ISO 9001 certified. Our internal and external quality management systems are being continually enhanced. This ensures all our products are tested on an ongoing basis.

**IATF 16949** – Our company is IATF 16949 certified. For many years, we have consistently met the most stringent quality management requirements in the automotive industry.

### Environmental Management

**DIN EN ISO 14001** – Our company investigates, evaluates, communicates, and documents environmental issues in order to continually improve its environmental performance. Therefore, iFIX OW is even available in a CO<sub>2</sub>-reduced version.

### Principles of Statics and Load Assumptions

We work according to the current state-of-the-art and the standardized requirements of the Eurocode.

- EN 1991-1-3** General actions on structures – snow loads
- EN 1991-1-4** General actions on structures – wind actions
- EN 1993-1-4** Measurement and design of steel structures
- DIN 55634-1-2** Paints, varnishes, and coatings – corrosion protection of supporting thin-walled steel components

Fundamental tests of the stability and static equilibrium were undertaken in a well-known wind canal and by an accredited testing institute. Experts and structural engineers supervised the testing, and defined and examined the method for calculating the statics of the system.

**Wind canal reports:** I.F.I. Institut für Industrieaerodynamik GmbH, Aachen

**Accredited testing institute:** Fraunhofer-Institut für Solare Energiesysteme ISE, Freiburg i. B.

**Expert:** Breinlinger Ingenieure Hoch- und Tiefbau GmbH, Tuttlingen

**Structural engineer:** Ingenieurbüro Heer Consulting, Roetgen

All information specified in this brochure is according to the current status of our knowledge and experience. As printed materials cannot be updated, please refer to our website for the most recent version. Subject to technical changes, printing, and typesetting errors. For detailed information, please refer to the assembly instructions.

Find out more about the iFIX SOUTH  
and go to  
[www.voestalpine.com/iFIX/en](http://www.voestalpine.com/iFIX/en)

