

Your partner in projects

Technical Support for Solar Installations

Our BIS Solar Fixing Solutions have been used in countless international solar projects. Walraven has extensive experience in solving fixing problems for HVAC and electrical installations. We are committed to offering you a wide range of technical services and project support for all solar applications. Our Technical Specialists are always on hand and can assist with the engineering, calculation and design of solar support frames.

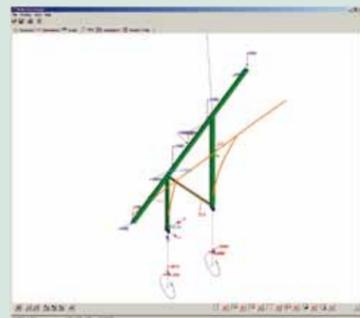


Photo Voltaic Land Solar Installation - Vnorovy (CZ)



Thermal Roof Solar Installation - Hospital - Barlinek (PL)



Thermal Roof Solar Installation - Montecarmelo Apartment building - Madrid (ES)



Thermal Roof Solar Installation - Production Warehouse Hall - Myslenice (PL)

BIS Solar Projects



Photo Voltaic Roof Solar Installation - Distribution Centre - Bleiswijk (NL)



Photo Voltaic Roof Solar Installation - Sports Centre - Arques (FR)



Photo Voltaic Roof Solar Installation - Apartment building Enschede (NL)

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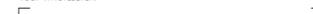


Walraven Group

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walraven.com

Your wholesaler:



BIS Solar Fixing System



BIS Solar Fixing System

Fixing solutions for photo voltaic and solar thermal panels

Innovative solar solutions

Walraven offers a wide range of fixing solutions for photo voltaic and solar thermal panels.

The Walraven range consists of:

- an unparalleled range of Strut fixing rail and accessories to solve every conceivable solar panel construction;
- the BIS Yeti Support System for solar installations on pitched and flat rooftops, flat grounds and other flat surfaces, for example in field locations;
- various clips and fasteners to fix the solar panels to Strut fixing rail constructions.

Technical Support

To support our innovative products we offer a wide range of technical services, such as:

- designing solar support frames;
- calculation and engineering;
- prefabrication service;
- on-site construction support.

Choosing Walraven ensures you benefit from our long-term expertise and our 'state-of-the-art' products next to our support and service. Walraven is your perfect solar partner!



BIS RapidStrut® Solar Panel Fixing



The innovative design of the BIS RapidStrut® Solar Panel Fixing allows a quick and reliable fixing of solar panels to Strut rail construction. The product is pre-assembled and delivered 'ready-to-use'. The plastic spring allows the assembly to be easily fixed into the rail. This innovative product is made from high-grade glass fibre reinforced plastic.

BIS RapidStrut® System



To build support constructions for solar panels Walraven offers the BIS RapidStrut® Fixing System. This system consists of various rail profiles and a comprehensive range of accessories. The range includes rail connectors, wall plates (including hinged versions) and end caps. The rail profiles and most accessories are manufactured from steel. Due to their hot dip galvanized finish these Walraven products are perfectly suited for use in solar panel installations.

BIS Solar Bracket and Hinges



BIS Adjustable Solar Hook



New Concept: single column

Walraven has developed an innovative, material and labour saving support system for solar field constructions. This system consists of a:

- single row hammer-in column with cross bars
- BIS Strut Rail Construction (rafter and stringer)
- BIS RapidStrut® Solar Panel Fixings or an aluminium BIS Solar End Bracket

System characteristics and benefits:

- material: steel, hot dip galvanized
- only one single row of hammer-in columns (usually two rows needed)
- less material with same load bearing capacity (compared to aluminium)
- quick and easy to install (less components, less screwing).



BIS Yeti Support System for Rooftop Installations

For maximum energy production it is important that the solar panel is correctly positioned towards the sun. The BIS Yeti is multi-adjustable therefore allowing the precise positioning of a solar panel construction. For example its plate to receive the Strut rail, is adjustable up to 7° to compensate roof pitch. Ideal for low pitched roofs. The insert for vertical Strut rail is 360° rotatable. Due to its adjustability the BIS Yeti is ideal for solar panel installations.

