

FIXING SYSTEMS FOR SOLAR PANELS



WELAND STÅL AB

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With more than 40 years' experience in roof safety and roof fixings, Weland Stål has developed a fixing system for solar panels. The fixing system is adapted to our Nordic conditions. Our testing system has been calculated and tested to withstand severe wind and snow conditions.

The systems are suitable for all roofs and all types of solar cell, solar panels and solar collectors.

The products are manufactured from Zinc/Magnesium ZM310. A modern and environmentally friendly material with extremely good corrosion properties. This allows installation in exposed locations as well.

Using Weland's system, you obtain a few, easy to use components. Making your installation quick and efficient. We stock and deliver in a few working days directly to the installation site.

We offer various solutions for varying needs. We have a system for installation parallel to the roof. We have a newly developed system for low tilt installation at 15 degrees from the roof. As well as a high tilt system; a frame with the tilt adjustable from 0-50 degrees.

Weland Stål considers the environment from start to finish. The production of the products is climate-neutral using our modern, energy-efficient fleet of machinery. Our own solar panels on the roof provide us with electricity.





Low tilt system

A new simple solution for flat roofs, with fixing points in each corner of the solar panel.

The solar panels are fixed to a low bracket at the front edge and a high bracket at the rear edge. The panel is at a 15 degree incline to the roof to optimise water run-off and collect the solar radiation. The next panel is installed by the side of the 1st panel on the same bracket, which provides an interlinked system with few fixing points.

The brackets are best installed on Weland's sealing plate and, for multiple rows, the high bracket and the next row's low bracket are anchored in the same fixing. The brackets are prepared for hanging cable rails and, when installed with sealing plates, the earth is connected via the fastener. The system can also be installed with ballast and provided with wind plates and loose earthing plates.

High tilt system

For installation on roofs or the ground, a frame can be used to angle the panels towards the sun from 0-50 degrees. We stock an adjustable solution, but we can also offer solutions that are more adapted to your project.

Our rail, developed in-house, combining flexibility with high bearing capacity, is installed on the frame. The rails are easily joined together with fittings to build up to the length wanted. Using centre and end clamps, the solar panel is then easily installed in the fixing rail.

This high tilt system with frame can also be used on the ground.

We have long experience of large constructions and we can easily produce solutions adapted to your project based on calculations regarding the prevailing wind and snow conditions.





Parallel system

We have developed our own fixing rail, combining flexibility with high bearing capacity. The rails are easily joined together with fittings to build up to the length wanted. The rail is also prepared for cross installation.

The rail can be installed on the roof brackets across or along the tilt of the roof, depending on how the panel has to be directed.

Using centre and end clamps, the solar panel is easily installed on the fixing rail. Clamps and end caps are also available in a black version for use together with black panels.

Fixings for all types of roof

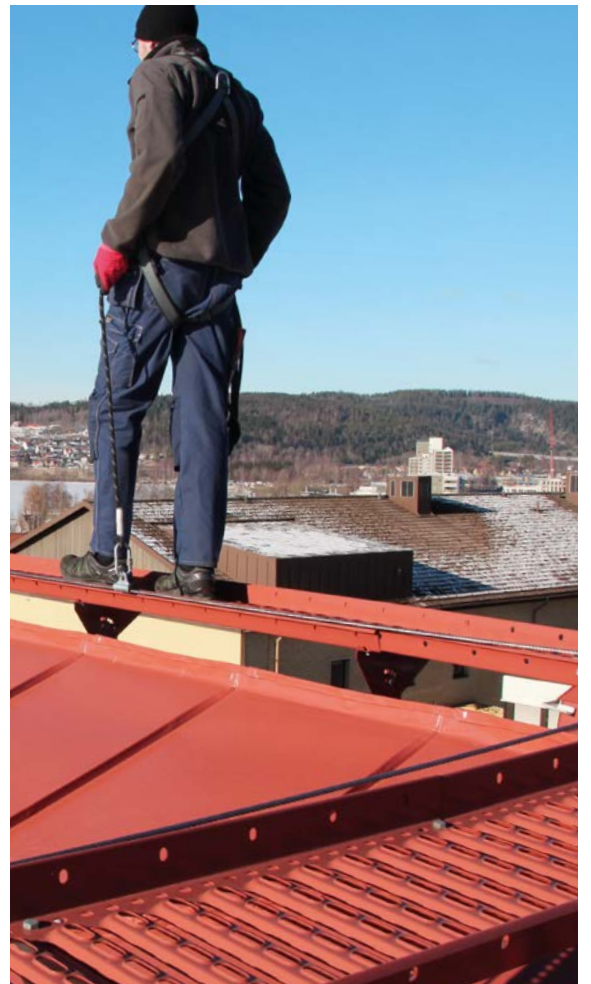
Weland Stål, with its many years' experience of roof safety, has many different alternative fixings for different substrates and roof structures. We have solutions for roofs with concrete and clay tiles, flat and corrugated metal roofs, sealing membrane etc.

Safety on roofs

When working on roofs it is very important to think about the safety. Each solar cell unit installed will also constitute a new service location on the building.

To facilitate servicing of the solar panels on the roof, Weland Stål can help you create a safe workplace with mounts for lifelines, stable gangways and other solutions for your safety.





READ MORE ABOUT OUR ROOF SAFETY PRODUCTS AND SOLAR PANEL FIXINGS

www.welandstal.se



You can also perform calculations and produce material specifications on our website.

WELAND STÅL AB

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