



Wagner Solar

TRIC F DUO aluminium rails for flat roofs

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Protective mats made of rubber granules for overlying ballasted PV mounting elements are designed to protect the roof skin from damage caused by sharp-edged components.

But they can also cause the risk of plasticizer migration when unsuitable material pairings come into direct contact. The aspects of water drainage, pressure distribution and pollution are only partially influenced by rubber building protection mats.

The design of the TRIC F duo rails avoids pressure peaks under the rails due to their rounded design and also ensures low equal load distribution due to their width. The rails are therefore suitable to be placed directly on the roof skin. Rubber building protection mats are used only at the ends of the rails to protect the roof skin from sharp edges of the rails

The rails also provide chemical neutrality with respect to the roof foil. Aluminum shows neutral behavior to polyethylene and polyvinyl chloride (see item: "Chemical resistance of aluminum in contact with important mediums") and, moreover, aluminium is widely used in the roofing trade on flat roofs in the form of edging and finishing strips/ rails.

The actually occurring pressure loads of each project are to be taken from the static calculation and compared with the existing load-bearing capacity of the roof skin. When properly installed, the system meets the requirements of the *Flat Roofing Directive* of the "Dachdeckerhandwerk" (German Roofing Association).

If there is a risk of plasticizer migration with the roof foil when rubber building protection mats are used, aluminium-coated rubber mats must be used and can be provided by Wagner on request.

When laying the mounting rails, it must be ensured that the intended water drainage on the roof surface is not hindered.

Wagner Solar has been developing ballasted mounting systems for foil roofs with a total volume of more than 50 MWp since 2007. So far, we are not aware of problems with plasticizer migration under aluminium surfaces or excessive pressure under our mounting systems.

This statement is approved by

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