

# flat rail

## data sheet











roof-parallel installation  
up to 20° of rooftop angle  
for foil, bitumen and concrete

### Flexible system for various application fields

Our roof-parallel system flat rail features perfect simplicity being suitable for bitumen, foil or concrete rooftops up to an inclination angle of 20°. The system is to be mounted with only one tool within record time of 10 to 15 kWp per man-hour - already including the modules. For ballasting we offer system-compatible ballast trays to be mounted beside the modules.

Due to its short and space-saving dimensions the mounting system easily skirts obstacles like rooflight domes, giving you flexible scopes of application on site.

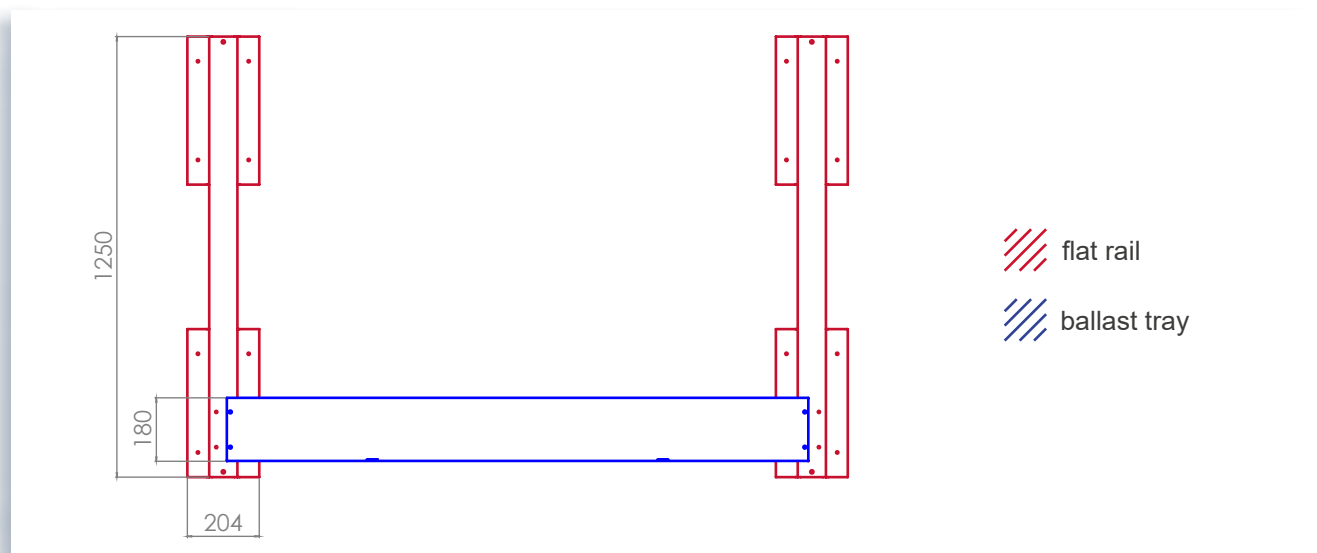
### Benefits of flat rail

-  developed and aerodynamically optimised in a wind tunnel
-  suitable for roofs with a limited load-bearing capacity
-  roof impermeability assured
-  resistant to UV, wind and corrosion
-  quick installation saves time and money: no other mounting system can be installed faster
-  minimum shipping and storage costs due to small scale: 50 kWp measure 2 x 1.25 metre in packaging
-  preconfigured: protective underlay mat already is mechanically fixed to the bottom side
-  multi-directional water drainage guaranteed

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## Technical drawing



## Technical data

Application field	On flat roofs and roofs with a gentle incline of up to 20°
Roof orientation	south, east/west-facing
Roof covering	Foil, bitumen, concrete
Modules	all common modules (frame height between 29mm and 51mm)
Fixation to roof	Placement with no penetration of the roof, rooftop impermeability is not affected by the mounting system in any case
Building protection	Specially designed protective underlay mats for the given surface, pre-fabricated and mechanically fixed
Static	Static testing according to DIN EN 1991-1-1 (load capacity) and DIN EN 1991-1-3 (snow load). DIN EN 1991-1-1 to 4 comply with EUROCODE 1
Proof of wind resistance	Stability tested by wind tunnel testing at the Institute of Industrial Aerodynamics according to DIN EN 1991-1-4 and the equivalent load figures measured
Lightening protection	Substructure can be connected suitable for lightening current
Material	Steel S255 G D AZ185 (Steel with 185 g/m <sup>2</sup> aluminium-zinc alloy), corrosion protection class III according to DIN 55928-8
Connection material	VA stainless steel screws and bolts
Assembly time	10-15 kWp per man hour (flat rail including module)
Product guarantee	10 years