

System description

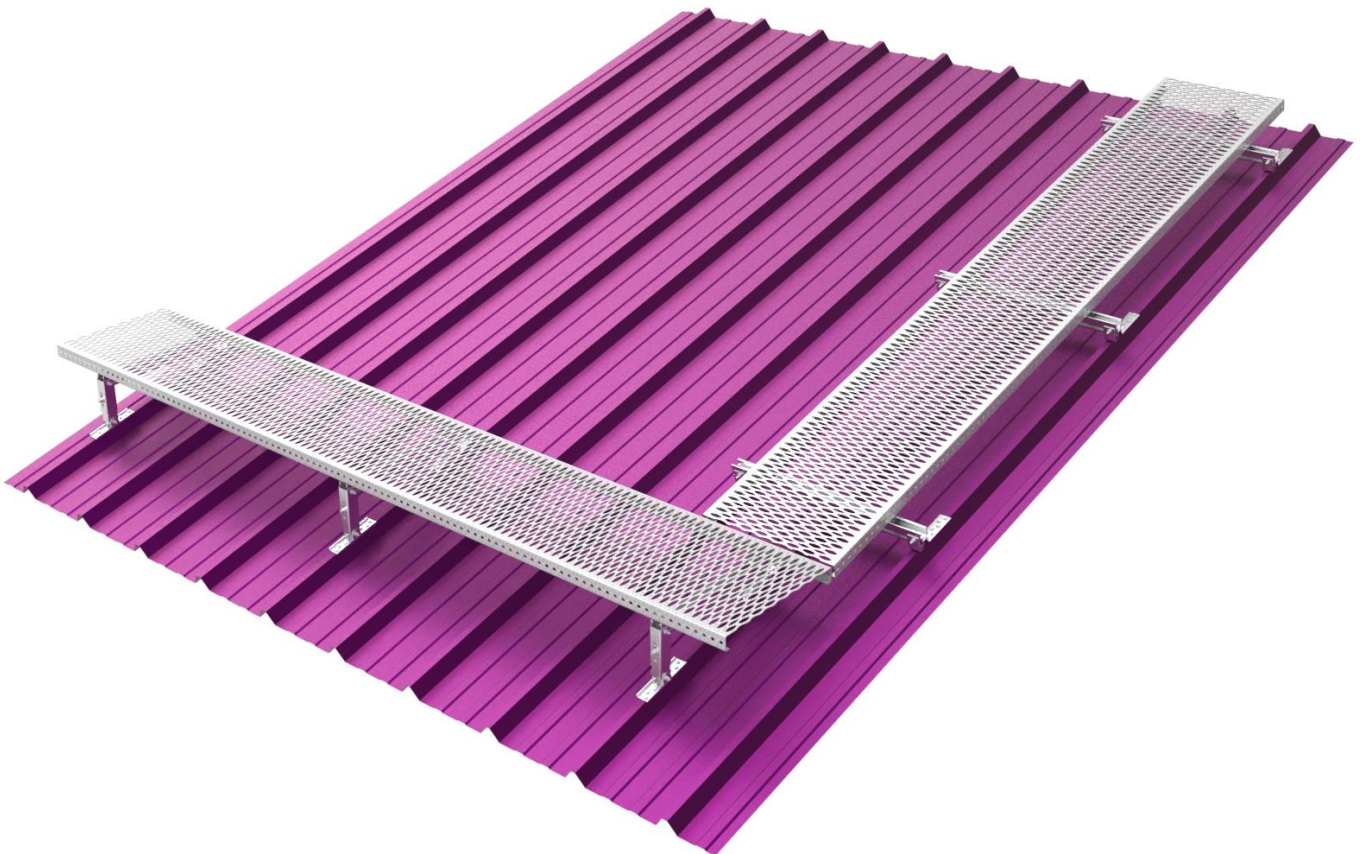
ROOFWALK TRAPEZ is a walkway for maintenance and inspection purposes according to EN 516:2006 Class 1, Type C on metal roofs with trapezoidal or sandwich coverings.

Possible product version

ROOFWALK TRAPEZ 500 Z, Width of grating 500 mm, galvanized

ROOFWALK TRAPEZ 600 Z, Width of grating 600 mm, galvanized

ROOFWALK TRAPEZ 500 A, Width of grating 500 mm, aluminium



Installation

Please read through the assembly instructions before installing the walkway.

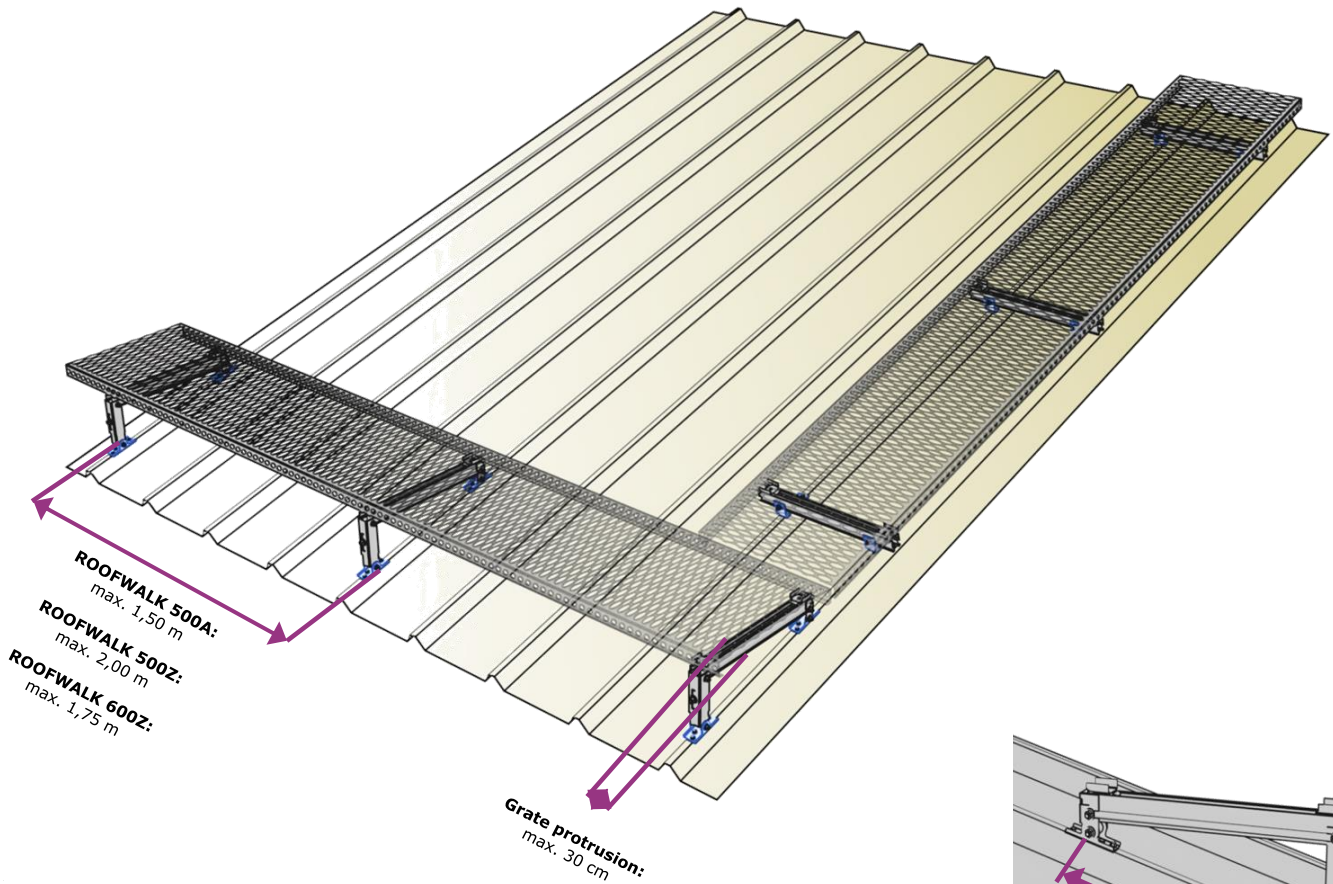
Before installation, the load-bearing capacity of the roof structure and the suitability for installation must be checked. The dead load of the walkway system is 0.25 kN/m, the rated load for foot traffic according to DIN EN 516 is 1.5 kN.

ROOFWALK TRAPEZ is to be used for paths from the eaves to the ridge from a roof pitch of more than 1:5 (approx. 11°) with tread strips. According to DIN 4426, traffic routes from an inclination of 1:2.75 (approx. 20°) must be designed as steps.

In areas with aggressive environmental conditions, e.g. in the area of chemical plants or near the coast, an additional coating or anodising of the aluminium parts and/or a design of the grating in stainless steel may be necessary.

Layout

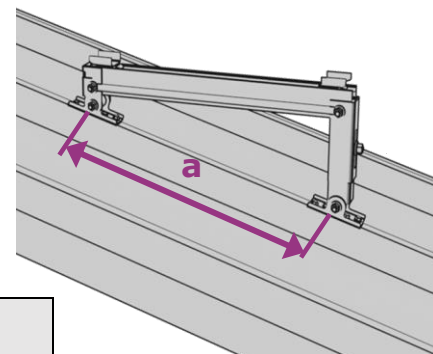
Please note your installation plan!



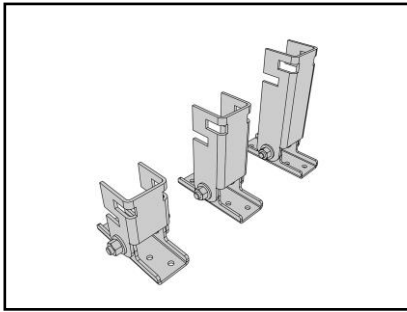
Distance table

For the spacing of clamps and supports please use the following table:

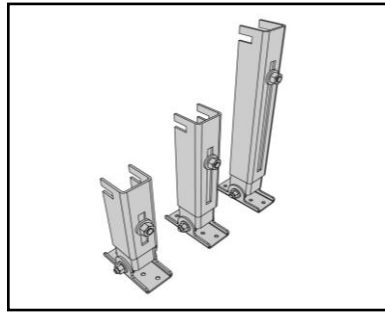
ROOFWALK TRAPEZ 500 Z / A				ROOFWALK TRAPEZ 600 Z			
Roof pitch	a = Holder distance	Supports 1	Supports 2	Roof pitch	a = Holder distance	Supports 1	Supports 2
3°	460 mm	SAK	SAM	3°	560 mm	SAK	SAM
5°	462 mm	SAK	SAM	5°	562 mm	SAK	SAM
8°	465 mm	SAK	SAL	8°	566 mm	SAK	SAL
10°	467 mm	SAK	SAL	10°	570 mm	SAK	S1
15°	478 mm	SAK	S1	15°	581 mm	SAK	S2
20°	492 mm	SAK	S2	20°	598 mm	SAK	S2
25°	512 mm	SAK	S2	25°	622 mm	SAK	S3
30°	537 mm	SAK	S3	30°	652 mm	SAK	S3
35°	570 mm	SAK	S3	35°	692 mm	SAK	S3
40°	612 mm	SAK	S3				



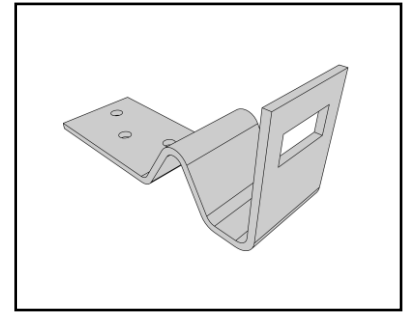
Components



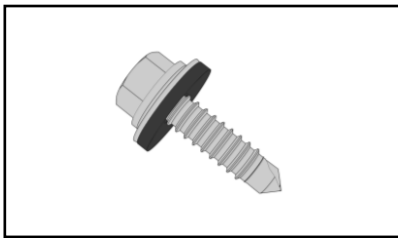
Supports: SAK, SAM and SAL



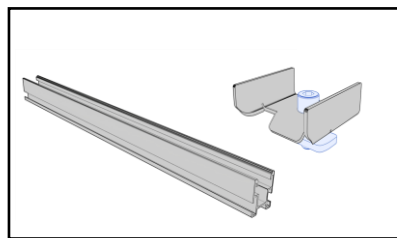
Telescopic support 1-3



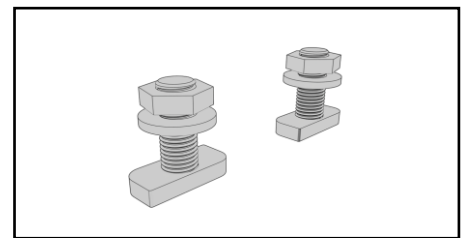
Eave to ridge bracket



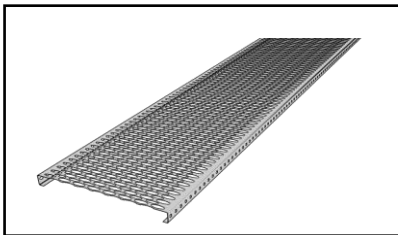
Thin sheet metal screw
6,0x25 with sealing
washer



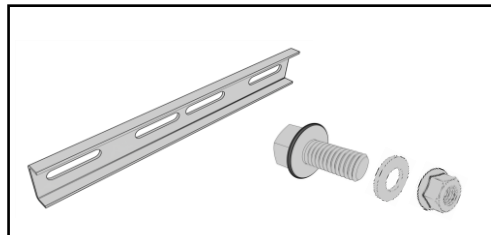
Support rail and grate clamp



Set for fixing the support rail:
2 hammer head screws M10x25
(Typ 28/15), washer and nut

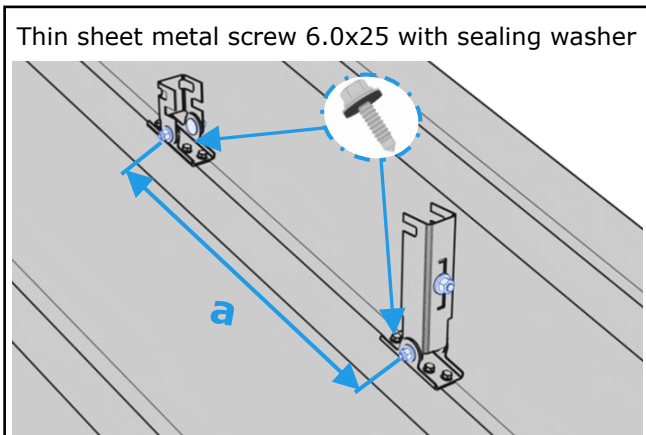


Grating 500 mm galvanized
Grating 600 mm galvanized
Grating 500 mm aluminium

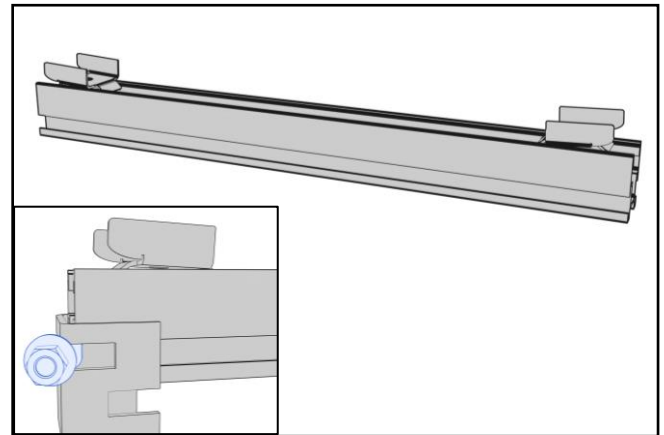


Set of longitudinal connector grate:
longitudinal connector with 4 screws
M8x20, washers and self-looking nuts

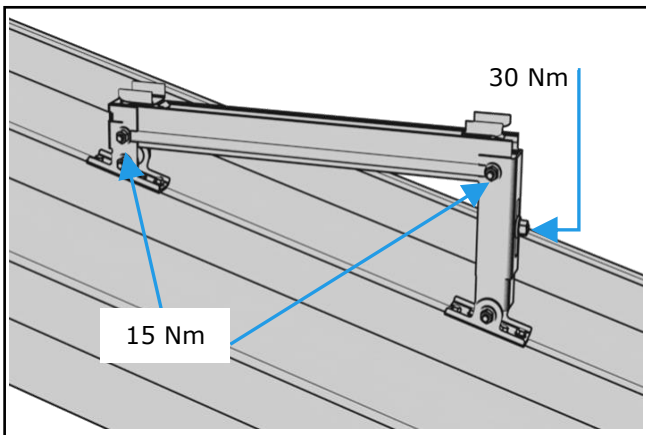
Montage



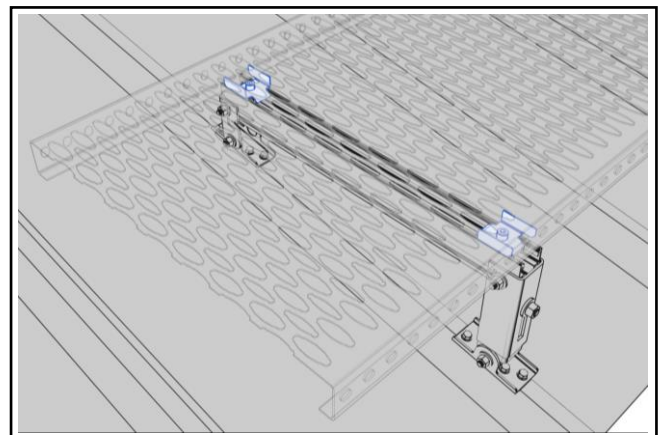
For spacing of the holders, see table on page 2!
 Place the holder and fix it to the bead with 4 thin sheet metal screws each.



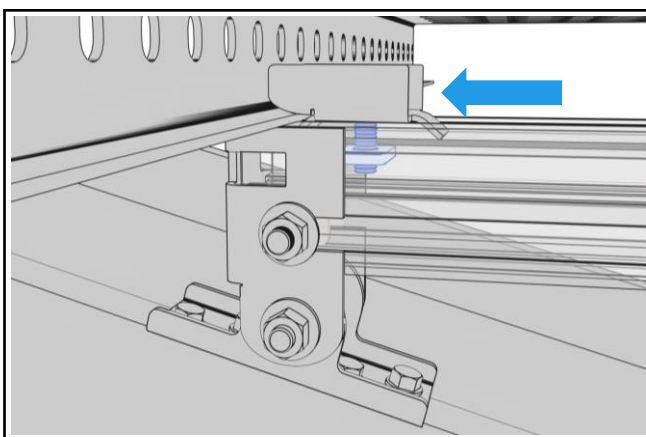
Slide 2 grate clamps into the support rail.
 Fix the support rail to the supports with 2 hammerhead screws each (30Nm).



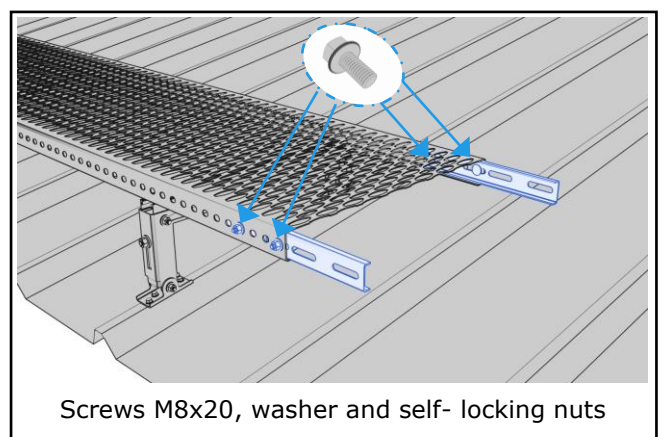
Align the support rail horizontally and tighten the remaining screws.



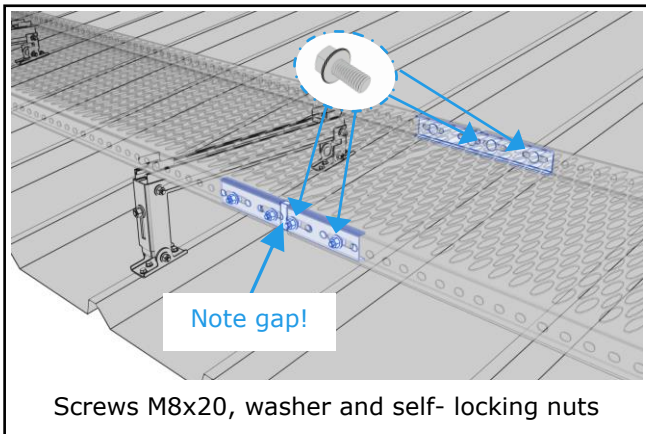
Place the prepared grate on the substructure.



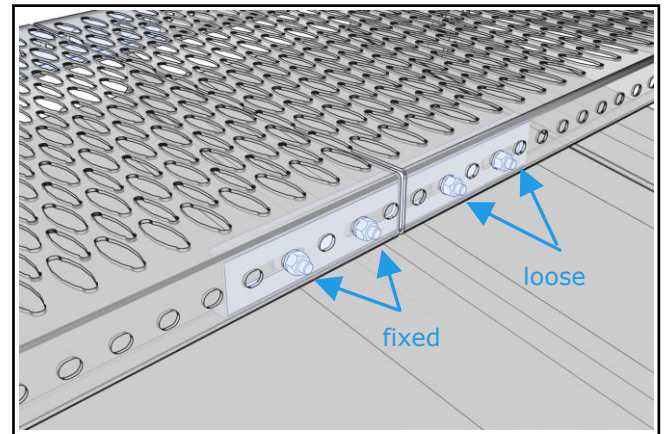
Push the grate clamps outwards over the back edge of the grate and tighten the screws (7 Nm).



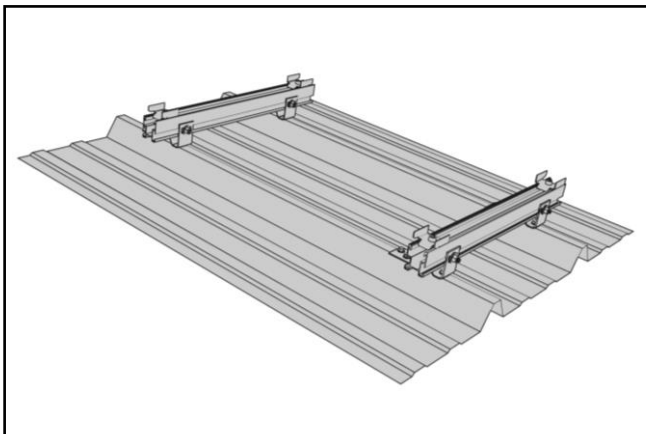
Fix 2 longitudinal grate connectors to the grate with 2 screws each.



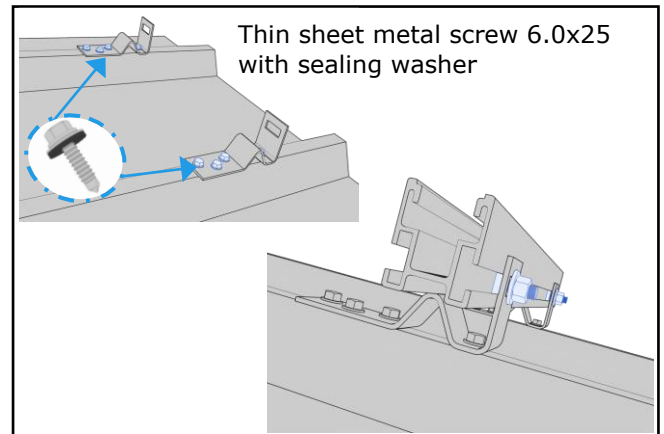
Place the prepared grate on the base and push it against the already mounted grate, leaving a gap 5-10 mm. Fasten the grate clamps and loosely fix the longitudinal connectors with 2 screws each.



Due to thermally induced length changes, the screws are screwed tightly on one side and loosely on the other.



Orientation from **eaves to ridge**:
 Here, the support rails are mounted on the brackets at right angles to the beading.



Fasten brackets for eaves to ridge with 4 thin sheet metal screws each. Fix the support rail to the bracket with 2 hammerhead.

Storage

The grates are made of aluminium or galvanised steel, the support structure is made of aluminium. In case of moisture ingress, the surfaces can oxidise and lose their shine or develop stains. This oxidation does not attack the metal itself, but forms a natural protective layer. The optical changes have no effect on the quality of the components and the maintenance path. We recommend that the components are stored in a dry and ventilated place, protected from moisture before installation.

Maintenance

ROOFWALK TRAPEZ must be inspected at intervals of max. 2 years. Particular attention should be paid to loose or deformed parts as well as corrosion.

If there is any concern about the functionality of the walkway, it must be inspected and, if necessary, serviced before the next time the roof is walked on.

General safety instructions

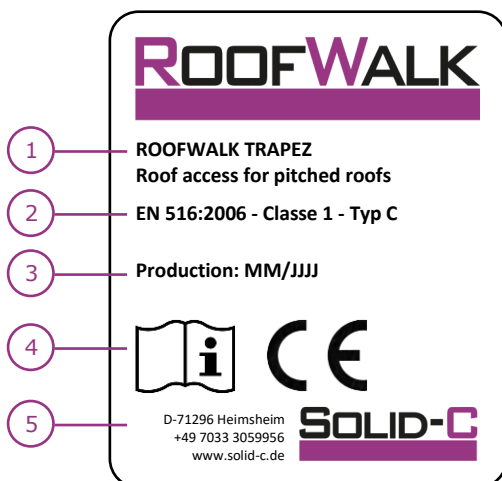
For the duration of the assembly, protection against falling must be provided, e.g. by means of an appropriate scaffold or anchoring devices. It must be ensured that the assembly is only carried out by instructed specialists in compliance with the specifications for carrying out work at the appropriate height.

Only undamaged original parts are to be used for assembly, and no changes may be made to them that impair their function or safety. If it is necessary to dismantle the catwalk, this must be done in reverse order to the assembly instructions.

Workplaces and traffic routes on the roof may only be accessed by persons who have been instructed for this work. Workplaces and traffic routes on the roof may only be entered when they are free of snow and ice. A fall protection system must be provided.

If the walkway is subjected to exceptional loads, it must be checked by a competent person and approved in writing for the intended use.

Marking



- 1 Product and type identification
- 2 Standard and classification
- 3 Year of manufacture and serial number
- 4 Note that instructions for use must be observed
- 5 Manufacturer

Disclaimer

The load-bearing capacity of the substrate must be checked by the customer. Solid-C cannot make any statements about this. In addition to these installation instructions, the installing company has to observe the valid regulations and rules of technology. Solid-C GmbH is not liable for the dimensioning instructions contained in commercial offers, since it is generally not possible to agree on all technical framework conditions within the scope of tender submissions. The installation company is responsible for the mechanical durability of the mounted products to the building envelope, especially for their tightness. The components of Solid-C GmbH are designed for this purpose according to the expected loads and the valid state of the art. Solid-C GmbH does not assume any liability for damages caused by improper installation.