

Installation instructions Polyfin maintenance tiles („Wartungswegplatten“)

General information:

FPO/PE maintenance walkway panel

The maintenance walkway tile is an FPO tile with a textured surface, which is used for walking protection on loosely laid and mechanically fastened flat roof waterproofing (e.g. walkways for maintenance work, but not unused roof areas).

The textured surface provides a higher degree of slip resistance when walking on it.

Furthermore, increased protection of the roofing membrane against mechanical impact is achieved.

However, However, the same requirements cannot be made with regard to the flatness of the surface

as is the case with paths made of concrete slabs or on grating systems. Due to

thermally induced length changes in the product itself, and also in the

roof waterproofing on which it is laid, a certain flatness in the surface

cannot be guaranteed as a property. If this is necessary for the project, it is recommended to construct the maintenance paths with concrete slabs (check structural stability) or to install a grating system anchored in the supporting

structure.

These processing instructions supplement the general Polyfin installation guidelines in their current version without replacing them.

Installation instructions

The tiles must be welded onto a separate Polyfin roofing membrane using hot air. This separate carrier membrane is in turn welded onto the Polyfin or Polyfin Duo roof waterproofing using hot air.

The seam areas must be welded onto the carrier membrane all around using hot air. Longitudinal and transverse seams can be created using the automatic welding machine. A distance of ≥ 4 cm must be maintained between the individual panels. It is recommended to leave an unwelded area (approx. 4 - 8 cm) in the seam on the side facing away from the slope to allow for vapor pressure equalization. Due to the effects of thermally induced length changes, the outside temperature should be at least $+10^{\circ}\text{C}$ during processing.

Tip: Store the panels in a conditioned environment so that they can assume the same temperature as possible

as the roofing membranes on which they are laid. This can tend to improve the flatness somewhat.

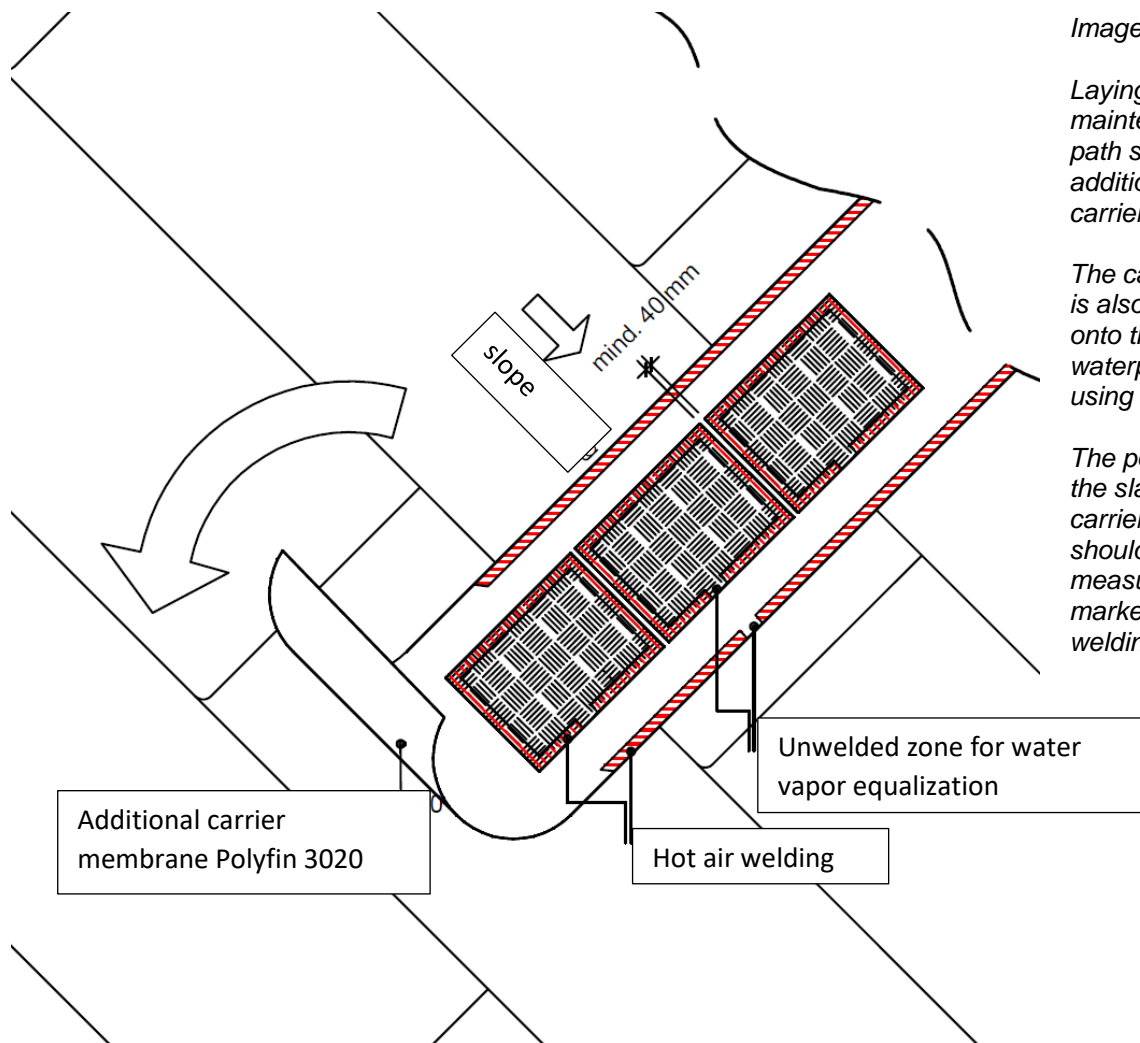


Image 01

Laying the maintenance path slabs on an additional Polyfin carrier strip.

The carrier strip is also welded onto the waterproofing using hot air.

The position of the slabs on the carrier strip should be measured and marked before welding.

Welding technology with automated machines; welding the tiles to the carrier membrane – photo gallery -



Image 02: Prepare two sheets of metal, approx. 20 cm x 12 cm, e.g., made of galvanized sheet metal. Mark lines parallel to the long edge at intervals of 5 cm..



Image 04: Positioning of the sheets between the tile and the carrier membrane.

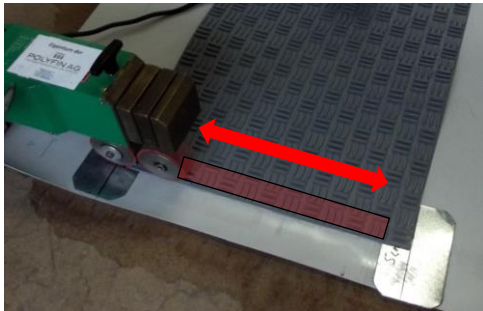


Image 05: First weld the cross seams of the plates with the automatic machine. The intermediate sheets leave an unwelded zone on the longitudinal edges

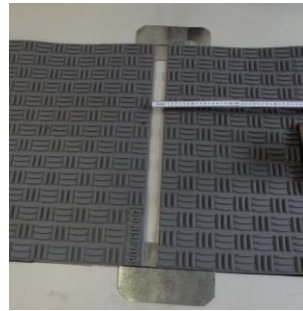


Image 06: Lay the next tile with a 4 cm gap and proceed in the same way. Weld all cross seams of the maintenance path in this way, step by step.

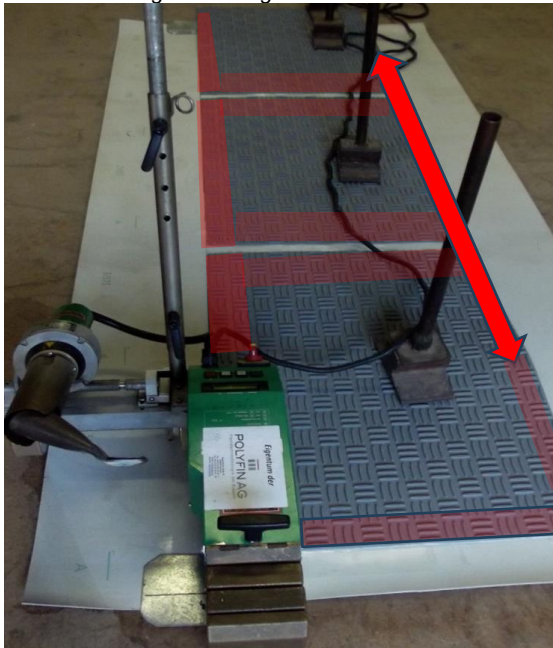


Image 07: „Weld through“ the longitudinal seams.

Not shown: Create a gap for vapor pressure equalization during welding by means of two sheet metal strips placed offset on top of each other on the side facing away from the slope.

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