

## 1. General information

**KRAITEC® step roof FPO** is a protective slab for walkways for maintenance, inspection and installation especially developed for use on flat roofs with FPO waterproofing membrane.

**KRAITEC® step roof FPO** features FPO non-woven cladding on the bottom as an integrated separating layer which can be directly hot-air welded on the FPO waterproofing membrane.

Installation and cut to size: see latest version of installation instructions of **KRAITEC® step roof FPO** slabs without FPO cladding.

To ensure exact and permanent welding to the FPO waterproofing membrane you need a hot-air gun.



## 2. Surface

The surface must be clean, dry and free of oil or other foreign materials and has to be checked for damages. Do not permit water accumulation on or under the mats, i.e. ensure adequate water drainage (at least 2% slope).

### Process temperature

The usual processing temperature should be over 5°C to prevent temperature-induced dimensional changes during installation.

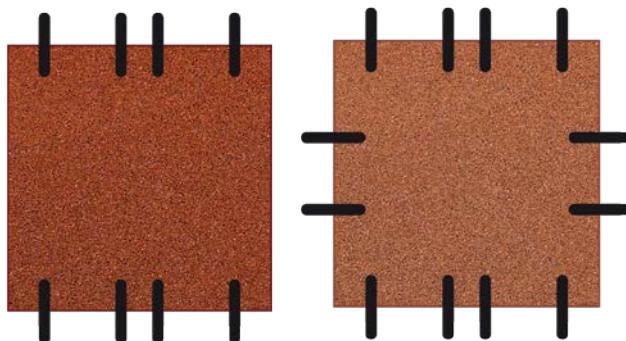
### 3. Practice

In general, walkways for maintenance, inspection and installation are laid in a one or two row configuration. Installation in cross-joint configuration which is incorrect when installing **KRAITEC® step** slabs is possible with **KRAITEC® step roof FPO** slabs due to additional support with FPO cladding.

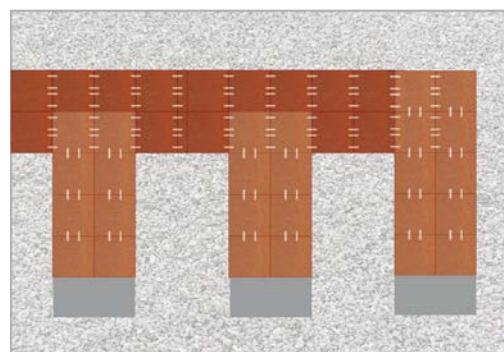
For walkways of 1.00 m width we recommend slabs with pre-drilled holes on 2 or 4 sides as shown in the illustrations below. The illustrations visualize the correct installation and the quantity of slabs needed for both types of slabs.

Please ensure the correct alignment of the holes during installation.

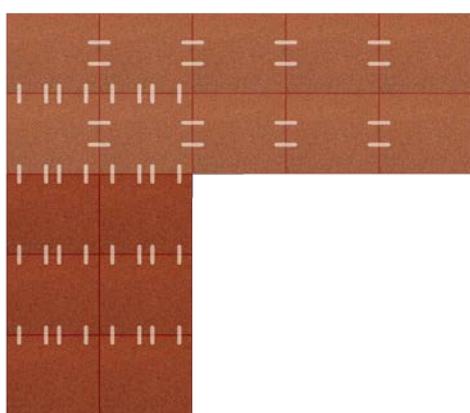
The different colour representation is provided for illustration purposes only.



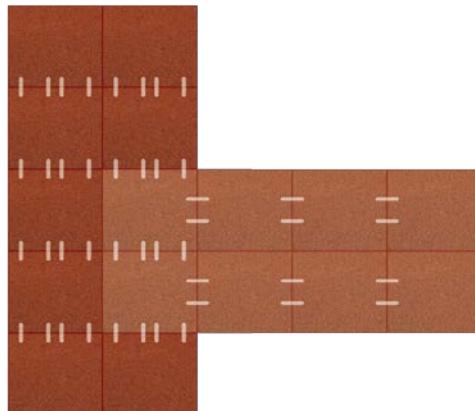
Graphic 1: Positions of the connector pins for slabs with pre-drilled holes on 2 and 4 sides.



Graphic 2: Required quantity for both Configurations



Graphic 3: Corner-joint for walkway 1 m width



Graphic 4: T-joint for walkway 1 m width

For branching off walkways slabs with pre-drilled holes on 4 sides are required.

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Page 2 from 3

#### 4. Cut to size

**KRAITEC® step roof FPO** slabs are easy to cut using a low-speed sabre saw (blade for wood/medium-sized teeth) or a carpet knife in conjunction with a steel straightedge. Make sure to support the slab with sufficient elevation on both sides of the cut. High-speed sabre saws or circular handsaws are unsuitable because of the FPO cladding on the lower side of **KRAITEC® step roof FPO**.



photo 5: Cut to size with a carpet knife

#### 5. Fixation

The slabs can be welded together with a hot-air gun point by point or in stripes. The welding method depends on the surface, the demands and the wind load zone. A large welding area means high resistance to wind loads.

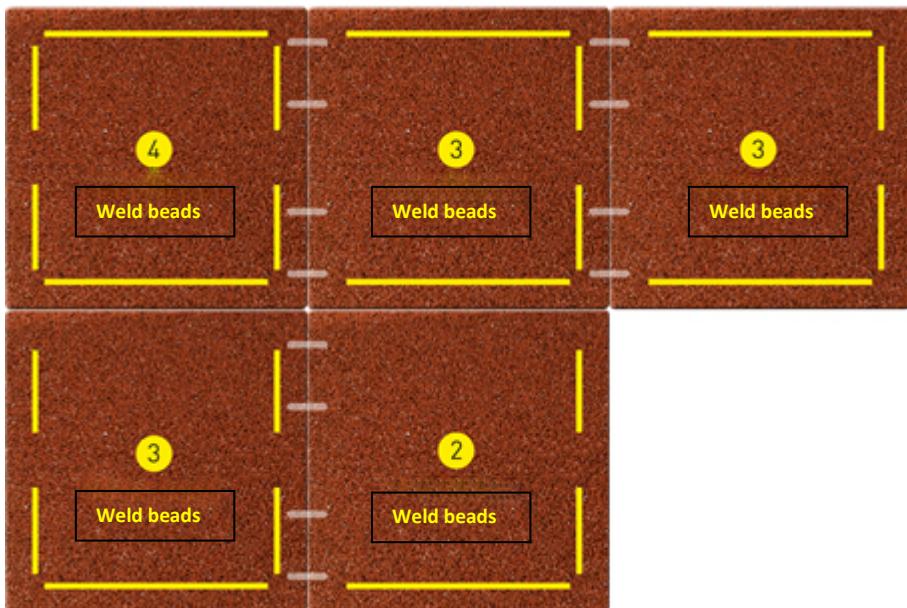
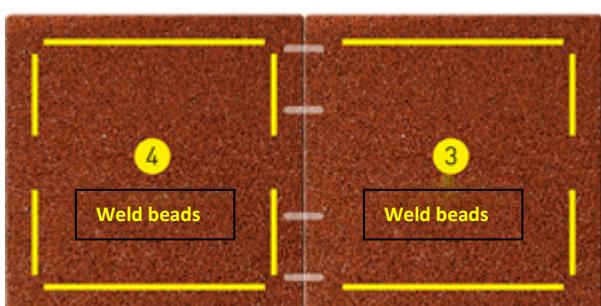
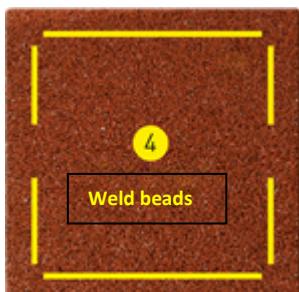
Please note: For roofs the standards of DIN EN 1991 part 1-4:2010-12 „Eurocode 1: Influences on supported structures – part 1-4: General influences – wind loads“ have to be considered.

**KRAITEC® step roof FPO** is an elastic surface slab, so the heating nozzle (wide slot nozzle 20 - 40mm, angle nozzle 20mm) can be slid easily between slab and FPO sealing membrane and welded together.

Please make sure not to bond or fill the drainage channels when hot-air welding.

Warning: Too high welding temperatures might cause damages to the roofing skin and the FPO cladding of the **KRAITEC® step roof FPO** slabs.

The recommended placements of the welding seams are shown in the following illustrations for single and double row installation.



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Page 4 from 3

## 6. Recommended cleaning procedures

**KRAITEC® step roof FPO** slabs can be cleaned with a soft-bristled broom or a floor cloth using a pH-neutral household cleaner.



Graphic 6: cleaning

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Page 5 from 3