MOUNTING PLATE, WATERPROOFING MEMBRANE ROOF

For installation of roof safety products on waterproofing membrane roofs, such as fiber reinforced bitumen-based waterproofing membrane with a bitumen welded joint. This instruction has separate parts for different roof solutions; pay attention to reading the manual thoroughly and choosing the correct installation method.

The mounting plate can also be installed mechanically (screw fastening). In this case, the strength requirements for the membranes do not need to be taken into account. These installation instructions show the principle of screw fastening.

MOUNTING PLATE, WELDED ON BITUMEN-BASED MEMBRANE

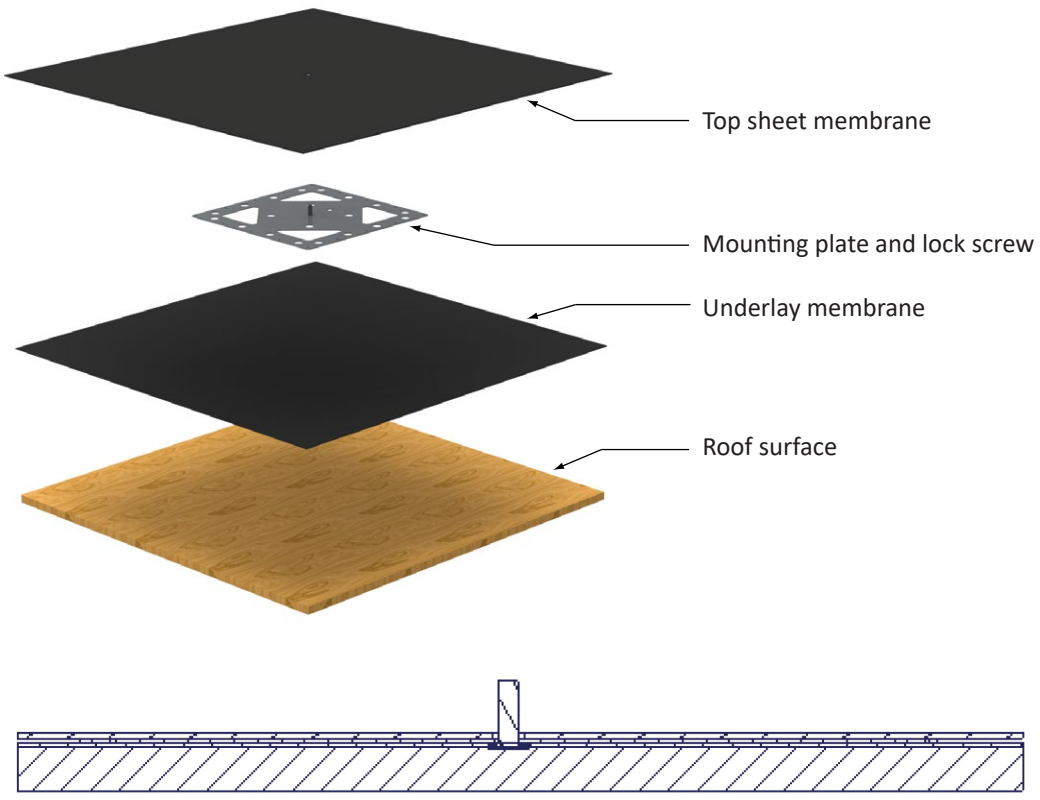
The bitumen membrane must be tested in accordance with EN 13707:2013 and satisfy the following requirements:

Tensile strength:	min. 750N/50 mm	EN 12311-1
Resistance to tearing:	min. 150N	EN 12310-1

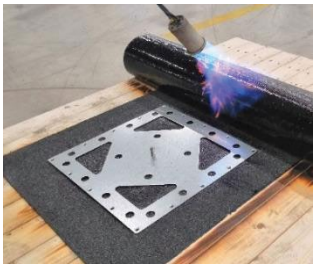
MOUNTING PLATE, WELDED ON PVC-BASED MEMBRANE

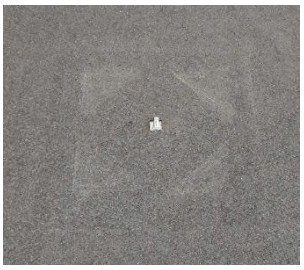
The PVC-based membrane must be tested in accordance with EN 13956 and satisfy the following requirements:

Tensile strength:	min. 1050N/50 mm	EN 12311-2
Resistance to tearing:	min. 210N /50 mm	EN 12310-2
Shear resistance of joints:	min. 1000N/50 mm	EN 12317-2
Peel resistance of joints:	min. 150N/50 mm	EN 12316-2



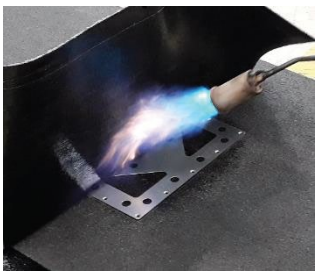
MOUNTING PLATE INSTALLED UNDER/IN BETWEEN THE BITUMEN MEMBRANES (RECOMMENDED METHOD)

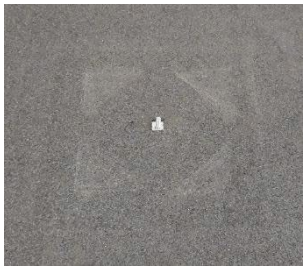





1. On multilayer bitumen roofs, the mounting plate may be installed between the suitable welded underlay membrane and the top membrane by otherwise following the steps in this instruction
2. If suitable underlay membrane is not present, cut a 1000 x 1000 mm piece of suitable top membrane
3. Weld the 1000 x 1000 mm piece to a desired place on the roof structure
4. Install the lock screw into the center hole of the mounting plate
5. Mark the desired place for the mounting plate on top of the bitumen membrane – if the installation is to be done on top of the 1000 x 1000 membrane piece, the plate should be installed in the middle of the piece
6. Heat the marked area (to a boiling point) and carefully place the mounting plate to a desired location
7. If the top membrane will not be installed directly after installing the mounting plate, secure the temporary fixing by using bitumen-based glue
8. Make a hole for the lock screw in the overlaying membrane
9. Completely weld the membrane over the mounting plate
10. If necessary, seal the hole for the lock screw with a bitumen-based material
11. Carefully inspect for a proper adhesion between the welded surfaces

MOUNTING PLATE INSTALLED ON TOP OF THE READY BITUMEN MEMBRANE (ALTERNATIVE METHOD)

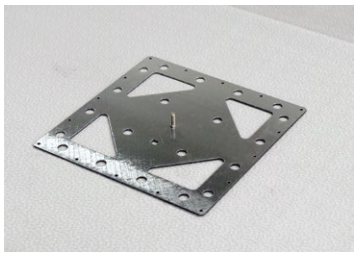



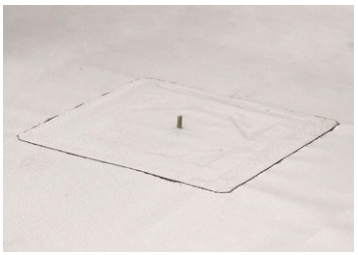


1. Mark the desired place for the mounting plate on top of the bitumen membrane
2. Install the lock screw into the center hole of the mounting plate
3. Heat the marked area (to a boiling point) and carefully place the mounting plate to a desired location
4. Cut a 1000 x 1000 mm piece of top membrane
5. Make a hole for the lock screw in the overlaying top membrane
6. Completely weld the piece of top membrane over the mounting plate
7. Seal the hole for the lock screw with a bitumen-based material (protect the threads of the bolt)
8. Carefully inspect for a proper adhesion between the welded surfaces

Install the desired bracket to the mounting plate according to the installation instructions for each product.

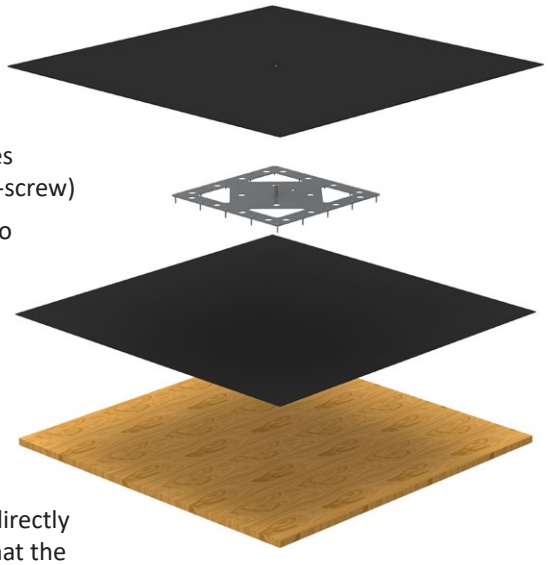
MOUNTING PLATE, WELDED ON PVC-BASED MEMBRANE



1. Install the lock screw into the center hole of the mounting plate
2. Place the mounting plate in the desired location
3. Cut a 500 mm x 500 mm piece of membrane
4. Make a hole for the lock screw in the cut piece
5. Weld the cut piece at the four attachment points and 50 mm around the entire mounting plate
6. Carefully inspect for a proper adhesion between the welded surfaces
7. Make sure that the hole for the lock screw is properly sealed

MOUNTING PLATE, INSTALLATION WITH SCREW FASTENING



1. Install the lock screw into the center hole of the mounting plate
2. Place the mounting plate in the desired location
3. Fix the mounting plate to the suitable substructure from each of its screw holes (16 pcs, 4,2x25 mm wood screw with completely flat head, e.g. Ruukki Classic -screw)
4. Install the waterproofing membrane on top of the mounting plate, according to the methods described in this instruction and by following the membrane manufacturer's instructions
5. Make sure that the finished installation is watertight

Tested substructure options:
- min. 20 mm full wooden boarding
- 15 mm OSB-board

NB. The fixing option with screws has been tested by placing the mounting plate directly on top of the substructure, without any waterproofing membranes. This means that the screws are enough to create the necessary strength. The waterproofing membranes shall be installed according to the manufacturer's instructions.

MAINTENANCE

Pisko products are hard-wearing and safe to use, guaranteed by the ongoing quality control and development work by Piristeel Ltd, as well as correct installation of the products according to the manufacturer's instructions. To ensure the reliability and safety of the products, the property owner must carry out yearly inspection and maintenance procedures and monitor that the installed products and the substructure (roof surface) surrounding the products are in good condition.

Check the tightness of joints, connections, fixings and attached devices. Especially pay attention to the waterproofing membrane around the mounts and take necessary actions to repair the membrane according to manufacturer's instructions, if needed. Carefully inspect for a proper adhesion and/or condition of the waterproofing membrane's surface around the mounts.

Check the roof attachments (fixings). Ensure any excessive snow load is cleared to minimize the strain on structures, fixed devices and attachment points (as necessary; there might be a need to do this several times during the winter).

As necessary, clear the attached devices of snow and ice. Check the paintwork and metal coating of the Pisko-products; repair faults and touch up paintwork if necessary. Replace or repair any damaged or faulty parts as soon as possible to avoid any hazards.