



Short manual for installation and transportation of bitumen membranes

Installation



1. The surface must be cleaned of dust, debris, grease, leaves and other items that can reduce the adhesion of the waterproofing material. In addition, the surface should be aligned, dry and should not have gaps and cracks or other irregularities.

It is forbidden to install bitumen roll material during rain or fog. Wet or damp waterproofing materials should never be used in the construction.



2. Surface must be properly prepared before installation of waterproofing material. For this purpose, it is recommended to use BITUMEN PRIME COATING or UNIVERSAL WATER BASED PRIMER, which improves the adhesion of roll material.

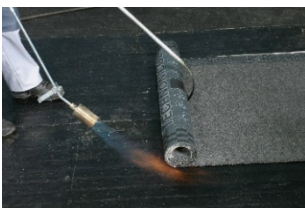


3. Before installation, the material has to be rolled out and aligned on a place where it is going to be installed. Roofer has to straighten all rolls and pay attention to lapping of adjacent membranes. The distance between different end laps of rolls should be at least 500 mm. Then the material has to be re-rolled tightly from both sides towards the center avoiding position changes of the membrane. Prepared material has to be torched-on from the center of the roll to both sides.



4. Roofer must pay special attention to correct positioning of rolls, both sides of which are covered by a polymer film.

At the bottom side TECHNOMICOL materials has special graphic indicators – logo and chess coloring, which will melt during the torching.

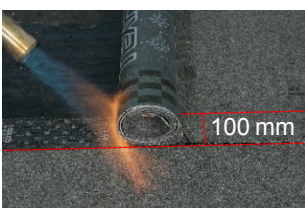


5. Roll materials are installed by heating the base and the bottom side of the material at the same time. A small bitumen flow indicates the proper material heating.

During this operation, roofer is recommended to walk on the roof surface in front of the material, not on the material to any foot damage on torched-on membrane, the rod is used to pull the roll.

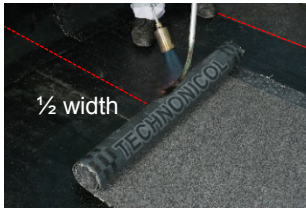


6. During the installation, material and base must be heated by torch on all width of the roll; the place of overlapping must be heated additionally. Graphic elements on the bottom of TECHNOMICOL's material are melting during the heating. If graphics becomes completely fused (surface is all black), the material is overheated. The material is heated properly when graphics is deformed, but visible. During the proper installation all surface of the material sticks to the base and bitumen is leaking on edges on around 5-10 mm.



7. The overlap along edges joint should be 100 mm. Recommended overlap for singlelayer application of bitumen membrane is 120 mm.

The overlap at sheet ends should not be less than 150 mm. The minimum length of rolled material that can be installed is 1 m.

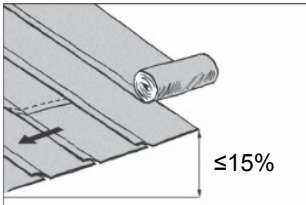


8. Cap sheet membrane should be positioned at a distance of min. 300 mm from overlaps of underlay membrane. Usually it is moved at a distance of 500 mm (50% of roll width).

The distance between different end laps of rolls should be at least 500 mm.



9. Roofer should remove coarse-grained slate in places of end laps of cap sheet membrane, because it significantly reduces adhesion of the material. The top side of the material (with slate) must be additionally heated by torch in places of such 9 overlays. Then the slate is pressed into bitumen by spatula.

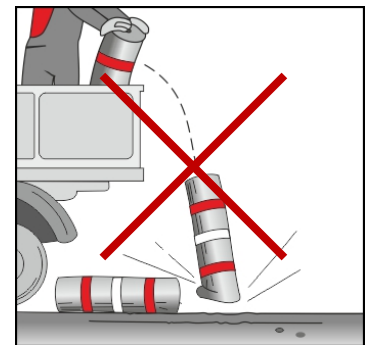
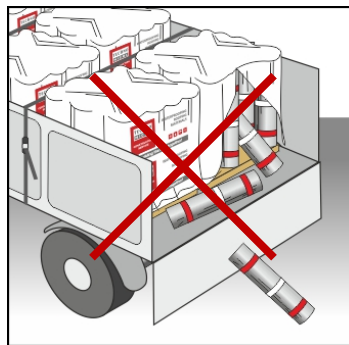


NOTE! On roofs, where a slope is less than 15%, sheets of roll material are rolled out perpendicularly to the water flow, if the slope is more than 15% – along the water flow.

Cap sheet membrane is installed in the same way as underlay membrane. It is forbidden to install roll materials in a crossway.

Transportation

- Rolls must be transported in closed vehicles in an upright position on a pallet in a 1-row height.
- Ropes should be used to fasten the pallet in order to avoid film damage.
- Roll's protective film should not be damaged during and after transportation.
- Avoid falls or other mechanical impacts during loading and unloading of rolls.



Storage

- Rolls should be stored upright on pallets in a 1-row height.
- Storage of rolls in a horizontal position is prohibited.
- Protect the rolls from direct UV-rays and moisture.
- Keep the minimum distance of 1 m from any heat source.

