

## TECHNOLOGY FOR APPLICATION OFF ROLL WATERPROOFING MATERIAL ON WOODEN SURFACE

Waterproofing covering on wooden surface is applied on the pitched roofs with minimum slope of 6%. The wooden surface is to be insulated must be covered with equal thickness boards tightly nailed. On that surface it is necessary to use a waterproofing sheet with non-woven polyester base. This type of material is sufficiently strong and elastic to take the loading in case of warped or cracked wooden material.

The first course of the waterproof layer is nailed on the wooden surface with large-head nails with overlaps respectively 80 mm in longitudinal and 150 mm in transversal direction. Nailing is carried out on the overlaps, the distance between the nails is 300 - 400 mm. This layer can be replaced with strips 300 mm wide, nailed in parallel in a way to be placed in the middle of the second layer of insulation or pieces sized 300 x 300 mm on each 1 m length of the sheet staggered on the wooden surface. In this case the bonding is carried out only on the place covered with first course.

The second layer is applied on that base by gas-flame bonding. This is the upper layer directly exposed to sunlight. It is recommended it to be protected with granules. The rules for overlaps are the same as described about the first course above using again polyester-based membrane. The sheet is heated until the polyethylene layer melts and the bituminous compound slightly softens. The overlaps must be trowelled to obtain water-tight joint.

- before the waterproofing application all accessories such as gutters, clamps, coats, air vents etc. must be installed;
- it is not necessary to apply bitumen primer on the wood;
- the protective plastic film do not have to be removed, it melts when heated by the torch;
- it is recommended material with weight over 3,5 kg/m<sup>2</sup> to be used as the second course;
- for roofs with greater slopes washers of waterproofing material under nail heads should be positioned;
- unbonded ends must not be repaired by flame-heating.