

## Purpose

Bituminous sheets are meant for the protection of building constructions and objects against the influence of ground water, rainfall or other water and moisture. The application of the particular sheets can be seen from the table.

## Description

The sheets are manufactured from quality bitumen with additions and carrier substances (reinforcements) that guarantee extraordinary physical and technological properties.

### The sheets differ from each other by:

- the quality of the bituminous coating (oxidised bitumen, plastomeric bitumen APP or elastomeric bitumen SBS)
- the kinds of carrier (reinforcements): card board, glass fibre fleece, woven glass fabric, polyester fleece (felt), metal foil (usually Al) or a combination of carriers (mostly glass fibre fleece and Al-foil)
- on the top the bitumen is coated with: fast melting PE film, fine mineral sand (talc), coarse mineral grit (siliceous sand), protecting slate chipping
- total thickness.

### Dimensions and packaging

The sheets have a standard width of 100 cm and a length of 7.5, 10, 20 and 25 m. They are coiled up in rolls that are packed in an upright position on wooden pallets and joined by thermo-shrink PE foil.

### Characteristics

- with a suitable way of installation and an appropriate number of layers we are able to achieve complete water impermeability, even under extreme high water or steam pressures
- resistance against low temperatures, as well as against high temperatures
- good flexibility and adaptability to moving surfaces (temperature changes, subsidence ...)
- high resistance against the ultraviolet part of the light spectrum
- resistance against ageing
- long lifetime
- easy installation
- easy later interventions, changes and repairs

**FRAGMAT** 

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## Storage and transport

The rolls are stored in an upright position, in covered rooms and it is necessary to shelter them against the direct influence of sun rays. The same instructions are valid for all manipulations with the rolls during transport. Storing or transport of one pallet on top of the other is not allowed.

During transport or storing manipulations at extreme low temperatures we have to take care that the tape-rolls are not exposed to blows or fall down. Uncoiling the rolls at extreme low temperatures is not allowed!

## Installation

The surface for a quality waterproofing has to be firm, smooth, without dust and clean.

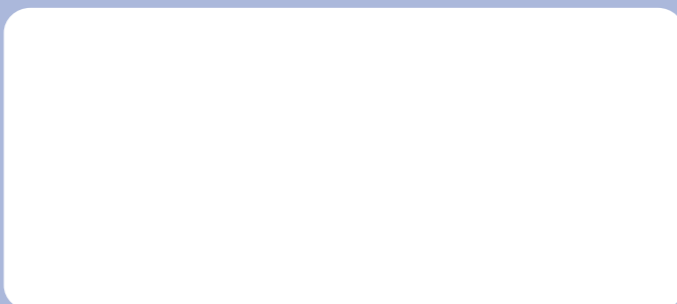
Waterproofing membranes are placed freely on the surface and bonded with cold applied bituminous bonding agent or a hot applied bituminous bonding agent as necessary, or affixed by nailing (nails with a wide nail head, clamps ...)

Torching applied sheets can be placed freely on the surface, torching or bonded at points, respectively torched or bonded across their whole surface. To achieve a strong and faultless connection of the sheets with the surface, they are specially prepared for torching and bonding by preliminary greasing with the cold applied bituminous primer IBITOL. We start torching only when this previous coating-primer is completely dry. If we install the sheets in transversal direction, we overlap them for 10 cm (minimum 8 cm) and in longitudinal direction for 15 cm (minimum 12 cm). At this we torched the overlapping especially carefully together. In multi-layer systems we place the upper layers in such a way that the overlappings do not coincide with the overlappings of the previous layer. The displacement in transversal direction should be half of the width of the sheet (50 cm), we recommend about the same displacement in longitudinal direction, if we want to prolong the sheets.

## Recommendations

The technical instructions in this leaflet are the fruit of our long-year experience and are given with the intention that our products are used correctly and therefore optimal results are achieved.

We do not take any responsibility for damage due to wrong choice of the product, improper use or bad workmanship.



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Waterproofing with bitumen sheets

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