



June 2012

## LDS 0.02

### Vapour permeable and waterproof foil

#### Product description

LDS 0.02 is a triple layer water insulation membrane. It is produced by heat -pressing the polypropylene unwoven fabric with diffuse film. The membrane is entirely recyclable. LDS 0.02 can be used as contact or no-contact vapour permeable under- roofing membrane in pitched roof structures with no wooden foundation. The structure of the membrane ensures very good waterproof conditions. Extreme vapour permeability ensures good ventilation and keeps the roof structure dry in all weather conditions. LDS 0.02 enables the diffusion of vapour from the structure and at the same time protects the structure from rain and snow. LDS 0.02 does not decay, it is mould and pest resistant and is not harmful for health. LDS 0.02 may be used in vertical wall structures as wind protection. It creates an enclosed system for thermal insulation which is protected from rain, snow, moist and dust.

#### Basic product standard

EN 13859-1

#### Documents

- EG – statement on compliance
- Report on classification of fireproof characteristics
- Report on the inspection of permeability of water vapour
- Report on water tightness

| Roll width | Roll length | Roll surface      | Roll weight | Roll packaging on a palette |
|------------|-------------|-------------------|-------------|-----------------------------|
| [m]        | [m]         | [m <sup>2</sup> ] | [kg]        | [roll]                      |
| 1,5        | 50          | 75                | 7.5         | 30                          |

## Knauf Insulation LDS 0.02

### Technical characteristics LDS 0.02

| Characteristics               | Standard                           | Units               | Nominal value |
|-------------------------------|------------------------------------|---------------------|---------------|
| Diffusion of water vapour(Sd) | EN 12572, EN 1931                  | [m]                 | 0.02          |
| Weight per m <sup>2</sup>     | EN 1849-2                          | [g/m <sup>2</sup> ] | 95            |
| Flammability                  | EN 13501, EN 11925-2               | [Class]             | E             |
| Resistance to tearing         | EN 12310-1, EN 13859-1, EN 13859-2 | [N]                 | 80/90         |
| Elongation                    | EN 12311-1, EN 13859-1, EN 13859-2 | [%]                 | 40 / 70       |
| Maximum strain                | EN 12311-1, EN 13859-1, EN 13859-2 | [N/50mm]            | 220/140       |
| Temperature resistance        | -                                  | [°C]                | -40 / +80     |

### Application

Before applying LDS 0.02 make sure that the surface to be covered is firmly fixed clean, dry and smooth. LDS 0.02 is placed directly on the rafters, is joined with non-rusting flathead nails or a stapler. The distance between the staves should not exceed 1m. The membrane is bonded to the structure with staves in the opposite direction, 25mm thick. The staves of under-cover are joined with staves placed in the opposite direction. The space between the membrane and the cover enables the water to flow over the membrane. In case se LDS 0.02 is used with chemically impregnated staves or counter staves, LDS 0.02 may be applied when the impregnation has been fully dried. LDS 0.02 is applied mildly tightened, flat with no creases. Overlaps should be reduced to minimum. Overlaps should be minimum 150mm wide. Overlaps should be bonded with LDS Solifit tape. Sealing of overlaps with PVC glue should be avoided. Attention should be paid that the openings for the ventilated layer are not closed or blocked.

### Packaging and storage

30 rolls can be placed on a palette and each roll is packaged in a PE plastic film. Rolls are stored in a horizontal position on a clean flat surface, not exposed to UV radiation.

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