



June 2012

## LDS 0.04 - Vapour permeable and waterproof foil self-adhesive

### Product description

LDS 0.04 contains of two layers of pressed polypropylene fabrics and micropermeable layer between the fabrics which makes the vapour permeable waterproof foil. Entirely recyclable. The upper surface of the foil is grey and the lower surface is white. Other customized alternatives are made upon request. Special design of LDS 0.04 foil provides exceptional resistance to rain water. Exceptionally high vapour permeability of water vapour keeps the roof structure dry and aired under all weather conditions. LDS 0.04 is a very worthy foil when used unfixed or fixed diffuse foundation in the structure of a pitched roofs. Materials for the production of LDS 0.04 is such that makes this foil convenient for covering wooden roof structures, and its awesome stretching features prevent easy tearing and reduce the risk of damaging from treading during application. No air layer is necessary between the LDS 0.04 and the thermal insulation or timber sarking foundation. LDS 0.04 does not decay; it is mould and pest resistant.

### 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	11.5	30

## Knauf Insulation LDS 0.04

### Technical characteristics of LDS 0.04

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> ]	150
Flammability	EN 13501, EN 11925-2	[Class]	E
Resistance to tearing	EN 12310-1, EN 13859-1,-2	[N]	165 / 190
Elongation	EN 12311-1, EN 13859-1,-2	[%]	45 / 80
Maximum strain	EN 12311-1, EN 13859-1,-2	[N/50mm]	310 / 215
Temperature resistance	-	[°C]	-40 / +80

### Application

Before applying LDS 0.04 you should ensure that the surface to be covered is firmly fixed

clean, dry and smooth. Applied LDS 0.04 is placed horizontally over the thermal insulation or rafters and fixed with non-rusting flathead nails or a stapler. The distance between the staves should not exceed 1,2m. Staves in the opposite direction, at least 25mm thick should be placed, and then they are placed on the foundation and are fixed to the rafters. Staves for the roof covering are fixed to the opposite staves leaving space for ventilation. LDS 0.04 is applied mildly tightened, flat with no creases. Overlaps should be reduced to minimum, by using entire rolls of foil.

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.

### Knauf Insulation d.o.o.

Batajnicki drum 16b,  
11080 Belgrade, Serbia  
Tel.: +381 (11) 3310 800,  
Fax: +381 (11) 3310 802,  
email: office.belgrade@knaufinsulation.com