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Homeseal LDS 5 Silk Vapour barrier

made of polypropylene woven voile, highly resistant to tearing

Product description

LDS 5 Silk functions as a layer for control of water vapour under the thermal insulation. Its partial vapour permeability ($S_d=5m$) enables controlled water vapour passage through the structure. Only a small amount of vapour may pass through LDS 5 Silk.

LDS 5 Silk may be applied in structures of pitched roofs, attics, in vertical wall structures, as well as in insulated ceilings. By using LDS 5 Silk underneath the thermal insulation in combination with vapour permeable waterproof foil on the outside, spontaneous occurrence of vapour, condensation inside the thermal insulation is prevented; therefore the function of thermal insulation is preserved. LDS 5 Silk provides comfortable living.

Roll width	Roll length	Roll surface	Roll weight	Roll packaging on a palette
[m]	[m]	[m ²]	[kg]	[roll]
1,5	50	75	9.5	30

Basic product standard

EN 13984

Documents

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

Knauf Insulation LDS 5 Silk

Technical characteristics of LDS 5 Silk

Characteristics	Standard	Units	Nominal value
Diffusion of water vapour(Sd)	EN 1931	[m]	5
Thickness	EN 1849-2	[mm]	0.32
Weight per m ²	EN 1849-2	[g/m ²]	120
Flammability	EN 13501, EN 11925-2	[Class]	E
Resistance to tearing	EN 12310-2, EN 13859-1	[N]	>100 / >110
Elongation	EN 12311-2, EN 13859-1	[%]	>40 / >40
Maximum strain	EN 12311-2, EN 13859-1	[N/50mm]	>150 / >130
Temperature resistance	-	[°C]	-40 / +80

Application

LDS 5 Silk is applied parallel or transversal to the rafter, directly underneath the thermal insulation. All overlaps are sealed with LDS Solifit tape. All damages due to handling, such as holes on the foil are also fixed with the tape. This sealing ensures it to be vapour and air proof, which is important for the prevention of moist penetrating into the thermal insulation.

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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