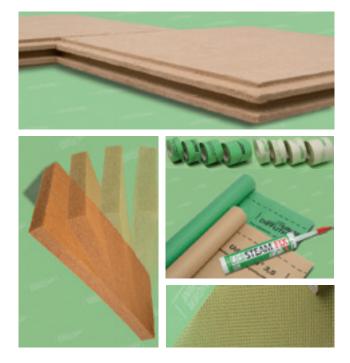




Udi**TOP**[®] system

The full service for your roof and your timber façade





The *Ud*/**TOP**[®] **system** is a perfect cold and heat-shielding insulation element; specially developed for all roof constructions, whether old or new. The *Ud*/**TOP**[®] and *Ud*/**TOP**[®] **Premium** sark boards form the basis of UNGER-DIFFUTHERM's tried and tested, Building Inspectorate approved, insulation systems for roof and façade areas. The highly efficient wood-fibre boards are produced using a wet-manufacturing

process. The sandwich-layer construction of the boards is complemented and optimised by our specially designed *Udi***STEAM**[®] **Air and Wind-Proof System**, which includes a whole range of sealant tapes and system components. To insulate the voids between rafters, UNGER-DIFFUTHERM has developed a flexible wood-fibre insulation: *Udi***FLEX**[®], which is available in thicknesses from 40 to 240 mm.

Our products offer comprehensive protection for every house: Heat-shielding on summer days and the best possible insulation on cold winter days provide you with a comfortable room climate all year round. Negative effects such as the build-up of condensation are eliminated due to its excellent construction-related characteristics.

If required, the *Udi***PROTECT**[®] **system**, which combats electro-smog, can be installed as an external layer to protect against harmful radiation.

Properties:

- → Decisive improvements in the quality of new and existing roof structures through improved soundproofing, summer heat shielding and thermal insulation against the cold
- ➔ Uniform, quality-controlled, insulation materials which conform to official standards
- ➔ Building Inspectorate approved, wood-fibre, thermal insulation made from soft-wood fibres without artificial binders
- → Universally applicable for rear-ventilated roofs and façade constructions
- → The durable tongue-and-groove profile around the entire circumference ensures the boards are wind-proof and rainwater-proof for roof slopes ≥ 20°
- → Quick and simple to install, kind to the skin and posing no dangers to health
- ➔ Highly vapour-permeable for optimised roof insulation solutions providing protection from the wind, dust, heat, moisture, cold and noise pollution
- ➔ The excellent thermal insulation saves energy and reduces costs
- → Ecological, environmentally-friendly, recyclable

Technical Data UdiTOP[®] SYSTEM

Parameter	Classification/Value	
	<i>Udi</i> TOP [®]	<i>Udi</i> TOP [®] Premium
Description DIN EN 13 171	EN 13 171 WF -	EN 13171 – T4 – DS(70,-)2
	-CS(10/Y)100 - 1	rr30 – WS 1,0 – AF 100
Declared value of thermal		
conductivity λ_{D} DIN EN 13171	0.049	0.048/0.046 W/mK
Fire behaviour class DIN EN 13501-1	E	E
Apparent density EN 1602	approx. 270	approx. 240 kg/m ³
Tensile strength	30 kPa	10 kPa
Compressive strength	200 kPa	100 kPa
Water vapour diffusion resistance		
coefficient EN 12667 µ	5	5
Specific enthalpy capacity c		
DIN EN ISO 10456	2100 J/kg K	2100 J/kg K
Components Wood fibres Binding agents		

030105/ 170201

Wood fibres, Binding agents Waste Code EWC-Code

Manufacture and monitoring as per DIN EN 13 171 and BAZ Z-23.15-1625



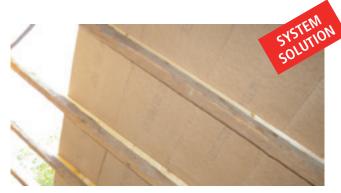


Thicknesses: *Udi***TOP**[®]: 22, 35, 52, 60 mm *Udi***TOP**[®]**Premium**: 60, 80, 100 + 120 mm

Available in the formats: *Udi***TOP**[®]: 248 x 58.5 cm for 22 mm; 247.7 x 57.7 cm for 35 to 60 mm *Udi***TOP[®] Premium**: 188 x 60 cm for 60 to 120 mm







Application: Full-surface, wind-tight, **sark boards** in accordance with the new European standard DIN EN 14964 and the German Roofing Industry Association standards.

The water-repellent, wood-fibre boards *Udi***TOP**[®] and *Udi***TOP**[®] **Premium** are increasingly being employed in the construction of roofs and for decades have been regarded as a superior alternative to standard underlays. In addition to their excellent insulating properties, the boards provide an extra layer for the drainage of rain-water beneath the top covering of sloped roofs. The thermal protection of the roof is significantly improved by the additional, thermal-bridge-free, insulating layer. By combining the product with our flexible *Udi***FLEX**[®] inter-rafter insulation boards, which now have even better U-values, the insulating properties of the whole roof can be further improved.

To increase the thermal protection of the roof even more an additional, over-rafter, layer of insulation can be installed in combination with *Udi***TOP**[®] and *Udi***TOP**[®] **Premium**. This range of options highlights the flexibility of wood-fibre insulation. *Udi***TOP**[®] is thoroughly treated with a water impermeable impregnation. By *Udi***TOP**[®] **Premium** only the upper insulation layer is water-repellent. This stable and high quality, interlocking, wood-fibre insulation product is used as a sark board for the exterior cladding of rear-ventilated roofs and for exterior wall constructions. These applications have been certified by the German Roofing Industry Association. *Udi***TOP**[®] and *Udi***TOP**[®] **Premium** can be employed as a temporary weather-proof layer or emergency roof for up to 12 weeks. Please take into consideration snow loads during the installation period.

Application areas

For the external cladding of timber-frame constructions; for use with solid timber elements; on masonry walls behind the curtain walls of rear-ventilated façades and as a full-surface insulation between rafters in accordance with DIN 4108 -10 DIdm, WABdm





Application: The external cladding of rear-ventilated façades directly onto timber-frame constructions; for use with solid timber elements and on masonry walls behind the curtain walls.

The specially treated *Udi***TOP**[®] and *Udi***TOP**[®] **Premium** can be laid directly onto masonry or timber constructions to provide an external insulating layer and then façade battens can be applied for the construction of a rear-ventilated external covering. Weather boards, slates or metal sheeting, among others, can be used as an alternative to a classical external thermal insulation composite (ETIC) system. A clear benefit of the system is that the insulating layer is not interrupted by construction battens as is necessary with soft types of insulation. This means that significantly better mean U-values are achieved. In addition, this insulation system improves the level of sound-proofing and heat-shielding - even for solid masonry walls. The boards are initially affixed to the masonry using *Udi***ASSEMBLY**[®] Insulation fixings. After installing the façade battens, the boards are finally affixed using approved frame anchors and securing screws.



OUR SYSTEM RANGE:

UdiCLIMATE[®] SYSTEM

The interior insulation system with integrated climate chambers

UdiSTONE[®] system Ecological insulation blocks for partition wall construction

Udi**FLEX**[®] SYSTEM

Flexible planning with a flexible insulation to meet the highest of demands

Udi**TOP**[®]system The complete program for your roof

UdiSTEP[®]system Wood-fibre, floor insulation

For external walls:

UdiRECO[®]system External thermal insulation composite system with intelligent levelling compensation

UdiFRONT[®] system External thermal insulation composite system with a 15 year guarantee

UdiSPEED[®] system The efficient insulation system for pre-fabricated, timber-frame buildings

For interior insulation:

UdilN[®]system Interior insulation system with a 15 year guarantee

UdiIN RECO[®] SYSTEM

The interior insulation system – specially designed for uneven surfaces

UdiIN 2CM[®]SYSTEM

The quick and slim internal insulation system

Our specialist merchants are always happy to advise you:



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