

## DELTA<sup>®</sup>-MAXX TITAN Thermomembrane

**Warm in winter!  
Cool in summer!**

Reduces heat-energy consumption by up to 9%.  
Reflects radiant heat up to 50%.  
Ensures a comfortable climate in attics at  
all times.



■ Roofing  
membrane

■ For fully  
insulated  
pitched roofs  
and facades

■ **New**  
construction  
refurbishment

**A perfect solution all the year round?  
DELTA® System – Always the right choice!**

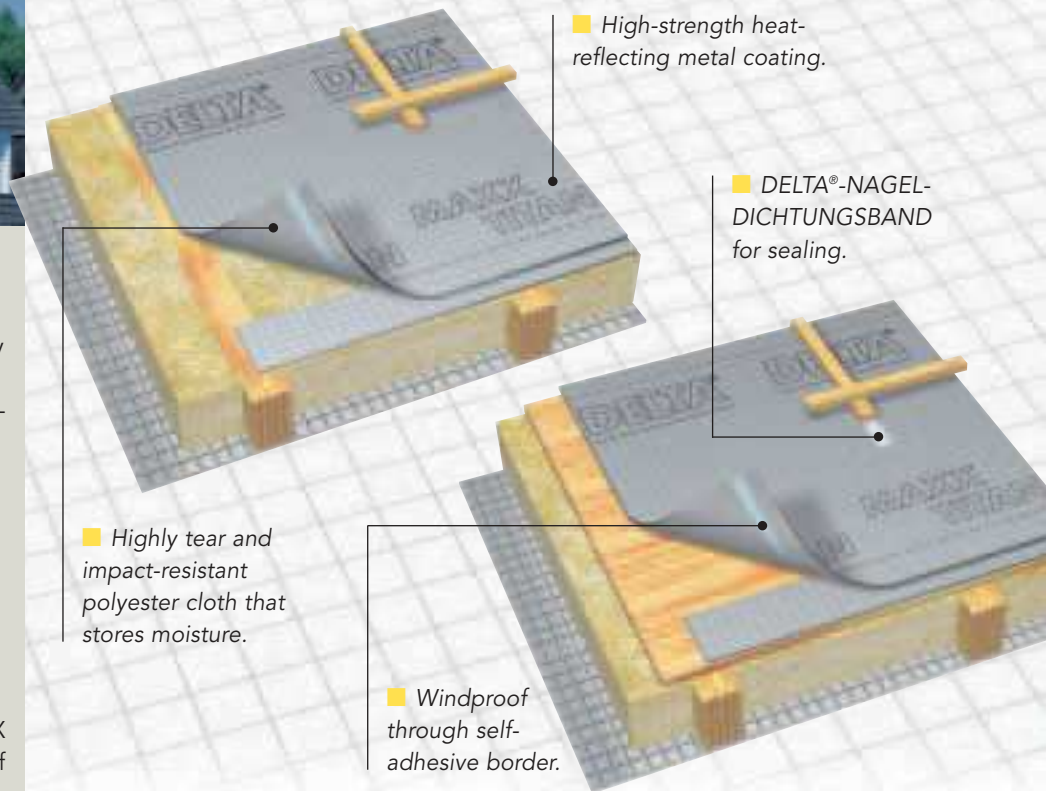
**Don't allow heat to get under the roof in the first place:**

# DELTA®-MAXX TITAN

## Breathable thermomembrane.



**DELTA®-MAXX TITAN for waterproofing and soft sheathing.**



■ High-strength heat-reflecting metal coating.

■ DELTA®-NAGEL-DICHTUNGSBAND for sealing.

■ Highly tear and impact-resistant polyester cloth that stores moisture.

■ Windproof through self-adhesive border.

■ **Outside (summer):  
DELTA®-MAXX TITAN**

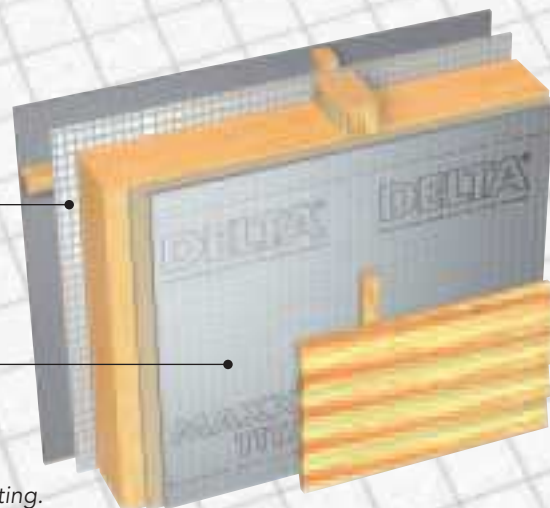
When temperatures are high, attics may very quickly grow uncomfortably hot as the heat protection afforded by conventional building products is often inadequate. DELTA®-MAXX TITAN reflects radiant heat, keeping the interior comfortably cool and markedly improving living quality.

■ **Outside (winter):  
DELTA®-MAXX TITAN**

The adhesive overlaps of DELTA®-MAXX TITAN act like the overlapping zipper of a wind cheater, putting an end to the considerable loss of energy caused by cold outside air flowing into the interior.

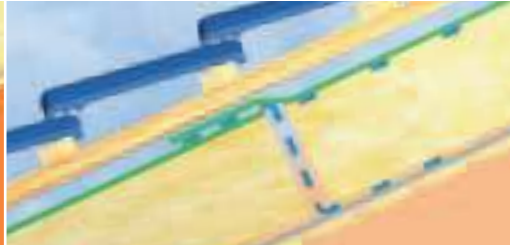
■ **Inside:  
DELTA®-REFLEX/DELTA®-REFLEX PLUS**  
Vapour barrier sheet. Provides 10 % increase in thermal insulation, 50 % heat reflection, 100 % barrier against air and vapour.

**DELTA®-MAXX TITAN for outer-wall insulation.**



■ Waterproof breathable PU coating.

DELTA® quality branded products made by Dörken.



Without protection, heat will penetrate underneath the roof.

Without bonding, cold will penetrate into the attic.

Complete climate control.

# AN

## Reduces heat-energy consumption by up to 9%.

### DELTA®-MAXX TITAN ...

- ... is a breathable, water and wind-proof thermomembrane offering heat protection all the year round.
- ... lowers air exchange rates and, consequently, heat-energy consumption by up to 30% and 9%, respectively.
- ... reflects up to 50% radiant heat.
- ... may lower attic temperatures on a hot day by as much as 2°C compared to buildings equipped with conventional, non-reflecting waterproofing sheets. Actual temperature reduction depends, among other conditions, on the room volume, the inclination of the roof, the roofing material, the orientation of the building, the size of the windows, and the thickness of the insulation material.
- ... is based on DELTA®-MAXX with a proven record of reliability over more than 15 years.
- ... features a moisture-accumulation layer: In extreme situations, the underside of the thermomembrane may absorb up to 1l of moisture per m<sup>2</sup>, to be gradually released outward later.
- ... is a particularly safe medium for transporting moisture generated by interior uses because of its high vapour permeability (S<sub>d</sub> value approx. 0.19m).
- ... cannot be penetrated by feet when ladders are used (German BG-certified fall-through safety).



DELTA®-MAXX TITAN offers year-round heat protection and lowers the air exchange rate.



### Why not profit from the DELTA®System?

#### Outside ...

... year-round heat protection by DELTA®-MAXX TITAN, our breathable, highly tear-resistant thermomembrane which ensures a markedly more agreeable living climate thanks to its outstanding advantages over conventional roofing products.

#### Inside ...

... a DELTA®-REFLEX air and vapour barrier; as DELTA®-REFLEX PLUS with integrated self-adhesive border. An energy-saving sheet made of rugged, highly flexible 4-ply material. Reflects heat and saves on heating costs. Provides protection from electrical smog.



Needless to say, we have a range of perfect accessories, of which you find additional information on the next page.

# DELTA®-MAXX TITAN

## Technical Data Overview:

Material	Highly tear-resistant polyester felt with a vapour permeable polyurethane coating, a heat-reflecting surface, and a self-adhesive border.
Application	For fully-insulated pitched roofs and outer-wall protection.
Fire resistance	Class E (EN 13501-1)
Tensile strength	approx. 450/300 N/5 cm (EN 12311-1+2)
Watertightness	Watertight W 1 (EN 13859-1+2)
S <sub>d</sub> value	approx. 0.19 m
Service temperature range	-40 °C to +80 °C
Weight	approx. 180 g/m <sup>2</sup>
Roll weight	approx. 13 kg
Roll size	50 m x 1.5 m

Due to variable weather and UV conditions we recommend the efficient covering of our sheets.

# DELTA®-Accessories for DELTA®-MAXX TITAN.

Dörken makes your life easier – systematically.

You are sure to appreciate these handy DELTA®-Accessories:



## DELTA®-MULTI-BAND

All-round adhesive tape featuring top adhesion. For all DELTA® sheets for interior and exterior application, particularly for sealing overlaps and openings and repairing tears.

## DELTA®-THAN

Permanently elastic sealing compound for fixing and seam jointing of DELTA® sheet products. Also can be used to secure connections.

## DELTA®-FLEXX-BAND

Stretchable sealing tape for inner and outer connections to structural details such as skylights, dormer windows, ventilator exhaust pipes, cables etc.

# DELTA®



## DELTA® System ...

### ... for owners:

" ... What I get is a mature problem solution provided at a fair price by the top specialist in quality branded products!"

### ... for workers:

" ... What I get is a complete system made by a single manufacturer that enables me to do anything to the owner's entire satisfaction. There is no safer way!"

### ... for planners:

" ... I can be certain that both innovative and standard products will be used in implementing my roof and cellar plans in a systematic and forward-looking way."



Dörken GmbH & Co. KG  
Wetterstraße 58  
D-58313 Herdecke  
Tel.: +49 23 30/63-0  
Fax: +49 23 30/63-355  
bvf@doerken.de  
www.doerken.de

A company of the Dörken Group.

■ **Standard requests for tender and detailed installation instructions** for all DELTA® products may be obtained from [www.doerken.de](http://www.doerken.de) as PDF files for you to print out and save.