

MEMBRANE TECHNOLOGY

A shell garment's most important weapon in the fight against wind and weather is the membrane fitted on the inside of the outer shell. This makes the garment waterproof, windproof and breathable. Modern shell clothing is mainly available with two types of membrane: hydrophilic and microporous. We use the following membranes: Dermizax®NX, Dermizax®, Bergans Element Active® and Bergans Element®. All of these are hydrophilic!

New

Vengetind Jacket

1366 Men ■ ■
1367 Women ■ ■
Shell. 3-layer Dermizax®NX

Skingoby



Dermizax®NX.

Dermizax® NX. Provides maximum protection during particularly demanding activities and weather conditions. The wicking ability is twice as high as for traditional membranes (30,000-50,000 g/m²/24h for 2-layer Dermizax®). Despite this, Dermizax®NX membrane maintains the same high waterproofness that Dermizax® is renowned for (minimum 20,000 millimeters).

This is the ultimate fabric for those who want a waterproof garment with the best breathability on the market as well as extremely good freedom of movement that is ideal for active use.



DERMIZAX® OG DERMIZAX®NX

- More than 200% elasticity!
- Regulates temperature.
- Durable function.
- Easy maintenance.
- Totally waterproof.
- High wicking ability.
- Continuous development.
- No impregnation needed.



BERGANS ELEMENT® OG ELEMENT ACTIVE®

Is Bergans of Norway's proprietary membranes. These are highly flexible and robust membranes that:

- Always are wind and waterproof
 - Retains its waterproofing and breathability over time
- Has wicking abilities
 - Is washable like other textiles

Dermizax®, Bergans Element® and Bergans Element Active®

WHAT IS DERMIZAX®?

Dermizax® is a waterproof, windproof, and wicking membrane that is specially developed to provide protection against all kinds of weather while remaining as comfortable as possible. Dermizax® membrane is a hydrophilic material that utilizes moving molecules, as opposed to most other membranes which have micropores. This offers a number of advantages and makes Dermizax® shell clothing the very best on the market thanks to its high performance and superior durability.

BERGANS ELEMENT®

Bergans Element® membrane is intended for moderate-intensity activity, and is specially designed for our Lifestyle & Travel collection. This collection is made up of everyday garments with technical features to withstand Scandinavian winter weather conditions. Bergans Element® membrane withstands a water column of at least 5,000 mm and has wicking abilities at least 5,000 g/m²/24. Any seam in a garment poses a risk of leakage. In garments with Bergans Element® membrane seams are completely or partially sealed with tape. The degree of taping is determined by what kind of use the product is developed for.

ELEMENT ACTIVE®

Bergans Element Active®-membrane are designed for moderate- to high-intensity activity in extreme weather conditions. Bergans rates 5,000 mm as the lower limit for a garment to be termed waterproof. Garments featuring a Bergans Element Active® membrane withstand a water column of at least 10,000 mm and has wicking abilities at least 10,000 g/m²/24. Any seam in a garment poses a risk of leakage. For this reason, all seams in garments featuring Bergans Element Active® are sealed by tape. This guarantees full waterproofing of the product.

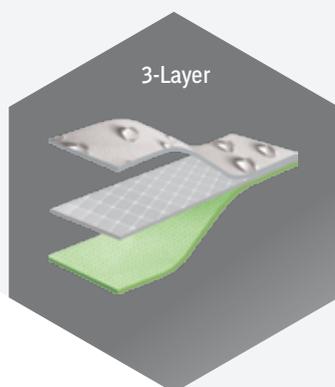
Waterproof shell clothing is often divided into three different groups according to quality:

3-LAYER: Consists of three layers that have been laminated together to make one fabric. The outer layer is made from water-repellent microfiber. The membrane in the middle ensures that the garment is waterproof and wicking. The inner layer, closest to the body, consists of mesh lining that protects the membrane and provides extra durability.

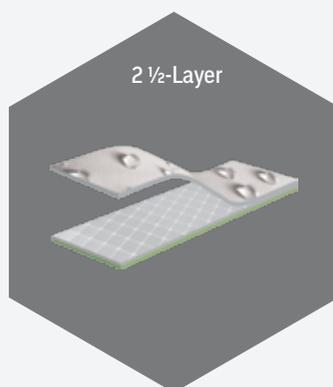
2 ½-LAYER: Garments made from this material are principally characterized by being very lightweight and offering minimal packing volume, as well as being windproof and waterproof. The mesh lining is replaced by surface treatment on the inside of the membrane. The superior durability of our other 3-layer fabrics is not achieved, but superlight shell clothing is not intended for daily use.

2-LAYER: Consists of two layers that have been laminated together to make one fabric – an outer fabric in microfibre and the membrane. It also has loose mesh lining next to the body. This lining wicks moisture away from the body, protecting the membrane and retaining body heat. Since garments made from 2-layer fabric have a loose lining, they often feel warmer than 3-layer fabric.

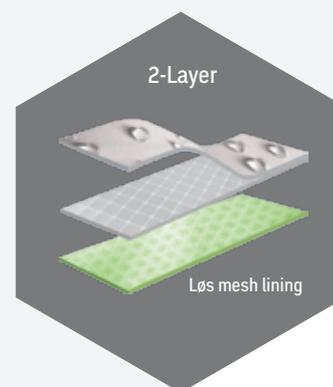
What they all have in common is that the membrane is laminated onto the outer fabric.



Outer fabric
+ Dermizax®/Bergans Element®/
Bergans Element Active®
+ Mesh
= 3-layer fabric
(laminated to make one layer of fabric)



Outer fabric
+ Dermizax®/Bergans Element®/
Bergans Element Active®
with surface treatment
= 2 ½-layer fabric
(laminated to make one layer of fabric)



Outer fabric
+ Dermizax®/Bergans Element®/
Bergans Element Active®
= 2-layer fabric
(laminated to make one layer of fabric)