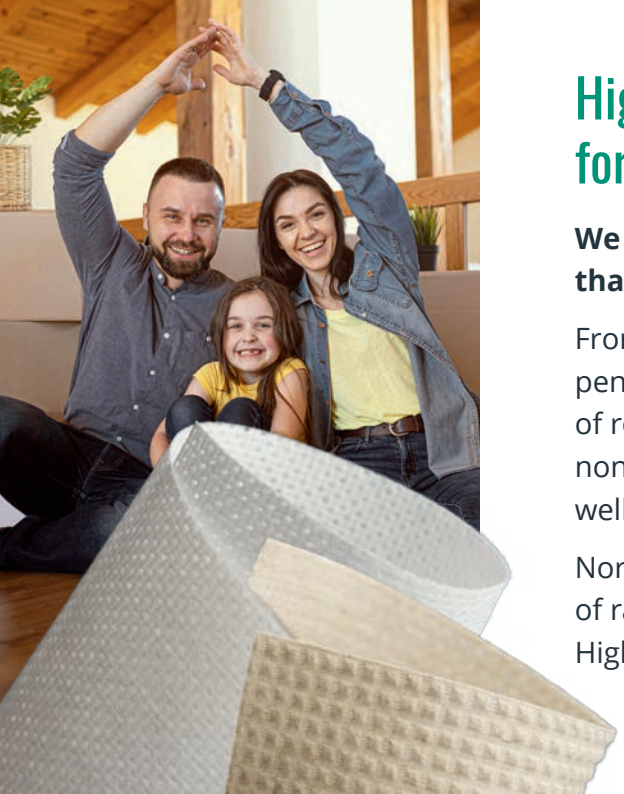
PERFORMANCE LINE

Norafin®

materials for life

POWERFUL Materials



High-performance Products for People and the Environment

We are specialists in durable and flexible nonwoven solutions that are successfully used in a variety of ways in everyday life.

From construction of the roof and interior walls to high liquid penetration in the building area, sound insulation, and design of rooms to water storage in the garden area, our technical nonwovens play an important role in positively influencing well-being in buildings and outdoor areas.

Norafin develops innovative, specific solutions from a variety of raw materials for today and the future.
High-performance products for people and the environment.

Nonwovens in the Building Sector

From the roof to the basement – in the construction sector, it is particularly important to use materials that can withstand a wide range of requirements. We process different synthetic and natural fibers. Depending on the requirements, these are processed into durable and multifunctional nonwovens.

FIELDS OF APPLICATION:

- flat roof renovation
- structural waterproofing
- water-storing and conducting nonwovens for green roofs and green facades, geotextiles
- impact sound insulation
- ceiling cladding

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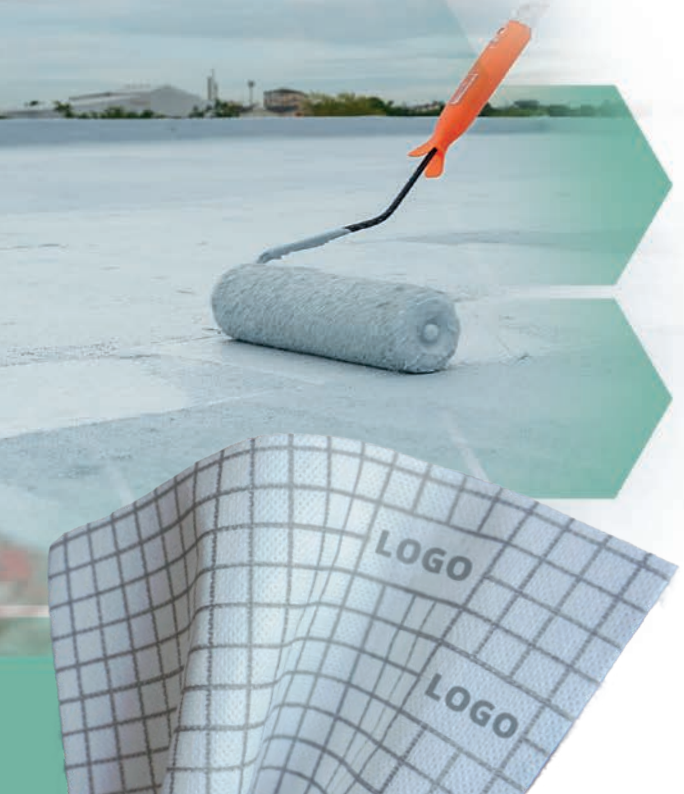


Effective Nonwovens for Waterproofing & Renovation

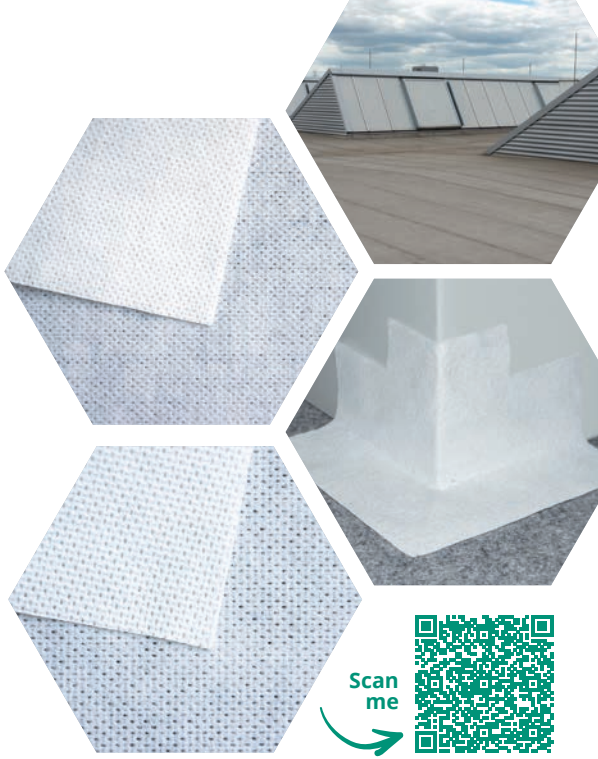
Our reliable polyester nonwovens for building renovations are equipped with important properties such as temperature and UV light resistance, fire behavior, and resistance to driving rain, as well as diffusion openness.
Our nonwovens are also ideal for waterproofing flat roofs. We recommend our hydroentangled nonwovens with a perforated structure, especially when working with liquid plastic. They accelerate absorption and prevent bubble formation, allowing outgassing to escape immediately.

- **weatherproof, breathable, durable**
- **homogeneous surface structure, very well drapeable**
- **chemical and solvent resistant, long-life**
- **weights between 30 gsm and 1,000 gsm**

PRODUCTS

Our nonwovens listed here have been developed with ETAG005 in mind. They meet the minimum shelf life of 60 years.

100 % POLYESTER	PET110 CA 01696.99	PET110 FA 02023.99	PET160 FA 02251.99
Thickness (mm)	1.1 (+/-0.15)	1.1 (+/-0.15)	1.3 (+/-0.15)
Structur	coarse apertured	fine apertured	fine apertured
Bending strength MD (N/5cm)	>320	>310	>400
Bending strength CD (N/5cm)	>180	>180	>250
Elongation MD/CD (%)	70 / 110	100 / 70	60 / 80
	✓ alkali resistance ✓ very fast penetration with a strong hold ✓ optimal for compensating for unevenness	✓ alkali resistance ✓ strength in all directions ✓ optimized for particularly smooth surfaces	✓ particularly appropriated for flat-roofing application using PU & PMMA liquid plastics in flat areas and corners



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The mark of responsible forestry

FSC™ C140662

Nonwoven fabric concepts for interior design made from wood- and plant-based fibers

Norafin is a pioneer in the successful processing of flax fibers into a tear-resistant and durable nonwoven based on biodegradable fibers[1]. Our flax nonwoven can be used as base material for a wide variety of applications in interior design concepts, preferably as wallpaper, which can also be printed.

[1] LENZING Lyocell™ and LENZING Viscose™ fibers for nonwoven applications OK Compost according TÜV Austria: Biodegradable soil for spunlace and needle-punch nonwovens; Compostable home for spunlace nonwovens with maximum nominal grammage 62 g/m² (55 g/m² for viscose); Industrial compostable for needlepunch nonwovens with maximum nominal grammage 56 g/m² (54 g/m² for viscose) and for spunlace nonwovens with maximum nominal grammage 62 g/m² (55 g/m² for viscose).

FIELDS OF APPLICATION:

- wall covering
- ceiling panels
- room dividers
- acoustic panels

Base Material for Wall Covering

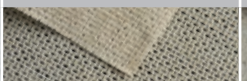
As base layer, our nonwoven fabrics made from flax and lyocell can be printed with aqueous pigment inks or UV-LED inks using rotary or digital printing. In addition, MIMAKI's waterless Transfer Pigment System (TRAPIS) delivers brilliant colors on our natural fiber materials.

- more tear-resistant in comparison to conventional wallpaper
- supports a good and natural indoor climate
- made from biodegradable fibers[2]
- humidity regulating
- sound absorbing and breathable
- an even surface structure
- UV resistant
- chemical free strengthening process

[2] Various LENZING™ Lyocell and viscose fibers for nonwoven applications have been certified by TÜV AUSTRIA as biodegradable in soil, freshwater, and seawater, as well as compostable under household and industrial conditions. This certification does not apply in California, the U.S., and France.

Veocel™
Purely for you
VEOCEL™ ist eine Marke der Lenzing AG

OUR PORTFOLIO OF BASE MATERIALS FOR INTERIOR DESIGN

ITEM	XO FLAX PURE 130 00518.99	XO LYOCELL PURE 140 03160.99	SL 80 65FLX/35VIS CA/1L C 00805.99	SL 130 65FLX/35VIS FL/1L C FR 01784.99	SL 50 VIS FL 02976.99
					
Technology	Spunlace	Spunlace	Spunlace	Spunlace	Spunlace
Blend	65% Flax 35% Viscose	100% Lyocell	65% Flax 35% Viscose	65% Flax 35% Viscose	100% Viscose
Weight* (g/m²)	130	140	80	130	50
Structur	flat	flat	coarse apertured	flat	flat
Thickness (mm)*	0.62	0.85	0.7	0.62	0.47
Aftertreatment	optional: self-adhesive or with backing	optional: self-adhesive or with backing	–	flame retardent	–

* The values have been evaluated on the basis of the test methods according to DIN EN 29073-1/-2/-3/-6. The values are based on a sample size of 100 cm².

Plant Watering

Our nonwovens provide a reliable and consistent water supply for modern greening systems. They continuously supply plants with water, thereby contributing to healthy growing conditions.

When combined with paper pots, they create an integrated system:
While the nonwoven materials optimize watering, the paper pots made from biodegradable fibers[1] allow for gentle propagation and planting.
This ensures that plants are well cared for while conserving resources.

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Absorbent

EVEN IN THE SOIL

- **Residue-free decomposable[2]**
- **Can absorb 8 -times as much water as their own weight (3-8 liters of water / sqm) and release it to plants step by step**

[1] LENZING Lyocell™ and LENZING Viscose™ fibers for nonwoven applications OK Compost according TÜV Austria: Biodegradable soil for spunlace and needlepunch nonwovens; Compostable home for spunlace nonwovens with maximum nominal grammage 62 g/m² (55 g/m² for viscose); Industrial compostable for needlepunch nonwovens with maximum nominal grammage 56 g/m² (54 g/m² for viscose) and for spunlace nonwovens with maximum nominal grammage 62 g/m² (55 g/m² for viscose).

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Technical Nonwovens for Composites

When developing nonwovens for composite structures, our focus is on performance and stability. Whether for roller coatings, cable applications, body armor, or renewable energy sources, our high-quality nonwovens are increasingly used for a wide range of applications.

- **lightweight**
- **isotropic fiber orientation**
- **tear-resistant and durable**
- **homogeneous surface**

FIELDS OF APPLICATION:

- reinforcing structures for various composite manufacturing processes
- surface finishing of composites
- body parts for water and motor sports vehicles

Finishing Options

Short rolls converting

- Individual roll converting; Lengths of at least 25 running meters (max. diameter 120 cm)
- Individual width assembly from at least 100 mm to 2,000 mm infinitely variable

Aftertreatment options:

- flame retardant
- oil and water repellent
- printing and coating
- laminating and calendering

Minimum order quantity under 20,000 sm possible.

Individual packaging and sizes possible.

Your contact for high-performance nonwoven solutions.

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