

YOUR PARTNER IN TECHNICAL TEXTILES

For Construction & Industrial Applications



WATERPROOFING

ADFORS' wide range of reinforcements for bitumen and synthetic membranes offers:

- Dimensional stability
- Strength
- Fire and moisture resistance
- Puncture resistance
- Resilience

PRODUCTS:

- Glass mats (reinforced and non-reinforced)
- Polyester non-wovens (reinforced)
- Glass and polyester laid scrims
- RECO fabrics
- Hybrid textiles: TwinFab®, TwinMat®



INSULATION

ADFORS' solutions for mineral wool and foam panels bring:

- Aesthetic aspect
- Puncture resistance, rigidity, tensile strength
- High compression
- Flatness and better adhesion

PRODUCTS:

- Glass mats (reinforced and non-reinforced)
- Glass and polyester scrims

Our facers can be printable.



BUILDING BOARDS

ADFORS' solutions for gypsum cement boards and PES/XPS boards present following advantages:

- Weather resistance including water repellency, UV, and mold resistance
- Fire and impact resistance
- Printable smooth surface
- Alkali-resistant function in cement (or cement-coated boards)

PRODUCTS:

- Coated glass mats
- Glass mats (including formaldehyde-free)
- Glass wovens
- TwinFab® (coated or not)
- PVC coated glass laid scrim



FLOORING

ADFORS' materials for indoor and outdoor covering (i.e. LVT, vinyl sheets, carpets) offer:

- Dimensional stability of the finished product, and prevent curling and shrinking
- Tensile strength and puncture resistance
- Smooth surface

PRODUCTS:

- Glass mat (including formaldehyde-free)
- Twinfab®
- Glass laid scrim



ACOUSTICAL CEILING AND WALL PANELS

ADFORS' facers bring your panels:

- Acoustical performance
- Aestheticism
- Fire resistance
- Impact resistance
- Pleasant touch

PRODUCTS :

- Glass mats (including formaldehyde-free)
- Twinfab®
- Coated glass mats



IMPACT SOUND INSULATION

ADFORS' solutions for bitumen and protective foils present following advantages:

- Goes directly under floating floors
- Very thin (<5mm products)
- High acoustic performance
- Long-lasting creep resistance

PRODUCTS :

- Thick glass mat



TAPE

ADFORS develops light solutions (<5g/m² weight) for:

- Adhesive tapes' reinforcement
- Transfer tapes' overstretching protection
- Duct tapes' tear resistance's improvement
- Sealing tapes' longevity increase

PRODUCTS:

- Polyester laid scrims
- Glass laid scrims
- Possible combination of polyester and glass yarns
- Laid scrims

TRANSFORMATION

ADFORS' product range offers solutions for high variety of lamination (with paper, foils or plastic films), providing:

- Puncture resistance
- Maximization of the tearing strength
- Stabilizer of laminated complex
- Reduce the quantity of adhesive used by improving the cohesion of the complex

PRODUCTS:

- Polyester laid scrims
- Glass laid scrims

PIPE

ADFORS offers reinforcements and facings for a wide variety of pipes and inner and outer wraps.

PRODUCTS:

- Glass mats in rolls and strips
- Glass and polyester laid scrims

GRINDING WHEELS

ADFORS offers reinforcements for a wide variety of discs' diameters, wheels and machinery with a large choice of complements and separators with compliance with OSA safety requirements.

PRODUCTS:

- E-glass fabrics (uncoated and coated)

Our activity offers technical fabrics that are used by industrial manufacturers in their processes. These fabrics can be used to **reinforce** or **face** their **final product**.

OUR PRODUCT RANGE INCLUDES:

► Non-wovens

For Lightweight Reinforcements & Facings

- Glass mats
- Polyester non-wovens
- Laid scrims

► Woven Fabrics/Combinated Textiles/Coated Fabrics

For Outstanding Performance

- Woven fabrics
- Hybrid textiles
- Coated fabrics

QUALITY AND CERTIFICATIONS

ADFORS is a reliable and innovative global leader in technical textiles, offering tailored solutions to meet your needs.

With more than 50 years of expertise, ADFORS provides a complete range of technical fabrics to industrial manufacturers.

Beyond innovative products and solutions, we guarantee you the best-in-class service quality, supported by industrial efficiency program and ISO certifications:

- The **World Class Manufacturing program** (WCM).

Our plants are certified ISO 9001 and ISO 14001.



SUSTAINABILITY COMMITMENTS

ADFORS produces and develops sustainable technical textiles. We go further basic environmental specifications by concretely acting every day, beyond our industrial activity:

We **eliminate harmful substances** in our processes and products.

We **reduce VOC emissions**, such as formaldehyde in our finished products.

We use up to **30% recycled glass** in our glass fiber production.

We **optimize the water cycle management** to reduce the water withdrawal,

We are committed to **the SAINT-GOBAIN 2050 Carbon Neutral** objective.

Thanks to our actions, in 2020, we saved:

The annual equivalent CO2 emissions of **18000 cars**.

The electrical daily consumption of **7 Million EU people**.

The water of **200 Olympic swimming pools**.

50 x 20 feet, **28 t containers of waste**.



NON-WOVENS

For Lightweight Reinforcements & Facings

GLASS MATS

Wet laid & dry laid glass fiber mats - From 25 to 700 g/m² - In white, yellow or black colour - With or without reinforcement by longitudinal yarns - Binders: acrylics, urea formaldehyde, melamine, bio-sourced binders and others.



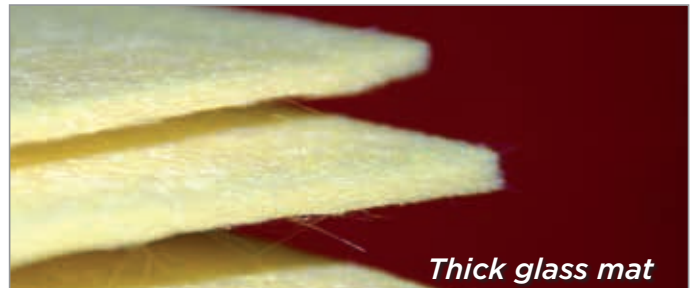
White glass fiber mat



Reinforced glass fiber mat



Black facing mat



Thick glass mat

POLYESTER NON-WOVEN

A unique reinforced non-woven made of polyester and glass fibers, from 120 to 330 g/m².



Polyester Non-Woven

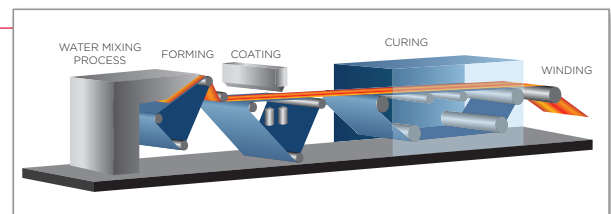
⇒ NON-WOVEN TECHNOLOGIES

Wet laid

Wet chopped glass fibers are dispersed in a water based solution, poured onto a belt. The mat is then chemically bonded and cured.

Benefits:

- High thermal stability
- High quality aspect
- 1 to 4.2m width rolls

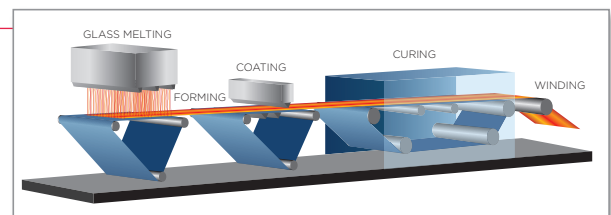


Dry laid

Fibers are produced from a furnace above the conveyor belt. The second part of the process is similar to the wet laid one for the binder application.

Benefits:

- Flexibility
- Softness
- Good tear and puncture resistance
- Up to 1.3m width rolls

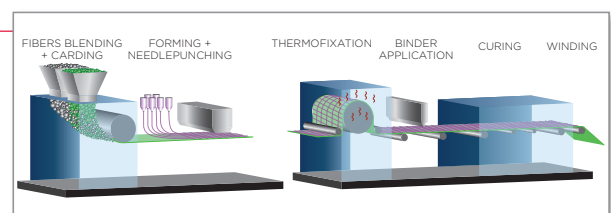


Polyester non-woven

Polyester and glass fibers are mixed together and carded. The non-woven layers and reinforcement yarns are needle-punched together. Non-woven is then thermofixed, chemically binded before curing.

Benefits:

- High dimensional stability
- Fire resistance
- Puncture resistance
- Up to 2m width rolls

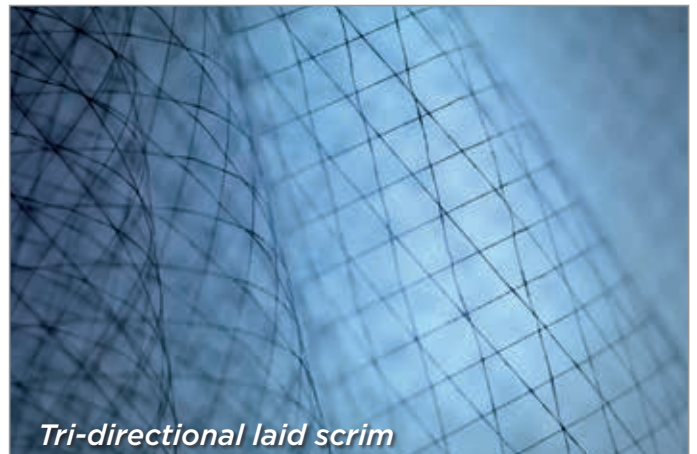
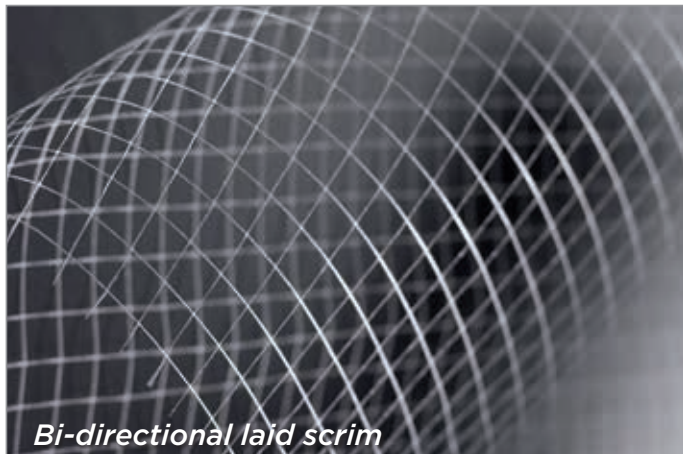


LAID SCRIMS AND WOVENS

For Outstanding Performance

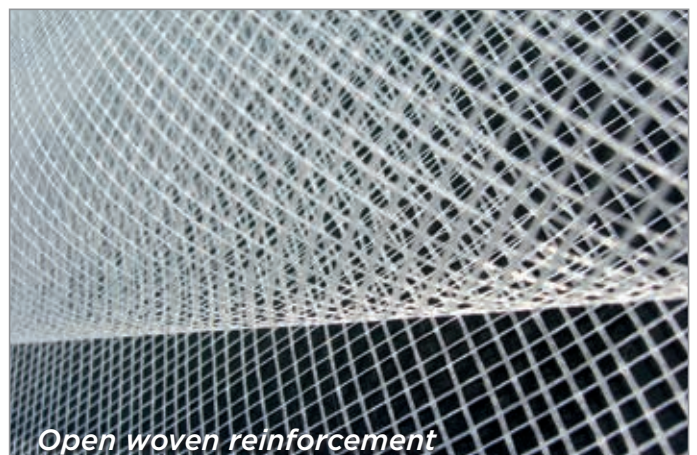
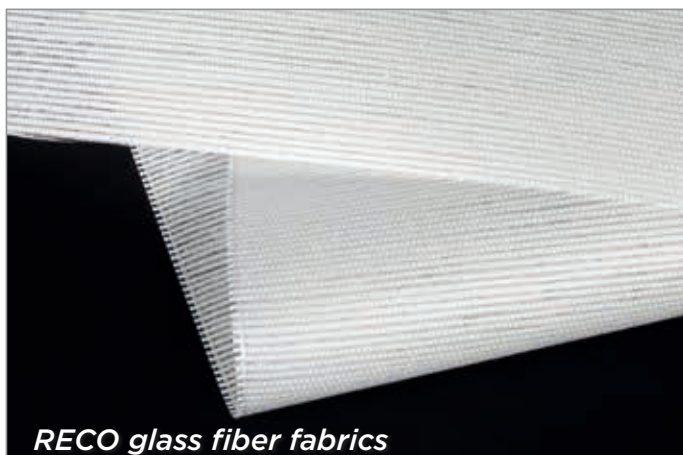
LAID SCRIMS

Bi- & tri-directional laid scrims - Glass, polyester & high performance fibers.
Up to 5 m width - Binders: polyvinylalcohol, SBR based and others.



WOVEN FABRICS

Open or closed fabrics - Woven or knitted - From 45 to 1500 gr/m² - Specialty coatings.

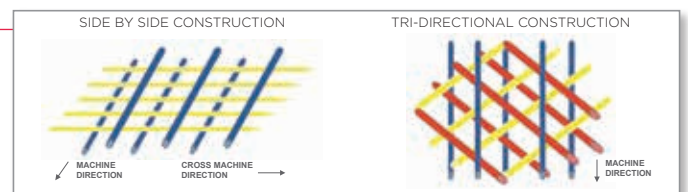


⇒ LAID SCRIM PROCESS

Scrim is a reinforced fabric made from continuous filament yarn in an open mesh construction.

Benefits:

- Lightweight fabric
- Many bi- or tri- directional patterns
- Specialty coatings



⇒ WOVEN PROCESS

Warp and weft yarns are weaved together on a traditional weaving loom, in various patterns (primarily plan and leno weave).

Benefits:

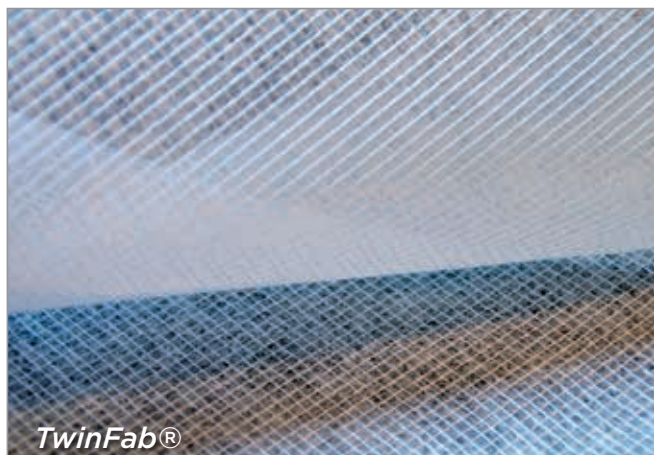
- High strength fabric
- High weight fabric



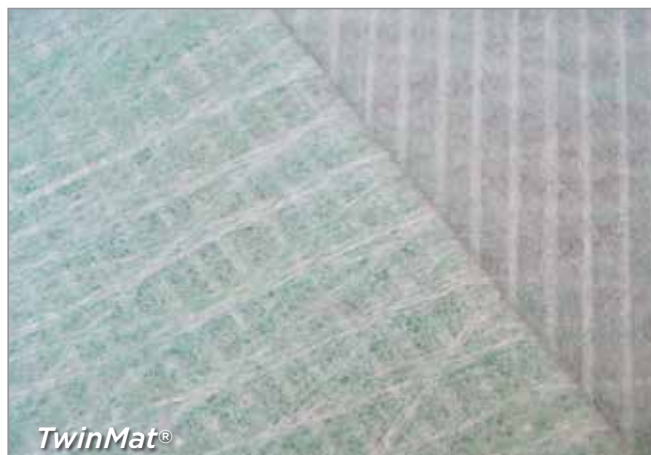
HYBRIDS

HYBRID TEXTILES

Combination of non-wovens with reinforcing fabrics (scrim, knitted or woven), glass fiber or polyester based.



Combination of polyester non-woven and glass mat needle-punched together and chemically fixed.



COATED FABRICS

Heavily coated textile from 100 to 400 gr/m² - White or coloured - Water resistant.

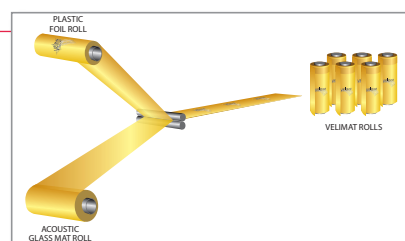


⇒ LAMINATING PROCESS

Two or more layers of different non-woven and fabrics are laminated together (TwinFab®), or needle-punched (TwinMat®) to combine their properties.

Benefits:

- Combining the benefits from the different materials and textiles

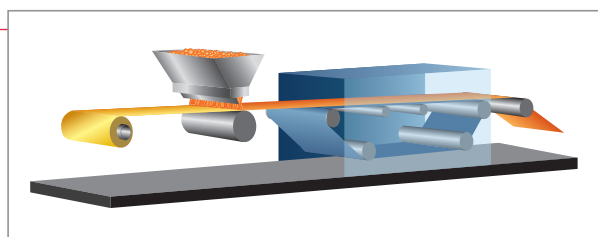


⇒ COATING PROCESS

A mineral coating is applied to the technical textile to enhance its performances.

Benefits:

- Functionalized textile with for example water repellancy or UV resistance properties





SAINT-GOBAIN ADFORS Research & Development

As a leader in innovation, ADFORS is meeting your expectations by developing tailored solutions. ADFORS' R&D teams are based in the Saint-Gobain R&D Centers of Aubervilliers, France and Northboro, USA and locally in each plant.

SAINT-GOBAIN ADFORS: A SIGNIFICANT EXPERTISE

By working with Saint-Gobain ADFORS, our customers have access to a wide range of customizable solutions developed using over 50 years of experience in innovative industrial fabrics.

Our teams support our customers from product development stage to after-sales service to guarantee the development of the best solution for their specific reinforcement challenges.

ADFORS OFFERS:

Long-term and reliable partnership through a close collaboration and co-development approach.

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