

Waterproofing



When waterproofing is performing...

ADFORS PROVIDES...

- ▶ **Customized reinforcement solutions** for waterproofing products, helping to streamline the manufacturing process and improve end product performances.
- ▶ Product with **dimensional stability, fire and mould resistance**.
- ▶ A roofing range including **glass veils, glassfibre and polyester scrim, glass woven products and complexes**.

Reinforcement type depends on waterproofing application: bituminous membranes, shingles, single-ply synthetic membranes, and civil engineering products. All our offers are designed to meet rigorous building industry standards.

Your needs, our solutions

BITUMEN MEMBRANES

Bitumen waterproofing membranes are mainly used in low slope roofs for commercial and industrial buildings. We offer different reinforcements depending on the final application:

- ▶ **Standard systems:** we recommend to reinforce the glass based membrane with our wet laid (typically U50 R) or dry laid glass veil (M55 R12).
- ▶ **Mechanically fixed or self adhesive membranes:** TwinFab®, a combination of glass veil and glass scrim.
- ▶ **High tensile membranes:** RECO fabrics range for DIN or other specific norms.
- ▶ **Under-slating** wind barrier: light glass veil.
- ▶ **Renovation:** perforated glass veil with different holes size.
- ▶ **Separation layer** unrolled on the roof between foam insulation and waterproofing membranes: heavy glass veils around 100 g/m² in short rolls, A1 or B2 fire certifications.

SINGLE PLY SYNTHETIC MEMBRANES

Synthetic membranes are made of a polymeric matrix (such as TPO, PVC, EPDM) and can be reinforced with our glass veils, TwinFab® complexes or laid scrim. Our products are tightly controlled in thickness, porosity and aspect for these more demanding customer processes and applications.

SHINGLES

Bituminous shingles are used on residential pitch roofs and are reinforced with heavy tear and tensile resistant glass veil typically around 100 g/m². We provide different types of glass fiber (13 or 16 µ) and binder (rigid/flexible) depending on the impregnation process specificities.



Our technology and knowledge...

GLASSFIBRE VEIL

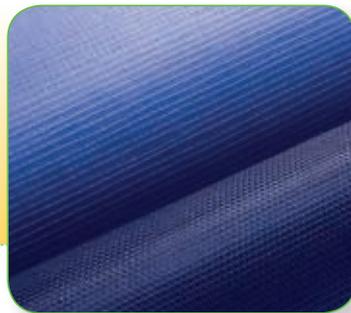
ADFORS offers wet or dry laid glass veil reinforced or not with longitudinal yarns. Typically from 45 to 120 g/m². Appreciated for its dimensional stability, fire and moisture resistance. Ease of processing (no shrinkage nor elongation) during membrane production.



GLASS FABRICS RECO

Woven glass fibre yarns with enhanced coatings. RECO is used for high strength bitumen membranes for most demanding application (German DIN or Extreme climate).

We offer from 140 to 250 g/m² RECO product, impregnated with a low water capillarity and high fire resistant coating.

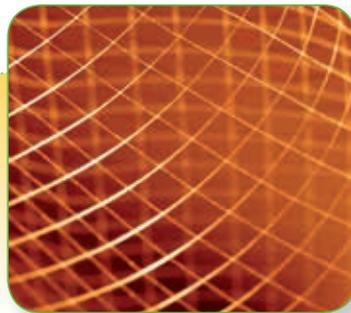


ADFORS offers the widest glass reinforcement range for waterproofing



TWINFAB®

A glass veil and a glass scrim bonded and laminated together. It is used for specific applications as high tensile and high fire resistance (joint dilatation resistance, mechanical fixation, civil engineering). We offer a range from 500 to 1000 N/50 mm; with high delaminating resistance to fulfil the impregnation process requirements.



LAID SCRIM

A lightweight non woven glass or polyester scrim, used as a reinforcement for polymeric membranes. It provides dimensional stability, increases tear strength, puncture and impact resistance. ADFORS offers a wide range of customized laid scrim products, perfectly adapted to your needs and technical requirements.

Our main references for waterproofing applications

GLASS FIBRE VEIL FOR SYNTHETIC MEMBRANES

	Product reference	Binder Type	Gramm Weight (g/m ²)	Specifications	Applications
Wet laid	U 35 /2	Modified UF	35	13µ fibres	Single Ply synthetic membrane
	U 50 /3	Modified UF	50	13µ fibres	Single Ply synthetic membrane
	U 120 F	Modified UF	120	13µ fibres fire resistant A1	Separation layer

GLASS FIBRE VEIL FOR BITUMEN MEMBRANES

	Product reference	Binder Type	Gramm Weight (g/m ²)	Specifications	Applications
Wet laid	U 50 R	Modified UF	50	13µ fibres reinforced	Bitumen membrane
	U 80	Modified UF	80	13µ fibres	Shingles
	U M 110 /3	Modified UF	110	16µ fibres	Shingles
Dry laid	M 55 R12	Melamine	55	13µ fibres reinforced	Bitumen membrane
	M 65 R12	Melamine	65	13µ fibres reinforced	Bitumen membrane
	M 80 R16 P40	Melamine	75	13µ fibres reinforced	Renovation perforated veil

RECO

Product reference	Coating	Gramm Weight (g/m ²)	Tensile strength MDxCD (N/5 cm)	Roll length (m)	Applications
RECO 140	SBR	140	1000 x 1000	3000	DIN and high tensile membranes
RECO 185	SBR	185	1300 x 1500	2400	
RECO 200	SBR	206	1300 x 1550	2400	
RECO 209	SBR	209	1250 x 1650	2400	

TWINFAB®

Product reference	Input glass veil (g/m ²)	Gramm Weight (g/m ²)	Tensile strength MDxCD (N/5 cm)	Roll length (m)	Applications
TwinFab® 73	35	73	500 x 500	2300	Flashing and mechanically fixed membranes
TwinFab® 125	50	125	1000 x 1000	2000	

LAI D SCRIM

Product reference	Coating	Pattern MD/CD (yarn/cm)	Tensile strength MDxCD (N/5 cm)	Standard roll width (mm)	Applications
QY7710/R17	SBR	1430 x 1430	1216 x 1216	2540	Single ply roofing



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ADFORS designs and produces innovative textile solutions for reinforcement in the construction & industrial markets. With an experience over 50 years, ADFORS benefits from a strong expertise in glass fiber technology through its VETROTEX® business, an extended knowledge in weaving & coating and a wide offering of fabrics.