



ADFORS INDUSTRIAL FABRICS

Your Partner for
Thermal Insulation

Stronger ideas for a sustainable world



When thermal insulation is critical...

ADFORS OFFERS UNIQUE SUSTAINABLE FACERS

We propose a wide range of products, tailor-made to technical requirements, depending on the application.

Our main product developments are focused on sustainability:

- Glass is one of the most sustainable products due to its longevity, strength and composition. Our glass furnaces consume recycled glass.
- «Bio-based» binders.
- Formaldehyde and VOC* emission under the detection level.
- Improved ease of use for both installers and users.



ADFORS PRODUCT RANGE

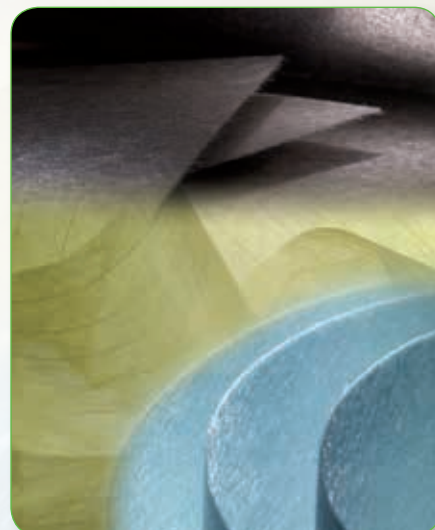
We offer a variety of tailor made non-woven and woven technical textiles for manufacturers of insulation products (mineral wool and foams).

Glass Veil

- Wet laid veil for aspect and low porosity;
- Dry laid veil for flexibility, touch and pucture resistance.
- Binders:
 - ▶ Urea-melamine and phenol-formaldehyde resins for standard products.
 - ▶ Formaldehyde free acrylics with no or low VOC* emission
 - ▶ Bio-based binders
- Coloured glass veils:
 - ▶ White
 - ▶ Black
 - ▶ Yellow
- Fibre diameters: from 6 to 16 μ
- Longitudinal glass yarns reinforcement to increase tear resistance and tensile strength
- Possibility to print with the customers pattern (text, grid, logo...)

Glass Fabrics

- Woven glass fiber yarn fabrics, acrylic or SBR binders, black or white
- Open woven fabrics
- Hybrid textiles
 - ▶ TWINFAB®: combinaison of non woven and fabrics, scrim or knitt.



* Volatile Organic Compounds such as formaldehyde.

Your needs, our solutions

MINERAL WOOL FACING

Building insulation market

- ▶ For insulation **wools in roll** format, we recommend **dry laid reinforced veils**, highly resistant to compression and flexible thanks to their long fibres.
- ▶ For exterior **insulation panels**, we propose **dry laid veils** to improve mechanical strength and moisture resistance or **wet laid black veils** for transparent or ventilated facades to hide the insulation.

Technical insulation markets

- ▶ For heating ventilation air conditioning (**Hvac**), we provide **black glass veils and woven glass fabrics**, which have good fire and mould properties and high air flow resistance.
- ▶ For **marine application**, we supply **fabrics** which pass IMO certification.
- ▶ For kitchen and oven appliances, we supply **dry laid glass veils** with ultra low VOC* emission at high temperature.

For all these applications, we have environmentally-friendly glass veils such as SoftTouch® and bio-based binders.



CEILING TILES

In non residential buildings, suspended ceiling tiles improve the acoustic insulation of offices.

The **back side** is usually faced with a glass veil to improve the integrity and aspect of the tiles.

We provide **formaldehyde free veil** based on acrylic binders or bio-based binders, with improved softness for applicators' comfort of use.

Acoustic, aesthetical and fire properties of the **front side** of the tiles are enhanced by a **glass veil which can be printed or painted**.

For **impact resistant** ceilings, we offer **TwinFab®** products (a combination of glass veil & glass scrim).



FOAM FACING

We produce facers for all types of foams (polyisocyanurate PIR, polyurethane PU and phenolic foams).

Low porosity glass veils are used as a carrier for the **liquid foam** precursor. The veil is anchored in the foam as a facing to improve the mechanical and fire properties.

Converters and coaters (bitumen, mineral) transform our veils for foam producers.

For **special impact** resistant foam boards, we provide **open woven fabrics**.



* Volatile Organic Compounds such as formaldehyde.

Our main references for thermal insulation applications...

MINERAL WOOL FACING

| Product reference | Binder type | Gramm weight (g/m ²) | Specifications | Applications |
|----------------------|-------------|----------------------------------|--|-------------------------------|
| B 35 R Y | Bakelite | 35 | Dry laid glass veil | Insulation wool |
| AP 35 R | Acrylic | 35 | Dry laid glass veil - VOC free | Insulation wool |
| S 40 | Bio-based | 40 | Dry laid glass veil - VOC free | Insulation wool |
| SoftTouch® AT 40 (Y) | PVOH | 40 | SoftTouch® dry laid glass veil | Insulation wool |
| U H 60 B | Modified UF | 60 | Black glass veil | Ventilated façade or Hvac |
| AP H 70 R B F | Acrylic | 70 | Black glass veil, VOC free | Ventilated façade or Hvac |
| AG 35 R | Acrylic | 30 | Dry laid glass veil with ultra low VOC | Oven appliances |
| E 125 A1044 | SBR | 125 | Woven black fabrics | Hvac and technical insulation |

CEILING TILES

| Product reference | Binder type | Gramm weight (g/m ²) | Specifications | Applications |
|---------------------------|---------------|----------------------------------|--------------------------------|---------------------------|
| S 50 | Bio-based | 50 | Dry laid glass veil - VOC free | Back facing |
| U 50 | Modified UF | 50 | Standard glass veil | Back facing |
| AP DH 60 | Acrylic based | 60 | Glass veil with low porosity | To be printed or painted |
| TwinFab® 130 (U100 F/K30) | UF based | 130 | Complex: glass veil/knitt | Impact resistant ceilings |

FOAM FACING

| Product reference | Binder type | Gramm weight (g/m ²) | Specifications | Applications |
|-------------------|---------------|----------------------------------|--|------------------------------|
| U 35 | Modified UF | 35 | Standard glass veil | Lamination for PU panels |
| U H 50 | Modified UF | 50 | Glass veil with high aspect quality | For mineral coating |
| U H 70 | Modified UF | 70 | Glass veil with thickness and porosity controled | For bitumen coating |
| AP DH 60 | Acrylic based | 60 | Glass veil with low permeability | Foam production |
| R 85 A101 | SBR | 110 | Open woven fabric | Impact resistant foam panels |

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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.