



# Insulation



## 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 $\mu$
- 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 <sup>2</sup> )	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 <sup>2</sup> )	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/knitted	Impact resistant ceilings

## FOAM FACING

Product reference	Binder type	Gramm weight (g/m <sup>2</sup> )	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 controlled	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.