# Technical Data Sheet

# Fiberglass mesh R131 A101

## Product description

- made from E-glass
- alkali resistant coating
- high tensile strength
- dimensionally stable

Product is designed to meet main quality requirements and standard for glassfibre meshes:
- CE certified since 2013
- regularly audited and tested by main European laboratories CSTB, DiBT, TZUS




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Technical
Data Sheet

# Fiberglass mesh
# R131 A101

## Typical use

**R131 A101 is one of our bestsellers and is used in a wide range of applications.**

- **Mandatory component of ETIC systems**
- **Facade render reinforcement**
- **Interior plaster reinforcement**

Thanks to the balanced construction, high tensile strength and alkali resistance R131 A101 prevents any potential crack creation and by that protects the whole system from water infiltration and mould development.
The life time of any system is by that prolonged to maximum.



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## Technical characteristics

| Basic parameters | Unit | Performance | Technical specification |
|---|---|---|---|
| Mass per unit area | g/m² | 163 ± 5% | EAD 040016-01-0404 |
| Mesh opening warp/weft | mm | (3,5/3,8) ± 0,5 | |
| Thickness | mm | 0,55 ± 0,1 | |

| General information | Unit | Performance | Technical specification |
|---|---|---|---|
| Standard width | cm | 110 ± 1% | Customer Acceptance Standard |
| Standard length | m | min 50 | |
| Treatment type | alkaliresistant without emollient, obstructing yarn drifting | | |

Other type of treatments and dimensions upon request.

| Tensile strength and elongation | Unit | Performance | Technical specification |
|---|---|---|---|
| Tensile strength in the 'as-delivered' state warp/weft | N/50mm | min 1900/min 1900 | EAD 040016-01-0404 |
| Average tensile strength in the 'as-delivered' state warp/weft | N/50mm | min 2200/min 2200 | |
| Elongation in the 'as-delivered' state | % | max 5/max 5 | |
| Tensile strength after 28 days alkali conditioning warp/weft | N/50mm | min 1000/min 1000<br>min 50/min 50 | |
| Average tensile strength after 28 days alkali conditioning warp/weft | N/50mm | min 1400/min 1400 | |
| Elongation after 28 days alkali conditioning warp/weft | % | max 3,8/max 3,8 | |

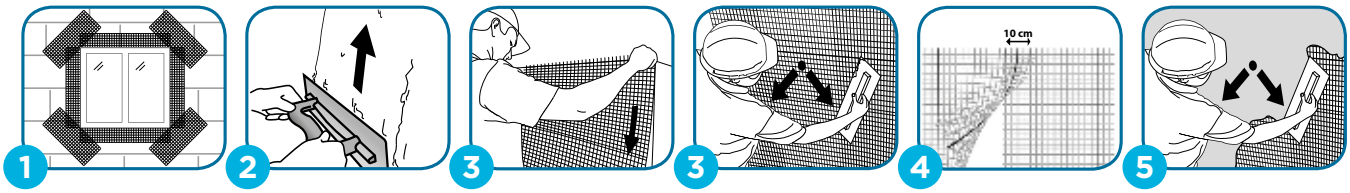
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## Installation

### ADFORS Vertex® Mesh




1. Firstly, corner and window profiles should be correctly applied on the prepared surface. Then install the 30 × 50 cm mesh strips diagonally to avoid cracking.
2. Apply the first layer of base coat over the entire surface.
3. Apply the mesh from the top to the bottom of the wall by pressing it into the first layer of the base coat (starting from the centre then out to the side).
4. The overlap between the two mesh strips should be a minimum of 10 cm to ensure continuity of reinforcement.
5. Apply the rest of the base coat keeping the mesh in the upper third.

## Warranty

Products are carefully checked before leaving our factory. They must also be be checked before final installation. Any claim should be accompanied with the roll label, closing sticker with identification barcode and a sample featuring the defect.

## Storage

Unless agreed otherwise, individual packaging units can be stacked. The glass-fibre fabric must be stored in the original packaging in a dry environment. As the producer we recommend protecting the packaging from direct sunlight. The recommended storage temperature is between –10 to +50 °C.


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## Packaging

- packed in rolls
  - typical size 1,1 × 50 m
  - protected in plastic foil
  - tubeless packaging
- boxes stacked on standard pallets 120 x 80 cm
- 35 rolls/pallet for efficient transportation

## Certification

### European Technical Assessment – CE mark

The glass fibre mesh fabrics we produce for ETICS are certified and marked with a CE mark. Generally, there is no harmonized standard for glass fibre mesh fabrics. Therefore, certification is based on a European Assessment Document (EAD). The EAD documents the methods and criteria adopted by the European Organization for Technical Assessment (EOTA). The methods stipulate the criteria for assessing the properties of a construction product based on its' essential characteristics. A European Technical Assessment (ETA) is then issued, based on the EAD and leads to CE marking on the product itself.

### Enviromental Product Declaration - EPD

Our latest EPD was issued in 2023 in accordance with ISO 14025:2006 and EN 15804+A2:2019 valid until 2028.



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**European Technical Assessment** — **ETA 13/0392 of 18/02/2019**

*General Part*

| | |
|---|---|
| Technical Assessment Body issuing the European Technical Assessment: | Technical and Test Institute for Construction Prague |
| Trade name of the construction product: | R 116 A101, R 117 A101, R 121 A101, R 122 A101, R 123 A101, R 128 A101, R 131 A101, R 131 A101C+, R 131 A102C+, R 137 A101, R 140 A101N, R 148 A101, R 161 A101, R 162 A101, R 163 A101, R 185 A101, R 170 A101, R 178 A101, R 178 A102C+, R 267 A101, R 273 A101, R 326 A101, R 451 A101, R 585 A101 - glass fibre mesh for reinforcement of cement based renderings |
| Product family to which the construction product belongs: | Product area code: 4 Thermal insulation products. Composite insulating kits/systems |
| Manufacturer: | SAINT-GOBAIN ADFORS CZ s.r.o. 106 Sokolovská 570 01 Litomyšl Czech Republic |
| Manufacturing plant(s): | SAINT-GOBAIN ADFORS CZ s.r.o. 106 Sokolovská 570 01 Litomyšl Czech Republic |
| This European Technical Assessment contains: | 22 pages |
| This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of: | EAD 040916-03-0404 Glass fibre mesh for reinforcement of cement based renderings |
| This version replaces: | ETA 13/0392 issued on 02/07/2018 |

TZUS 060-047920



EPD

EPD CZECH

**ENVIRONMENTAL PRODUCT DECLARATION**
*In accordance with ISO 14025:2006 and EN 15804+A2:2019 for*

**Vertex mesh**
from: SAINT-GOBAIN ADFORS CZ, s.r.o

Version 2
Date of revision: 2023-07-06
Date of issue: 2023-03-31
Validity: 5 years
Valid until: 2028-03-30

Scope of the EPD®: Europe

Programme: The International EPD® System, www.environdec.com

Programme operator: EPD International AB

Production plant: Litomyšl
Sokolovská 106, Litomyšl 570 01, Czech Republique (Czech Republic)

EPD VERIFIED

ADFORS SAINT-GOBAIN

Registration number
The International EPD®
System: S-P-08932

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