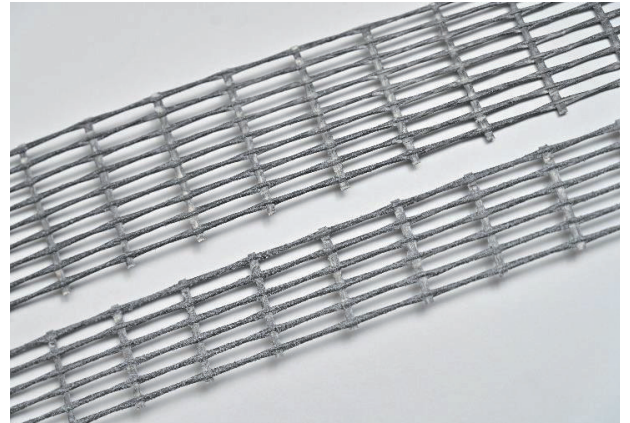


# Solidian Briksy

## TECHNICAL DATA SHEET

Distribution BENELUX by



### What is Briksy fiberglass AR?

**Briksy** is an innovative **masonry reinforcement on a roll**, made from a fine mesh of fiberglass threads. The **longitudinal threads are alkali-resistant (AR)**, which ensures high resistance to the alkaline environment of masonry mortar. Thanks to this composition, Briksy offers durable and corrosion-resistant reinforcement, perfectly suited to modern (bonded) masonry but also suitable for insensitive adhesive joints.

### Area of application for Briksy fiberglass AR

- ✓ **Indoor & outdoor applications**  
Thanks to its **corrosion-free** fiberglass, Briksy is perfectly suited for both dry and damp environments, where traditional steel reinforcement or alternative steel wire on a roll is subject to corrosion.
- ✓ Suitable for both traditional **mortar joints** with a thickness of 3 to 12 mm and **bonded masonry**: ideal for thin **adhesive joints** thanks to its ultra-thin structure ( $\pm 2.5$  mm thick).
- ✓ **Very high tensile strength.**  
Minimal mortar (adhesive) coverage required. Lightweight, easy to use.

### Specifications

		Unit	Value	Tolerance	Standard
Fiber material warp	AR-Glass	-	-	-	-
Fiber material weft	Glass fiber	-	-	-	-
Impregnation material	Styrene-butadiene	%	>16	-	ISO 1887
Basis weight	-	g/m <sup>2</sup>	860	$\pm 8\%$	ISO 3374
Shape	Roll	-	-	-	-
Length	-	m	30 or 50	-	ISO 22198
Width	-	mm	40 50 75 100 150	5mm 5mm 10mm 10mm 10mm	ISO 22198
Fiber cross-section	Warp	mm <sup>2</sup>	1,791	-	calculated
	Weft	mm <sup>2</sup>	0,923	-	calculated

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		Unit	Value	Tolerance	Standard
Mesh size (middle)	Warp	mm	8,3	-	Internal method
	Weft	mm	33,3	-	Internal method
Breaking Force	Warp	kN/m	180	-	ISO 10406-1
Average value	Weft	kN/m	30	-	ISO 10406-1
Breaking Force	Warp	kN/m	>166	-	ISO 10406-1
Characteristic value	Weft	kN/m	>28	-	ISO 10406-1
Tensile Strength regarding fiber cross-sectional area	Warp	Mpa	835	-	ISO 10406-1
Average value	Weft	Mpa	1080	-	ISO 10406-1
Tensile Strength regarding fiber cross-sectional area	Warp	Mpa	>775	-	ISO 10406-1
Characteristic value	Weft	Mpa	>1025	-	ISO 10406-1
Ductility category	-	-	-	low	EN 845-3, +A1, Table 4

		Width	Number of cords per width	Value	Other wall reinforcement on roll (metal)
Breaking Force Average value	Warp	40mm	5	7,5 kN	6,28 kN (35mm)
		50mm	6	9 kN	8,5 kN
		75mm	9	13,5 kN	12,6 kN
		100mm	12	18 kN	17 kN
		150mm	18	27 kN	-

#### 1. Concrete components

1.1. Textile concrete components are currently not subject to any building authority approvals (standards, guidelines etc.). In the case of structural building sites, building authorities must be consulted with test stators, experts etc. and country-specific regulations must be observed (e.g. approvals of specific cases).

1.2. It is recommended to check these values in the concrete component (on site the prefabricated concrete plant) in order to detect individual influences from the concrete mix.

1.3. Consider working temperatures and resistance, installation only by trained staff, use suitable concrete mixtures, wear safety gloves and goggles. Please, consider additional protective measures!

1.4. The tensile strength was derived from experimental investigations based on roving tests. The values provided here represent short-term static tensile strength. At room temperature (20°C); the influences of durability, long-term loads, cyclic stresses etc. are not taken into consideration.

1.5. Since non-metallic reinforcements are not regulated in local standards or guidelines in most countries, for structural members building authorities, structural engineers, experts, etc. Must be involved and local regulations must be observed (e.g. approval in individual cases).

#### 2. Certifications

2.1. Our Management System is in accordance with the requirements of the management system standards ISO 9001:2015 and ISO 14001:2015.

#### 3. Disclaimer

3.1. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any liability arising out of its use or performance. The user, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Kindly note that under certain conditions the properties can be affected to a considerable extent by the machining or processing. Application, use, and processing of products is effected beyond our possible control, and accordingly is the sole and exclusive responsibility of recipients. Statements in this data sheet shall not be construed as representations of warranties or as inducements to infringe any patent or violate any law, safety code or insurance regulation.

3.2. Subject to change without notice. When a new technical data sheet is published, all previous technical data sheets are no longer valid.

\* Additional filler for superior bonding.