



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-19/0107 of 29 August 2019

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

Deutsches Institut für Bautechnik

Glasfaser-Armierungsgewebe TEXTOLAN TG 15 und Glasfaser-Armierungsgewebe TEXTOLAN TG 22

Product area code:

4 Thermal insulation produts. Composite insulating kits/systems.

BKW Textilglas GmbH Friedensstraße 2 37318 Bornhagen DEUTSCHLAND

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6 pages which form an integral part of this assessment

EAD 040016-00-0404



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Specific Part

1. Technical description of the product

1.1 General

Glass fibre meshes "Glasfaser-Armierungsgewebe TEXTOLAN TG 15" and "Glasfaser-Armierungsgewebe TEXTOLAN TG 22" for reinforcement of cement based renderings are leno woven fabrics made of glass fibre strands. To ensure alkali resistance, they are coated by an organic layer. The distance of the strands is at least 3 mm so that the rendering or mortar to be reinforced sufficiently penetrates the meshes.

2. Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The products are used as reinforcement of cement based renderings (mortars) with a thickness of 2 - 10 mm. The reinforcement shall be embedded in fresh mortar and sufficiently covered. The reinforcement prevents the hardened mortar from cracking, caused especially by dilatation.

The glass fibre meshes are used in base coats of external thermal insulation composite systems (ETICS) with rendering.

The Verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the glass fibre mesh for reinforcement of cement based renderings of 25 years (provided that the glass fibre mesh for reinforcement of cement based renderings has been correctly installed).

The indications given as to the working life of the construction product cannot be interpreted as a guarantee but are to be regarded only as a means for choosing the right product in relation to the expected economically reasonable working life of the works.

Concerning product packaging, transport, storage, maintenance, replacement and repair it is the responsibility of the manufacturer to take the appropriate measures and to advise his clients on the transport, storage, maintenance, replacement and repair of the product as he considers necessary.

It is assumed that the product will be installed in accordance with the manufacturer's instructions or (in absence of such instructions) in accordance with the usual practice of the building professionals.

3. Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

Trade name of the mesh	Reaction to fire class in accordance with Commission Delegated Regulation (EU) 2016/364	
Glasfaser-Armierungsgewebe TEXTOLAN TG 15	No performance assessed	
Glasfaser-Armierungsgewebe TEXTOLAN TG 22	No performance assessed	



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3.1.2 Organic content

Trade name of the mesh	Ash content [%]		Organic content [%]			
Glasfaser-Armierungsgewebe TEXTOLAN TG 15	81,98	82,16	82,14	18,02	17,84	17,86
Glasfaser-Armierungsgewebe TEXTOLAN TG 22	80,65	80,77	80,45	19,35	19,23	19,55

3.1.3 Heat combustion

Trade name of the mesh	Heat combustion Q _{PCS} [MJ/kg]	
Glasfaser-Armierungsgewebe TEXTOLAN TG 15	6,573	
Glasfaser-Armierungsgewebe TEXTOLAN TG 22	6,431	

3.2 Safety and accessibility in use (BWR 4)

Glasfaser-Armierungsgewebe TEXTOLAN TG 15				
Mesh size	Average mesh size [mm x r	5,0 x 4,0		
100011 0120	Mesh opening [mm x mm]		3,9 x 3,5	
Roll width	1001 mm			
	Untrimmed edges of any le			
Weaving accuracy	Deflected (uneven) fronts o ± 5 mm (measured from the inner tube) Gaps over treble distance of warps of any length Weft skewing or weft wavin width of the fabric (measure rectangular ruler)	No performance assessed		
	Cracked yarn			
Tensile strength and elongation (warp and weft direction)	In the as-delivered state	warp direction	weft direction	
	tensile strengthelongation ε	44,1 N/mm 3,55 %	53 N/mm 3,77 %	
	After alkali conditioning - tensile strength	warp direction	weft direction	
	- elongation ϵ	27,8 N/mm 2,31 %	32,9 N/mm 2,21 %	
	The average value of the tensile strength after alkali conditioning shall be at least 20 N/mm and at least 50 % of the strength in the as-delivered state (residual strength): passed: ≥ 20 N/mm after alkali conditioning and residual strength ≥ 50 % of the strength in the as-delivered			
Mass per unit area	163 g/m ²			
Thickness	0,50 mm			



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Glasfaser-Armierungsgewebe TEXTOLAN TG 22				
Mesh size	Average mesh size	5,8 x 4,7		
West size	Mesh opening		4,6 x 4,3	
Roll width	1001 mm			
Weaving accuracy	Untrimmed edges of any le	Untrimmed edges of any length		
	Deflected (uneven) fronts of ± 5 mm (measured from the inner tube)	No performance assessed		
	Gaps over treble distance of wefts or warps of any length			
	Weft skewing or weft waving over 4 % of width of the fabric (measured by a rectangular ruler)			
	Cracked yarn			
Tensile strength and elongation (warp and weft direction)	In the as-delivered state	warp direction	weft direction	
	tensile strengthelongation ε	49 N/mm 3,7 %	46 N/mm 3,8 %	
	After alkali conditioning - tensile strength	warp direction	weft direction	
	tensile strengthelongation ε	27 N/mm 2,1 %	24,7 N/mm 2 %	
	The average value of the tensile strength after alkali conditioning shall be at least 20 N/mm and at least 50 % of the strength in the as-delivered state (residual strength): passed: ≥ 20 N/mm after alkali conditioning and residual strength ≥ 50 % of the strength in the as-delivered			
Mass per unit area	151 g/m ²			
Thickness	0,50 mm			

4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

In accordance with EAD No. 40016-00-0404, the applicable European legal act is: 97/556/EC. The system to be applied is: **system 2+.**





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5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

The manufacturer shall perform permanent internal factory production control. The factory production control is specified in Cl. 3.2 und 3.3 of EAD 040016-00-0404 Glass fibre mesh for reinforcement of cement based renderings.

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