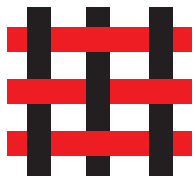


quïckfîber



Technical Data Sheet of quïckfîber

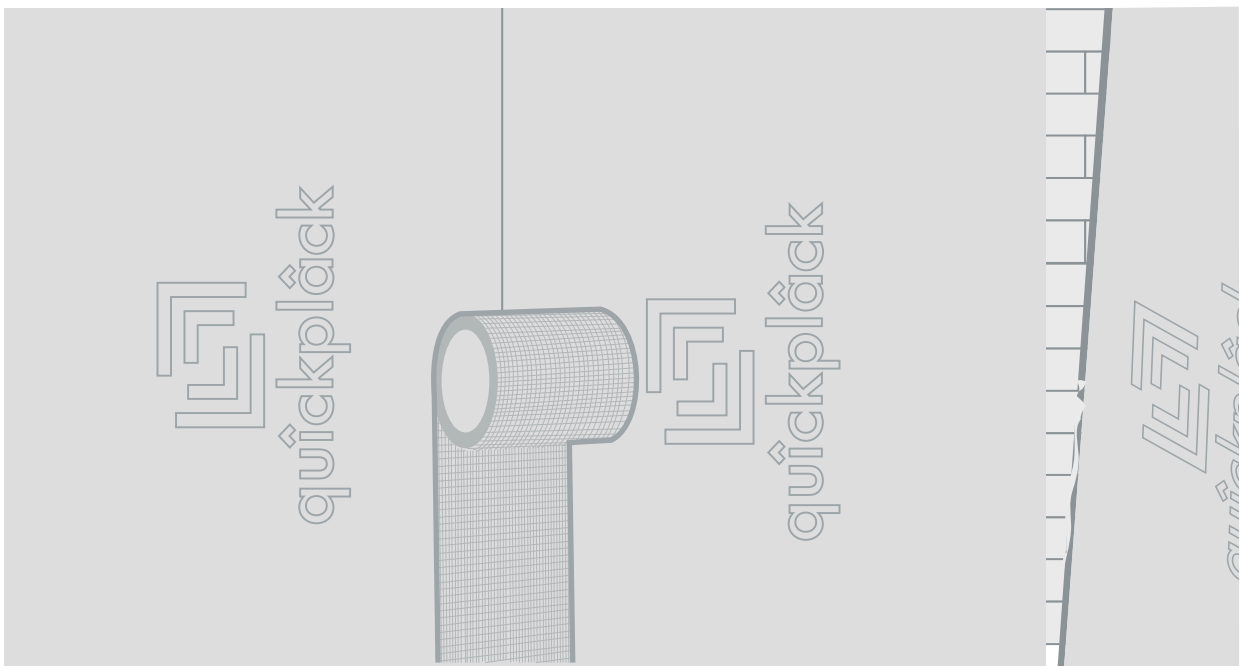
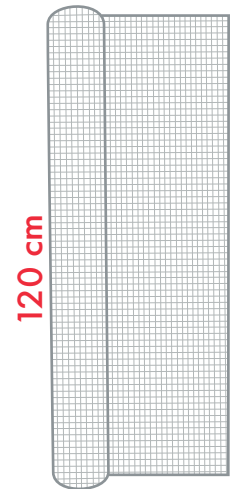
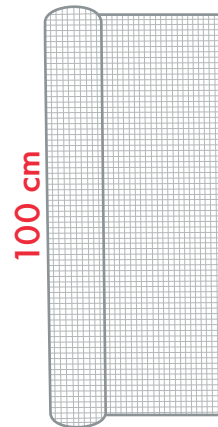
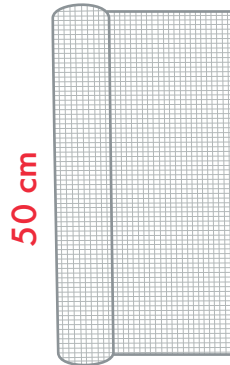
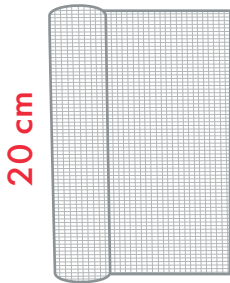


quickfiber

Technical Data Sheet of quickfiber



quickfiber is a mesh made of interwoven glass fiber, used both for the achievement of adequate monolithism and resistance of the panels, as well as for the prevention of internal and external fibers in the necessary joining between construction elements. It is also essential in the repair of all types of fissures of any etiology.



1. Technical description of the product

1.1 General

quickfiber 145, quickfiber 150 and quickfiber 160 -glass fibre meshes for reinforcement of cement based renderings are leno woven fabrics made of glass fibre strands. According manufacturer technical specification the type of the glass of fibre mesh is E-glass. To provide resistance to alkali conditions, they are coated by an organic layer. The distance of strands is at least 3 mm so that the reinforced rendering or mortar sufficiently penetrates the meshes.

List of the meshes

quickfiber 145

quickfiber 150

quickfiber 160

Concerning product packaging, transport, storage, maintenance, replacement and repair it is the responsibility of the manufacturer to undertake 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 according to the manufacturer's instructions or (in absence of such instructions) according to the usual practice of the building professionals.

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 the thickness of 2 -10 mm. The reinforcement shall be embedded in a 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 systems with rendering (eg. ETICS).

The assessment methods included or referred to in EAD 040016-00-0404 have been written based on the manufacturer's request to take into account a working life of the glass fibre mesh for reinforcement of cement based renderings for the intended use of 25 years when installed in the works (provided that the glass fibre mesh for reinforcement of cement based renderings is subject to appropriate installation). These provisions are based upon the current state of the art and the available knowledge and experience.

The real working life may be, in normal use conditions, considerably longer without major degradation affecting the basic requirements for works.¹

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

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

3.1 Safety in case of fire (BWR 2).

3.1.1 Reaction to fire.

Table No. 1 - reaction to fire:

Trade name of the mesh	Reaction to fire class according to Commission Delegated Regulation (EU) 2016/364
quickfiber 145	NO performance assessed
quickfiber 150	
quickfiber 160	

3.1.2 Organic content

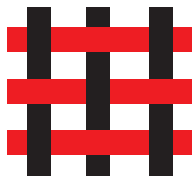
The determination of the ash content and organic content was based on Cl. 2.2.2 of EAD 040016-00-0404.

The results of the test are stated in Table No. 2.

Table No. 2 - ash content:

Trade name of the mesh	Ash content			Organic content		
quickfiber 145	81,2 %	81,0 %	81,0 %	18,8 %	19,0 %	19,0 %
quickfiber 150	81,1 %	81,6 %	81,1 %	18,9 %	18,4 %	18,9 %
quickfiber 160	78,9 %	79,0 %	79,2 %	21,1 %	21,0 %	20,8 %
quickfiber 145	81,0 %	81,1 %	80,9 %	19,0 %	18,9 %	19,1 %
quickfiber 150	84,1 %	84,3 %	84,3 %	15,9 %	15,7 %	15,7 %
quickfiber 160	81,4%	81,4%	81,8%	18,6 %	18,6 %	18,2 %

¹ The real working life of a product incorporated in a specific works depends on the environmental conditions to which that works is subject, as well as on the particular conditions of the design, execution, use and maintenance of that works. Therefore, it cannot be excluded that in certain cases the real working life of the product may also be shorter than the working life referred to above.

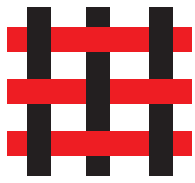


3.1.3 Heat combustion

The determination of the heat combustion was based on Cl. 2.2.3 of EAD 040016-00-0404. The results of the test are stated in Table No. 3.

Table No. 3

Trade name of the mesh	Heat combustion Q_{PCS} [MJ/kg]
quickfiber 145	7,32
quickfiber 150	7,62
quickfiber 160	8,19
quickfiber 145	7,50
quickfiber 150	6,60
quickfiber 160	7,07



3.2 Safety and accessibility in use (BWR 4).

The determination of mesh size, roll width, weaving accuracy, tensile strength and elongation, mass per unit area and thickness was based on Cl. 2.2.4 - Cl. 2.2.9 of EAD 040016-00-0404.

The results of the tests are stated in Table No. 4 - Table No. 9

Table No. 4 - quickfiber 145

quickfiber 145			
Mesh size	Average mesh size (warp direction x weft direction)		4,6 x 5,2 mm
	Mesh opening (warp direction x weft direction)		3,5 x 4.9 mm
Roll width	999 mm		
Weaving accuracy	An untrimmed edge in any length		No
	Deflected (uneven) fronts of rolls over ± 5 mm (measured from the edge of the inner tube)		
	A gap over treble distance of wefts or warps in any length		
	Weft skewing or weft waving over 4 % of width of the fabric (measured by a rectangular rule)		
	A cracked yarn		
Tensile strength and elongation (warp and weft direction)	In the as-delivered state	warp direction	weft direction
		- tensile strength - elongation ϵ	35 N/mm 3,7 %
	After alkalis conditioning	warp direction	weft direction
		- tensile strength - elongation ϵ	20 N/mm 2,2 %
	The average value of the tensile strength after alkalis 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 alkalis conditioning and residual strength ≥ 50 % of the strength in the as-delivered		
Mass per unit area	149 g/m ²		
Thickness	0,51 mm		

Table No. 5 - quickfiber 150

quickfiber 150			
Mesh size	Average mesh size (warp direction x weft direction)		5,5 x 4,2 mm
	Mesh opening (warp direction x weft direction)		4,4 x 3,9 mm
Roll width	998 mm		
Weaving accuracy	An untrimmed edge in any length		No
	Deflected (uneven) fronts of rolls over ± 5 mm (measured from the edge of the inner tube)		
	A gap over treble distance of wefts or warps in any length		
	Weft skewing or weft waving over 4 % of width of the fabric (measured by a rectangular rule)		
	A cracked yarn		
Tensile strength and elongation (warp and weft direction)	In the as-delivered state	warp direction	weft direction
	- tensile strength	49 N/mm	43 N/mm
	- elongation ϵ	3,9 %	3,7 %
	After alkalis conditioning	warp direction	weft direction
- tensile strength	27 N/mm	24 N/mm	
- elongation ϵ	2,2 %	2,2 %	
The average value of the tensile strength after alkalis 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 alkalis conditioning and residual strength ≥ 50 % of the strength in the as- delivered			
Mass per unit area	148 g/m ²		
Thickness	0,45 mm		

Table No. 6 - quickfiber 160

quickfiber 160			
Mesh size	Average mesh size (warp direction x weft direction)		4,6 x 4,2 mm
	Mesh opening (warp direction x weft direction)		3,5 x 3,9 mm
Roll width	997 mm		
Weaving accuracy	An untrimmed edge in any length		No
	Deflected (uneven) fronts of rolls over ± 5 mm (measured from the edge of the inner tube)		
	A gap over treble distance of wefts or warps in any length		
	Weft skewing or weft waving over 4 % of width of the fabric (measured by a rectangular rule)		
	A cracked yarn		
Tensile strength and elongation (warp and weft direction)	In the as-delivered state	warp direction	weft direction
		- tensile strength - elongation ϵ	44 N/mm 3,9 %
	After alkalis conditioning	warp direction	weft direction
		- tensile strength - elongation ϵ	23 N/mm 2,1 %
The average value of the tensile strength afer alkalis 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 alkalis conditioning and residual strength ≥ 50 % of the strength in the as- delivered			
Mass per unit area	165 g/m ²		
Thickness	0,47 mm		

Table No. 7 - quickfiber 145

quickfiber 145			
Mesh size	Average mesh size (warp direction x weft direction)		4,6 x 5,1 mm
	Mesh opening (warp direction x weft direction)		3,5 x 4,8 mm
Roll width	999 mm		
Weaving accuracy	An untrimmed edge in any length		No
	Deflected (uneven) fronts of rolls over ± 5 mm (measured from the edge of the inner tube)		
	A gap over treble distance of wefts or warps in any length		
	Weft skewing or weft waving over 4 % of width of the fabric (measured by a rectangular rule)		
	A cracked yarn		
Tensile strength and elongation (warp and weft direction)	In the as-delivered state	warp direction	weft direction
		- tensile strength - elongation ϵ	38 N/mm 3,7 %
	After alkalis conditioning	warp direction	weft direction
		- tensile strength - elongation ϵ	22 N/mm 2,1 %
The average value of the tensile strength after alkalis 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 alkalis conditioning and residual strength ≥ 50 % of the strength in the as-delivered			
Mass per unit area	149 g/m ²		
Thickness	0,50 mm		

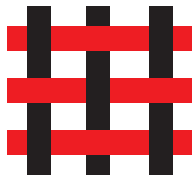
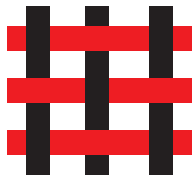


Table No. 8 - quickfiber 150

quickfiber 150			
Mesh size	Average mesh size (warp direction x weft direction)		5,3 x 4,2 mm
	Mesh opening (warp direction x weft direction)		4,1 x 3,8 mm
Roll width	1000 mm		
Weaving accuracy	An untrimmed edge in any length		No
	Deflected (uneven) fronts of rolls over ± 5 mm (measured from the edge of the inner tube)		
	A gap over treble distance of wefts or warps in any length		
	Weft skewing or weft waving over 4 % of width of the fabric (measured by a rectangular rule)		
	A cracked yarn		
Tensile strength and elongation (warp and weft direction)	In the as-delivered state	warp direction	weft direction
		- tensile strength - elongation _E	50 N/mm 4,2 %
	After alkalis conditioning	warp direction	weft direction
		- tensile strength - elongation _E	27 N/mm 2,3 %
The average value of the tensile strength after alkalis 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 alkalis conditioning and residual strength ≥ 50 % of the strength in the as-delivered			
Mass per unit area	149 g/m ²		
Thickness	0,47 mm		

Table No. 9 - quickfiber 160

quickfiber 160			
Mesh size	Average mesh size (warp direction x weft direction)		4,6 x 4,2 mm
	Mesh opening (warp direction x weft direction)		3,5 x 3,9 mm
Roll width	998 mm		
Weaving accuracy	An untrimmed edge in any length		No
	Deflected (uneven) fronts of rolls over ± 5 mm (measured from the edge of the inner tube)		
	A gap over treble distance of wefts or warps in any length		
	Weft skewing or weft waving over 4 % of width of the fabric (measured by a rectangular rule)		
	A cracked yarn		
Tensile strength and elongation (warp and weft direction)	In the as-delivered state	warp direction	weft direction
	- tensile strength	47 N/mm	49 N/mm
	- elongation ϵ	3,9 %	3,4 %
	After alkalis conditioning	warp direction	weft direction
- tensile strength	27 N/mm	36 N/mm	
- elongation ϵ	2,3 %	2,5 %	
The average value of the tensile strength after alkalis 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 alkalis conditioning and residual strength ≥ 50 % of the strength in the as- delivered			
Mass per unit area	160 g/m ²		
Thickness	0,45 mm		



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

According to the European Commission decision 97/556/EC, the AVCP system 2+ (further described in Annex V to Regulation (EU) No. 305/2011 as amended applies.

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

The manufacturer shall perform a permanent internal factory production control based on the control plan. The Control Plan specifies the type, test method, criteria and frequency of tests conducted on the final product.