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European Technical Assessment

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General Part

Technical Assessment Body issuing the European Technical Assessment:	Technical and Test Institute for Construction Prague
Trade name of the construction products:	**KOREFIB®** FiberMesh 2 mm **KOREFIB®** FiberMesh 3 mm **KOREFIB®** FiberMesh 4 mm - inorganic fibre grids for reinforcement of cement-, anhydrite- or resin-based screeds
Product family to which the construction product belongs:	Product area code: 26 Products related to concrete, mortar and grout
Manufacturer:	**KOREFIB s.r.o.** Borová 581/7, Havířov- Bludovice 736 01 Havířov Czech Republíc
Manufacturing plant(s):	**KOREFIB s.r.o.** Benešov u Semil 130 512 06 Benešov u Semil Czech Republíc
This European Technical Assessment contains:	10 pages
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	**EAD 260057-00-0303** Inorganic fibre grids for reinforcement of cement-, anhydrite- or resin-based screeds
This version replaces:	ETA 25/0367 issued on 19/05/2025

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Specific part

1. Technical description of the product

1.1 General

KOREFIB® FiberMeshes are rectangular glass fibre grids for reinforcement of cement-, anhydrite- or resin-based screed. The types **KOREFIB®** FiberMesh **2 mm, 3 mm** and **4 mm** are **plain woven fabric** made of glass fibre strands. According to the manufacturer technical specification the type of the glass of fibre grids is **ECR-glass**.

To provide resistance to alkali or acid 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, up to 150 mm included to work as screed reinforcement correctly.

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 fibre grid is used as reinforcement of cement-, anhydrite- or resin-based screeds, situated in aggressive and/or corrosive environment (e.g. sewage plants, silage troughs, chemical, food processing, agricultural conditions etc.) to prevent a formation of shrinkage cracks. The maximum particle size grading of aggregate used in applied screed in relation to the fibre grid opening has to be taken into account to prevent the damage of the fibre grid during application and its action as a separation layer in a screed. The fibre grid size and tensile strength have to be taken into account in relation to screed thickness to work as correct reinforcement.

The reinforcement prevents the surface of hardened screed from cracking, caused by shrinkage.

The assessment methods included or referred to in EAD 260057-00-0303 have been written based on the manufacturer's request to take into account a working life of the glass fibre grid for reinforcement of cement-, anhydrite- or resin-based screed 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.

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

The essential characteristics of glass fibre grid for reinforcement of cement-, anhydrite- or resin-based screed **KOREFIB®** FiberMesh **2 mm, 3 mm** and **4 mm** and methods of verification were carried out in compliance with the EAD 260057-00-0303: Inorganic fibre grids for reinforcement of cement-, anhydrite- or resin-based screeds. Expression of product performance is stated in Table No. 1 – No. 3.

Table No. 1: glass fibre grid **KOREFIB®** FiberMesh 2 mm

<table>
<tr><th>No.</th><th>Essential characteristic and method of verification and assessment</th><th colspan="2">Expression of product performance
KOREFIB® FiberMesh 2 mm</th></tr>
<tr><td colspan="4">Safety in case of fire (BWR 2)</td></tr>
<tr><td>1</td><td>Reaction to fire
(EAD 260057-00-0303, Cl. 2.2.1, Commission Delegated Regulation (EU) 2016/364)</td><td colspan="2">No performance assessed</td></tr>
<tr><td rowspan="2">2</td><td rowspan="2">Organic content and ash content
(EAD 260057-00-0303, Cl. 2.2.2)</td><td>Ash content
(average value)</td><td>Organic content
(average value)</td></tr>
<tr><td>77.7 %
(at 625 °C)</td><td>22.3 %
(at 625 °C)</td></tr>
<tr><td>3</td><td>Gross heat of combustion
(EAD 260057-00-0303, Cl. 2.2.3)</td><td colspan="2">No performance assessed</td></tr>
<tr><td colspan="4">Hygiene, health and the environment (BWR 3)</td></tr>
<tr><td rowspan="2">4</td><td rowspan="2">Content, emission and/or release of dangerous substances
(EAD 260057-00-0303, Cl. 2.2.4)</td><td>Leachable substances</td><td rowspan="2">No performance assessed</td></tr>
<tr><td>Content of cadmium</td></tr>
<tr><td colspan="4">Safety and accessibility in use (BWR 4)</td></tr>
<tr><td>5</td><td>Grid size (EAD 260057-00-0303, Cl. 2.2.5)</td><td>Average grid size
(warp direction x weft direction)</td><td>49.9 x 50.0 mm</td></tr>
<tr><td>6</td><td>Grid opening (EAD 260057-00-0303, Cl. 2.2.6)</td><td>Average grid opening
(warp direction x weft direction)</td><td>48.0 x 48.0 mm</td></tr>
<tr><td>7</td><td>Coverage ratio (EAD 260057-00-0303, Cl. 2.2.7)</td><td>Coverage ratio [%]</td><td>8 %</td></tr>
</table>

No.	Essential characteristic and method of verification and assessment	Expression of product performance **KOREFIB®** FiberMesh 2 mm		
8	**Fabric accuracy** (260057-00-0303, Cl. 2.2.8)	An untrimmed edge in any length	**No performance assessed**	
		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 thread		
9	**Tensile strength and elongation in warp / weft direction** (260057-00-0303, Cl. 2.2.9)	Number of threads within the width of 50 mm of the sample used for tensile strength testing	warp direction	weft direction
			1 (20 per 1 m)	**1** (20 per 1 m)
		In the initial state - tensile strength $T_{max,m,\ in}$ - elongation ε	warp direction	weft direction
			76 kN/m **3.6 %**	**99 kN/m** **5.3 %**
		After alkali conditioning - tensile strength $T_{max,m,\ alk}$ - elongation ε - residual value of tensile strength $\Delta T_{max,ag}$	warp direction	weft direction
			79 kN/m **3.6 %** **103.9 %**	**90 kN/m** **4.7 %** **90.9 %**
		After acid conditioning - tensile strength $T_{max,m,\ acid}$ - elongation ε - residual value of tensile strength $\Delta T_{max,ag}$	warp direction	weft direction
			73 kN/m **3.4 %** **96.1 %**	**96 kN/m** **4.9 %** **97.0 %**
10	**Mass per unit area** (260057-00-0303, Cl. 2.2.10)	**246 g/m²**		
11	**Thickness** (260057-00-0303, Cl. 2.2.11)	**No performance assessed**		

Table No. 2: glass fibre grid **KOREFIB®** FiberMesh 3 mm

No.	Essential characteristic and method of verification and assessment	Expression of product performance **KOREFIB®** FiberMesh 3 mm	
Safety in case of fire (BWR 2)			
1	**Reaction to fire** (EAD 260057-00-0303, Cl. 2.2.1, Commission Delegated Regulation (EU) 2016/364)	**No performance assessed**	
2	**Organic content and ash content** (EAD 260057-00-0303, Cl. 2.2.2)	**Ash content** (average value)	**Organic content** (average value)
		76.3 % (at 625 °C)	**23.7 %** (at 625 °C)
3	**Gross heat of combustion** (EAD 260057-00-0303, Cl. 2.2.3)	**No performance assessed**	
Hygiene, health and the environment (BWR 3)			
4	**Content, emission and/or release of dangerous substances** (EAD 260057-00-0303, Cl. 2.2.4)	Leachable substances	**No performance assessed**
		Content of cadmium	
Safety and accessibility in use (BWR 4)			
5	**Grid size** (EAD 260057-00-0303, Cl. 2.2.5)	**Average grid size** *(warp direction x weft direction)*	**99.8 x 100.0 mm**
6	**Grid opening** (EAD 260057-00-0303, Cl. 2.2.6)	**Average grid opening** *(warp direction x weft direction)*	**96.8 x 96.9 mm**
7	**Coverage ratio** (EAD 260057-00-0303, Cl. 2.2.7)	**Coverage ratio** [*%*]	**6 %**
8	**Fabric accuracy** (260057-00-0303, Cl. 2.2.8)	An untrimmed edge in any length	**No performance assessed**
		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	

No.	Essential characteristic and method of verification and assessment	Expression of product performance **KOREFIB®** FiberMesh 3 mm		
		Weft skewing or weft waving over 4 % of width of the fabric (measured by a rectangular rule)		
		A cracked thread		
9	**Tensile strength and elongation in warp / weft direction** (260057-00-0303, Cl. 2.2.9)	Number of threads within the width of 50 mm of the sample used for tensile strength testing	warp direction	weft direction
			1 (10 per 1 m)	**1** (10 per 1 m)
		In the initial state - tensile strength $T_{max,m,\ in}$ - elongation ε	warp direction	weft direction
			91 kN/m **4.7 %**	**110 kN/m** **6.1 %**
		After alkali conditioning - tensile strength $T_{max,m,\ alk}$ - elongation ε - residual value of tensile strength $\Delta T_{max,ag}$	warp direction	weft direction
			87 kN/m **4.6 %** **95.6 %**	**99 kN/m** **5.7 %** **98.2 %**
		After acid conditioning - tensile strength $T_{max,m,\ acid}$ - elongation ε - residual value of tensile strength $\Delta T_{max,ag}$	warp direction	weft direction
			91 kN/m **4.8 %** **100.0 %**	**108 kN/m** **6.0 %** **90.0 %**
10	**Mass per unit area** (260057-00-0303, Cl. 2.2.10)	**283 g/m²**		
11	**Thickness** (260057-00-0303, Cl. 2.2.11)	**No performance assessed**		

Table No. 3: glass fibre grid **KOREFIB®** FiberMesh 4 mm

No.	Essential characteristic and method of verification and assessment	Expression of product performance **KOREFIB®** FiberMesh 4 mm	
Safety in case of fire (BWR 2)			
1	**Reaction to fire** (EAD 260057-00-0303, Cl. 2.2.1, Commission Delegated Regulation (EU) 2016/364)	**No performance assessed**	
2	**Organic content and ash content** (EAD 260057-00-0303, Cl. 2.2.2)	**Ash content** (average value)	**Organic content** (average value)
		78.7 % (at 625 °C)	**21.3 %** (at 625 °C)
3	**Gross heat of combustion** (EAD 260057-00-0303, Cl. 2.2.3)	**No performance assessed**	
Hygiene, health and the environment (BWR 3)			
4	**Content, emission and/or release of dangerous substances** (EAD 260057-00-0303, Cl. 2.2.4)	Leachable substances	**No performance assessed**
		Content of cadmium	
Safety and accessibility in use (BWR 4)			
5	**Grid size** (EAD 260057-00-0303, Cl. 2.2.5)	**Average grid size** *(warp direction x weft direction)*	**99.7 x 98.8 mm**
6	**Grid opening** (EAD 260057-00-0303, Cl. 2.2.6)	**Average grid opening** *(warp direction x weft direction)*	**95.4 x 94.7 mm**
7	**Coverage ratio** (EAD 260057-00-0303, Cl. 2.2.7)	**Coverage ratio** [*%*]	**8 %**
8	**Fabric accuracy** (260057-00-0303, Cl. 2.2.8)	An untrimmed edge in any length	**No performance assessed**
		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	

No.	Essential characteristic and method of verification and assessment	Expression of product performance **KOREFIB®** FiberMesh 4 mm		
		Weft skewing or weft waving over 4 % of width of the fabric (measured by a rectangular rule)		
		A cracked thread		
9	**Tensile strength and elongation in warp / weft direction** (260057-00-0303, Cl. 2.2.9)	Number of threads within the width of 50 mm of the sample used for tensile strength testing	warp direction	weft direction
			1 (10 per 1 m)	**1** (10 per 1 m)
		In the initial state - tensile strength $T_{max,m,\ in}$ - elongation ε	warp direction	weft direction
			130 kN/m **4.8 %**	**180 kN/m** **7.1 %**
		After alkali conditioning - tensile strength $T_{max,m,\ alk}$ - elongation ε - residual value of tensile strength $\Delta T_{max,ag}$	warp direction	weft direction
			121 kN/m **4.3 %** **93.1 %**	**156 kN/m** **6.0 %** **86.7 %**
		After acid conditioning - tensile strength $T_{max,m,\ acid}$ - elongation ε - residual value of tensile strength $\Delta T_{max,ag}$	warp direction	weft direction
			129 kN/m **4.4 %** **99.2 %**	**175 kN/m** **6.6 %** **97.2 %**
10	**Mass per unit area** (260057-00-0303, Cl. 2.2.10)	**456 g/m²**		
11	**Thickness** (260057-00-0303, Cl. 2.2.11)	**No performance assessed**		

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

According to the European Commission decision 2003/655/EC, the **AVCP system 2+** (further described in Annex V to Regulation (EU) No 305/2011 as amended) applies.

5. 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.

The control plan for the manufacturer/corner stones (factory production control) is specified in Cl. 3.2 of EAD 260057-00-0303 Inorganic fibre grids for reinforcement of cement-, anhydrite- or resin-based screeds. Manufacturer and Technical and Test Institute for Construction Prague have agreed a control plan which is deposited with the Technical and Test Institute for Construction Prague in documentation which accompanies the ETA.

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By
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