



TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.

Technical and Test Institute for Construction Prague

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TEST REPORT

Testing Laboratory

No 060-062025

On test – properties of mesh and tensile strength incl. elongation

Manufacturer: **Kelteks d.o.o.**
Address: Dr.Slavka Rozgaja 3, 47000 Karlovac, Croatia
Identification No: HR41431665528

Plant: Kelteks d.o.o.
Address: Dr.Slavka Rozgaja 3, 47000 Karlovac, Croatia

Test samples: **solidian Briksy 40 mm (HYB-R185/14-HY-528(660)-AGS2-8x30)**
solidian Briksy 100 mm (HYB-R222/28-HY-661(860)-AGS2-6x30)
solidian Briksy 100 mm (HYB-R185/14-HY-528(660)-AGS2-8x30)

Order No.: Z060260026

Number of pages of the Test Report incl. title page: 5

Pages of annexes: 0

Prepared by:

Approved by:

Copy no.: 1

Number of copies: 2




Mgr. Olga Otrusinová
test technician – specialist


Ing. Martin Zaděláč
head of the Testing Department

Brno, on 17. 06. 2026

Declaration: 1) The test results in this Report relate only to the tested article and they do not substitute any other documents
2) The Test Report must be copied as a whole only otherwise a written consent of the testing laboratory is needed.

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Zapsáno v obchodním rejstříku u Městského soudu v Praze, oddíl ALX, vložka 711, IČ: 00015679, DIČ: CZ00015679

1. Samples data

Evidence Number:	VZ060260198
Samples:	solidian Briksy 40 mm (HYB-R185/14-HY-528(660)-AGS2-8x30) solidian Briksy 100 mm (HYB-R222/28-HY-661(860)-AGS2-6x30) solidian Briksy 100 mm (HYB-R185/14-HY-528(660)-AGS2-8x30)
Description:	width of 4 cm, 10 cm, and 10 cm, respectively
Date of sample delivery:	09. 04. 2026
Taken over by:	Ing. Marek Sopko
Storage:	chemist laboratory

The test results apply to the sample as received.

2. Test methods

Identification of the test method:		Title of the test method
EAD 260057-00-0303 čl. 2.2.5 - 2.2.7	Inorganic fibre grids for reinforcement of cement-, anhydrite- or resin-based screeds	Grid size, grid opening, coverage ratio
EAD 260057-00-0303 čl.2.2.9		Tensile strength and elongation

Additions, deviations or exclusions from the standard procedure or use of non-standardized methods: were not applied.

3. Test results

The tests were performed on:	14. 04. - 17. 06. 2026
The tests were performed by:	Mgr. Olga Otrusínová
Place of testing:	Laboratories of testing laboratory Brno
Data on the person who performed the test, measured data, test conditions and equipment used, are listed in the Test Minutes. Apparatuses and measuring instruments that used have been certified pursuant to a valid plan of the Testing Department Brno.	

3.1. Explanatory notes

symbol	meaning	unit
F_{max}	max force	N
$R_{50, i}$	max force at sample 50 mm	N/50mm
ϵ_i	elongation at F_{max}	%
$T_{max, m}$	tensile strength per 1 meter	kN/m
$\Delta T_{max, age.}$	residual tensile strength	%



3.2. Preparation of tested sample, tensile strength, and elongation of the sample: solidian Briksy 40 mm (HYB-R185/14-HY-528(660)-AGS2-8x30)

threads	warp
average measured width [mm]	40
number of threads in width [n.]	4
number of threads per 1m [n.]	100
number of threads n_{50} [n.]	5,0
number of threads in sample [n.]	4

• **Properties in initial state according to annex. B.4.1**

sample	tensile properties in initial state according to annex. B.4.1				tensile properties after alkali ageing state according to annex. B.4.2 (23 °C, 28 days)			
R185/14 4 cm	F_{max}	$R_{50,i}$	ϵ_{max}	$T_{max,m}$	F_{max}	$R_{50,i}$	ϵ_{max}	$T_{max,m}$
n.	N	N/50mm	%	kN/m	N	N/50mm	%	kN/m
1	8824	11029	1,2	220,6	8572	10714	1,2	214,3
2	8465	10581	1,2	211,6	8580	10724	1,1	214,5
3	8501	10626	1,3	212,5	8753	10941	1,2	218,8
4	8691	10864	1,3	217,3	8539	10673	1,2	213,5
5	8533	10666	1,3	213,3	8565	10706	1,1	214,1
6	8394	10493	1,1	209,9	8414	10517	1,2	210,3
7	8514	10643	1,2	212,9	8950	11188	1,2	223,8
8	8779	10974	1,1	219,5	8744	10929	1,2	218,6
9	8924	11154	1,3	223,1	8685	10856	1,1	217,1
10	8949	11186	1,2	223,7	8849	11061	1,1	221,2
average	8657	10822	1,2	216	8665	10831	1,2	217

The relative value of residual tensile strength - warp direction	
$\Delta T_{max, m, alk}$	100,1 %

3.3. Grid size, grid opening, coverage ratio of the sample: solidian Briksy 40 mm (HYB-R185/14-HY-528(660)-AGS2-8x30)

grid size		grid opening	
warp threads	weft threads	warp threads	weft threads
10,0 mm	33,9 mm	5,7 mm	30,8 mm
coverage ratio		48 %	



3.4. Preparation of tested sample, tensile strength, and elongation of the sample: solidian Briksy 100 mm (HYB-R222/28-HY-661(860)-AGS2-6x30)

threads	warp
average measured width [mm]	100
number of threads in width [n.]	12
number of threads per 1m [n.]	120
number of threads n_{50} [n.]	6,0
number of threads in sample [n.]	7

• **Properties in initial state according to annex. B.4.1**

sample	tensile properties in initial state according to annex. B.4.1				tensile properties after alkali ageing state according to annex. B.4.2 (23 °C, 28 days)			
R222/28 10 cm	F_{max}	$R_{50,i}$	ϵ_{max}	$T_{max,m}$	F_{max}	$R_{50,i}$	ϵ_{max}	$T_{max,m}$
n.	N	N/50mm	%	kN/m	N	N/50mm	%	kN/m
1	14126	12108	1,4	242,2	15756	13505	1,4	270,1
2	15084	12929	1,3	258,6	14727	12623	1,3	252,5
3	15035	12887	1,6	257,7	14695	12596	1,0	251,9
4	14864	12740	1,3	254,8	15101	12943	1,4	258,9
5	14008	12007	1,0	240,1	14627	12537	1,3	250,7
6	14687	12588	1,4	251,8	14306	12262	1,9	245,2
7	14485	12416	1,1	248,3	14491	12420	1,5	248,4
8	14587	12503	1,2	250,1	15054	12903	0,9	258,1
9	14641	12549	1,6	251,0	14050	12043	0,8	240,9
10	14566	12485	1,4	249,7	14856	12733	1,4	254,7
average	14608	12521	1,3	250	14766	12657	1,3	253

The relative value of residual tensile strength - warp direction	
$\Delta T_{max, m, alk}$	101,1 %

3.5. Grid size, grid opening, coverage ratio of the sample: solidian Briksy 100 mm (HYB-R222/28-HY-661(860)-AGS2-6x30)

grid size		grid opening	
warp threads	weft threads	warp threads	weft threads
8,3 mm	34,1 mm	5,8 mm	30,4 mm
coverage ratio		38 %	



3.6. Preparation of tested sample, tensile strength, and elongation of the sample: solidian Briksy 100 mm (HYB-R185/14-HY-528(660)-AGS2-8x30)

threads	warp
average measured width [mm]	100
number of threads in width [n.]	10
number of threads per 1m [n.]	100
number of threads n_{50} [n.]	5,0
number of threads in sample [n.]	6

• **Properties in initial state according to annex. B.4.1**

sample	tensile properties in initial state according to annex. B.4.1				tensile properties after alkali ageing state according to annex. B.4.2 (23 °C, 28 days)			
R185/14 10 cm	F_{max}	$R_{50,i}$	ϵ_{max}	$T_{max,m}$	F_{max}	$R_{50,i}$	ϵ_{max}	$T_{max,m}$
n.	N	N/50mm	%	kN/m	N	N/50mm	%	kN/m
1	12507	10423	1,2	208,5	12886	10738	1,5	214,8
2	12533	10444	1,3	208,9	12751	10625	1,2	212,5
3	12789	10657	1,2	213,1	12802	10668	1,0	213,4
4	12912	10760	1,3	215,2	12923	10769	1,5	215,4
5	13443	11203	1,2	224,1	12752	10626	1,3	212,5
6	13055	10879	1,2	217,6	12852	10710	1,4	214,2
7	13152	10960	1,9	219,2	12359	10299	1,2	206,0
8	13275	11063	1,2	221,3	13046	10872	1,3	217,4
9	12330	10275	1,2	205,5	12908	10757	1,1	215,1
10	12555	10462	1,1	209,2	13109	10924	1,0	218,5
average	12855	10713	1,3	214	12839	10699	1,3	214

The relative value of residual tensile strength - warp direction	
$\Delta T_{max, m, alk}$	99,9 %

3.7. Grid size, grid opening, coverage ratio of the sample: solidian Briksy 100 mm (HYB-R185/14-HY-528(660)-AGS2-8x30)

grid size		grid opening	
warp threads	weft threads	warp threads	weft threads
10,0 mm	33,8 mm	5,8 mm	30,7 mm
coverage ratio		48 %	

END OF THE TEST REPORT

