

## CERTIFICATE

**Kind of testing:** Testing of reinforcement fabric

**Testing regulations:** Document "ETAG Nr. 004, Paragraph 5.6.7.1"

**Fabric description:**

Producer:	W. Gröning
Product name:	ARMITEX
Product type:	2424330
Weight (approx.):	165 [g/m <sup>2</sup> ]
Mesh width (approx.):	4 x 4 [mm x mm]
Number of threads, warp:	24 [1/100 mm]
Number of threads, weft:	21 [1/100 mm]
Size of sample:	350 x 50 [mm x mm]

**Testing results:**

Tensile strength (average)	Warp	Weft	
Tensile strength in <b>original condition</b> :	<b>44</b>	<b>45</b>	[N/mm]
	2.216	2.256	[N/50mm]
Tensile strength after alkaline treatment <b>28 days</b> :	<b>29</b>	<b>31</b>	[N/mm]
	1.460	1.534	[N/50mm]

Elongation, Tensile strength/Elongation	Warp	Weft	
Elongation at break, no alkaline treatment	<b>3,1</b>	<b>3,1</b>	[%]
Elongation at break, after alkaline treatment	<b>2,6</b>	<b>2,9</b>	[%]
Tensile strength/Elongation (no alkaline treatment)	<b>1,4</b>	<b>1,5</b>	[kN/mm]
Tensile strength/Elongation (after alkaline treatment)	<b>1,1</b>	<b>1,1</b>	[kN/mm]
Remaining tensile strength after alkaline treatment	<b>65,9</b>	<b>68,0</b>	[%]

<b>Weight</b>	<b>164</b>	[g]
<b>Weight lost, annealed</b>	<b>22</b>	[%]

Individual values [N/50mm]:

Sample No.	Warp		Weft	
	original condition	after alkaline treatment 28 days	original condition	after alkaline treatment 28 days
1	2.240	1.620	2.360	1.520
2	2.300	1.440	2.360	1.520
3	2.220	1.380	2.260	1.520
4	2.240	1.380	2.100	1.680
5	2.280	1.400	2.280	1.600
6	2.240	1.520	2.180	1.460
7	2.160	1.480	2.340	1.420
8	2.180	1.480	2.300	1.400
9	2.100	1.400	2.260	1.620
10	2.200	1.500	2.120	1.600
<b>Average</b>	<b>2.216</b>	<b>1.460</b>	<b>2.256</b>	<b>1.534</b>

Rheine, 10-10-2013

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