



Accredited Testing Laboratory No.

TEST REPORT

on Fire and Technical Characteristics



Sponsor:

THE TEST ITEM

Product name: Cotton fabric with fungicidal, hydrophobic and non-permanent fire retardant treatment

Manufacturer: See sponsor

Composition: See product name

Appearance: Beige woven fabric of thickness 0,4 mm and mass per unit area 330 g/m². Face side and back side are identical.

Fixing of the test specimens: Fixed on standardised metallic frame according to DIN 4102-15, table 1, detail 1.

Date of receipt of the sample: 2013-04-03 **Sampling:** The samples were delivered by the sponsor

Date of realization of tests: 26th to 29th April 2013

Conditioning: 14 days at temperature T = (23±2) °C and relative humidity at RV = (50±5) %

TEST METHOD:

DIN 4102-1:1998 Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests.

DIN 4102-16:1998 Fire behaviour of building materials and building components - Part 16: "Brandschacht" tests.

DIN 4102-15:1990 Fire behaviour of building materials and elements "Brandschacht".

MEASURED VALUES AND TEST RESULTS

Measuring and observations	Test specimen No.		
	1	2	3
Residual length of the every test specimen [cm]	66, 57, 68, 62	61, 63, 58, 66	58, 63, 60, 65
Residual length average value of the test specimen [cm]	63,3	62,0	61,5
The highest smoke temperature [°C]	117,5	127,7	123,3
Time to accomplish of the highest temperature of the smoke [min:s]	8:58	9:24	9:12
The highest flame level above the bottom edge of the test specimen [cm]	40	50	40

Time to accomplish of the highest flame level	[min:s]	0:40	0:40	0:40
Smoke production	[%min]	46,2	47,9	41,3
Maximum light attenuation	[%]	6,6	7,1	8,4
Time to accomplish the maximum smoke density	[min:s]	5:37	5:54	6:12
Time of sustained burning after end of test	[s]	0	0	0
Time of gloving after end of test	[s]	0	0	0
Flaming droplets / particles	[yes/no]	no	no	no
Burning time of droplets	[s]	(-)	(-)	(-)

Observations during the tests: Charred non-burning particles fell during the test.

Testing according to DIN 4102-1:1998, clause 6.2.5 (Baustoffklasse B2):

The product *Cotton fabric with fungicidal, hydrophobic and non-permanent fire retardant treatment* does comply with requirements given in DIN 4102 - 1:1998 for B2 classification. Measured values and test results are showed in the Test report No. _____
Fire technical laboratory.

Conclusion:

The tested sample of product *Cotton fabric with fungicidal, hydrophobic and non-permanent fire retardant treatment* does comply with requirements given in the standard DIN 4102 - 1:1998 for classification:

DIN 4102-B1

The test results relate to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product of use. The results of tests are concerned only with the subject of testing. The protocol shall not be reproduced except in full without the written approval of the testing laboratory.

Responsible person: \

Date: 2013-05-06

Annexes:

Annex 1: The photograph of the exposed surface of the test specimens (Test specimen No. 2)

Annex 2: The graphs of measured and calculated values (Test Specimen No. 2)

*** END OF TEST REPORT ***



NUMBER : TSNT00360312

Applicant : Canvas Camp Bvba Vat No.:Be 0822.182.688
Brabantdam 141 9000 Gent Belgium
Attn : Frederik Hiergens

Date : Jun 24, 2011

Sample Description:

One (1) Piece Of Submitted Woven Fabric With Coating In Beige For Tent.

Date Received : 06/17/2011

Date Tests Started : 06/17/2011

Tests Conducted:

As Requested By The Applicant, For Details Refer To Attached Page(S)

Conclusion:

Based Upon The Results Of The Flammability Test Reported, The Sample Submitted For Testing Meets The Performance Requirements Prescribed In CPAI-84 Section 6 For Wall And Top Material Of Camping Tentage In Original, After Leaching States.

Authorized By :
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NUMBER : TSNT00360312

Tests Conducted:

1. Flammability Test (CPAI 84-1995, Section 6):

Test Procedure

The Apparatus And Methods Of Testing Were Those Described In The Canvas Products Association International Specification CPAI-84 Flame Resistant Materials Used In Camping Tentage, Section 6 For Wall And Top Material.

Requirement

1. After Flame – 4.0 Seconds Maximum For Any Specimen.
2.0 Seconds Maximum For Average Of All Specimen.
2. Damaged Length - 255 Mm Maximum For Any Specimen.
115 Mm Maximum For Average Of All Specimen.
3. Portions Or Residues That Break Or Drip Shall Not Continue To Flame After They Reach The Floor Of The Test Cabinet.
4. Materials Shall Meet These Requirements In Original, After 72 Hours Water Leaching And After 60 Hours Accelerated Weathering.

Test Result :

	<u>Original</u>			
	<u>After Flame Time</u>		<u>Damaged Length</u>	
	(Seconds)		(mm)	
	1.0	1.6	73	56
	2.0	1.8	54	63
	1.2	1.2	56	67
	1.4	1.2	63	51
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Average :	1.4		60	

	<u>After Leaching</u>			
	<u>After Flame Time</u>		<u>Damaged Length</u>	
	(Seconds)		(mm)	
	1.0	1.0	53	103
	2.0	1.4	93	80
	2.0	1.2	54	51
	1.2	1.0	90	64
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Average :	1.4		74	

Remark : * = Continuous Flaming Was Observed After The Dripped/Broken Material Fell On The Floor Of The Test Cabinet.
The Fabric Weight Of The Sample Is 559 g/m².