Łukasiewicz
Instytut Włókiennictwa
Laboratory of Testing Raw Materials, Textiles and Electrostatic Properties
Łukasiewicz Research Network – Textile Research Institute,
92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638
90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490
e-mail: beata.witkowska@iw.lukasiewicz.gov.pl ,
jerzy.andrysiak@iw.lukasiewicz.gov.pl

AB 164

Testing Laboratory accredited by the Polish Centre for Accreditation

TEST REPORT NO. BM 250.3 / 2021 / B / A

1. **Test ordered by:** X „TOPTEXTIL" Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material**: the sample: X **the upholstery woven fabric BALOO,** declared raw material composition: 93% Polyester, 6% Acrylic, 1% Cotton.
3. **Date of receiving material for testing:** 2021-04-27
4. **Date of test performance:** 2021-05-13
5. **Samples taken by:** X correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
6. **Tests carried out according to:** methods presenting in testing table



Results of Laboratory Tests

see page 2/2

Test performed by: Małgorzata Frołow

1. Test results refer only to the tested material.
2. Neither of the parts of this Test Report can be copied without written permission of the Head of the Laboratory; it can be copied only as a whole document.
3. Test Report presents test results included within accreditation field of testing.
4. Test results not included in accreditation scope, if occur, are marked with in the test results table, at the parameter name.*
5. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) / 92-103 Łódź, ul. Brzezińska 5/15 (B).
6. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document EA-4/16. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.
7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit in specification. The conformity statemen's rules given by Client could be allowed.

Sieć Badawcza Łukasiewicz-Instytut Włókiennictwa LABORATORIUM BADAŃ SUROWCÓW, WYROBÓW I WŁASNOŚCI ELEKTROSTATYCZNYCH 92-103 Łódź, Brzezińska 5/15 tel. 42 61 63 142, fax 42 67 92 638

Test Report date: 2021-04-14
Number of Test Report 's copies: 2
Test Report handed to:
1) „TOPTEXTIL" Sp. z o.o., Wadowice - 1 copy,
2) Laboratory of Testing Raw Materials, Textiles and Electrostatic Properties (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report:
Laboratorium Badań Surowców, Wyrobów Włókienniczych i Własności Elektrostatycznych
GŁÓWNY SPECJALISTA
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

TEST REPORT NO. BM 250.3 / 2021 / B / A

Parameter	Value	Remarks
Seam slippage resistance, mm: Warp **The mean value of seam slippage resistance for warp direction, mm** - individual results, mm Weft **The mean value of seam slippage resistance for weft direction, mm** - individual results, mm	**2 ± 0** 3; 2; 2; 2; 2 **3 ± 0** 3; 4; 4; 3; 3	PN-EN ISO 13936-2:2005 sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%, tensile tester: Hounsfield H50 KM, testing force: 180 N, 100% PES sewing threads (74 ± 5) tex, the number of sewing needle: 110 the number of stitch: 32±2/100 mm rate of extension: 50 mm/min. number of test specimens: 5
Evaluation: according to PN-EN 14465:2005 + A1:2007 requirements level: **A category: ≤ 4 mm;** B category: ≤ 6 mm; C category: ≤ 8 mm		

Person authorizing the Test Report

Laboratorium Badań Surowców, Wyrobów Włókienniczych i Własności Elektrostatycznych
GŁÓWNY SPECJALISTA
Z-CA KIEROWNIKA

The end of Test Report mgr inż. Jerzy Andrysiak

Łukasiewicz
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92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638
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jerzy.andrysiak@iw.lukasiewicz.gov.pl

AB 164

Testing Laboratory accredited by the Polish Centre for Accreditation

TEST REPORT NO. BM 250.1 / 2021 / B / A

1. **Test ordered by:** X „TOPTEXTIL" Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material**: the sample: X **the upholstery woven fabric BALOO,** declared raw material composition: 93% Polyester, 6% Acrylic, 1% Cotton.
3. **Date of receiving material for testing:** 2021-04-27
4. **Date of test performance:** 2021-04-28 ÷ 05-11
5. **Samples taken by:** X correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
6. **Tests carried out according to:** methods presenting in testing table



Results of Laboratory Tests

see page 2/2

Test performed by: Malgorzata Frolow

1. Test results refer only to the tested material.
2. Neither of the parts of this Test Report can be copied without written permission of the Head of the Laboratory; it can be copied only as a whole document.
3. Test Report presents test results included within accreditation field of testing.
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6. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document EA-4/16. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.
7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limits given in specification. The conformity statemen's rules given by Client could be allowed.

Test Report date: 2021-05-14
Number of Test Report 's copies: 2
Test Report handed to:
1) „TOPTEXTIL" Sp. z o.o., Wadowice - 1 copy,
2) Laboratory of Testing Raw Materials, Textiles and Electrostatic Properties (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report:
Laboratorium Badań Surowców, Wyrobów Włókienniczych i Własności Elektrostatycznych
GŁÓWNY SPECJALISTA
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

TEST REPORT NO. BM 250.1 / 2021 / B / A

Parameter		Value	Remarks
Abrasion resistance, number of rubs	color change after 3 000 rubs, grade of grey scale	4 - 5	PN-EN ISO 12947-2:2017-02 + PN-EN 14465:2005+A1:2007, Annex A sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%, the abradant: the standard woolen fabric, the nominal pressure used in the test: 12 kPa, magnification factor in the magnifying device: 8. Criterion of destruction of the testing specimens in accordance with that standard: flat woven fabric – three threads completely broken.
	1 specimen	≥100 000 without reaching the end-point	
	2 specimen	≥100 000 without reaching the end-point	
	3 specimen	≥100 000 without reaching the end-point	
	4 specimen	≥100 000 without reaching the end-point	
	Total abrasion resistance (the lowest individual result)	**≥100 000 without reaching the end-point**	
Evaluation: according to PN-EN 14465:2005 + A1:2007: **A category: number of rubs ≥ 35 000 rubs,** B category: number of rubs: 12 000 ÷ 30 000, C category: number of rubs: 4 000 ÷ 10 000			

Person authorizing the Test Report
Laboratorium Badań Surowców, Wyrobów Włókienniczych i Własności Elektrostatycznych
GŁÓWNY SPECJALISTA
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

The end of Test Report

Łukasiewicz
Instytut Włókiennictwa
Laboratory of Testing Raw Materials, Textiles and Electrostatic Properties
Łukasiewicz Research Network – Textile Research Institute,
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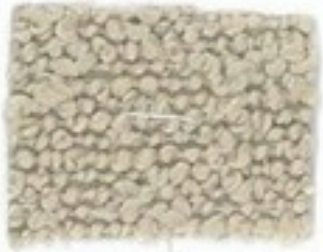
jerzy.andrysiak@iw.lukasiewicz.gov.pl

AB 164

Testing Laboratory accredited by the Polish Centre for Accreditation

TEST REPORT NO. BM 250.2 / 2021 / B / A

1. **Test ordered by:** X „TOPTEXTIL" Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material**: the sample: X **the upholstery woven fabric BALOO,** declared raw material composition: 93% Polyester, 6% Acrylic, 1% Cotton.
3. **Date of receiving material for testing:** 2021-04-27
4. **Date of test performance:** 2021-05-12
5. **Samples taken by:** X correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
6. **Tests carried out according to:** methods presenting in testing table



Results of Laboratory Tests

see page 2/2

Test performed by: Malgorzata Frolow

1. Test results refer only to the tested material.
2. Neither of the parts of this Test Report can be copied without written permission of the Head of the Laboratory; it can be copied only as a whole document.
3. Test Report presents test results included within accreditation field of testing.
4. Test results not included in accreditation scope, if occur, are marked with in the test results table, at the parameter name.*
5. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) / 92-103 Łódź, ul. Brzezińska 5/15 (B).
6. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document EA-4/16. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.
7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit given in specification. The conformity statemen's rules given by Client could be allowed.

Test Report date: 2021-05-14
Number of Test Report 's copies: 2
Test Report handed to:
1) „TOPTEXTIL" Sp. z o.o., Wadowice - 1 copy,
2) Laboratory for Testing Raw Materials, Textiles and Electrostatic Properties (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report:

Laboratorium Badań Surowców, Wyrobów Włókienniczych i Właściwości Elektrostatycznych
GŁÓWNY SPECJALISTA
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

Parameter		Value	Remarks
Propensity to surface fuzzing and pilling, grade	the number of rubs 500	5	PN-EN ISO 12945-2:2002 (modified Martindale method) sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%, number of test specimens: 3, number of evaluators: 3, the abradant: the standard woolen fabric; mass of weight: (415 ± 2) g.
	1 000	4 – 5	
	2 000	**4 – 5** **Slight surface fuzzing**	
	5 000	4 - 5	
Evaluation according to PN-EN 14465:2005+A1:2007: **A category: grade ≥ 4 – 5;** B category: grade 4; C category: grade 3 – 4; D category: grade 3			

Person authorizing the Test Report

Laboratorium Badań Surowców, Wyrobów Włókienniczych i Własności Elektrostatycznych
GŁÓWNY SPECJALISTA
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

The end of Test Report

Łukasiewicz
Instytut Włókiennictwa

Laboratory of Chemical Testing and Instrumental Analysis

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e-mail: jerzy.piestrzeniewicz@iw.lukasiewicz.gov.pl,
agnieszka.lisiak-kucinska@iw.lukasiewicz.gov.pl

AB 077

Łódź, 24th of May 2021

L–176/2021

TEST CERTIFICATE No BCH 160/385/2021/A

1. **Name and address of the principal** X): **„TOPTEXTIL" Sp. z o.o. 34 – 100 Wadowice, ul. Mickiewicza 29**
2. **Subject of study** X): Sample of furniture upholstery fabric BALOO – raw material composition: 93% polyester/6% acrylic/1% cotton
3. **Date of receiving sample for testing:** 26.04.2021
4. **Date of the test conducting:** 04.05 – 24.05.2021
5. **Sampling :** sample in a proper size, in a proper condition for research, supplied by the customer

RESULTS OF THE TESTS

Tested feature	Result of the test [degree] 1)	Reference document	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007 A	B	C
Colour fastness to: *- artificial light*	a/ 6	PN-EN ISO 105-B02:2014-11 Method No 2	Device: Xenotest Alpha LM Light conditions: A1 Radiation measurement in the range (300-400) nm Sample rotation was not used	≥ 6	≥ 5	≥ 4

1) Colour fastness according to "Blue scale" , indicator "8" means – no change in colour of the sample, indicator "1" means – big change in colour
a/ change in colour of the sample

Remarks:
1. Test results refer only to the tested material.
2. Neither of the parts of this test certificate can be copied without written permission of the Head of the Laboratory.
3. X) Data provided by the principal/customer.
4. Total number of pages of the test certificate: 1.

Authorized by:
Marta Łatwińska, PhD

Confirmed by:

Laboratorium Badań Chemicznych
i Analiz Instrumentalnych
GŁÓWNY SPECJALISTA
Z-CA KIEROWNIKA/KIEROWNIK TECHNICZNY
mgr inż. Agnieszka Lisiak-Kucińska

Number of copies of the test certificate: 3
The test certificate receive:
- Customer - 2 copies
- The ŁUKASIEWICZ Research Network – Textile Research Institute – BCH - 1 copy

– THE END –

Łukasiewicz
Instytut Włókiennictwa

Laboratory of Chemical Testing and Instrumental Analysis

The ŁUKASIEWICZ Research Network – Textile Research Institute
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phone No +48 42 61-63-130 (128), fax +48 42 61-63-131
e-mail: jerzy.piestrzeniewicz@iw.lukasiewicz.gov.pl,
agnieszka.lisiak-kucinska@iw.lukasiewicz.gov.pl

AB 077

Łódź, 24th of May 2021

L–176/2021

TEST CERTIFICATE No BCH 160/385/2021/A/1

1. **Name and address of the principal** X): **„TOPTEXTIL" Sp. z o.o. 34 – 100 Wadowice, ul. Mickiewicza 29**
2. **Subject of study** X): Sample of furniture upholstery fabric BALOO – raw material composition: 93% polyester/6% acrylic/1% cotton
3. **Date of receiving sample for testing:** 26.04.2021
4. **Date of the test conducting:** 04.05 – 24.05.2021
5. **Sampling :** sample in a proper size, in a proper condition for research, supplied by the customer

RESULTS OF THE TESTS

Tested feature	Result of the test [degree] 1)	Reference document	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007 A	B	C
Colour fastness to rubbing:		PN-EN ISO 105-X12:2016-08	Acclimatization time: 4h Temperature of the test: 19.3°C; Humidity of the test: 43.7%; rubbing pick: Ø 16±0,1mm; push: 9±0.2 N degree of moisturising of the rubbing cotton fabric: 100%			
- Dry						
longitudinal direction	a/ 5			≥ 4-5	4	3-4
cross direction	a/ 5					
- Wet						
longitudinal direction	a/ 4-5			≥ 3-4	3	2-3
cross direction	a/ 4-5					

1) Colour fastness according to "Grey scale" , indicator "5" means – no change in colour of the cotton rubbing fabric, indicator "1" means – big change in colour
a/ staining - the cotton rubbing fabric

Remarks:
1. Test results refer only to the tested material.
2. Neither of the parts of this test certificate can be copied without written permission of the Head of the Laboratory.
3. X) Data provided by the principal/customer.
4. Total number of pages of the test certificate: 1.

Authorized by:
Marta Łatwińska, PhD

Confirmed by:
Laboratorium Badań Chemicznych i Analiz Instrumentalnych
GŁÓWNY SPECJALISTA
Z-CA KIEROWNIKA/KIEROWNIK TECHNICZNY
mgr inż. Agnieszka Lisiak-Kucińska

Number of copies of the test certificate: 3
The test certificate receive:
- Customer - 2 copies
- The ŁUKASIEWICZ Research Network – Textile Research Institute – BCH - 1 copy

– THE END –

Łukasiewicz
Instytut Włókiennictwa
Laboratory of Flammability Testing
The Łukasiewicz Research Network - Textile Research Institute,
92-103 Lodz, 5/15 Brzezinska Str.
Laboratory: 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534435 (436), fax 48 42 2534490
e-mail: : malgorzata.szejna@iw.lukaszewicz.gov.pl

PCA Polski Centrum Akredytacji BADANIA
AB 029

TEST CERTIFICATE ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 162 / BP / 21



Test method:

PN-EN 1021-1:2014-12 Furniture. Assessment of the ignitability of upholstered furniture. Part 1: Ignition source smouldering cigarette.

Orderer*:

TOPTEXTIL Sp. z o.o.
ul. Mickiewicza 29
34-100 Wadowice

Sieć Badawcza Łukasiewicz-Instytut Włókiennictwa
LABORATORIUM BADAŃ PALNOŚCI WYROBÓW
90-520 Łódź, Gdańska 118
tel. 42 25 34 435, fax 42 25 34 490

Subject of testing*:

Upholstery composite:
- upholstery fabric named BALOO, composition: 93% Polyester, 6% Acrylic, 1% Cotton
- polyurethane foam T-3037 SG, self-extinguish

Testing sample with the correct size, in appropriate state for testing,
supplied by the Orderer with its characteristic and without the Sampling Protocol.

Results of testing:

Standard	Test method	Result
PN-EN 1021-1:2014-12	Ignition source: smouldering cigarette	**Neither progressive smouldering ignition nor flaming ignition occurred.**

The above test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

Tests performed by:

Krzysztof Kostanek Ph.D.

Test Certificate authorized by

Laboratorium Badań Palności Wyrobów
GŁÓWNY SPECJALISTA
KIEROWNIK
mgr inż. Małgorzata Szejna

Sample received on: 28.04.2021
Test performed on: 28.05.2021
Test Certificate issued on: 28.05.2021

NOTES:
1. The Testing results refer only to the tested sample.
2. Test Certificate consists of 2 pages.
3. Test Certificate must not be reproduced in another way, than as a whole without a prior written consent of the Testing Laboratory.
4. The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for testing. *Data provided by the Customer.
5. *Data provided by the Customer.

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) %; time 24 h
Testing conditions: temperature 25 °C; humidity 36 %

Preparation of test samples:

the upholstery fabric, exposed to wetting in water and drying procedure, in accordance with Appendix D of the PN-EN 1021-1:2014-12 standard.

Upholstery composite characteristic:

Upholstery composite:

- upholstery fabric named BALOO, composition: 93% Polyester, 6% Acrylic, 1% Cotton
- T-3037polyurethane foam, self-extinguish.

Criteria		Cigarette			Remarks					
		1	2	3						
Smouldering criteria	Unsafe escalating combustion	NO	NO	-	Maximum cigarette smouldering time: 15 minutes 26 seconds					
	Test assembly consumed	NO	NO	-						
	Smoulders to extremities	NO	NO	-						
	Smoulders through thickness	NO	NO	-						
	Smoulders more than 1 hour	NO	NO	-	Maximum upholstery composite destruction:					
	In final examination, presence of active smouldering	NO	NO	-						
Flaming criteria	Occurrence of flames	NO	NO	-	horizontal [mm]			vertical [mm]		
					length	width	depth	length	width	depth
					63	12	3	59	11	2

Result of testing: Neither progressive smouldering ignition nor flaming ignition occurred.

END OF THE TEST CERTIFICATE

Łukasiewicz
Lodz Institute of Technology

Laboratory of Flammability Testing
Lukasiewicz Research Network – Lodz Institute of Technology,
90-570 Lodz, 19/27 Marii Sklodowskiej-Curie Str., phone +48 42 307 09 01
Laboratory: 90-520 Lodz, 118 Gdanska Str., phone +48 42 2534435 (436),
e-mail: beata.witkowska@lit.lukasiewicz.gov.pl
aleksandra.rajkowska@lit.lukasiewicz.gov.pl

AB 029

TEST CERTIFICATE No 277 / BL - PW / 26

Test method:

PN-EN 1021-2:2014-12 Furniture. Assessment of the ignitability of upholstered furniture. Part 2: Ignition source match flame equivalent.

Orderer*:

„Toptextil" Sp. z o.o.
ul. Karola Wojtyły 13
34-100 Jaroszowice

Subject of testing*:

Upholstery composite:
- BALOO furniture upholstery fabric, 100 % Polyester, *
- foam RF 3030K.

Testing sample with the correct size, in appropriate state for testing, supplied by the Orderer with its characteristic and without the Sampling Protocol.

Results of testing:

Standard	Test method	Result
PN-EN 1021-2:2014-12	Ignition source: match flame equivalent.	**Neither progressive smouldering ignition nor flaming ignition occurred.**

The above test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

Tests performed by:

Jolanta Rudnik Ph.D.

Test Certificate authorized by

LABORATORIUM BADAŃ PALNOŚCI WYROBÓW
KIEROWNIK TECHNICZNY
Aleksandra Rajkowska

Sample received on: 04.09.2026
Test performed on: 14.09.2026
Test Certificate issued on: 22.09.2026

NOTES:
1. The Testing results refer only to the tested sample.
2. Test Certificate consists of 2 pages.
3. Test Certificate must not be reproduced in another way, than as a whole without a prior written consent of the Testing Laboratory.
4. The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for testing.
5. *Data provided by the Customer.

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) %; time 24 h
Testing conditions: temperature 21,0 °C; humidity 59 %

Preparation of test samples:

the upholstery fabric, exposed to wetting in water and drying procedure, in accordance with Appendix D of the PN-EN 1021-2:2014-12 standard.

Upholstery composite characteristic:

Upholstery composite:
- BALOO furniture upholstery fabric, 100 % Polyester, *
- foam RF 3030K.

Test method according to PN-EN 1021-2:2014-12

Gas burn time: 15 s
Gas: butane

Criteria		Match flame equivalent			Remarks					
		1	2	3						
Smouldering criteria	Unsafe escalating combustion	NO	NO	NO	Maximum burn time after burner removed: 0 s					
	Test assembly consumed	NO	NO	NO						
	Smoulders to extremities	NO	NO	NO						
	Smoulders through thickness	NO	NO	NO						
	Smoulders more than 1 hour	NO	NO	NO						
	In final examination, presence of active smouldering	NO	NO	NO						
Flaming criteria	Unsafe escalating combustion	NO	NO	NO	Maximum upholstery composite destruction:					
	Test assembly consumed	NO	NO	NO						
	Flames to extremities	NO	NO	NO	horizontal[mm]			vertical [mm]		
	Flames through thickness	NO	NO	NO	length	width	depth	length	width	depth
	Flames longer than 120 s	NO	NO	NO	10	7	2	60	20	5

Result of testing: Neither progressive smouldering ignition nor flaming ignition occurred.

END OF THE TEST CERTIFICATE