



PANNEAUX ACOUSTIQUES ALPHASOUND FICHE TECHNIQUE

Les panneaux acoustiques ALPHASOUND sont composés de panneaux en fibre de verre haute densité (110 kg/m³) recouverts de tissu, disponible dans quatre gammes (Lucia, Cara, Era et Sonus).

Les panneaux AlphaSound sont disponibles en épaisseur 40mm et 25mm.

PERFORMANCE ACOUSTIQUE	AlphaSound 40mm : 1.00 aw - Classe A	Page 2
	AlphaSound 25mm : 0.65 aw - Classe C	Page 3
PERFORMANCES FEU	Panneau fibre de verre : A2-s1, d0 / M0	Pages 4-6
	Tissu Camira Lucia : B-s1, d0 / M1	Pages 7-8
	Tissu Camira Cara : B-s2, d0 / M1	Pages 9-10
	Tissu Camira Era : B-s1, d0 / M1	Pages 11-12
	Tissu Camira Sonus : B-s1, d0 / M1	Pages 13-14
ENVIRONNEMENT	Tissu Camira Lucia fabriqué en polyester 100% recyclé	
	EU Ecolabel pour Camira Lucia et Cara	Page 15
	OEKO-TEX pour Camira Era	Page 16
ENTRETIEN	Exécuter un dépoussiérage régulier à l'aide d'une brosse ou d'un aspirateur.	
	En cas de petites salissures, utiliser une éponge très légèrement humide ; en cas de tâches grasses, possibilité d'employer un produit "type K2R".	

ALPHA W DESIGN

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• **PV ACOUSTIQUE : ALPHASOUND 40mm**



Sound Research Laboratories

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Test Certificate No: 9286

Contract: C/23119/T01

Page 1 of 1

Date: 03 September 2015

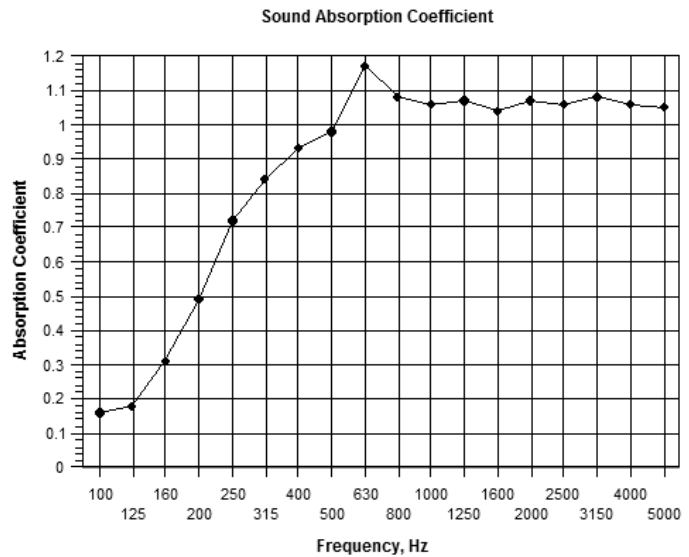
Confidential

See SRL report C/23119/T01 for full details

The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: SoundHush
Test Date: 19/08/2015
Empty Room: Temperature: 18.0 °C Humidity: 68 %RH Pressure: 1009 mbar
Room with Sample: Temperature: 18.1 °C Humidity: 69 %RH Pressure: 1009 mbar
Sample Description: SoundHush ShushLiner wall panel
40mm thick
Mounting Method: A Direct mounting
Sample Area: 14.04 m²
Chamber Volume: 300 m³

Test 8				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.94	4.63	0.05	
63*	4.61	4.43	0.03	n/a
80*	7.04	5.59	0.13	
100	7.65	5.65	0.16	
125	7.94	5.60	0.18	0.20
160	7.59	4.53	0.31	
200	7.05	3.53	0.49	
250	7.36	2.90	0.72	0.70
315	7.36	2.64	0.84	
400	6.50	2.37	0.93	
500	5.37	2.13	0.98	1.00
630	5.30	1.90	1.17	
800	5.62	2.04	1.08	
1000	5.97	2.11	1.06	1.00
1250	5.85	2.08	1.07	
1600	5.24	2.03	1.04	
2000	4.91	1.95	1.07	1.00
2500	4.38	1.87	1.06	
3150	3.80	1.74	1.08	
4000	3.11	1.60	1.06	1.00
5000	2.58	1.45	1.05	
6300*	1.88	1.18	1.11	
8000*	1.52	1.03	1.11	n/a
10000*	1.10	0.83	1.06	



a_w 1.00
Class A
Calculated to EN ISO 11654:1997
NRC 0.95
Calculated to ASTM C 423-01
* Denotes frequencies outside the range covered by BS EN ISO 354:2003
T1, empty room reverberation time
T2, room reverberation time with sample

Practical absorption coefficient, BS EN ISO 11654:1997

v4.3



Allen Smalls
Quality Manager



Richard Critchlow
Deputy Technical Manager

• **PV ACOUSTIQUE : ALPHASOUND 25mm**



Sound Research Laboratories

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Test Certificate No: 9285

Contract: C/23119/T01

Page 1 of 1

Date: 03 September 2015

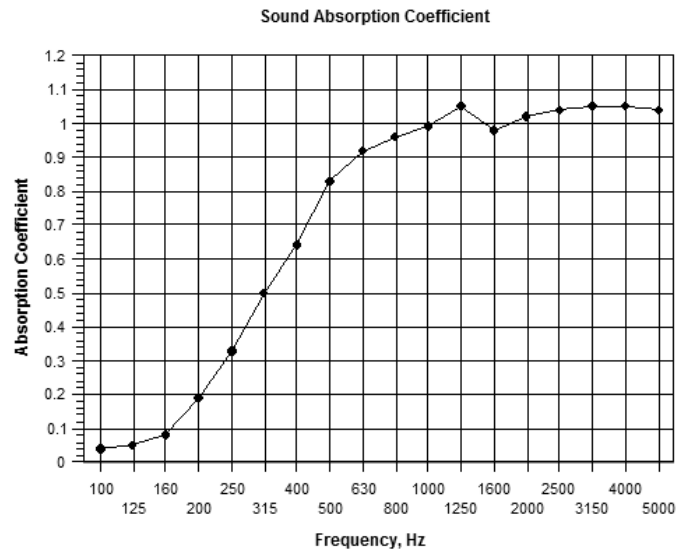
Confidential

See SRL report C/23119/T01 for full details

The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: SoundHush
Test Date: 19/08/2015
Empty Room: Temperature: 18.0 °C Humidity: 68 %RH Pressure: 1009 mbar
Room with Sample: Temperature: 18.0 °C Humidity: 69 %RH Pressure: 1009 mbar
Sample Description: SoundHush ShushPhoto wall panel
25mm thick
Mounting Method: A Direct mounting
Sample Area: 14.04 m²
Chamber Volume: 300 m³

Test 7				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.94	5.16	-0.03	
63*	4.61	4.60	0.00	n/a
80*	7.04	6.27	0.06	
100	7.65	6.99	0.04	
125	7.94	7.08	0.05	0.05
160	7.59	6.45	0.08	
200	7.05	5.05	0.19	
250	7.36	4.35	0.33	0.35
315	7.36	3.58	0.50	
400	6.50	2.94	0.64	
500	5.37	2.35	0.83	0.80
630	5.30	2.20	0.92	
800	5.62	2.20	0.96	
1000	5.97	2.20	0.99	1.00
1250	5.85	2.11	1.05	
1600	5.24	2.11	0.98	
2000	4.91	2.01	1.02	1.00
2500	4.38	1.89	1.04	
3150	3.80	1.77	1.05	
4000	3.11	1.60	1.05	1.00
5000	2.58	1.46	1.04	
6300*	1.88	1.20	1.06	
8000*	1.52	1.04	1.07	n/a
10000*	1.10	0.83	1.06	



a_w 0.65(MH)
Class C
Calculated to EN ISO 11654:1997
NRC 0.80
Calculated to ASTM C 423-01
* Denotes frequencies outside the range covered by BS EN ISO 354:2003
T1, empty room reverberation time
T2, room reverberation time with sample

Practical absorption coefficient, BS EN ISO 11654:1997

v4.3



Allen Smalls
Quality Manager



Richard Critchlow
Deputy Technical Manager

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- PV FEU - PANNEAU FIBRE DE VERRE**



TEST REPORT

No. : XMIN2007006117CM

Date : Aug 03, 2020

Page: 2 of 7

Test Result Summary

Test(s) Requested	Result(s)
EN 13501-1:2018 Fire classification of construction products and building elements -Part 1: Classification using data from reaction to fire tests	Classification: A2-s1, d0
Summary:	
1. For further details, please refer to the following page(s).	



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Xiamen Torch Testing Laboratory Construction Material Laboratory

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TEST REPORT

No. : XMIN2007006117CM

Date : Aug 03, 2020

Page: 3 of 7

TESTS AND RESULTS

Test Conducted:

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements -Part 1: Classification using data from reaction to fire tests. And the test methods as following:

1. EN ISO 1716:2010 Reaction to fire tests for products -Determination of the gross heat of combustion. (Calorific Value)
2. EN 13823:2010+A1:2014 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.

Mounting and fixing (For EN 13823:2010+A1:2014):

The specimen was tested free standing at a distance of at least 80 mm from the backing board. Both wings were clamped at the top and the bottom.

Test Results:

Test method	Parameter	Number of tests	Results
EN ISO 1716:2010	The product as a whole ^e -PCS (MJ/kg)	3	2.0
	Fiberglass mat ^a -PCS (MJ/kg)		0.9
	Glue ^d -PCS (MJ/m ²)		0.07
	Fiberglass ^a -PCS (MJ/kg)		2.1
	Acrylic paint ^b -PCS (MJ/m ²)		0.04
EN 13823:2010+A1:2014	FIGRA _{0.2MJ} (W/s)	3	101.6
	FIGRA _{0.4MJ} (W/s)		83.5
	THR _{600s} (MJ)		2.4
	SMOGR _A (m ² /s ²)		9.7
	TSP _{600s} (m ²)		27.9
	LFS < edge of specimen		Yes
	Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s)		No



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TEST REPORT

No. : XMIN2007006117CM

Date : Aug 03, 2020

Page: 4 of 7

Remark:

FIGRA-Fire growth rate index used for classification purposes [W/s]
 For the classes A2 and B, FIGRA_{0,2MJ}
 For the classes C and D, FIGRA_{0,4MJ}
 LFS -Lateral flame spread [m]
 THR_{600s}-Total heat release within 600 s [MJ]
 SMOGRA -Smoke growth rate [m²/s²]
 TSP_{600s} -Total smoke production within 600 s [m²]
 PCS -gross heat of combustion [MJ/kg or MJ/m²]

Classification and direct field of application:

This classification has been carried out in accordance with EN 13501-1:2018.

Classification:

Fire behaviour		Smoke production			Flaming droplets	
A2	—	s	1	,	d	0

Note: This report confirms that the material has been tested to A2-s1, d0 and has passed.

Remark:

The classes with their corresponding fire performance are given in Table 1.
 Reaction to fire classification is based on the 7-step scale of A1 to F, where A1 is good and F is bad

Statement:

The test results relate to the behaviour of the test specimens 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 in use.

Warning:

This classification report does not represent type approval or certification of the product.
 The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.



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- PV FEU - TISSU CAMIRA LUCIA**



Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
Telephone: +44 (0) 113 259 1999
Email: onestopshop@bttg.co.uk
Website: www.bttg.co.uk

Date: 07 September 2022

Our Ref: 27/05938/07/22
Your Ref: ---

Page: 1 of 11

Client: **Camira Fabrics Ltd**
The Watermill
Wheatley Park
Mirfield
West Yorkshire
WF14 8HE

Job Title: Fire Classification Test on One Sample of Fabric

Clients Order Ref: 83A18322

Date of Receipt: 27 July 2022

Description of Sample: One sample of fabric, referenced;
Sample: Lucia
Batch: 44482
Colour: HYB026 Costa

Work Requested: We were asked to make the following test(s):
BS EN 13501-1 (tested fully adhered)

* subcontracted test, UKAS accredited
** subcontracted test, EN ISO/IEC 17025 accredited
*** not UKAS accredited



Note: This report relates only to the items tested.

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Page: 10 of 11


Client: Camira Fabrics Ltd

Comment

The results meet the requirements of a Class B, s1, d0, as specified in BS EN 13501-1:2018.

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information.

Reported by:  G Harvey (Mr), Laboratory Technician

Countersigned by:  A Shute, Senior Laboratory Technician

Enquiries concerning this report should be addressed to Customer Services.



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- PV FEU - TISSU CAMIRA CARA**



TESTING • CERTIFICATION • AUDITING

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Email: info@bttg.co.uk
: www.bttg.co.uk

Date: 30 November 2021
Our Ref: 27/05749A/11/21
Your Ref: ---
Page: 1 of 9

Client: **Camira Fabrics Ltd**
The Watermill
Wheatley Park
Mirfield
West Yorkshire
WF14 8HE

Job Title: Fire Test on One Sample of Fabric

Clients Order Ref: 83A14290

Date of Receipt: 5 November 2021

Description of Sample: One sample of fabric, referenced; Cara, colour: Merrick, Batch: 483442.

Work Requested: We were asked to make the following test(s):
BS EN 13501-1

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited



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Note: This report relates only to the samples submitted and as described in the report.

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Date: 30 November 2021

Our Ref: 27/05749A/11/21
Your Ref: ---

Page: 8 of 9

Client: Camira Fabrics Ltd

Results

Classification criteria	Specimen			Mean	Class
	1	2	3		
FIGRA _{0.2MJ} (W/s)	49.2	46.9	97.3	64.5	B
FIGRA _{0.4MJ} (W/s)	44.2	43.4	90.0	59.2	
THR _{600s} (MJ)	3.0	2.0	2.3	2.4	
LFS to edge (yes or no)	No	No	No	No	
SMOGRA (m ² /s ²)	0	0	0	0	s2
TSP _{600s} (m ²)	46.6	45.2	48.7	46.8	
FDP flaming ≤ 10 s (yes or no)	No	No	No	No	d0
FDP flaming > 10 s (yes or no)	No	No	No	No	

Note

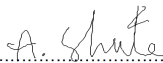
The test results relate to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criteria for assessing the potential fire hazard of the product in use.


Comment

The results meet the requirements of a probable Class B, s1, d0, but a definite Class B, s2, d0, and as specified in BS EN 13501-1:2018.

An estimation of uncertainty of measurement has been taken into account when making a judgment to any pass/fail criteria. Under our Policy we have used a non-binary decision rule.

See our Decision rules Policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information.

Reported by:  A Shute, Senior Lab Technician

Countersigned by:  P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.



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Email: info@bttg.co.uk
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Date: 18 November 2021
Our Ref: 27/05737D/10/21
Your Ref: ---
Page: 1 of 9

Client: **Camira Fabrics Ltd**
The Watermill
Wheatley Park
Mirfield
West Yorkshire
WF14 8HE

Job Title: Fire Classification Test on One Sample of Fabric

Clients Order Ref: 83A14083

Date of Receipt: 22 October 2021

Description of Sample: One sample of fabric, referenced; Era. Colour: Generation.

Work Requested: We were asked to make the following test(s):
BS EN 13501-1

* subcontracted test, UKAS accredited
** subcontracted test, EN ISO/IEC 17025 accredited
*** not UKAS accredited



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Date: 18 November 2021

Our Ref: 27/05737D/10/21
Your Ref: ---

Page: 8 of 9

Client: **Camira Fabrics Ltd**

Results

Classification criteria	Specimen			Mean	Class
	1	2	3		
FIGRA _{0.2MJ} (W/s)	20.9	21.1	14.5	18.8	B
FIGRA _{0.4MJ} (W/s)	19.8	17.5	14.5	17.3	
THR _{600s} (MJ)	1.7	1.4	1.5	1.5	
LFS to edge (yes or no)	No	No	No	No	
SMOGRA (m ² /s ²)	0.0	0.0	0.0	0.0	s1
TSP _{600s} (m ²)	28.0	30.4	27.8	28.7	
FDP flaming ≤ 10 s (yes or no)	No	No	No	No	d0
FDP flaming > 10 s (yes or no)	No	No	No	No	

Note

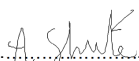
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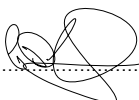
Comment

The results meet the requirements of a Class B, s1, d0, as specified in BS EN 13501-1:2018

An estimation of uncertainty of measurement has been taken into account when making a judgment to any pass/fail criteria. Under our Policy we have used a non-binary decision rule.

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Reported by:  A Shute, Senior Lab Technician

Countersigned by:  P Doherty, Manager

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Website: www.bttg.co.uk

Date: 14 September 2022

Our Ref: 27/05958/08/22
Your Ref: ---

Page: 1 of 10

Client: Camira Fabrics Ltd
The Watermill
Wheatley Park
Mirfield
West Yorkshire
WF14 8HE

Job Title: Fire Test on One Sample of Fabric

Clients Order Ref: 83A18245

Date of Receipt: 19 August 2022

Description of Sample: One sample of fabric, referenced; Sonus, Colour: Beat.

Work Requested: We were asked to make the following test(s):
BS EN 13501-1

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited



Note: This report relates only to the items tested.

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.
BTTG™ and Shirley™ are trade names of Shirley Technologies Ltd.
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.
Our laboratories are accredited to EN ISO/IEC 17025.

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Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
Telephone: +44 (0) 113 259 1999
Email: onestopshop@bttg.co.uk
Website: www.bttg.co.uk

Date: 14 September 2022

Our Ref: 27/05958/08/22
Your Ref: ---

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Client: **Camira Fabrics Ltd**

Results

Classification criteria	Specimen			Mean	Class
	1	2	3		
FIGRA _{0.2MJ} (W/s)	34.0	21.9	20.8	25.6	B
FIGRA _{0.4MJ} (W/s)	24.5	15.9	20.4	20.3	
THR _{600s} (MJ)	1.8	1.5	1.6	1.6	
LFS to edge (yes or no)	No	No	No	No	
SMOGRA (m ² /s ²)	0	0	0	0	s1
TSP _{600s} (m ²)	19.6	25.9	25.2	23.6	
FDP flaming ≤ 10 s (yes or no)	No	No	No	No	d0
FDP flaming > 10 s (yes or no)	No	No	No	No	

Note

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 criteria for assessing the potential fire hazard of the product in use.


Test BS EN 13823:2020 is accredited under our flexible scope policy.

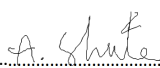
Comment

The results meet the requirements of a Class B, s1, d0, as specified in BS EN 13501-1:2018.

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information.

Reported by:  G Harvey (Mr), Laboratory Technician

Countersigned by:  A Shute, Senior Laboratory Technician

The uncertainty budget for BS EN 13501-1:2018 was determined as follows:-



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- CERTIFICAT EU Écolabel : CAMIRA GARA et LUCIA

 Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology



Camira Fabrics limited
The Watermill, Wheatly Park, WF14 8HE Mirfield
United Kingdom

has been awarded the

European Union Ecolabel
under License No. AT/016/007

Following the Ecolabel Accreditation Procedure as detailed in regulation
EG NR. 66/2010 and documented in file VKI 1369-2021

Camira Fabrics limited is entitled to use the European Union Ecolabel
for the following products:

Camira Knits, Cara, Carlow, Hebden, Hemp, Individuo, Kyoto, Lucia, Main Line Flax, Main Line Flax Stripe, Main Line Twist,
Manhattan, Patina, Rivet, Sumi, Synergy, Synergy 170, Urban, X2, Xtreme, Oceanic, Quest, RePlay,

The company is authorised until 31 December 2027



Leonore Gewessler, BA, Federal Minister
Vienna, October 2022

• CERTIFICAT EKO-TEX : CAMIRA ERA

Camira Fabrics Ltd
The Watermill, Wheatley Park
Mirfield
WF14 8HE West Yorkshire, UNITED
KINGDOM



SHIRLEY TECHNOLOGIES LIMITED
SAGAR BUILDING, UNIT 11, WESTPOINT
ENTERPRISE PARK
CLARENCE AVENUE
M17 1QS MANCHESTER, UNITED KINGDOM

Certificate

OEKO-TEX® STANDARD 100

Camira Fabrics Ltd

is granted the OEKO-TEX® STANDARD 100 certification
and the right to use the trademark.

SCOPE

Piece dyed woven fabrics made of 100% polyester with or without flame retardant treatment accepted by the OEKO-TEX®. In fabric qualities: Era (including Era 140 and Era 170), Xtreme CS, Lucia CS, Aspect, Fiji, Phoenix and Target. Nexus - yarn dyed knitted 100% polyester fabric. Partially based on pre-certified materials according to STANDARD 100 by OEKO-TEX®.

PRODUCT CLASS

II (products with direct contact to skin) - Annex 4

Further compliance information (REACH, SVHC, POP, GB18401 etc.) can be found on oeko-tex.com/en/faq.

The certificate is based on the test methods and requirements of the OEKO-TEX® STANDARD 100 that were in force at the time of evaluation.



This certificate 11-43686 is valid until 06.02.2024.

SUPPORTING DOCUMENTS

- ✓ Test report : 66903
- ✓ Declaration of conformity in accordance with EN ISO 17050-1 as required by OEKO-TEX®
- ✓ OEKO-TEX® Terms of Use (ToU)



Augustina Oliver
Senior Technical Officer



Joël Prince
Ecology Services Manager

Manchester, 2022-12-08

