

Dimalan

Perfect for: Stage • Masking • Dimout

J&C Joel TM
Inspiration in every performance

www.jcjoel.com

Composition and Care

150 cm 3

Fire Certificates

BS5867 Part 2 Type B 4

IMO 7

B1 10

TECHNICAL



NDFR

Non Durably Flame Retardant

chemically treated with a water solution and if wetted in any way should be retreated



DFR

Durably Flame Retardant

chemically treated to withstand a number of cleanings



IFR

Inherently Flame Retardant

woven from fibres with a high flame retardancy



FR

Flame Retardant

chemically treated to an individual specification



NOT FR

Not Flame Retardant no flame retardant treatment



Confirmation that the fabric meets one or more flame retardant standards

BS5867 BS5867 Pt2 B is the British Standard for flame retardant fabrics used for curtains and drapes

BS5852 BS5852 Pt1 is the British Standard for flammability of upholstered composites for seating

BS4790 BS4790: 1987 Determination of the effects of a small source of ignition on textile floor coverings hot metal nut method (method 1, loose laid)

EN13773: 2003 Meets European fire safety standards for vertically hung fabrics. Burning behavior, ignitability testing of curtain fabric for use in the contract market.

TL 1080-0002/8 German Military Specification for horizontally tested materials

EN14041 Details the requirement for CE Marking of textiles, laminate and resilient floor coverings

BS7905-1:2001 Lifting equipment for performance, broadcast and similar applications.

ATTRIBUTES



Approx roll length of material in linear metres (m) & feet (ft)



Approx width of material in centimetres (cm) & inches (")



Approx weight in grams per metre squared (g/m²)



Approx thickness in (mm)

M1, M2, M4 Conforms to French Fire Regulations

B1, B2 Conforms to German Fire Regulations DIN 4102

IMO Conforms to International Maritime Organisation regulations

Classe Uno Meets Italian Fire Regulations

BS EN13501-1 Fire Classification of construction, products and building elements. Classification using test data from reaction to fire tests

CFC EN ISO 9239-1 Reaction to fire test. Horizontal surface spread of flame on floor covering system. Determination of the burning behaviour using a retardant heat source

NFPA 701 NFPA 701: (USA) Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

EN9239-1 Reaction to fire tests – horizontal surface spread of flame on floor covering systems

DIN EN1021 Meets European fire safety standards for exposure to different ignition sources, namely a lit cigarette and butane flame. Assessment of the ignitability of upholstered furniture



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

To ensure you get the best from the product supplied to you, we advise you follow the care instructions within this datasheet.

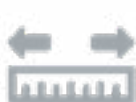
Fabric	Flame Retardancy	IFR
	Fire Certification	BS5867 Part 2 Type B, IMO, B1
	Brand Name (and Manufacturer)	J&C Joel Ltd.
	Material (Blending Ratio)	100% Mod Acrylic
	Construction of Fabric	Twill Weave
Chemicals	Surface Treatments	Dyed
	Brand Name of Flame Retardant Chemicals	N/A
	Chemical name of Flame Retardant Chemicals	N/A
	Process of Flame Retardant Chemicals	N/A
Care	Information	Inherently Flame Retardant to BS5867 Part 2 Type B. This means that the man-made fibres are flame retardant for life and if wet, would not need to be re-flameproofed. Therefore, the cloth will withstand wet cleaning but we would advise and suggest professional dry cleaning only, using the correct chemical process. Notwithstanding the aforementioned, it would be our advice to only dry clean this material periodically. We would suggest that the curtain be soft-brushed on a regular basis and periodically cleaned using a vacuum and drapery attachment. This fabric is not pre-shrunk.
	Laundering Treatment	     Dry Clean Only Do Not Wash Do Not Bleach Do Not Iron Do Not Tumble Dry
Notes		



Fire Rating:
IFR



Approx Roll Length:
50m / 164ft



Width:
150cm / 59"



Weight:
270 g/m²



Fire Certification:
BS5867 Part 2
Type B, IMO, B1



Colour
Available
3



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+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: BS 5867 Part 2 Type B

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SGS



TEST REPORT NO: 166862

Date: 24 November 2020

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Retailer: Not Specified
Description of article:
Retailer style number: BLACK/GREEN
Retailer Standard Number:
Order No./ Buyer: P32720
Quality/Fibre Composition: 60% MOD ACRYLIC 40% POLYESTER
Date Sample(s) Received: 20 November 2020

Tests	Pass	Fail	Remarks
BS 5867 Part 2 Type B	X		

(please note our uncertainty of measurement has been taken into account when the above results were pass/failed)

Signature

Stuart Bishop Senior Technician

For and on behalf of
SGS United Kingdom Ltd

All samples are conditioned to ISO 139 where conditioning is required (unless otherwise stated)

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SGS United Kingdom Ltd | Whittle Estate, Cambridge Road, Whetstone, Leicester LE8 6LH | t +44 (0)116 284 6780 | f +44 (0)116 284 6781 | www.sgs.com

Member of the SGS Group (SGS SA)

Registered in England No: 1193665 | Registered Office: Roostone Business Park, Evesham Port, Cheshire CH65 3EN

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United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: BS 5867 Part 2 Type B

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Customer:

Test Report No: 166862

Test Results

BS 5867-2: 2008 Fabrics for curtains, drapes and window blinds
Part 2: Flammability requirements - specification
Type B

Description of Test Sample: Black/Green Fabric

Test Request

As requested the test specimen supplied has been tested to BS 5867- 2: 2008 type B.

Conditioning

The test specimen was conditioned in a standard atmosphere having a temperature of $20 \pm 2^{\circ}\text{C}$ and a relative humidity of $65 \pm 5\%$ for at least 24 hours.

Specimen Identification

Reputed Fibre Composition – 60% Mod Acrylic - 40% Polyester

Comments on Test Results

The sample supplied meets the requirements of BS 5867-2: 2008 Type B in the as received state.

Gas Used

Butane

Deviations from test method

None

Flame Application Time

Type B – 15 Seconds

Results

Results may not apply to situations where there is restricted air supply or exposure to large sources of intense heat.

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SGS United Kingdom Ltd

White Estate, Cambridge Road, Whetstone, Leicester LE8 8LH t +44 (0)116 294 6780 f +44 (0)116 294 6781 www.sgs.com

Member of the SGS Group (SGS SA)

Registered in England No.: 1193985 Registered Office: Rosemoor Business Park, Ebbw Vale, Gwent NP23 5JN

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United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: BS 5867 Part 2 Type B

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Customer:

Test Report No:

166862

Test Results

As Received

Criteria	Length			Width		
	1	2	3	1	2	3
Hole reaching top edge	No	No	No	No	No	No
Hole reaching side edge	No	No	No	No	No	No
Flaming reaching top edge	No	No	No	No	No	No
Flaming reaching side edge	No	No	No	No	No	No
Flaming Debris	No	No	No	No	No	No
Result	Pass	Pass	Pass	Pass	Pass	Pass

As there is only a definitive pass or fail (any edge reached is a fail) there is no uncertainty



End of Report

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SGS United Kingdom Ltd

Whittle Estate, Cambridge Road, Whetstone, Leicester LE8 6LH. T+44 (0)116 264 6780 F+44 (0)116 264 6781 www.sgs.com

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Registered in England No: 1193985 Registered Office: Rosemoor Business Park, Epsom, Surrey, Middlesex, Cheshire, Ch46 3EN

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+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: IMO

J&C Joel 
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Intertek
The Warehouse
Brewery Lane
Leigh WN7 2RJ
UK

Tel +44 1942 265 700
consumergoods.uk@intertek.com
intertek.com

FLAMMABILITY TEST REPORT

Report No.: LEI21011849A

Date Received: 26/01/21

Date Tested: 01/02/21 &
02/02/21

Date Issued: 02/02/21

Company Name & Address:

Contact Name:

Sample Details

Order No.: TBC
Description:
Ref. / Style No.: Not stated
Colour: Not stated
Quality: Not stated
Colour: Not stated
Supplier: Not stated
Batch No.: Not stated
End Use: Curtain
No. Of Samples: 1
Quoted Fibre Composition: 60% Mod Acrylic 40% Polyester
Retailer: Not stated
Buying Division: Not stated
Sample Description: White and black coloured woven fabric

Test Method	Pre Treatment	Performance Requirement	Result
IMO FTP Code (2010) Annex 1, Part 7: Test for Vertically Orientated Support Textiles and Films	None - The scope states that "fabrics which are not inherently flame resistant should be exposed to cleaning or exposure procedures"	IMO FTP Code (2010) Annex 1, Part 7, Clause 3	PASS

Note: The fabric supplied was tested with no pre-treatments at the request of the customer.
Please note: The testing was carried out in the ISO 6941 environment

STEVEN OWEN
(Technical & Operational
Excellence Manager)

ANDREW HALLETT
(Flammability Team Leader)

CAROLE SPOWART
(Flammability
Administrator)

GREGORY JAMES
(Flammability Technician)

Report No.: LEI21011849A Page 1 of 3

ITS Testing Services (UK) Ltd
Registered in England No. 1408264. Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM34 5AQ



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: IMO

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Intertek
The Warehouse
Brewery Lane
Leigh WN7 2RJ
UK

Tel +44 1942 265 700
consumergoods.uk@intertek.com
intertek.com

FLAMMABILITY TEST REPORT

Additional Information (Annex)

Name and Address of the Sponsor: Not stated
Name and Address of the Manufacturer/Supplier (if known): Not stated
Type of Furniture: Not stated
Fabric Details - Weave/Density/Yarn count/thickness(mm)/mass(g/m²) Colour & Tone: Not stated
Fire Retardant Treatment: No

Uncertainty of Measurement

The uncertainty of measurement has been estimated to be 4.40%

Test Specification

Test Method: IMO FTP Code (2010) Annex I, Part 7
Ignition Source: 40mm high Propane gas flame
Ignition Type: Face ignition (as determined by the pre-test)
Flame Application Time: 5 seconds (as determined by the pre-test)
Sample Size: 220 x 170mm
Side Tested: Face

Pre-treatment / Durability Procedure

None - At the request of the customer.

Conditioning

Prior to Testing: At least 24 hours in an atmosphere having a temperature of 20±5°C, and a relative humidity of 65±5%

At Time of Testing: Temperature between 15°C & 30°C. Relative humidity between 20% & 65%

Test Results

Report of tests carried out in accordance IMO FTP Code (2010) Annex I, Part 7.

"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."

Sample No./ Direction	Duration of flaming (Secs)	Duration of afterglow (Secs)	Flaming debris	Flame to edge	Hole to edge	Maximum damaged length (mm)		Average Damage Length (mm)
						Horizontal	Vertical	
1. Length ↑	16.9	0.0	No	No	No	43	150	129
2. Length ↓	0.0	0.0	No	No	No	33	125	
3. Length ↑	0.0	0.0	No	No	No	35	120	
4. Length ↓	0.0	0.0	No	No	No	35	125	
5. Length ↑	0.0	0.0	No	No	No	35	125	
6. Width →	0.0	0.0	No	No	No	25	120	114
7. Width ←	0.0	0.0	No	No	No	25	115	
8. Width →	0.0	0.0	No	No	No	20	115	
9. Width ←	0.0	0.0	No	No	No	30	120	
10. Width →	0.0	0.0	No	No	No	30	120	

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ITS Testing Services (UK) Ltd
Registered in England No. 1408268. Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM34 5NQ



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: IMO

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Intertek
The Warehouse
Brewery Lane
Leigh WN7 2BJ
UK

Tel +44 1942 265 700
consumergoods.uk@intertek.com
intertek.com

FLAMMABILITY TEST REPORT

Additional set due to one full specimen

Sample No./ Direction	Duration of flaming (Secs)	Duration of afterglow (Secs)	Flaming debris	Flame to edge	Hole to edge	Maximum damaged length (mm)		Average Damage Length (mm)
						Horizontal	Vertical	
1. Length ↑	0.0	0.0	No	No	No	24	107	114.6
2. Length ↓	0.0	0.0	No	No	No	27	104	
3. Length ↑	0.0	0.0	No	No	No	32	122	
4. Length ↓	0.0	0.0	No	No	No	28	120	
5. Length ↑	0.0	0.0	No	No	No	30	120	

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The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately 95 %. Unless otherwise specified all compliance and pass/fail statements are binary simple acceptance based on the tolerance interval and, with the exception of graded methods, a test uncertainty ratio greater (TUR) than 4:1. For graded methods the TUR will drop to as low as 0.5:1 when the tolerance limits are within a grade division of the upper scale limit. The Uncertainty budgets are stated for each Test method, these are for reference, and should be considered when results are on or close to Specification Limits / Requirements and in such cases it should be noted that the risk of false acceptance or rejection may be as high as 50%, for further information please refer to ILAC G8.

Report No.: E0221011649A Page 3 of 3

ITS Testing Services (UK) Ltd
Registered in England No. 1408264. Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM34 5NQ



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: B1

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Prüfinstitut Hoch

Lerchenweg 1
D-97650 Fladungen
Tel.: int - 49 - 9778-7480-200
hoch.fladungen@t-online.de

www.reaction-to-fire.de



Test laboratory for the fire behavior of building materials, Dipl.-Ing. (FH) Andreas Hoch
Testing, supervising and certifying body, authorized by the building supervision authority

TEST REPORT PZ-Hoch-231507

for the proof of Fire behaviour according to DIN 4102, part 1

Translation of the German test report – no guarantee for translation of technical terms

company

description of samples -fabric consisting of 60% Modacryl and 40% Polyester-
colour: turquoise / black

name of the material

sampling by the company itself

content of request Proof of flammability to classify building materials to class B1
"schwerentflammbar" according to DIN 4102, part 1

validity of test report 30.11.2028

result The examined product meets the requirements of class B1 for
"schwerentflammbare" (hardly flammable) building materials
according to DIN 4102, part 1 (May 1998), suspended freely or
with distance of >40 mm to same or other plain materials.

The examined product shows burning droplets.

This test report includes 4 pages and 6 enclosures.

Remark: If the above mentioned building material is not used as product according to MBO § 2, Abs. 9, Ziffer 1, there is no need for a general building supervisory test report.

This test report is not valid if the examined building material is used as product in the meaning of state building prescriptions (MBO § 17, Abs. 3).

This test report does not replace an eventually necessary proof of applicability concerning building supervisory or building laws in the meaning of state building prescriptions. This has to be verified by:

- "allgemeine bauaufsichtliche Zulassung" (general building inspectorate approval) or by
- "allgemeines bauaufsichtliches Prüfzeugnis" (general building inspectorate certificate) or by
- "Zustimmung im Einzelfall" (exceptional approval)

This test report can underlie building supervisory procedures

- for regular building products for the prescribed proofs of conformity
- for non-regular building products for the needed proofs of applicability

This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.

member of 
notified body no.: 1508

By the DAkkS according to DIN EN ISO/IEC 17025 accredited test laboratory.
The accreditation is valid for the testing methods specified in the certificate.



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: B1



Prüfinstitut Hoch
Lerchenweg 1
D-97650 Fladungen

page 2 of 4 of the test report
PZ-Hoch-231507

1. Description of test material in condition as delivered

PN 37977 and PN 38307 (additional delivery)

colour: turquoise / black

-fabric consisting of 60% Modacryl and 40% Polyester-
side A: turquoise / side B: black

characteristic values determined by the test laboratory:

area weight: about 291g/m² thickness: about 0,72mm

The testing laboratory is not provided with further details concerning composition of the tested building materials. Samples are deposited.

2. Preparation of samples

The samples were kept in climate chamber 23/50 until they reached constant weight.

3. Arrangement of samples mounting: freely suspended

#7064: flaming side A in warp direction
#7065: flaming side B in warp direction
#7066: flaming side A in weft direction
#7142: flaming side A in warp direction
#7143: flaming side A in warp direction

4. Date of test CW 45 and CW 49 in 2023

5. Results The test has been examined according to DIN 4102 (Mai 1998)

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	#7064	#7065	#7066	#7142	#7143	
	flaming direction / side	warp / A	warp / B	weft / A	warp / A	warp / A	
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1	1	1	
2	Maximum flame height above bottom edge of the specimen	80	60	70	60	80	cm
3	Time ¹⁾	0:41	0:12	0:29	0:31	0:26	min:s
4	Burn through / melting Time ¹⁾	0:05	0:04	0:03	0:04	0:04	min:s
	Observations on the back side of the specimen						
5	Flames / Glowing Time ¹⁾	—	—	—	—	—	min:s
6	Change of colour Time ¹⁾	—	—	—	—	—	min:s
7	Falling of burning droplets Start ¹⁾	—	—	—	—	—	min:s
	Extent						
8	sporadic falling of burning droplets ²⁾	—	—	—	—	—	
9	continuous falling of burning droplets ²⁾	—	—	—	—	—	min:s

Impressum: 10/2023



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+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



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www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: B1



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Lärchenweg 1
D-97650 Fladungen

page 3 of 4 of the test report
PZ-Hoch-231507

line no.	Measurement	Result with the tested specimen					Dim.
	Test number	#7064	#7065	#7066	#7142	#7143	
	flaming direction / side	warp / A	warp / B	weft / A	warp / A	warp / A	
10	Falling of burning droplets Start ¹⁾	X 0:15	X 0:14	X 0:13	X 0:14/0:41	X 0:18/0:45	min:s
11	Extent						
12	sporadic falling of burning droplets ²⁾	X	X	X	X	X	
13	continuous falling of burning droplets ²⁾	---	---	---	---	---	
14	After flame time at the bottom of the sieve (max.)	0:58	0:23	0:26	0:07/0:06	0:14/0:07	min:s
15	Impairment of the burner by dropping or falling material; Time ¹⁾	J.	J.	J.	J.	J.	min:s
16	Final occurrence of burning at the specimen ¹⁾	1:10	1:30	0:45	1:10	1:10	min:s
17	Time of eventually end of test ¹⁾	J.	J.	J.	J.	J.	min:s
18	After flame after end of test Time ¹⁾	J.	J.	J.	J.	J.	min:s
19	Number of specimen	J.	J.	J.	J.	J.	
20	Front side of specimen ²⁾	J.	J.	J.	J.	J.	
21	Back side of specimen ²⁾	J.	J.	J.	J.	J.	
22	flame length	J.	J.	J.	J.	J.	cm
23	Afterglow after end of test Time ¹⁾	J.	J.	J.	J.	J.	min:s
24	Number of specimen	J.	J.	J.	J.	J.	
25	Place of appearance	J.	J.	J.	J.	J.	
26	Lower half of the specimen ²⁾	J.	J.	J.	J.	J.	
27	Upper half of the specimen ²⁾	J.	J.	J.	J.	J.	
28	Front side of specimen ²⁾	J.	J.	J.	J.	J.	
29	Back side of specimen ²⁾	J.	J.	J.	J.	J.	
30	Density of smoke ≤ 400 % * min	60	53	40	25	32	% * min
31	> 400 % * min ⁴⁾	J.	J.	J.	J.	J.	% * min
32	Diagram: encl. no.	1	2	3	4	5	
33	Residual lengths: individual value ²⁾						
34	Specimen 1	36	43	37	41	22	cm
35	Specimen 2	16	44	39	44	34	cm
36	Specimen 3	15	37	39	35	32	cm
37	Specimen 4	17	40	40	52	40	cm
38	Average value, individual test ³⁾	21	41	39	43	32	
39	Photo of specimen in enclosure no.	1	2	3	4	5	
40	Flue gas temperature	127	102	125	117	127	°C
41	Maximum of average value						
42	Time ¹⁾	0:27	0:31	0:31	0:21	0:28	min:s
43	Diagram: encl. no.	1	2	3	4	5	
44	Remarks: - none -						

¹⁾ indication of times: from the begin of testing procedure ²⁾ checked off if applicable

³⁾ indication of carrier/foam layer separated in case of fire-proofing agents

⁴⁾ very strong development of smoke



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: B1



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6. Explanations concerning the testing procedure

-none-

7. Summary of results and additional establishments to Fire Behaviour

line no.	measurement	Result with the tested specimen					dimension
	test-no.	#7064 warp / A	#7065 warp / B	#7066 weft / A	#7142 warp / A	#7143 warp / A	
1	residual length	21	41	39	43	32	cm
2	max. smoke temperature	127	102	125	117	127	°C
3	density of smoke - integral	60	53	40	25	32	%min
4	remarks: During the "Brandschacht"-tests #7064, #7065 and #7066 the material showed burning droplets for >20 seconds.						

According to DIN 4102, part 1, "schwerentflammbare" (hardly flammable) building materials must meet the requirements of class B2.

Pursuant to additional tests in the ignitability apparatus this can be determined (appendix 6).

8. Special remarks

- This report is only valid for the material as described under paragraph 1. In combination with other materials or with additional coatings or grounds etc. the burning behaviour may differ.
- This test report is not valid for the exposure to outdoor climate conditions, washing or cleaning with chemicals.
- This test report is not valid, as soon as the fabric is used as a building product in the sense of the "Landesbauordnungen" (state building requirements, MBO § 17, par. 3).
- This test report is no substitute for a General Building Inspectorate Certificate.
- This test report is granted without prejudice to the rights of third parties, in particular private proprietary rights.
- For legal interests only the German original version is relevant.
- In General Building Inspectorates procedures this test report can be based for
 - regular building materials for the required proof of accordance
 - for not regular building materials for the required proof of applicability

9. Validity

This test report is valid until the mentioned date on page 1. The test report becomes invalid in case the standards on which the tests are based are changed.

Fladungen, 11.12.2023

clerk in charge:

(Dipl.-Ing. (FH) Jürgen Hammer)



Head of the test laboratory:

(Dipl.-Ing. (FH) Jürgen Hammer)



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



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www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: B1

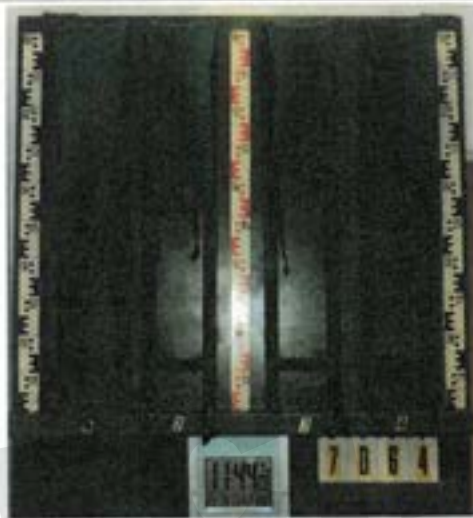
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enclosure 1 test report
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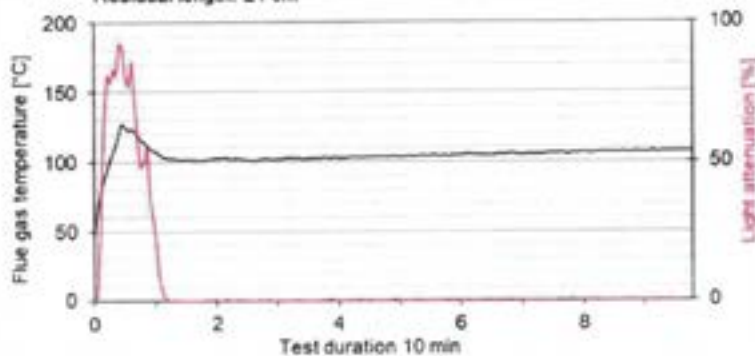
„Brandschacht“-test #7064



measurement

#7064, PN37977

Max. flue temperature: 127°C, Smoke density integral: 60%min
Residual length: 21 cm



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

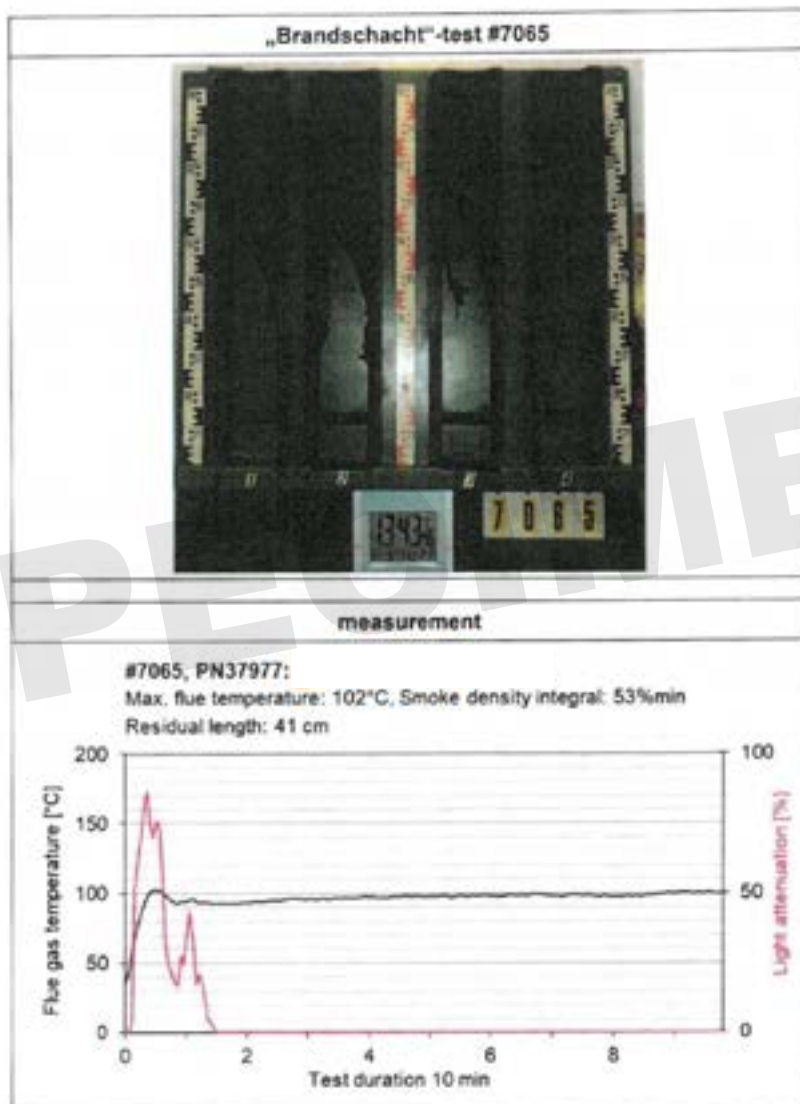
Type: B1

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Lerchenweg 1
D-97650 Fladungen

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United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: B1

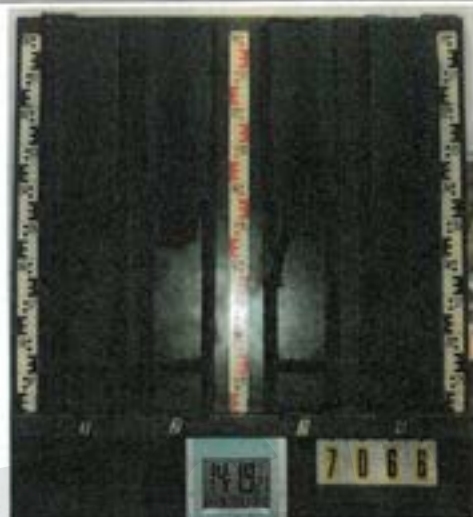
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„Brandschacht“-test #7066

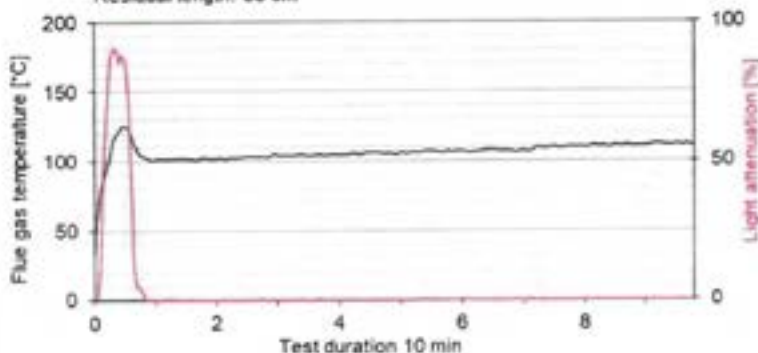


measurement

#7066, PN37977:

Max. flue temperature: 125°C, Smoke density integral: 40%/min

Residual length: 39 cm



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

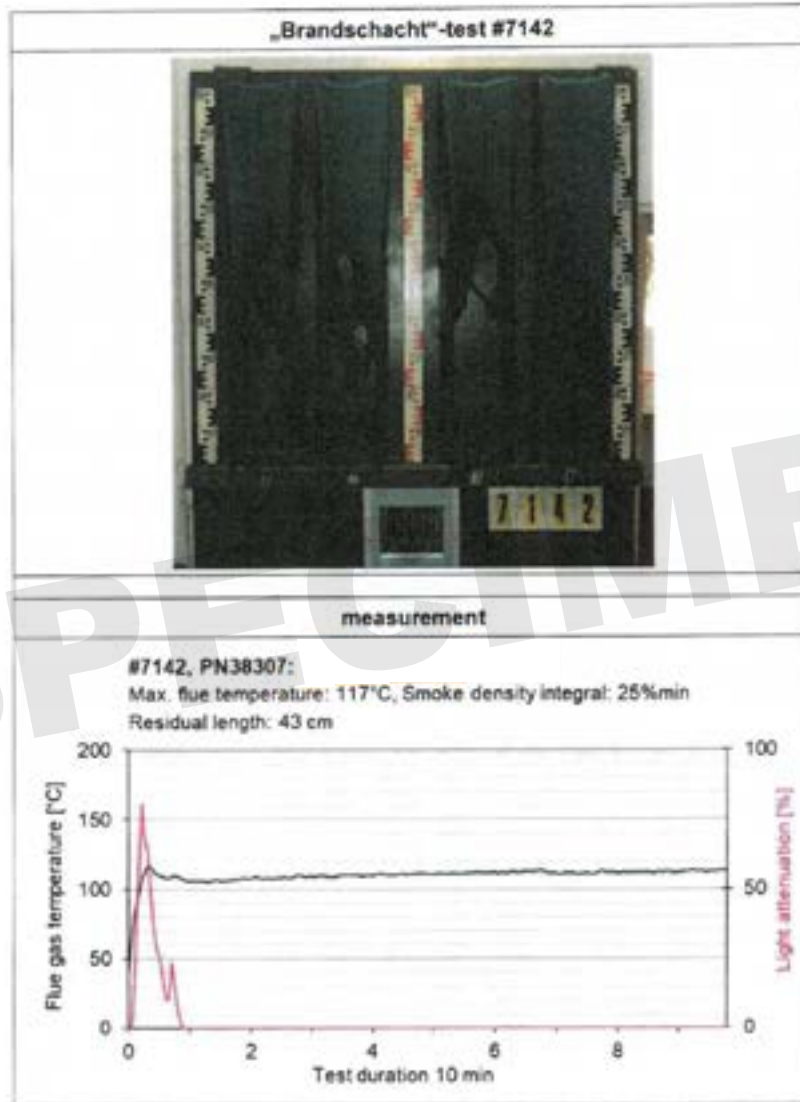
Type: B1

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Lerchenweg 1
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United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

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Type: B1

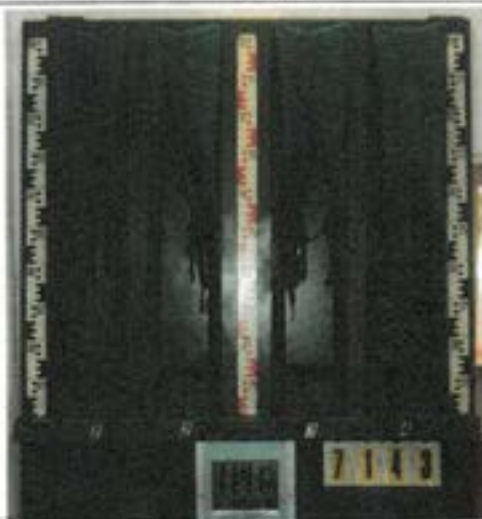
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„Brandschacht“-test #7143

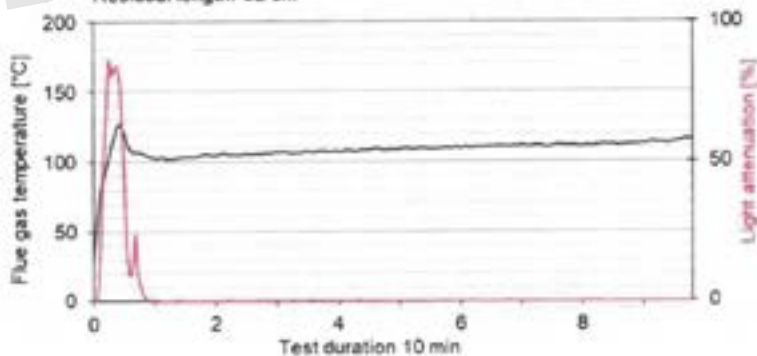


measurement

#7143, PN38307:

Max. flue temperature: 127°C, Smoke density integral: 32%min

Residual length: 32 cm



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: Dimalan

Type: B1

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enclosure 6 to test report
PZ-Hoch-231507

Test for normal flammability classifying B2 according to DIN 4102

1. Description of test material in condition as delivered look at page 2
2. Preparation of samples
Out of the material there have been cut samples for the ignitability apparatus.
The samples were kept in a climate 23/50 until they reached constant weight.
3. Arrangement of samples -freely suspended-
Flaming in warp and weft direction / Flaming side A and side B
4. Date of test CW 42 in 2023
5. Results

PN 37977; flaming side A in weft	surface-test						edge-test						Dm
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition ⁽¹⁾	4	5	4	3	5	--	1	--	--	--	--	--	s
reaching the mark of measurement ⁽²⁾	J.	J.	J.	J.	J.	--	J.	--	--	--	--	--	S
max. flame height	10	6	10	9	11	--	5	--	--	--	--	--	cm
time	12	10	9	11	12	--	6	--	--	--	--	--	
self cessation of the flames end of afterflame ⁽¹⁾	14	19	14	14	15	--	9	--	--	--	--	--	s
end of glowing ⁽¹⁾	J.	J.	J.	J.	J.	--	J.	--	--	--	--	--	s
flames were extinguished after ⁽¹⁾	J.	J.	J.	J.	J.	--	J.	--	--	--	--	--	s
smoke development (visual)	moderate						moderate						
dropping of burning material during 20 s ⁽¹⁾	J.	J.	J.	J.	J.	--	J.	--	--	--	--	--	s
Appearance after test: burned out till max. height 17cm x width 4cm													

PN 37977; additional tests	edge-test						surface-test						Dm
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
arrangement of samples side / direction	AK	BK	B/S	--	--	--	AK	BK	B/S	--	--	--	
ignition ⁽¹⁾	2	2	2	--	--	--	6	4	3	--	--	--	s
reaching the mark of measurement ⁽²⁾	J.	J.	J.	--	--	--	J.	J.	J.	--	--	--	s
max. flame height	6	2	3	--	--	--	10	9	10	--	--	--	cm
time	7	4	3	--	--	--	9	7	9	--	--	--	
self cessation of the flames end of afterflame ⁽¹⁾	48	6	4	--	--	--	53	40	12	--	--	--	s
end of glowing ⁽¹⁾	J.	J.	J.	--	--	--	J.	J.	J.	--	--	--	s
flames were extinguished after ⁽¹⁾	J.	J.	J.	--	--	--	J.	J.	J.	--	--	--	s
smoke development (visual)	moderate						moderate						
dropping of burning material during 20 s ⁽¹⁾	J.	J.	J.	--	--	--	J.	J.	J.	--	--	--	s
Appearance after test: burned out till max. height 17 cm x width 4 cm													

⁽¹⁾ time mentioned from the beginning of the test ⁽²⁾ during 20 Sec -- no appearance -- no information

K: warp / S: weft

6. Remarks and explanations to the testing procedure - none -
7. Opinion concerning the dropping of burning material
The test for normal flammability shows no burning dripping material.

100-100-100-100-100



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com