

# ACOUSTIC MOLTON

Perfect For: Masking • Decorative/Scenic • Film & TV • Stage • Acoustics

**J&C Joel** ™  
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## Composition and Care

300 cm 3

## Fire Certificates

BS5867 Part 2 Type B 4  
M1 7  
B1 8  
EN13501-1 30

## Acoustic Test Report

Flat 37  
50% Fullness 38  
100% Fullness 39

## 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/m<sup>2</sup>)



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

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	NDFR
	Fire Certification	BS5867 Part 2 Type B, M1, B1, EN13501-1
	Brand Name (and Manufacturer)	J&C Joel Ltd.
	Material (Blending Ratio)	100% Cotton
	Construction of Fabric	Plain Weave
Chemicals	Surface Treatments	Dyed & Flameproofed
	Brand Name of Flame Retardant Chemicals	KAPP-Chemie GMBH & Co.K.G
	Chemical name of Flame Retardant Chemicals	Kappaflam CFP
	Process of Flame Retardant Chemicals	Immersion
Care	Information	<p>Non-Durably Flame Retardent. This means the fabric is chemically treated if wet (in any way) should be treated to meet the flammability requirements of BS5867 Part 2 Type B, M1, B1 and EN13501-1. Therefore, the cloth will not withstand wet cleaning and should be re-flame proofed whenever wet. The cloth can be professionally dry cleaned using the correct chemical process.</p> <p>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. Commerical flame retardents may alter the aesthetics, appearance, colour or performance of the textile material.</p> <p>This fabric is not pre-shrunk.</p>
	Laundering Treatment	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Dry Clean Only</div> <div style="text-align: center;"> Do Not Wash</div> <div style="text-align: center;"> Do Not Bleach</div> <div style="text-align: center;"> Do Not Iron</div> <div style="text-align: center;"> Do Not Tumble Dry</div> </div>
Notes		




Fire Rating:  
NDFR




Approx Bale Length:  
30m / 98ft




Width:  
300cm / 118"



Weight:  
500 g/m<sup>2</sup>



Fire Certification:  
BS5867, B1,  
EN13501-1, M1



Colour Available  
2

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: BS5867 Part 2 Type B

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Leeds, LS16 6QL, UK.  
Telephone: +44 (0)113 259 1999  
Email: [info@bttg.co.uk](mailto:info@bttg.co.uk)  
Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 01 August 2017

Our Ref: 53519-31  
Your Ref: -

Page: 1 of 3

Client: J. & C. Joel Limited  
Corporation Mill  
Corporation Street  
Sowerby Bridge  
Halifax  
HX6 2QQ

Job Title: Surface Ignition Of Curtains & Drapes (Type B)

Client's Order No: -

Date of Receipt: 19 May 2017  
Date of Test Start: 08 June 2017

Description of Sample(s): One sample identified as follows was received for testing:  
Acoustic Molton, stated to be NDFR

Work Requested: We were asked to make the following test:




BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds



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Our laboratories are accredited to EN ISO/IEC 17025.

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# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: BS5867 Part 2 Type B

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TESTING • CERTIFICATION • AUDITING

J. & C. Joel Limited

Sample was identified as follows:

Acoustic Molton, stated to be NDFR

Wira House, West Park Ring Road,  
Leeds, LS16 6QL, UK.

Telephone: +44 (0)113 259 1999

Email: [info@bttg.co.uk](mailto:info@bttg.co.uk)

Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 01 August 2017

Our Ref: 53519-31

Your Ref: -

Page: 2 of 3

BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds

#### Pre-Treatment

No water treatment required as the sample was stated to be non durable flame retardant.

#### Conditioning

The test specimens were conditioned for at least 24 hours in the standard atmosphere of  $60 \pm 5$  % relative humidity (R.H.) and  $20 \pm 2$  °C.

#### Testing

Three specimens from both length and width were tested in accordance with BS EN ISO 15025: Procedure A (surface ignition):2002. The sample was tested at 20°C and 60% relative humidity (R.H.).

Each specimen was subjected to an applied flame using propane and a 15 second flame application time. The results obtained (shown in the table below) were assessed according to the requirements of BS 5867: Part 2:2008 (2015).

Test results relate only to the sample tested.

The results for all tests are given in the table(s) on the following page(s).

Reported by:   
J Coleman  
Fire Technician

Countersigned By:   
P Doherty  
Operational Head

Enquiries concerning this report should be addressed to Customer Services.





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# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: BS5867 Part 2 Type B

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TESTING • CERTIFICATION • AUDITING

J. & C. Joel Limited

## RESULTS

Sample Ref: Acoustic Molton, stated to be NDFR

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

Date: 01 August 2017

Our Ref: 53519-31  
Your Ref: -

Page: 3 of 3

BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds

Testing as received.

Specimen No.	Length			Width		
	1	2	3	4	5	6
Flame reached an edge	No	No	No	No	No	No
Hole reached an edge	No	No	No	No	No	No
Flaming debris separated	No	No	No	No	No	No

### Requirements

Any "Yes" means fail except if only one specimen fails a further 6 specimens are tested, if the second 6 specimens all pass the result is a pass.

Result: Pass

### Conclusion

The fabric meets the Type B performance requirements of BS 5867: Part 2: 2008 – the fabric must be clearly labelled 'If wetted in any way it is essential to re-treat the fabric to meet flammability requirements'.

The material should be identified with the manufacturers name, trademark or other identifying mark, the statement 'Flammability complies with the requirements of BS 5867: Part 2, Type B and instructions of any special precautions to be taken concerning care (including cleansing) of the curtain, drape or window blind to be manufactured from the fabric, preferably using an appropriate care labelling symbol in accordance with BS EN 23758 and taking account of the pre-treatment used in this test and the requirements of Clause 4 of BS 5867: Part 2: 2008 (2011). If the fabric is unsuitable for cleansing, this shall be stated.

### Uncertainty Budget

There is no uncertainty budget associated with BS 5867: Part 2: Type B as no measurements are determined, the pass/fail criteria is assessed visually.




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# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: M1

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**CSTB**  
le futur en construction

Direction Sécurité, Structures et Feu  
Division Etudes et Essais Feu

## PROCES-VERBAL DE CLASSEMENT DE REACTION AU FEU D'UN MATERIAU

Selon l'arrêté du 21 novembre 2002 modifié relatif à la réaction au feu  
des produits de construction et d'aménagement  
Laboratoire pilote agréé du Ministère de l'Intérieur (arrêté du 05/02/59 modifié)

**N° RA22-0033**

Valable 5 ans à compter du 08 octobre 2021

Matériau présenté par :

Marques commerciales : CALMUC  
KALMUCK

Description sommaire : Tissu 100 % coton ignifugé par foulardage, gratté sur les 2 faces.  
Masse surfacique nominale : 500 à 550 g/m<sup>2</sup>.  
Epaisseur mesurée : 2,2 mm.  
Coloris : noir ou écru.

Nature de l'essai : Essai au brûleur électrique  
Vieillessement en chambre climatique

Classement : **M1**

**Durabilité du classement (Annexe 2 – Paragraphe 5) :** Non limitée (article non lavable, non nettoyable à sec et pour usage intérieur uniquement).

Compte tenu des critères résultant des essais décrits dans le rapport d'essais N° DSSF-21-05760 annexé.

Ce procès-verbal atteste uniquement des caractéristiques de l'échantillon soumis aux essais et ne préjuge pas des caractéristiques de produits similaires. Il ne constitue donc pas une certification de produits au sens du code de la consommation. Seul le rapport électronique signé avec un certificat numérique valide fait foi en cas de litige. Ce rapport électronique est conservé au CSTB pendant une durée minimale de 10 ans.  
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Fait à Champs-sur-Marne, le 03 mars 2022

La Responsable du Pôle Commercial  
Communication et Développement Feu

Signature numérique  
de Clémence VOISIN  
Date : 2022.03.03  
10:36:20 +01'00'

**Clémence VOISIN**

Sont seules autorisées les reproductions intégrales du présent procès-verbal de classement ou de l'ensemble procès-verbal et rapport d'essais annexé.

### CENTRE SCIENTIFIQUE ET TECHNIQUE DU BÂTIMENT

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Trame procès-verbal rev05



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# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1

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## Prüfinstitut Hoch

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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-240738

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 100% Cotton in different variants and colours

**name of the material** „Schleiernessel“ / „Baumwoll-Cretonne“  
„Dekomolton“ / „Baumwollnessel“  
„Eventmolton“ / „Bühnenmolton“  
„Satinmolton“ / „Kalmuck“

**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** 31.05.2029

**result** The examined product meet in raw white, in any colour or  
bleached the requirements of class B1 for hardly flammable  
("schwerentflammbare") building materials according to  
DIN 4102, pt. 1 (May 1998), suspended freely or with distance of  
>40 mm to same or other plain materials.

This test report includes 11 pages and 11 enclosures.

Remark: If the building material mentioned above is not used as a product according to MBO § 2, Abs. 9,  
Ziffer1, 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 as defined by 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 as defined by State Building Prescriptions. This has to be certified instead 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 irregular building products for the required proofs of applicability.


Without written consent of the test laboratory, this test report may only be published or duplicated during its  
denoted period of validity, providing that no changes to appearance or content are made.

706-04 F200-ENG Rev04  
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.




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# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



Prüfinstitut Hoch  
Lerchenweg 1  
D-97650 Fladungen

page 2 of 11 of the test report  
PZ-Hoch-240738

## 1. Description of test material in condition as delivered

- PN 39069 "Schleiernessel" colour: black  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 97 g/m<sup>2</sup> thickness: about 0,28 mm
- PN 39070 "Schleiernessel" colour: light grey  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 92 g/m<sup>2</sup> thickness: about 0,25 mm
- PN 39071 "Baumwoll-Cretonne" colour: black  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 170g/m<sup>2</sup> thickness: about 0,32 mm
- PN 39072 "Dekomolton" colour: light red  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 176g/m<sup>2</sup> thickness: about 0,81 mm
- PN 39073 "Baumwollnessel" colour: black  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 223 g/m<sup>2</sup> thickness: about 0,34 mm
- PN 39074 "Baumwollnessel" colour: grey  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 209 g/m<sup>2</sup> thickness: about 0,33 mm
- PN 39075 "Eventmolton" colour: black  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 288 g/m<sup>2</sup> thickness: about 1,06 mm
- PN 39076 "Bühnenmolton" colour: red  
-fabric consisting of 100% Cotton-  
There is no difference between side A and side B.  
characteristic values determined by the test laboratory:  
area weight: about 352g/m<sup>2</sup> thickness: about 1,35 mm



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# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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PN 39077 "Satinmolton" (bleached) colour: white

-fabric consisting of 100% Cotton-

side A: smoother surface

characteristic values determined by the test laboratory:

area weight: about 309 g/m<sup>2</sup> thickness: about 0,69 mm

PN 39078 "Satinmolton" (bleached) colour: grey

-fabric consisting of 100% Cotton-

side A: smoother surface

characteristic values determined by the test laboratory:

area weight: about 315 g/m<sup>2</sup> thickness: about 0,75 mm

PN 39079 "Kalmuck" colour: light beige

-fabric consisting of 100% Cotton-

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 570g/m<sup>2</sup> thickness: about 1,67 mm

PN 39080 "Kalmuck" (bleached) colour: white

-fabric consisting of 100% Cotton-

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 613g/m<sup>2</sup> thickness: about 1,55 mm

PN 39081 "Kalmuck" colour: grey

-fabric consisting of 100% Cotton-

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 531g/m<sup>2</sup> thickness: about 1,54 mm

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

## 2. Preparation of samples

Samples with a size of 1000 mm height and 190 mm width where cut from the material for fire testing.

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

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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**3. Arrangement of samples** mounting: freely suspended

#7820:	flaming side A in warp direction	PN39081
#7821:	flaming side B in weft direction	PN39081
#7822:	flaming side A in warp direction	PN39080
#7825:	flaming side A in warp direction	PN39079
#7824:	flaming side A in warp direction	PN39079
#7823:	flaming side A in warp direction	PN39079
#7819:	flaming side B in weft direction	PN39078
#7818:	flaming side A in warp direction	PN39077
#7817:	flaming side A in warp direction	PN39076
#7816:	flaming side B in weft direction	PN39075
#7815:	flaming side A in warp direction	PN39074
#7814:	flaming side B in weft direction	PN39073
#7813:	flaming side A in warp direction	PN39072
#7799:	flaming side B in weft direction	PN39071
#7798:	flaming side A in warp direction	PN39070
#7797:	flaming side B in weft direction	PN39069

**4. Date of test** CW 21 until CW in 2024

**5.1 Results (part 1)** The test has been performed according to DIN 4102 (Mai 1998)

line no.	Measurement	Result with the tested specimen						Dim.
		#7820	#7821	#7822	#7825	#7824	#7823	
	Test number	#7820	#7821	#7822	#7825	#7824	#7823	
	flaming direction	warp	weft	warp	warp	warp	warp	
	side	A	B	A	A	A	A	
	sample-no	39081		39080	39079			
	fabric	Kalmuck						
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1	1	1	1	---
2	Maximum flame height above bottom edge of specimen	60	60	70	80	70	70	---
3	Time <sup>1)</sup>	0:17	0:12	0:44	0:40	0:35	0:40	---
4	Burn-through / melting Time <sup>1)</sup>	0:45	0:45	0:55	0:13	0:44	0:14	---
5	Observations on the back side of specimen Flames / Glowing Time <sup>1)</sup>	X 1:40	X 2:05	X 2:15	X 2:05	X 3:00	X 1:50	---
6	Change of colour Time <sup>1)</sup>	./	./	./	./	./	./	./
7	Falling of burning droplets Start <sup>1)</sup>	./	./	./	./	./	./	min:s
8	Extent sporadic falling of burning droplets <sup>2)</sup>	-	-	-	-	-	-	min:s
9	continuous falling of burning droplets <sup>2)</sup>	-	-	-	-	-	-	min:s
10	Falling of burning parts Start <sup>1)</sup>	./	./	./	./	./	./	min:s
11	Extent sporadic falling of burning parts <sup>2)</sup>	-	-	-	-	-	-	min:s
12	continuous falling of burning parts <sup>2)</sup>	-	-	-	-	-	-	min:s

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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D-97650 Fladungen

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PZ-Hoch-240738

line no.	Measurement	Result with the tested specimen						Dim.
		#7820	#7821	#7822	#7825	#7824	#7823	
	Test number	#7820	#7821	#7822	#7825	#7824	#7823	
	flaming direction	warp	weft	warp	warp	warp	warp	
	side	A	B	A	A	A	A	
	<b>sample-no</b>	<b>39081</b>	<b>39080</b>		<b>39079</b>			
13	Burning duration at sieve plate (max.)	.J.	.J.	.J.	.J.	.J.	.J.	min:s
14	Impairment of burner by dropping or falling material: Time <sup>1)</sup>	.J.	.J.	.J.	.J.	.J.	.J.	min:s
15	Premature end of test Final occurrence of burning at the specimen <sup>1)</sup>	1:15	1:10	1:20	1:20	2:00	1:50	min:s
16	Time of eventually end of test <sup>1)</sup>	.J.	.J.	.J.	.J.	.J.	.J.	min:s
17	Afterburning after end of test Time <sup>1)</sup>	.J.	.J.	.J.	.J.	.J.	.J.	min:s
18	Number of specimen	-	-	-	-	-	-	
19	Front side of specimen <sup>2)</sup>	-	-	-	-	-	-	
20	Rear side of specimen <sup>2)</sup>	-	-	-	-	-	-	
21	flame length	-	-	-	-	-	-	cm
22	Afterglow after end of test Time <sup>1)</sup>	.J.	.J.	.J.	.J.	.J.	.J.	min:s
23	Number of specimen	-	-	-	-	-	-	
24	Place of appearance Lower half of the specimen <sup>2)</sup>	-	-	-	-	-	-	
25	Upper half of the specimen <sup>2)</sup>	-	-	-	-	-	-	
26	Front side of specimen <sup>2)</sup>	-	-	-	-	-	-	
27	Rear side of specimen <sup>2)</sup>	-	-	-	-	-	-	
28	Density of smoke ≤ 400 % * min	13	13	18	16	19	16	% * min
29	> 400 % * min <sup>4)</sup>	-	-	-	-	-	-	% * min
30	Diagram in enclosure no.	1	1	1	2	2	2	
31	Residual lengths: individual values <sup>3)</sup>							
	Specimen 1	35	38	35	31	32	26	cm
	Specimen 2	30	35	34	29	31	27	cm
	Specimen 3	33	35	31	26	31	25	cm
	Specimen 4	36	37	33	28	33	24	cm
32	Average residual length <sup>3)</sup>	34	36	33	29	32	26	
33	Photo of specimen in enclosure no.	1	1	1	2	2	2	
34	Flue gas temperature							
35	Maximum of average values Time <sup>1)</sup>	01:47	09:45	02:48	02:45	02:33	02:39	°C min:s
36	Diagram in enclosure no.	1	1	1	2	2	2	
37	Remarks: - none -							

<sup>1)</sup> indication of times relative to beginning of test

<sup>2)</sup> checked if applicable

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

<sup>4)</sup> very strong development of smoke

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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## 5.2 Results (part 2) The test has been performed according to DIN 4102 (Mai 1998)

line no.	Measurement	Result with the tested specimen						Dim.
		#7819	#7818	#7817	#7816	#7815	#7814	
	Test number	weft	warp	warp	weft	warp	weft	
	flaming direction	B	A	A	B	A	B	
	side							
	sample-no	39078	39077	39076	39075	39074	39073	
	fabric	Satin		Bünnen	Event	Baumwollnessel		
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1	1	1	1	---
2	Maximum flame height above bottom edge of specimen	60	70	60	60	60	60	---
3	Time <sup>1)</sup>	0:15	0:20	0:21	0:10	0:11	0:11	---
4	Burn-through / melting Time <sup>1)</sup>	0:23	0:22	0:28	0:30	0:13	0:15	---
5	Observations on the back side of specimen Flames / Glowing Time <sup>1)</sup>	J.	J.	J.	J.	J.	J.	---
6	Change of colour Time <sup>1)</sup>	---	---	---	---	---	---	---
7	Falling of burning droplets Start <sup>1)</sup>	J.	J.	J.	J.	J.	J.	min:s
8	Extent sporadic falling of burning droplets <sup>2)</sup>	-	-	-	-	-	-	
9	continuous falling of burning droplets <sup>2)</sup>	-	-	-	-	-	-	min:s
10	Falling of burning parts Start <sup>1)</sup>	J.	J.	J.	J.	J.	J.	min:s
11	Extent sporadic falling of burning parts <sup>2)</sup>	-	-	-	-	-	-	
12	continuous falling of burning parts <sup>2)</sup>	-	-	-	-	-	-	
13	Burning duration at sieve plate (max.)	J.	J.	J.	J.	J.	J.	min:s
14	Impairment of burner by dropping or falling material: Time <sup>1)</sup>	J.	J.	J.	J.	J.	J.	min:s
15	Premature end of test Final occurrence of burning at the specimen <sup>1)</sup>	0:30	0:30	1:00	1:00	0:25	0:35	min:s
16	Time of eventually end of test <sup>1)</sup>	J.	J.	J.	J.	J.	J.	min:s
17	Afterburning after end of test Time <sup>1)</sup>	J.	J.	J.	J.	J.	J.	min:s
18	Number of specimen	-	-	-	-	-	-	
19	Front side of specimen <sup>2)</sup>	-	-	-	-	-	-	
20	Rear side of specimen <sup>2)</sup>	-	-	-	-	-	-	
21	flame length	-	-	-	-	-	-	cm

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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line no.	Measurement	Result with the tested specimen						Dim.
		#7819	#7818	#7817	#7816	#7815	#7814	
	Test number	#7819	#7818	#7817	#7816	#7815	#7814	
	flaming direction	weft	warp	warp	weft	warp	weft	
	side	B	A	A	B	A	B	
	<b>sample-no</b>	<b>39078</b>	<b>39077</b>	<b>39076</b>	<b>39075</b>	<b>39074</b>	<b>39073</b>	
	<b>fabric</b>	<b>Satin</b>	<b>Bühnen</b>	<b>Event</b>	<b>Baumwollnessel</b>			
22	<u>Afterglow after end of test</u> Time <sup>1)</sup>	-	-	-	-	-	-	min:s
23	Number of specimen Place of appearance	./.	./.	./.	./.	./.	./.	
24	Lower half of the specimen <sup>2)</sup>	-	-	-	-	-	-	
25	Upper half of the specimen <sup>2)</sup>	-	-	-	-	-	-	
26	Front side of specimen <sup>2)</sup>	-	-	-	-	-	-	
27	Rear side of specimen <sup>2)</sup>	-	-	-	-	-	-	
28	<u>Density of smoke</u> ≤ 400 % * min	9	10	4	9	1	5	% * min
29	> 400 % * min <sup>4)</sup>	-	-	-	-	-	-	% * min
30	Diagram in enclosure no.	3	3	3	4	4	4	
31	<u>Residual lengths: individual values <sup>3)</sup></u>							
	Specimen 1	46	41	42	35	43	52	cm
	Specimen 2	42	42	44	35	42	49	cm
	Specimen 3	49	42	43	36	32	45	cm
	Specimen 4	46	41	42	35	35	45	cm
32	<u>Average residual length <sup>3)</sup></u>	<b>46</b>	<b>42</b>	<b>43</b>	<b>35</b>	<b>38</b>	<b>48</b>	
33	Photo of specimen in enclosure no.	3	3	3	4	4	4	
34	<u>Flue gas temperature</u>							
35	Maximum of average values Time <sup>1)</sup>	114 09:54	111 0:25	117 09:48	115 10:00	116 09:42	116 09:54	°C min:s
36	Diagram in enclosure no.	3	3	3	4	5	6	
37	Remarks: - none -							

<sup>1)</sup> indication of times relative to beginning of test

<sup>2)</sup> checked if applicable

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

<sup>4)</sup> very strong development of smoke

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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**5.3 Results (part 3)** The test has been performed according to DIN 4102 (Mai 1998)

line no.	Measurement	Result with the tested specimen				Dim.
		#7813	#7799	#7798	#7797	
	Test number	#7813	#7799	#7798	#7797	
	flaming direction	warp	weft	warp	weft	
	side	A	B	A	B	
	<b>sample-no</b>	<b>39072</b>	<b>39071</b>	<b>39070</b>	<b>39069</b>	
	<b>fabric</b>	<b>Deko</b>	<b>BW-Cretonne</b>	<b>Schleiernesel</b>		
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1	1	---
2	Maximum flame height above bottom edge of specimen	60	60	60	50	---
3	Time <sup>1)</sup>	0:09	0:11	0:08	0:08	---
4	Burn-through / melting Time <sup>1)</sup>	0:16	0:14	0:08	0:10	---
5	Observations on the back side of specimen Flames / Glowing Time <sup>1)</sup>	---	---	---	---	---
6	Change of colour Time <sup>1)</sup>	J.	J.	J.	J.	J.
7	Falling of burning droplets Start <sup>1)</sup>	J.	J.	J.	J.	min:s
8	Extent					
9	sporadic falling of burning droplets <sup>2)</sup>	-	-	-	-	min:s
10	continuous falling of burning droplets <sup>2)</sup>	-	-	-	-	min:s
11	Falling of burning parts Start <sup>1)</sup>	J.	J.	J.	J.	min:s
12	Extent					
13	sporadic falling of burning parts <sup>2)</sup>	-	-	-	-	min:s
14	continuous falling of burning parts <sup>2)</sup>	-	-	-	-	min:s
15	Burning duration at sieve plate (max.)	J.	J.	J.	J.	min:s
16	Impairment of burner by dropping or falling material: Time <sup>1)</sup>	J.	J.	J.	J.	min:s
17	Premature end of test					
18	Final occurrence of burning at the specimen <sup>1)</sup>	0:30	1:05	0:19	0:55	min:s
19	Time of eventually end of test <sup>1)</sup>	J.	J.	J.	J.	min:s
20	Afterburning after end of test Time <sup>1)</sup>	J.	J.	J.	J.	min:s
21	Number of specimen	-	-	-	-	
22	Front side of specimen <sup>2)</sup>	-	-	-	-	
23	Rear side of specimen <sup>2)</sup>	-	-	-	-	
24	flame length	-	-	-	-	cm

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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line no.	Measurement	Result with the tested specimen				Dim.
	Test number	#7813	#7799	#7798	#7797	
	flaming direction	warp	weft	warp	weft	
	side	A	B	A	B	
	<b>sample-no</b>	<b>39072</b>	<b>39071</b>	<b>39070</b>	<b>39069</b>	
	<b>fabric</b>	<b>Deko</b>	<b>BW-Cretonne</b>	<b>Schleiernessel</b>		
22	<u>Afterglow after end of test</u> Time <sup>1)</sup>	-	-	-	-	min:s
23	Number of specimen <u>Place of appearance</u>	./.	./.	./.	./.	
24	Lower half of the specimen <sup>2)</sup>	-	-	-	-	
25	Upper half of the specimen <sup>2)</sup>	-	-	-	-	
26	Front side of specimen <sup>2)</sup>	-	-	-	-	
27	Rear side of specimen <sup>2)</sup>	-	-	-	-	
28	<u>Density of smoke</u> ≤ 400 % * min	4	4	2	1	% * min
29	> 400 % * min <sup>4)</sup>	-	-	-	-	% * min
30	Diagram in enclosure no.	5	5	5	6	
31	<u>Residual lengths: individual values <sup>3)</sup></u>					
	Specimen 1	40	46	51	79	cm
	Specimen 2	42	50	40	74	cm
	Specimen 3	40	50	46	76	cm
	Specimen 4	42	52	46	74	cm
32	<u>Average residual length <sup>3)</sup></u>	41	50	46	76	
33	Photo of specimen in enclosure no.	5	5	5	6	
34	<u>Flue gas temperature</u>					
35	Maximum of average values Time <sup>1)</sup>	112 09:39	116 10:00	113 07:39	118 07:37	°C min:s
36	Diagram in enclosure no.	5	5	5	6	
37	Remarks: - none -					

- <sup>1)</sup> indication of times relative to beginning of test <sup>2)</sup> checked if applicable  
<sup>3)</sup> indication of carrier/foam layer separated in case of fire-proofing agents  
<sup>4)</sup> very strong development of smoke

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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6. Explanations concerning the testing procedure -none-

7. Summary of results and additional establishments to Fire Behaviour

lineno.	Measurement	Result with the tested specimen						dimension
	test-no.	#7820 warp dir. side A	#7821 weft dir. side B	#7822 warp dir. side A	#7825 warp dir. side A	#7824 warp dir. side A	#7823 warp dir. side A	
	<b>sample-no</b>	39081		39080	39079			
	<b>fabric</b>	Kalmuck						
1	residual length	34	36	33	29	32	26	cm
2	max. smoke temperature	119	116	119	119	120	122	°C
3	integral of smoke density	13	13	18	16	19	16	%min
4	remarks: none							

lineno.	Measurement	Result with the tested specimen						dimension
	test-no.	#7819 weft dir. side B	#7818 warp dir. side A	#7817 warp dir. side A	#7816 weft dir. side B	#7815 warp dir. side A	#7814 weft dir. side B	
	<b>sample-no</b>	39078	39077	39076	39075	39074	39073	
	<b>fabric</b>	Satin		Bühnen	Event	Baumwollnessel		
1	residual length	46	42	43	35	38	48	cm
2	max. smoke temperature	114	111	117	115	116	116	°C
3	integral of smoke density	9	10	4	9	1	5	%min
4	remarks: none							

lineno.	Measurement	Result with the tested specimen				dimension
	test-no.	#7813 warp dir. side A	#7799 weft dir. side B	#7798 warp dir. side A	#7797 weft dir. side B	
	<b>sample-no</b>	39072	39071	39070	39069	
	<b>fabric</b>	Deko	BW-Cretonne	Schleiernessel		
1	residual length	41	50	46	76	cm
2	max. smoke temperature	112	116	113	118	°C
3	integral of smoke density	4	4	2	1	%min
4	remarks: none					

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

After performing additional tests in the ignitability apparatus, this could be verified (encl. 7 - 11).

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1

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## 8. Special remarks

- This report is only valid for the material as described in paragraph 1. In combination with other materials or with additional coatings or primers 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 if the material is used as a building product in the sense of the State Building Regulations ("Landesbauordnungen", 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 used 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 denoted date on page 1. The test report becomes invalid in case the standards on which these tests are based are changed.

Fladungen, 10.06.2024

Clerk in charge:


(Dipl.-Ing. (FH) Jürgen Hammer)



Head of test laboratory:


(Dipl.-Ing. (FH) Andreas Hoch)

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# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



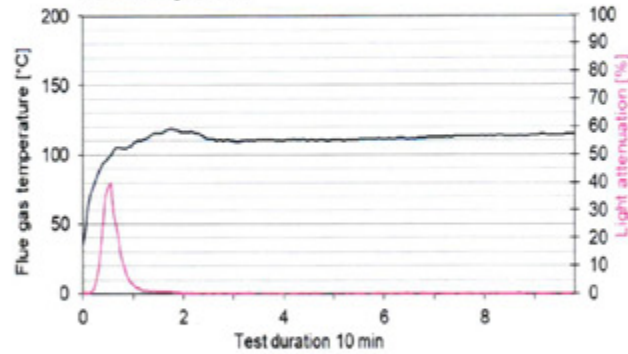
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## Fire shaft test #7820



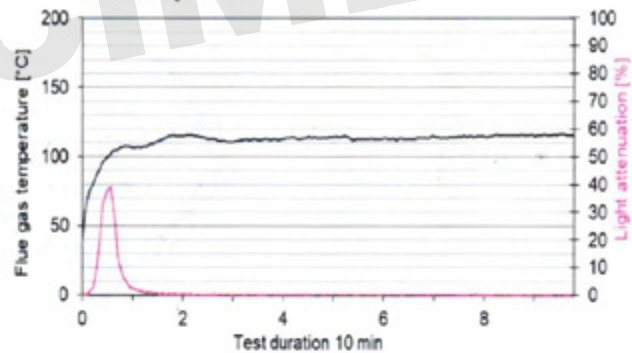
#7820, PN39081:  
Max. flue temperature: 119°C, Smoke density integral: 13%/min  
Residual length: 34 cm



## Fire shaft test #7821



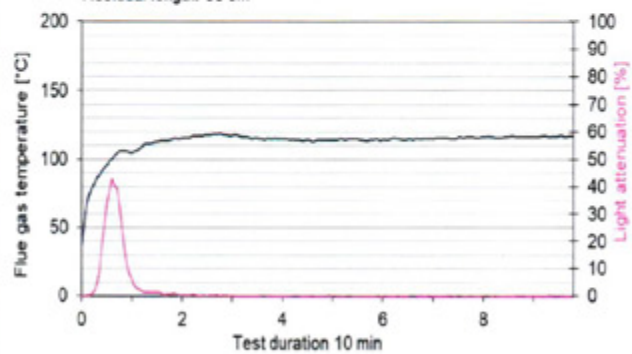
#7821, PN39081:  
Max. flue temperature: 116°C, Smoke density integral: 13%/min  
Residual length: 36 cm



## Fire shaft test #7822



#7822, PN39080:  
Max. flue temperature: 119°C, Smoke density integral: 18%/min  
Residual length: 33 cm



# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1

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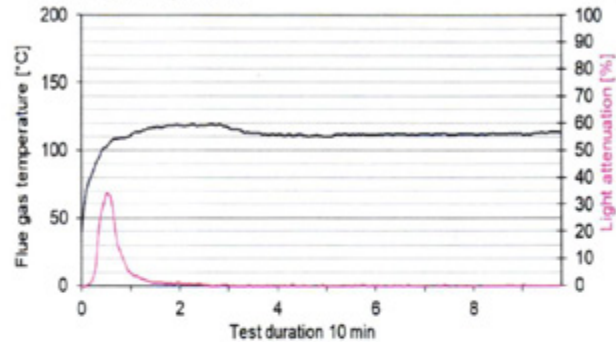
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## Fire shaft test #7825



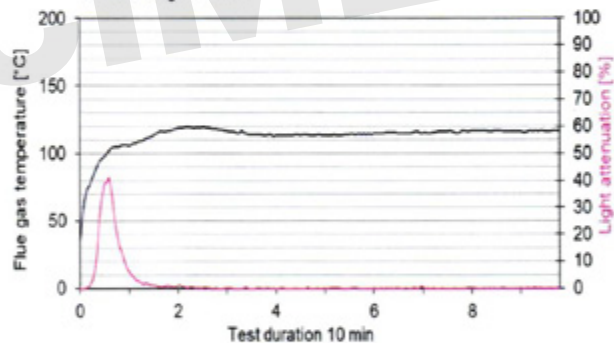
#7825, PN39079:  
Max. flue temperature: 119°C, Smoke density integral: 16%/min  
Residual length: 29 cm



## Fire shaft test #7824



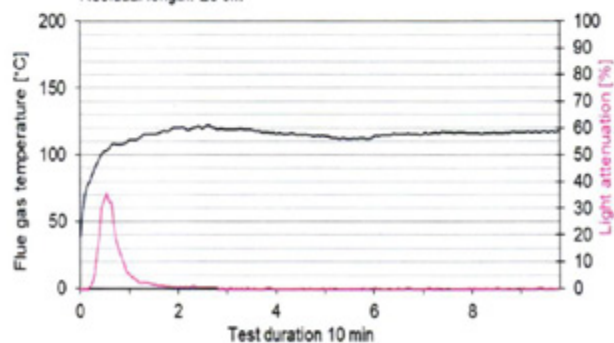
#7824, PN39079:  
Max. flue temperature: 120°C, Smoke density integral: 19%/min  
Residual length: 32 cm



## Fire shaft test #7823



#7823, PN39079:  
Max. flue temperature: 122°C, Smoke density integral: 16%/min  
Residual length: 26 cm



# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1

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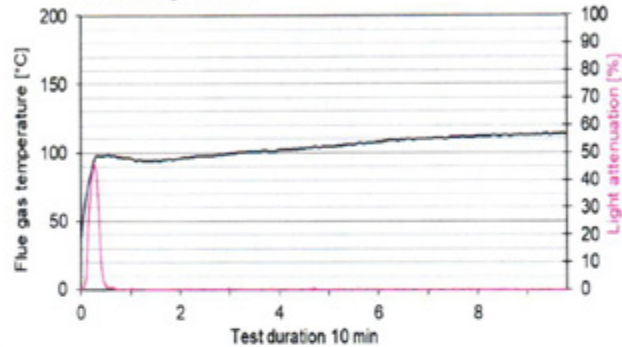
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## Fire shaft test #7819

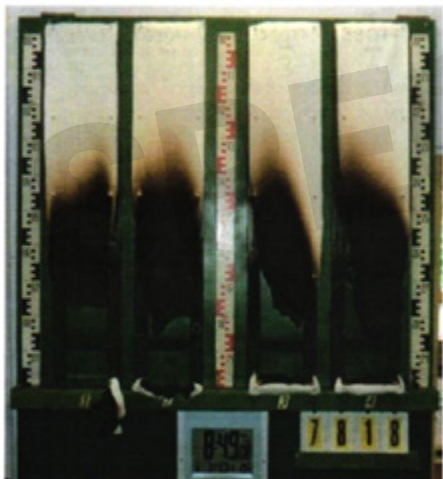


#7819, PN39078:

Max. flue temperature: 114°C, Smoke density integral: 9%/min  
Residual length: 46 cm

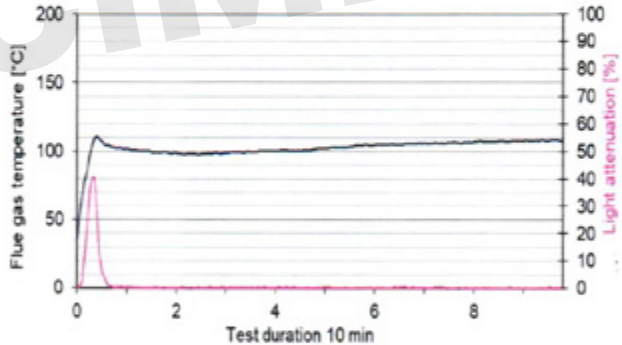


## Fire shaft test #7818

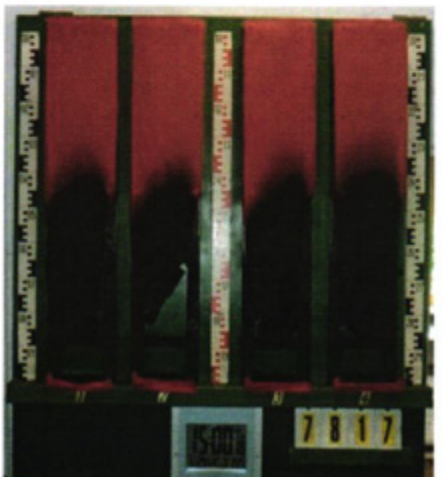


#7818, PN39077:

Max. flue temperature: 111°C, Smoke density integral: 10%/min  
Residual length: 42 cm

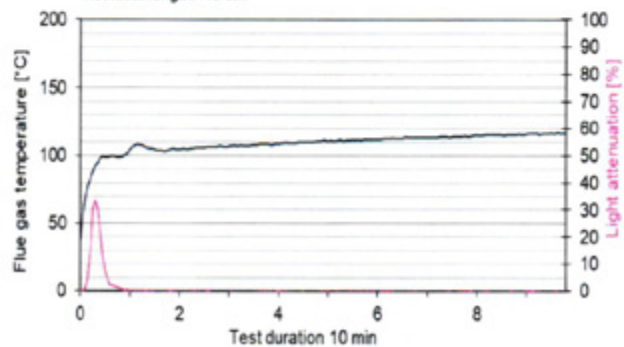


## Fire shaft test #7817



#7817, PN39076:

Max. flue temperature: 117°C, Smoke density integral: 4%/min  
Residual length: 43 cm



# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

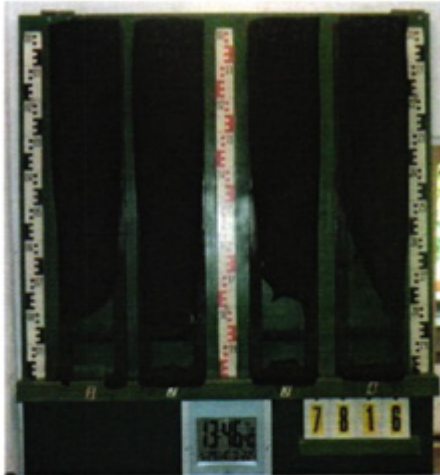
Type: B1



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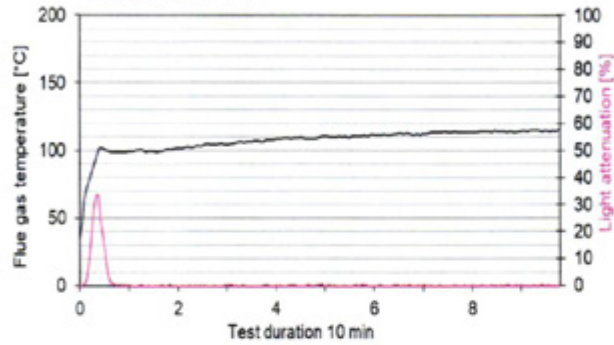
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## Fire shaft test #7816

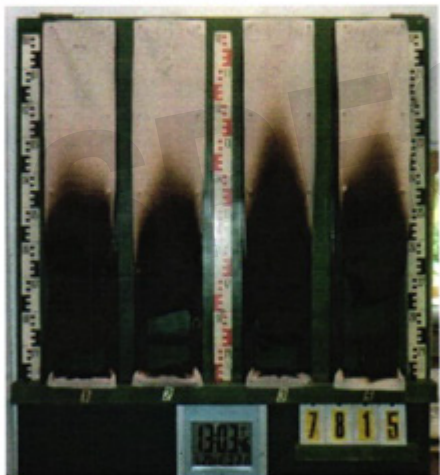


#7816, PN39075:

Max. flue temperature: 115°C, Smoke density integral: 9%/min  
Residual length: 35 cm

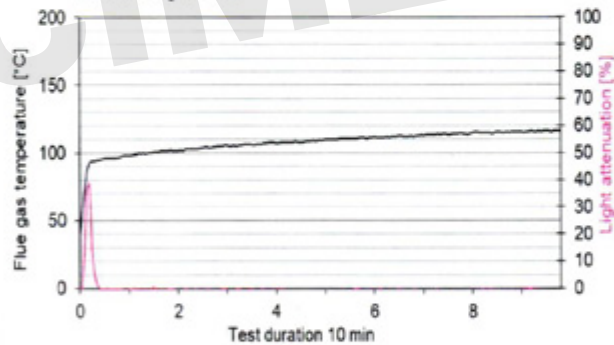


## Fire shaft test #7815



#7815, PN39074:

Max. flue temperature: 116°C, Smoke density integral: 1%/min  
Residual length: 38 cm

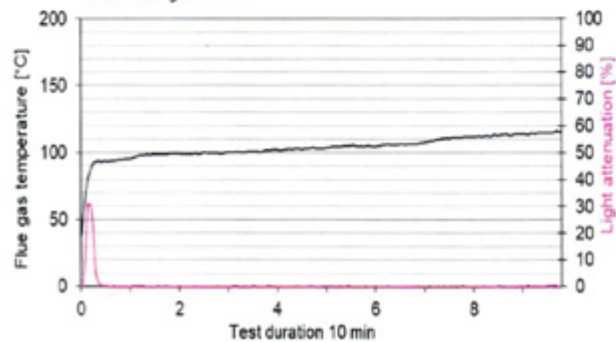


## Fire shaft test #7814



#7814, PN39073:

Max. flue temperature: 116°C, Smoke density integral: 5%/min  
Residual length: 48 cm



# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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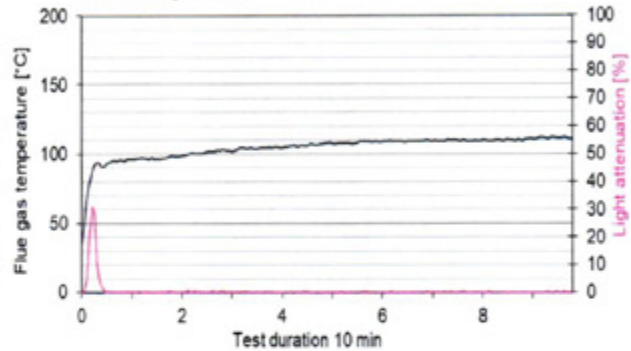
## Fire shaft test #7813



#7813, PN39072:

Max. flue temperature: 112°C, Smoke density integral: 4%/min

Residual length: 41 cm



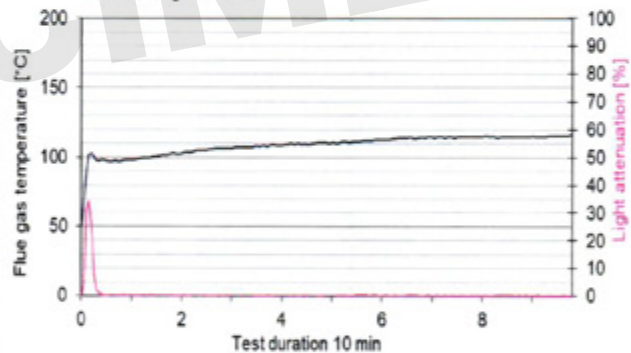
## Fire shaft test #7799



#7799, PN39071:

Max. flue temperature: 116°C, Smoke density integral: 4%/min

Residual length: 50 cm



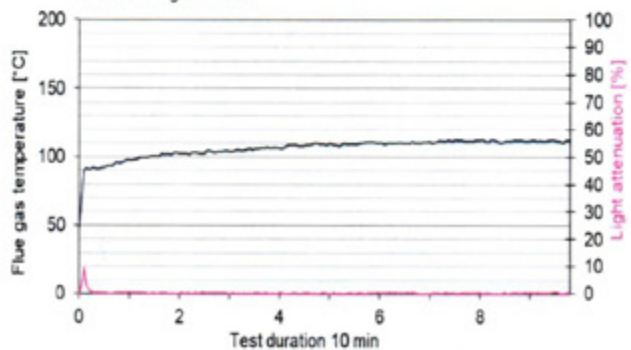
## Fire shaft test #7798



#7798, PN39070:

Max. flue temperature: 113°C, Smoke density integral: 2%/min

Residual length: 46 cm



# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1

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## Fire shaft test #7797

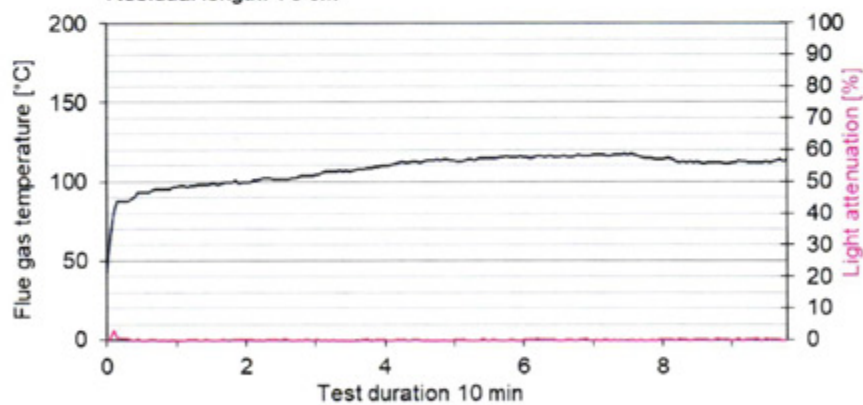


measurement

#7797, PN39069:

Max. flue temperature: 118°C, Smoke density integral: 1%/min

Residual length: 76 cm



# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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**Test for normal flammability**  
**classifying B2 according to DIN 4102 with fire tests according to EN ISO 11925-2**

1. Description of test material in condition as delivered cf. page 2
2. Preparation of samples  
Samples for the ignitability apparatus were cut from the sample.  
The samples were kept in a climate 23/50 until they reached constant weight.  
Durance of flaming: 15 seconds
3. Arrangement of samples freely suspended  
Flaming side A and side B in warp and in weft direction
4. Date of test CW 20 in 2024
5. Results

PN 39070: samples no.	edge-test						surface-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AS	BS	AK	BK	BK	BS	AS	BS	AK	BK	BK	BS	
ignition <sup>1)</sup>	1	1	1	1	1	1	2	2	2	1	1	2	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	s
maximum flame height	5	6	5	4	4	5	4	5	5	4	4	6	cm
time of max. flame height	5	3	3	3	2	4	5	5	5	3	3	4	s
Self-cessation of flames <sup>1)</sup>	6	5	5	4	4	5	6	6	6	5	5	6	s
end of glowing	15	16	16	15	15	15	15	15	15	15	15	15	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	s
smoke development (visually)	little						moderate						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	s
Appearance after test: burned out till max. width 2 cm x height 7 cm													

PN 39070: samples no.	edge-test						surface-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	-/-	2	-/-	-/-	--	--	4	3	2	2	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	2	2	2	2	--	--	3	4	4	4	--	--	cm
time of max. flame height	-/-	5	-/-	-/-	--	--	6	6	4	5	--	--	s
Self-cessation of flames <sup>1)</sup>	-/-	15	-/-	-/-	--	--	8	8	7	6	--	--	s
end of glowing	15	15	15	15	--	--	15	15	15	15	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	very little						little						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2 cm x height 9 cm													

<sup>1)</sup> time denoted relative to beginning of test      <sup>2)</sup> during 20 Sec      -/- no occurrence      -- no information  
A side A    B side B    K warp    S weft

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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PN 39071:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	1	1	1	1	--	--	3	3	3	3	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	4	4	4	5	--	--	5	6	6	6	--	--	cm
time of max. flame height	3	2	3	3	--	--	7	10	9	9	--	--	s
Self-cessation of flames <sup>1)</sup>	5	5	5	5	--	--	10	11	11	11	--	--	s
end of glowing	15	16	15	16	--	--	16	16	15	15	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						moderate						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 1,7 cm x height 8 cm													

PN 39072:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	2	2	2	1	--	--	3	4	3	3	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	5	4	3	3	--	--	5	5	5	5	--	--	cm
time of max. flame height	6	7	4	5	--	--	7	11	9	11	--	--	s
Self-cessation of flames <sup>1)</sup>	10	9	7	8	--	--	13	14	15	14	--	--	s
end of glowing	16	16	15	15	--	--	16	16	16	16	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	little						moderate						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 7,5 cm													

PN 39073:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	1	1	1	2	--	--	3	3	3	3	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	3	3	4	3	--	--	5	5	4	4	--	--	cm
time of max. flame height	5	5	6	5	--	--	9	13	11	9	--	--	s
Self-cessation of flames <sup>1)</sup>	7	8	8	7	--	--	15	15	15	15	--	--	s
end of glowing	16	15	15	15	--	--	./.	15	15	15	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	little						heavy						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 1,5 cm x height 6,0 cm													

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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PN 39074:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	1	1	1	1	--	--	3	4	3	3	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	5	5	4	3	--	--	5	5	5	5	--	--	cm
time of max. flame height	7	8	5	4	--	--	7	8	9	10	--	--	s
Self-cessation of flames <sup>1)</sup>	10	9	7	6	--	--	10	11	15	15	--	--	s
end of glowing	16	15	15	15	--	--	-/-	-/-	-/-	-/-	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						heavy						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 8,0 cm													

PN 39075:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	5	4	4	4	--	--	4	4	5	3	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	4	3	3	3	--	--	2	5	4	4	--	--	cm
time of max. flame height	6	8	10	9	--	--	6	13	11	12	--	--	s
Self-cessation of flames <sup>1)</sup>	8	10	14	12	--	--	15	15	15	15	--	--	s
end of glowing	15	16	15	16	--	--	15	15	15	15	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	little						moderate						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,3 cm x height 7,0 cm													

PN 39076:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	2	1	2	3	--	--	6	5	6	5	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	3	3	3	3	--	--	2	2	2	2	--	--	cm
time of max. flame height	5	4	7	8	--	--	15	15	8	7	--	--	s
Self-cessation of flames <sup>1)</sup>	7	14	15	13	--	--	10	15	15	15	--	--	s
end of glowing	16	15	15	17	--	--	15	15	15	15	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						heavy						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 6,0 cm													

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1



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PN 39077:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	1	1	1	1	--	--	-/-	-/-	10	9	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	5	4	5	4	--	--	2	2	5	5	--	--	cm
time of max. flame height	10	11	9	11	--	--	-/-	-/-	14	13	--	--	s
Self-cessation of flames <sup>1)</sup>	13	14	11	13	--	--	-/-	-/-	15	15	--	--	s
end of glowing	16	15	16	15	--	--	15	16	15	15	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						moderate						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 9,0 cm													

PN 39078:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	5	1	1	2	--	--	-/-	6	7	5	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	3	3	3	4	--	--	2	5	4	3	--	--	cm
time of max. flame height	9	7	6	8	--	--	-/-	14	12	10	--	--	s
Self-cessation of flames <sup>1)</sup>	12	11	11	11	--	--	-/-	15	15	15	--	--	s
end of glowing	15	15	15	15	--	--	-/-	15	15	15	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	little						little						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 8,0 cm													

PN 39079:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	5	3	4	3	--	--	-/-	-/-	-/-	-/-	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	2	3	2	2	--	--	2	2	2	2	--	--	cm
time of max. flame height	6	8	7	8	--	--	-/-	-/-	-/-	-/-	--	--	s
Self-cessation of flames <sup>1)</sup>	15	15	15	15	--	--	-/-	-/-	-/-	-/-	--	--	s
end of glowing	22	22	22	22	--	--	15	15	-/-	-/-	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						moderate						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 6,0 cm													

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: B1

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PN 39080:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	2	2	2	2	--	--	2	2	2	2	--	--	cm
time of max. flame height	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Self-cessation of flames <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
end of glowing	22	22	22	22	--	--	-/-	16	15	15	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	little						little						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 5,0 cm													

PN 39081:	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition <sup>1)</sup>	6	7	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
measurement mark reached <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	2	2	2	2	--	--	2	2	2	2	--	--	cm
time of max. flame height	10	10	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Self-cessation of flames <sup>1)</sup>	15	15	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
end of glowing	15	18	22	22	--	--	-/-	-/-	12	15	--	--	s
flames were extinguished after <sup>1)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						moderate						
dropping of burning material <sup>1)2)</sup>	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 6,0 cm													

<sup>1)</sup> time denoted relative to beginning of test      <sup>2)</sup> during 20 Sec      -/- no occurrence      -- no information  
A side A    B side B    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 dropping burning material.

# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: EN13501-1

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Prüfinstitut für das Brandverhalten von Bauprodukten, Dipl.-Ing. (FH) Andreas Hoch  
Bauaufsichtlich anerkannte Prüf-, Überwachungs- und Zertifizierungsstelle

## KB-Hoch-241380-2

### KLASSIFIZIERUNGSBERICHT

Klassifizierung des Brandverhaltens nach EN 13501-1 <sup>1)</sup>

### CLASSIFICATION REPORT

Reaction to fire classification according to EN 13501-1 <sup>1)</sup>

Auftraggeber  
Client

Herstellwerk  
Production site

Gegenstand  
Subject

Beschreibung  
Description

Klassifizierung  
Classification

Berichtsdatum  
Issue date

Geltungsdauer  
Validity

"Art. 14/50 Schleiernessel / Gauze/Muslin"  
"Art. 60/20 Baumwoll-Cretonne / Cotton Sheeting light"  
"Art. 15/14 Dekomolton / Decomolton"  
"Art. 24/28 Baumwollnessel / Cotton Canvas"  
"Art. 11/06 Eventmolton / Eventmolton"  
"Art. 22/20 Satinmolton / Satinmolton"  
"Art. 13/07 Bühnenmolton / Stagemolton"  
"Art. 28/08 Kalmuck / Calmuc/Soundabsorber"

Gewebe aus 100% Baumwolle in verschiedenen Varianten und Farben  
100% cotton fabric in different variations and colors

**B – s1,d0**

09.12.2024

30.11.2029 <sup>2)</sup> (siehe Abschnitt 5.1 / confer to section 5.1)

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<sup>1)</sup> EN 13501-1:2018

<sup>2)</sup> Verlängerung auf Antrag / Prolongation on request

PRÜF-GEFÜHRTE  
Mitglied  
notified



Bezugs-


der

body: 1508

Durch die DAkkS nach DIN EN ISO/IEC 17025 akkreditiertes Prüflaboratorium.  
Die Akkreditierung gilt für die in der Urkunde aufgeführten Prüfverfahren




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# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: EN13501-1

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Seite 2 von 7 des Klassifizierungsberichts  
page 2 of 7 of classification report  
KB-Hoch-241380-2

## 1. Einführung / Introduction

Dieser Klassifizierungsbericht zum Brandverhalten definiert die Klassifizierung, die dem Bauprodukt in Übereinstimmung mit den Verfahren nach EN 13501-1:2018 zugeordnet wird.

*This classification report defines the classification assigned to the construction product in accordance with the procedures given in EN 13501-1:2018.*

## 2. Beschreibung zum Bauprodukt / Description of the construction product

Das Produkt wird in den in Punkt 3.1 aufgeführten Prüfberichten, die der Klassifizierung zugrunde liegen, vollständig beschrieben. Dabei wurde das Produkt mit den folgenden Produktparametern getestet.


*The product is fully described in the test reports in support of this classification listed in section 3.1. The product was tested adhering to the following product parameters.*

"Art. 14/50 Schleiernessel / Gauze/Muslin"			
"Art. 60/20 Baumwoll-Cretonne / Cotton Sheeting light"			
"Art. 15/14 Dekomolton / Decomolton"			
"Art. 24/28 Baumwollnessel / Cotton Canvas"			
"Art. 11/06 Eventmolton / Eventmolton"			
"Art. 22/20 Satinmolton / Satinmolton"			
"Art. 13/07 Bühnenmolton / Stagemolton"			
"Art. 28/08 Kalmuck / Calmuc/Soundabsorber"			
Geprüfte Gesamtdicke <i>Tested total thickness</i>	≈ 0,26 mm	bis <i>up to</i>	≈ 1,77 mm
Nominales Flächengewicht des geprüften Materials <i>Nominal weight per unit area of the tested material</i>	≈ 75 g/m <sup>2</sup>	bis <i>up to</i>	≈ 500 g/m <sup>2</sup>
Materialzusammensetzung <i>Material composition</i>	100 % Baumwolle <i>100% cotton</i>		
Geprüfte Farben <i>Tested colours</i>	Wie in den zugrundeliegenden Berichten angegeben <i>With the density given in the underlying reports</i>		

Das Produkt erfüllt nach Angaben des Auftraggebers keine harmonisierte europäische technische Spezifikation (z.B. Produktnorm oder EAD).


*According to the applicant, the product is not compliant with any harmonised European technical specification (e.g. product standard or EAD).*

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# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: EN13501-1

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**Prüfinstitut Hoch**  
Lerchenweg 1  
D-97650 Fladungen

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### 3. Prüfberichte und Prüfergebnisse als Grundlage dieser Klassifizierung

*Test reports and test results as a basis for this classification*

#### 3.1. Prüfberichte / Test reports

Name des Labors Name of laboratory	Auftraggeber Sponsor	Prüfverfahren Test method	Prüfbericht, Datum Test report, date
Prüfinstitut Hoch		EN ISO 11925-2 (Einzelflammentest / single flame source test)	PB-Hoch-241378-2 09.12.2024
		EN 13823 (SBI)	PB-Hoch-241379-2 09.12.2024

#### 3.2. Ergebnisse / Results

Prüfverfahren Test method	Parameter Parameter	Anzahl der Prüfungen Number of tests	Ergebnisse Results	Anforderung für B - s1,d0 Requirements
EN ISO 11925-2	$F_s$	12 (insg. / total 57)	max. 60 mm	-
	$F_s \leq 150$ mm Flammenausbreitung höchstens 150 mm flame spread no more than 150 mm		ja yes	erfüllt compliant
	Brennendes Abtropfen flaming droplets		nein no	erfüllt compliant

$F_s$  Maximale vertikale Flammenausbreitung [mm].  
Maximum vertical flame spread [mm].

Tabelle / Table 1: Prüfergebnis der Kleinbrennerprüfung / Result of single-flame source test



# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: EN13501-1



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Prüfverfahren Test method	Parameter Parameter	Anzahl der Prüfungen Number of tests	Ergebnisse (Mittelwert) Results (average value)	Anforderung Requirement
EN 13823	FIGRA <sub>0,2MJ</sub>	3 (insg. / total 19)	92 W/s	A2 / B: ≤ 120 W/s
	FIGRA <sub>0,4MJ</sub>		92 W/s	C: ≤ 250 W/s D: ≤ 750 W/s
	THR <sub>600s</sub>		2,3 MJ	A2 / B: ≤ 7,5 MJ C: ≤ 15 MJ
	SMOGRA		29 m <sup>2</sup> /s <sup>2</sup>	s1: ≤ 30 m <sup>2</sup> /s <sup>2</sup> s2: ≤ 180 m <sup>2</sup> /s <sup>2</sup>
	TSP <sub>600s</sub>		16 m <sup>2</sup>	s1: ≤ 50 m <sup>2</sup> s2: ≤ 200 m <sup>2</sup>
	FDP		d0	d0: Kein Brennen / no flaming d1: ≤ 10 s Brenndauer / flaming d2: > 10 s Brenndauer / flaming
	LSF		erfüllt compliant	Rand der Probe nicht erreicht Sample edge not reached
<b>Erläuterungen / remarks:</b>				
FIGRA <sub>0,2MJ</sub>	Feuerwachstumswert [W/s] nach Erreichen des THR-Schwellenwertes 0,2 MJ Fire Growth Rate [W/s] after reaching a THR threshold of 0,2 MJ			
FIGRA <sub>0,4MJ</sub>	Feuerwachstumswert [W/s] nach Erreichen des THR-Schwellenwertes 0,4 MJ Fire Growth Rate [W/s] after reaching a THR threshold of 0,4 MJ			
THR <sub>600s</sub>	Gesamte freigesetzte Wärme während der ersten 600 Sekunden Beflammung [MJ] Total heat release during the first 600 seconds of flame impingement [MJ]			
SMOGRA	Rauchentwicklungsrate [m <sup>2</sup> /s <sup>2</sup> ] Smoke Growth Rate [m <sup>2</sup> /s <sup>2</sup> ]			
TSP <sub>600s</sub>	gesamte freigesetzte Rauchmenge während der ersten 600 Sekunden Beflammung [m <sup>2</sup> ] Total smoke production during the first 600 seconds of flame impingement [m <sup>2</sup> ]			
LSF	seitliche Flammenausbreitung bis zur Außenkante des langen Probenflügels lateral spread of flame, reaching the far edge of the large sample wing			
FDP	brennendes Abtropfen während der ersten 600 Sekunden Beflammung [s] flaming droplets / particles during the first 600 seconds of flame impingement [s]			
Tabelle / Table 2: Prüfergebnisse der SBI-Prüfungen / SBI test results				





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#### 4. Klassifizierung und Anwendungsgebiet / Classification and field of application

##### 4.1. Klassifizierung / Classification

Die Klassifizierung ist nach EN 13501-1:2018, Abschnitt 11 (Bauprodukte mit Ausnahme von Bodenbelägen) erfolgt.

*This classification has been carried out acc. to EN 13501-1:2018, section 11 (construction products, excluding floorings).*

Brandverhalten reaction to fire		Rauchentwicklung smoke production			Brennendes Abtropfen/Abfallen flaming droplets	
<b>B</b>	<b>-</b>	<b>s</b>	<b>1</b>	<b>,</b>	<b>d</b>	<b>0</b>

**Klassifizierung / Classification: B – s1,d0**

##### 4.2. Anwendungsgebiet / Field of application

Die Klassifizierung in Abschnitt 4.1 ist nur für das auf Seite 1 genannte und im Abschnitt 2 sowie den in Abschnitt 3.1 genannten Prüfberichten näher beschriebene Bauprodukt gültig.

Die Klassifizierung ist außerdem für die folgenden Produktparameter gültig:

- Farbe beliebig
- Dekomolton leicht 130 g/m<sup>2</sup>

Diese Klassifizierung gilt für folgende Endanwendungsbedingungen:

- Freihängend.
- Evtl. angrenzende flächige Baustoffe müssen mindestens der Klasse A1 oder A2-s1,d0 nach EN 13501-1 entsprechen und eine Dicke von mindestens 9 mm und eine Rohdichte von mindestens 653 kg/m<sup>3</sup> aufweisen. Der Abstand des Produkts zu diesen Baustoffen, muss mindestens 40 mm betragen. Ausgenommen davon sind Untergründe aus Gipsplatten, die nicht in diesem Endanwendungsbereich mitinbegriffen sind.



# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: EN13501-1

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The classification in section 4.1 is valid solely for the product referred to on page 1 and described in detail in section 2 as well as in the test reports listed in section 3.1.

The classification is additionally valid for the following product parameters:

- Arbitrary colour
- Decomolton light 130 g/m<sup>2</sup>

This classification is valid for the following end use conditions:

- Freely suspended.
- If fixed in front of underlying materials, these have to be at least of class A1 or A2-s1,d0 (EN 13501-1) and must have a thickness of at least 9 mm and a gross density of no less than 653 kg/m<sup>3</sup>. The distance of the product to these underlying materials must be at least 40 mm. Gypsum plasterboards are exempt as underlying materials and are not included in this end use condition.

## 5. Einschränkungen / Limitations

### 5.1. Geltungsdauer / Duration of validity

Die Klassifizierung gilt bis zum auf Seite 1 angegebenem Datum. Sie kann nach einer Überprüfung des Brandverhaltens verlängert werden. Der Klassifizierungsbericht verliert außerdem seine Gültigkeit, wenn sich die Klassifizierungskriterien gemäß DIN EN 13501-1 ändern oder ergänzt werden, oder wenn die Produktzusammensetzung oder der Produktaufbau geändert werden.

Wenn keine kontinuierliche Überprüfung des Brandverhaltens durch den Hersteller stattfindet, verliert dieser Klassifizierungsbericht bei jeder Änderung des Produktionsprozesses, des Produktionsumfeldes, der Ausgangsstoffe oder der Zulieferer der Komponenten seine Gültigkeit. Das Brandverhalten muss dann erneut nachgewiesen werden.

*This classification remains valid no later than until the date stated on page 1. It can be renewed after re-evaluation of the reaction to fire. This classification also loses its validity as soon as the classification criteria according to DIN EN 13501-1 are altered or amended, or as soon as the product formulation or its composition are altered.*

*If the fire behaviour of the product is not continuously monitored by the manufacturer, each change in either of production process, production environment, raw materials, or chain of suppliers causes this classification to become invalid. In this case, the fire behaviour has to be reassessed.*

### 5.2. Hinweise / Remarks

In Verbindung mit anderen Baustoffen, mit anderen Abständen, Befestigungen, Fugenausbildungen/Verbindungen, Dicken- oder Rohdichtenbereichen, Beschichtungen als in den Abschnitten 2 und 4.2 angegeben, kann das Brandverhalten negativ beeinflusst werden, so dass die Klassifizierung in Abschnitt 4.1 nicht mehr gilt. Das Brandverhalten von anderen als den oben angegebenen Parametern ist gesondert nachzuweisen.

*Used in combination with other materials, esp. other substrates/backings, air gaps/voids, types of fixation joints, thickness or density ranges, coatings than those given in sections 2 and 4.2, the fire performance is likely to be influenced negatively, so that the classification assigned in section 4.1 will no longer be valid. The fire performance with parameters other than those given above has to be tested and classified separately.*

Dieser Klassifizierungsbericht ersetzt nicht einen gegebenenfalls notwendigen baurechtlichen / bauaufsichtlichen Nachweis nach Landesbauordnung

*This classification report is in no case a substitute for any required certification according to German building regulations.*



# Fire Test Certificate - Specimen

Fabric: Acoustic Molton

Type: EN13501-1

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Der Klassifizierungsbericht darf ohne vorherige Zustimmung des Prüfinstitut Hoch nur innerhalb des Geltungszeitraumes (siehe Abschnitt 5.1) und nur vollständig und nach Form und Inhalt unverändert veröffentlicht oder vervielfältigt werden.  
*Without written consent of the test laboratory, this test report may only be published or reproduced during its denoted period of validity (cf. section 5.1), providing that no changes to appearance or content are made and the report is complete.*

**Dieses Dokument stellt keine Typzulassung oder Zertifizierung des Produktes dar.**  
*This document does not represent type approval or certification of the product.*

Fladungen, 09.12.2024

Sachbearbeiterin  
Clerk in charge

(B. Eng. Susanne Hart)





Leiter der Prüfstelle  
Head of test laboratory

(Dipl.-Ing.(FH) Andreas Hoch)


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# Acoustic Test Report - Absorption

**Absorption Class: C**

Calculated to EN ISO 11654-1997

**Fabric:** Acoustic Molton  
**Fullness:** Flat

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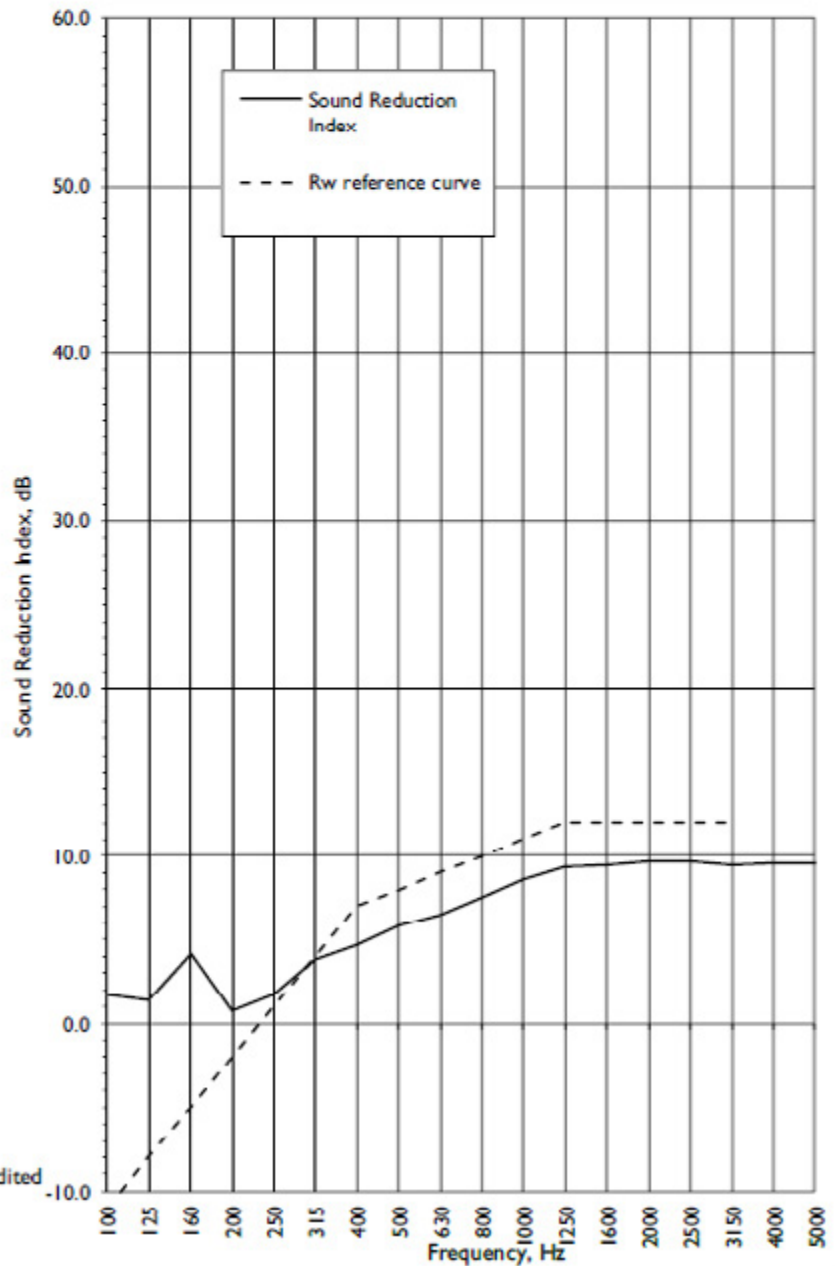
## Data Sheet 9

Laboratory Measurement of Sound Reduction Index to BS EN ISO 10140-2:2021

<b>Test Number:</b>	9	<b>Test Room:</b>	<b>Source</b>	<b>Receiving</b>
<b>Client:</b>	J&C Joel Ltd	<b>Air Temperature:</b>	11.3 °C	15.6 °C
<b>Test Date:</b>	28/02/2023	<b>Air Humidity:</b>	53 %	46 %
<b>Sample Height:</b>	2.20 m	<b>Volume:</b>	115 m <sup>3</sup>	300.1 m <sup>3</sup>
<b>Sample Width:</b>	2.00 m	<b>Air Pressure:</b>	1022 mbar	
<b>Sample Weight:</b>	0.5 kg/m <sup>2</sup>			

**Product Identification:** Acoustic Molton 500g/m<sup>2</sup> at 0% Fullness


Frequency Hz	Sound Reduction Index, dB	
	½ Oct	Octave
50+	2.8	1.8
63+	1.1	
80+	1.7	
100	1.7	2.3
125	1.4	
160	4.2	
200	0.8	1.9
250	1.7	
315	3.8	
400	4.7	5.6
500	5.9	
630	6.5	
800	7.6	8.4
1000	8.6	
1250	9.3	
1600	9.5	9.6
2000	9.7	
2500	9.7	
3150	9.5	9.6
4000	9.6	
5000	9.6	
6300+	9.7	9.6
8000+	9.8	
10000+	9.4	
Average 100-3150	5.9	SRL Version 1.1






\* shows measurement corrected for background  
> shows measurement limited by background  
+ shows Frequency beyond standard and not UKAS accredited

Rating according to BS EN ISO 717-1:2020

**R<sub>w</sub>(C;C<sub>tr</sub>)= 8 (0;-1) dB**

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# Acoustic Test Report - Absorption

**Absorption Class: A**

Calculated to EN ISO 11654-1997

**Fabric:** Acoustic Molton  
**Fullness:** 50%  
**Cavity from Wall:** 350mm

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## Data Sheet 8

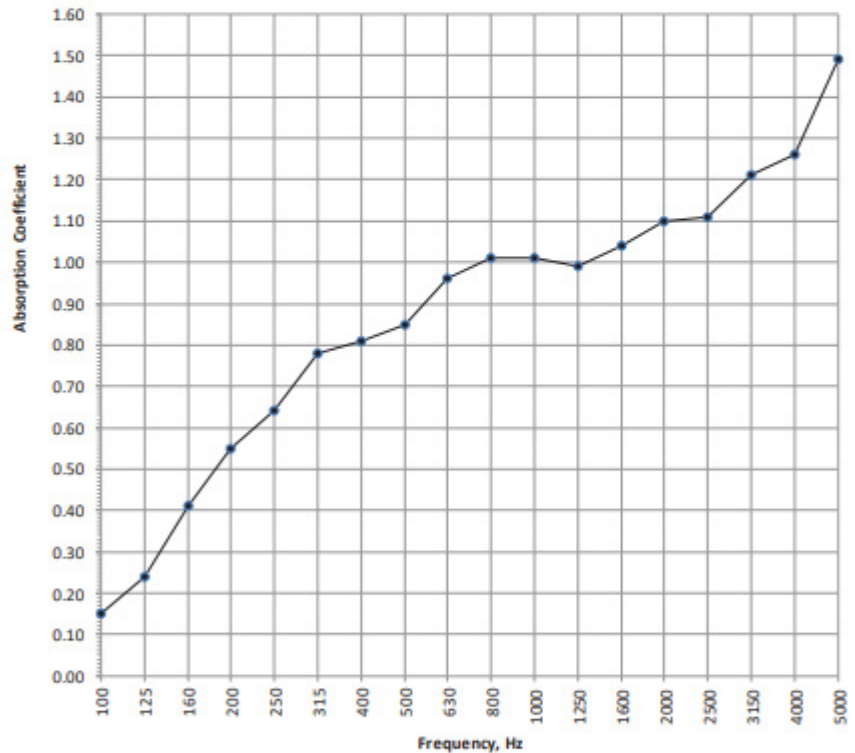
The Laboratory Measurement of Random Incidence Sound Absorption generally to BS EN ISO 354:2003

**Client:** J & C Joel Ltd  
**Test Date:** 19/01/2019  
**Empty Room:** Temperature: 17.0 °C Humidity: 46 %RH Pressure: 1002 mbar  
**Room with Sample:** Temperature: 15.4 °C Humidity: 43 %RH Pressure: 1001 mbar  
**Sample Description:** Acoustic Molton - Single Layer - 50% fullness (Approx. weight 500g/m<sup>2</sup>) 350mm cavity from wall  
**Mounting Method:** G - 350  
**Sample Area:** 9 m<sup>2</sup>  
**Chamber Volume:** 300 m<sup>3</sup>

### Test 9

Freq Hz	T1 sec	T2 sec	Absorp Coeff α <sub>s</sub>	Practical Absorp Coeff #
50*	4.96	4.75	0.05	
63*	5.39	4.91	0.10	n/a
80*	7.08	6.53	0.07	
100	9.00	7.17	0.15	
125	7.30	5.54	0.24	0.25
160	6.60	4.40	0.41	
200	6.86	4.05	0.55	
250	7.22	3.91	0.64	0.65
315	6.99	3.50	0.78	
400	6.36	3.28	0.81	
500	5.64	3.01	0.85	0.85
630	5.09	2.69	0.96	
800	5.10	2.62	1.01	
1000	5.74	2.77	1.01	1.00
1250	5.63	2.77	0.99	
1600	5.18	2.58	1.04	
2000	4.76	2.38	1.10	1.00
2500	4.22	2.21	1.11	
3150	3.35	1.85	1.21	
4000	2.59	1.54	1.26	1.00
5000	2.04	1.23	1.49	
6300*	1.39	0.91	1.68	
8000*	1.14	0.77	1.77	n/a
10000*	0.80	0.59	1.77	

### Sound Absorption Coefficient



$\alpha_w$  0.90

**Class A**

Calculated to EN ISO 11654:1997

**NRC 0.90**

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

v5

# Acoustic Test Report - Absorption

**Absorption Class: A**

Calculated to EN ISO 11654-1997

**Fabric:** Acoustic Molton  
**Fullness:** 100%  
**Cavity from Wall:** 100mm

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## Data Sheet 19

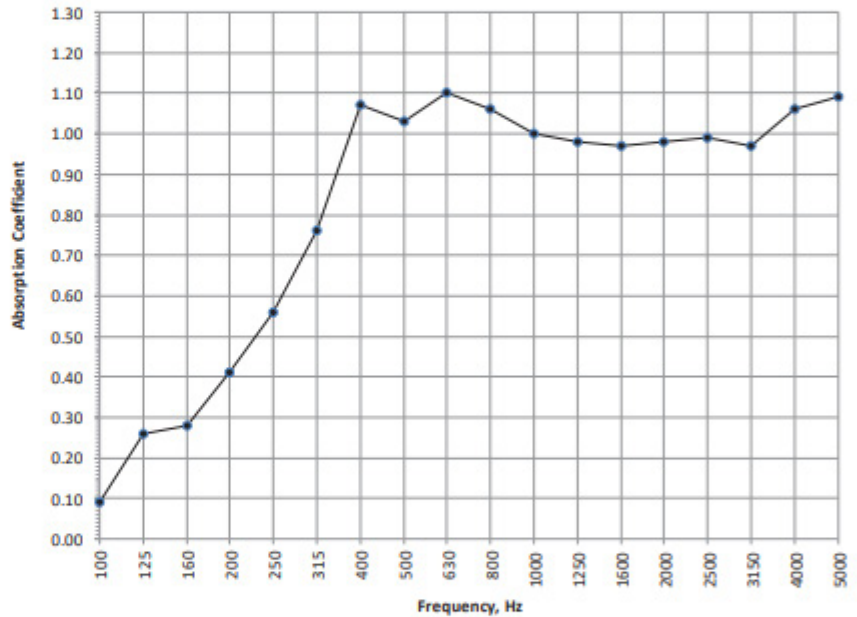
The Laboratory Measurement of Random Incidence Sound Absorption generally to BS EN ISO 354:2003

**Client:** J & C Joel Ltd  
**Test Date:** 30/11/2020  
**Empty Room:** **Temperature:** 16.4 °C **Humidity:** 57 %RH **Pressure:** 1016 mbar  
**Room with Sample:** **Temperature:** 15.7 °C **Humidity:** 55 %RH **Pressure:** 1009 mbar  
**Sample Description:** Acoustic Molton - Single Layer - 100% Fullness (Approx. Weight 500g/m<sup>2</sup>) - 100mm Cavity From Wall

**Mounting Method:** G - 100  
**Sample Area:** 9 m<sup>2</sup>  
**Chamber Volume:** 300 m<sup>3</sup>

Test 19				
Freq Hz	T1 sec	T2 sec	Absorp Coeff %	Practical Absorp Coeff #
50*	5.15	5.18	0.00	
63*	4.83	5.19	-0.08	n/a
80*	7.33	7.40	-0.01	
100	7.42	6.58	0.09	
125	7.17	5.33	0.26	0.20
160	6.75	4.99	0.28	
200	6.77	4.49	0.41	
250	6.80	3.99	0.56	0.60
315	6.65	3.45	0.76	
400	6.46	2.84	1.07	
500	5.63	2.72	1.03	1.00
630	5.00	2.49	1.10	
800	5.22	2.59	1.06	
1000	5.79	2.80	1.00	1.00
1250	5.75	2.82	0.98	
1600	5.33	2.73	0.97	
2000	4.93	2.60	0.98	1.00
2500	4.35	2.40	0.99	
3150	3.55	2.14	0.97	
4000	2.92	1.82	1.06	1.00
5000	2.34	1.55	1.09	
6300*	1.60	1.18	1.06	
8000*	1.30	1.00	1.04	n/a
10000*	0.93	0.76	1.01	

Sound Absorption Coefficient



$\alpha_w$  0.90

**Class A**

Calculated to EN ISO 11654-1997

**NRC 0.90**

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

v5

# Acoustic Test Report - Absorption

**Absorption Class: A**

Calculated to EN ISO 11654-1997

**Fabric:** Acoustic Molton  
**Fullness:** 100%  
**Cavity from Wall:** 350mm

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## Data Sheet 7

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

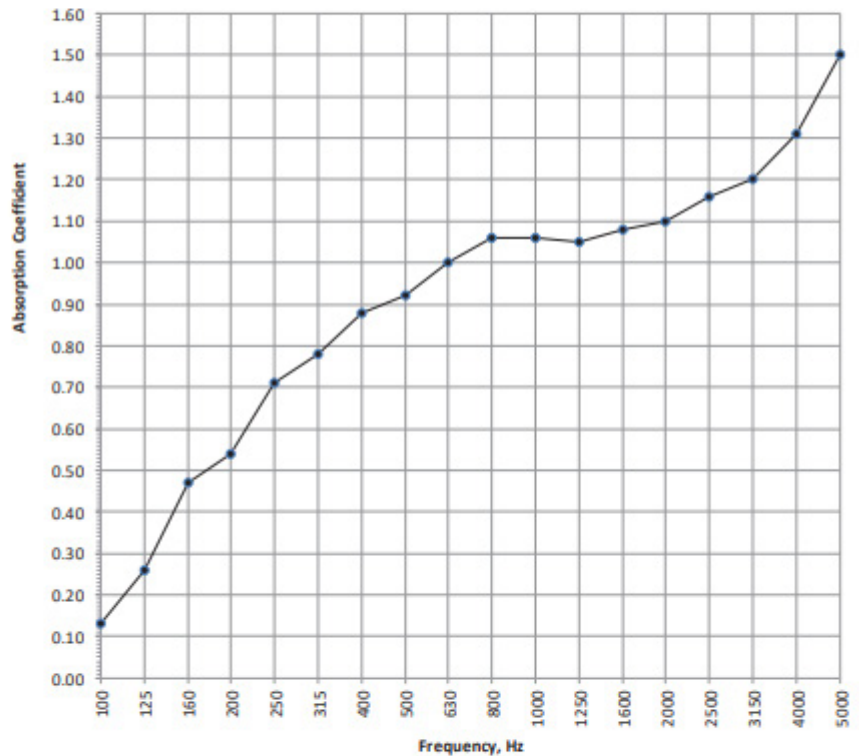
**Client:** J & C Joel Ltd  
**Test Date:** 19/01/2019  
**Empty Room:** Temperature: 17.0 °C Humidity: 46 %RH Pressure: 1002 mbar  
**Room with Sample:** Temperature: 15.4 °C Humidity: 44 %RH Pressure: 1001 mbar  
**Sample Description:** Acoustic Molton - Single Layer - 100% fullness (Approx. weight 500 g/m<sup>2</sup>) 350mm cavity from wall

**Mounting Method:** G - 350  
**Sample Area:** 9 m<sup>2</sup>  
**Chamber Volume:** 300 m<sup>3</sup>

### Test 8

Freq Hz	T1 sec	T2 sec	Absorp Coeff α <sub>i</sub>	Practical Absorp Coeff #
50*	4.96	4.66	0.07	
63*	5.39	4.95	0.09	n/a
80*	7.08	6.47	0.07	
100	9.00	7.41	0.13	
125	7.30	5.44	0.26	0.30
160	6.60	4.19	0.47	
200	6.86	4.09	0.54	
250	7.22	3.73	0.71	0.70
315	6.99	3.49	0.78	
400	6.36	3.14	0.88	
500	5.64	2.90	0.92	0.95
630	5.09	2.64	1.00	
800	5.10	2.56	1.06	
1000	5.74	2.71	1.06	1.00
1250	5.63	2.69	1.05	
1600	5.18	2.53	1.08	
2000	4.76	2.39	1.10	1.00
2500	4.22	2.17	1.16	
3150	3.35	1.87	1.20	
4000	2.59	1.53	1.31	1.00
5000	2.04	1.24	1.50	
6300*	1.39	0.91	1.75	
8000*	1.14	0.78	1.77	n/a
10000*	0.80	0.58	2.04	

### Sound Absorption Coefficient



$\alpha_w$  0.95

**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

v5



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