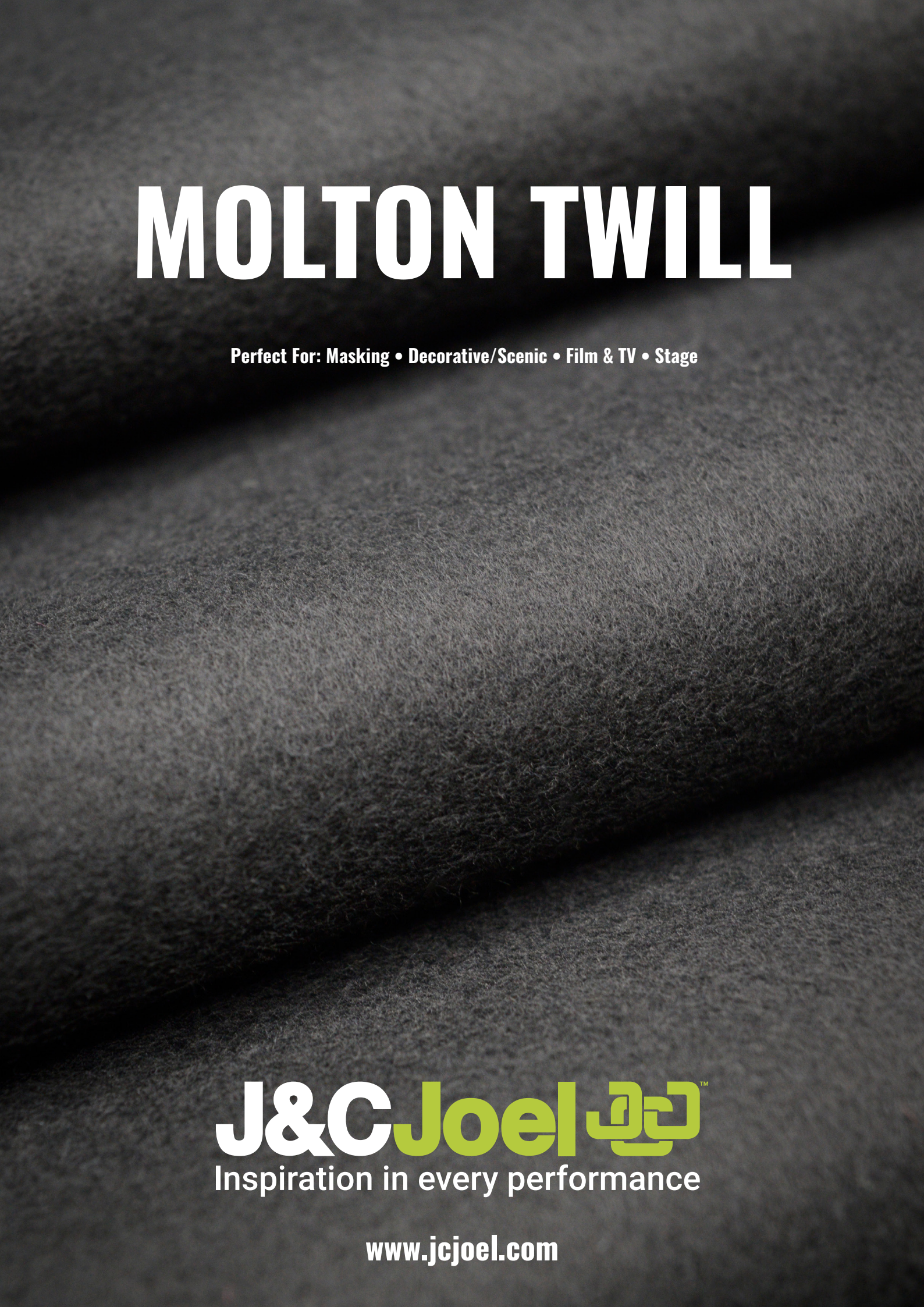

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Contents

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Composition and Care

300 cm 3

Fire Certificates

BS5867 Part 2 Type B 4
M1 8
B1 22
EN13501-1 44

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^2)

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

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Datasheet - Fabrics and Flooring

Molton Twill

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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, B1, EN13501-1, M1
	Brand Name (and Manufacturer)	J&C Joel Ltd.
	Material (Blending Ratio)	100% Cotton
	Construction of Fabric	Twill Weave
Chemicals	**Surface Treatments**	Dyed, Brushed & Flameproofed
	Brand Name of Flame Retardant Chemicals	Organo Phosphate Compound
	Chemical name of Flame Retardant Chemicals	N/A
	Process of Flame Retardant Chemicals	N/A
Care	**Information**	Non-Durably Flame Retardant. This means that the fabric is chemically treated and if wet (in any way) should be retreated 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-flameproofed whenever wet. The cloth can be professionally dry cleaned using the correct chemical processes. 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. Commercial flame retardants may alter the aesthetics, appearance, colour or performance of the textile material. 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		

All details are accurate at the time of print but are subject to change.

Fire Rating:	Approx Bale Length:	Width:	Weight:	Fire Certification:	Colour Available
NDFR	60m / 197ft	300cm / 118”	320 g/m^2	BS5867, B1, EN13501-1, M1	1

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Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: BS5867 Part 2 Type B

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Telephone: +44 (0) 113 259 1999
Email: info@bttg.co.uk
: www.bttg.co.uk

Date: 21 December 2021

Our Ref: 23/59183C/12/21
Your Ref: ---

Client: **J & C Joel Ltd**

Corporation Mill
Corporation Street
Sowerby Bridge
Halifax
HX6 2QQ

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: 65619

Date of Receipt: 9 December 2021

Date Test Started: 17 December 2021

Description of Sample: One sample of fabric, which was referenced by the client as;

Stage Molton, stated to be: NDFR 100% Cotton

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

BS 5867: Part 2:Type B:2008 (2015)

SPECIMEN

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

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

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Date: 21 December 2021

Our Ref: 23/59183C/12/21
Your Ref: ---

Client: **J & C Joel Ltd**

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

Pre-treatment

The sample was not subjected to any water soaking procedure.

Conditioning

The test specimens were conditioned for at least 24 hours in the standard atmosphere of 65 ± 5 % relative humidity (R.H.) and 20 ± 2 °C.

SPECIMEN

Testing

Three specimens from both length and width were tested in accordance with BS EN ISO 15025: Procedure A (surface ignition):2002.

Each specimen was subjected to an applied flame using butane 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:Type B:2008 (2015).

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Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: BS5867 Part 2 Type B

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Date: 21 December 2021

Our Ref: 23/59183C/12/21
Your Ref: ---

Client: **J & C Joel Ltd**

Results - Testing as received.

	Length			Width		
Specimen No.	**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
Afterflame (s)	0	0	0	0	0	0
Afterglow (s)	0	0	0	0	0	0

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

Result: Pass

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Comment

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.

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

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

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Date: 21 December 2021

Our Ref: 23/59183C/12/21
Your Ref: ---

Client: **J & C Joel Ltd**

Uncertainty Budget

Measurements are not taken and pass/fail is related to flame extremities and flaming debris, as such any risk of false acceptance/false rejection is inherent with this standard and would be outside of 95% probability in any case. As such UoM is Zero providing all input parameters are correct.

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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Reported by:..... B Bland, Technical Customer Services Officer

Countersigned by:..... P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.

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Direction Sécurité, Structures et Feu
Division Etudes et Essais Feu

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Rapport d'essais n° DSSF-21-05762

Concernant la Réaction au Feu d'un matériau

Valable 5 ans à compter du 26 janvier 2022

L'accréditation de la section Laboratoires du COFRAC atteste de la compétence des laboratoires pour les seuls essais couverts par l'accréditation. Ce rapport d'essais atteste uniquement des caractéristiques de l'objet soumis aux essais et ne préjuge pas des caractéristiques de produits similaires. Il ne constitue 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. La reproduction de ce rapport électronique n'est autorisée que sous sa forme intégrale. Il comporte 14 pages.

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ESSAIS

Rapport d'essais n° DSSF-21-05762

OBJET

Ce rapport présente les essais de Réaction au Feu selon les référentiels cités dans le paragraphe suivant.

TEXTE(S) DE RÉFÉRENCE

Référence (N°)	Date	Intitulé
Arrêté du 21/11/2002 modifié	2013	Arrêté relatif à la réaction au feu des produits de construction et d'aménagement
NF P 92-503	1995	Essai au brûleur électrique applicable aux matériaux souples
NF P 92-512	1986	Détermination de la durabilité des classements en réaction au feu des matériaux - Essais (prestation hors cadre de l'accréditation COFRAC)

LIEU D'EXECUTION DES ESSAIS

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Téléphone :	+33 (0)1 64 68 83 06
Courriel du laboratoire :	reaction@cstb.fr
Site internet laboratoire :	http://www.cstb.fr/fr/plateformes-essais/essais-au-feu

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Fait à Champs Sur Marne

Fonction : La Responsable du Pôle Commercial Communication et Développement Feu

Signature : Signature numérique de Clemence VOISIN
Date : 2022.03.30 18:24:38 +02'00'

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Rapport d'essais n° DSSF-21-05762

OBJET SOUMIS À L'ESSAI

Identification des échantillons testés

Sauf mention contraire *(*L)* et conformément aux Conditions Générales de Prestations, les informations relatives à la description des produits et des données associées sont fournies par le demandeur et sous son entière responsabilité.
*(*L) : donnée mesurée par le laboratoire.*

Numéro de dossier	Désignation	Références commerciales	Date(s) de réception	Essai(s) réalisé(s)
21-05762	Produits objets du rapport	13/07 MOLLETON 11/06 15/06 SATIN MOLLETON	06/09/2021	NF P 92-503

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Les produits soumis à essais sont considérés par le demandeur comme représentatifs des produits de la gamme et sont réalisés conformément à ses prescriptions de fabrication.

Les échantillons ont été testés tels qu'ils ont été reçus.

Les résultats d'essai ne concernent que le comportement des éprouvettes d'un produit dans les conditions particulières de l'essai ; ils ne sont pas destinés à être le seul critère d'évaluation du danger d'incendie présenté par le produit en utilisation.

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Description des échantillons

- **DESCRIPTION**

Tissus 100 % coton ignifugés par foulardage, grattés sur une ou deux faces.

- **CARACTERISTIQUES PRINCIPALES**

Masses surfaciques nominales : 250 à 350 g/m².
Epaisseurs nominales : 0,9 à 1,1 mm.
Coloris : divers.

- **CARACTERISTIQUES COMPLEMENTAIRES**

La composition détaillée ainsi que les informations concernant l'ignifugation figurent au dossier.

Caractéristiques mesurées *(*L)* :

Référence	Masse surfacique (g/m²)	Epaisseur (mm)	Armure	Finition	Coloris testés	Ignifugeant (*)
13/07 MOLLETON	268	0,62	Sergé	Gratté deux faces	Noir	1
					Blanc	1
	330	0,67			Gris	2
					Rouge	2
11/06	343	0,84	Sergé	Gratté deux faces	Noir	1
15/06	330	0,73	Sergé	Gratté deux faces	Noir	1
SATIN MOLLETON	294	0,56	Satin	Gratté une face	Noir	3
					Blanc	3

(*) Les tissus sont traités avec 3 ignifugeants différents dépendant des coloris et de l'armure des tissus. Les données concernant ces ignifugeants sont confidentielles mais disponibles au dossier.

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Conditionnement

Les échantillons ont été conditionnés pendant 7 jours à une température de 23 ± 2°C et une humidité relative de 50 ± 5 % conformément à la norme d'essai.

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RÉSULTATS D'ESSAIS

Description méthode : essai au brûleur électrique (NF P 92-503)

L'éprouvette (18 x 60 cm) tendue sur une grille est disposée sur un support à 30° sur l'horizontale. Un cache incombustible est rabattu au dos, au départ de l'essai. Le matériau est soumis au rayonnement calorifique et à un courant de gaz chauds provoqués par un brûleur électrique disposé, suivant son axe vertical, à 3 cm sous l'éprouvette.
Après 20 secondes, une flamme pilote est amenée au contact de l'éprouvette pendant 5 secondes. L'opération est répétée ensuite toutes les 30 secondes pendant 5 minutes.
Les éléments déterminants sont : durée d'inflammation, distances détruites depuis le bord inférieur des éprouvettes et présence ou non de chutes de gouttes.

Description méthode : durabilité des classements (NF P 92-512)

Cette méthode de préparation d'éprouvette n'est pas un essai et n'est pas couverte par la portée d'accréditation COFRAC.

Pour les échantillons testés selon les méthodes décrites ci-dessus : une partie des échantillons est testée en l'état à réception, puis une autre partie a subi un vieillissement accéléré en chambre climatique (4 cycles, avec alternance de 15 à 90% d'humidité et 23°C). Ce vieillissement des éprouvettes a été réalisé au CREPIM du 03/12/2021 au 28/01/2022.
Un brossage manuel de 10 passages est réalisé par l'opérateur sur les échantillons vieillis avant l'essai.

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Résultats : essai au brûleur électrique (NF P 92-503)

Synthèse des essais (avant vieillissement en chambre climatique)

20 essais réalisés sur les produits référencés 13/07 MOLLETON, 11/06, 15/06 et SATIN MOLLETON.

Les essais 1 à 4 ont été réalisés sur le produit référencé 13/07 MOLLETON, en panachant les sens, les faces et les coloris noir et blanc.
Les essais 5 à 8 ont été réalisés sur le produit référencé 13/07 MOLLETON en panachant les sens, les faces et les coloris rouge et gris.
Les essais 9 à 12 ont été réalisés sur le produit référencé 11/06 en panachant les sens et les faces sur le coloris noir.
Les essais 13 à 16 ont été réalisés sur le produit référencé 15/06 en panachant les sens et les faces sur le coloris noir.
Les essais 17 à 20 ont été réalisés sur le produit référencé SATIN MOLLETON en panachant les sens, les faces et les coloris noir et blanc.

Les dimensions de chaque éprouvette sont vérifiées avant chaque épreuve par le laboratoire.

N° essai	N° échantillon	Référence	Date essai	Opérateur	Epaisseur mesurée (mm) *(*L)*	Masse mesurée (g) *(*L)*	Coloris	Configuration
1	1	13/07 MOLLETON	08/10/2021	M.PORTAIS	0,61	28,2	Noir	Face 1 Sens 2
2	2				0,64	29,4	Blanc	Face 2 Sens 1
3	3				0,61	28,7	Noir	Face 1 Sens 1
4	4				0,62	29,5	Blanc	Face 2 Sens 2
5	5	13/07 MOLLETON			0,69	36,4	Rouge	Face 1 Sens 1
6	6				0,63	34,8	Gris	Face 2 Sens 2
7	7				0,72	36,7	Rouge	Face 1 Sens 2
8	8				0,64	34,7	Gris	Face 2 Sens 1

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Suite de la synthèse des essais (avant vieillissement en chambre climatique)

N° essai	N° échantillon	Référence	Date essai	Opérateur	Epaisseur mesurée (mm) *(*L)*	Masse mesurée (g) *(*L)*	Coloris	Configuration
9	1	11/06	08/10/2021	M.PORTAIS	0,72	38,6	Noir	Face 1 Sens 1
10	2				0,72	39,2	Noir	Face 2 Sens 1
11	3				0,73	39,3	Noir	Face 1 Sens 2
12	4				0,74	39,3	Noir	Face 2 Sens 2
13	1	15/06	08/10/2021	M.PORTAIS	0,70	38,9	Noir	Face 1 Sens 1
14	2				0,72	38,6	Noir	Face 2 Sens 2
15	3				0,77	38,7	Noir	Face 2 Sens 1
16	4				0,80	38,7	Noir	Face 1 Sens 1
17	1	SATIN MOLLETON	08/10/2021	M.PORTAIS	0,51	33,8	Noir	Face 1 Sens 1
18	2				0,49	32,1	Blanc	Face 1 Sens 2
19	3				0,52	31,7	Blanc	Face 2 Sens 1
20	4				0,51	33,3	Noir	Face 2 Sens 2

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Rapport d'essais n° DSSF-21-05762

Détail des résultats

Désignation	Inflammation (en seconde)	Extinction (en seconde)	Percement (en seconde)	Chutes de gouttes ou débris	Distances détruites (en cm)
Essai n° 1	25	30	/	Non	Longueur : 19,0 Largeur entre 45 et 60 cm : /
Essai n° 2	/	/	/	Non	Longueur : 20,0 Largeur entre 45 et 60 cm : /
Essai n° 3	/	/	/	Non	Longueur : 18,5 Largeur entre 45 et 60 cm : /
Essai n° 4	/	/	/	Non	Longueur : 19,0 Largeur entre 45 et 60 cm : /
Essai n° 5	/	/	/	Non	Longueur : 20,0 Largeur entre 45 et 60 cm : /
Essai n° 6	/	/	/	Non	Longueur : 19,5 Largeur entre 45 et 60 cm : /
Essai n° 7	/	/	/	Non	Longueur : 19,0 Largeur entre 45 et 60 cm : /
Essai n° 8	/	/	/	Non	Longueur : 20,0 Largeur entre 45 et 60 cm : /
Essai n° 9	/	/	/	Non	Longueur : 19,0 Largeur entre 45 et 60 cm : /
Essai n° 10	/	/	/	Non	Longueur : 18,0 Largeur entre 45 et 60 cm : /
Essai n° 11	/	/	/	Non	Longueur : 19,7 Largeur entre 45 et 60 cm : /
Essai n° 12	/	/	/	Non	Longueur : 20,0 Largeur entre 45 et 60 cm : /
Essai n° 13	25	27	/	Non	Longueur : 19,0 Largeur entre 45 et 60 cm : /
Essai n° 14	/	/	/	Non	Longueur : 20,0 Largeur entre 45 et 60 cm : /
Essai n° 15	/	/	/	Non	Longueur : 17,0 Largeur entre 45 et 60 cm : /
Essai n° 16	/	/	/	Non	Longueur : 17,0 Largeur entre 45 et 60 cm : /
Essai n° 17	/	/	/	Non	Longueur : 20,0 Largeur entre 45 et 60 cm : /
Essai n° 18	80	85	/	Non	Longueur : 19,5 Largeur entre 45 et 60 cm : /
Essai n° 19	80	83	/	Non	Longueur : 20,0 Largeur entre 45 et 60 cm : /
Essai n° 20	50 / 80	55 / 83	/	Non	Longueur : 19,0 Largeur entre 45 et 60 cm : /

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cofrac ACCRÉDITATION N° 1-0301 PORTÉE DISPONIBLE SUR WWW.COFRAC.FR ESSAIS

Rapport d'essais n° DSSF-21-05762

Récapitulatif des résultats

Essai n°	Inflammation effective (s)		Moyenne longueur détruite (cm)
1	5	13/07 MOLLETON Coloris noir et blanc	19,1
2	/		
3	/		
4	/		
5	/	13/07 MOLLETON Coloris rouge et gris	19,6
6	/		
7	/		
8	/		
9	/	11/06 Coloris noir	19,2
10	/		
11	/		
12	/		
13	2	15/06 Coloris noir	18,3
14	/		
15	/		
16	/		
17	/	SATIN MOLLETON Coloris noir et blanc	19,6
18	5		
19	3		
20	5		

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Observations (sur l'ensemble des épreuves)

- Percement du produit face au brûleur électrique, sans inflammation effective ☐ OUI ☒ NON
- Percement du produit face au brûleur électrique (signes de fluage) avec inflammations effectives sur la grille ☐ OUI ☒ NON
- Durée d'inflammation du produit supérieures à 5 secondes : ☐ OUI ☒ NON
- Point(s) incandescent(s) : ☒ OUI ☐ NON
- Moyenne des longueurs détruites mesurées depuis le bord inférieur des éprouvettes < 35 cm ☒ OUI ☐ NON
- Moyenne des longueurs détruites mesurées depuis le bord inférieur des éprouvettes = 60 cm ☐ OUI ☒ NON
- Moyenne des largeurs détruites mesurées depuis le bord inférieur des éprouvettes est inférieure à 9 cm sur la partie de l'éprouvette comprise entre 45 et 60 cm ☒ OUI ☐ NON
- Chute de goutte ou débris ☐ OUI, enflammés ☐ OUI, non enflammés ☒ NON
- Essais complémentaires à réaliser pour déterminer le classement : ☐ OUI ☒ NON

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Rapport d'essais n° DSSF-21-05762

Résultats : essai au brûleur électrique (NF P 92-503)

Synthèse des essais (après vieillissement en chambre climatique)

16 essais réalisés sur les produits référencés 13/07 MOLLETON, 11/06, 15/06 et SATIN MOLLETON.

Les essais 1 à 4 ont été réalisés sur le produit référencé 11/06, en panachant les sens et les faces sur le coloris noir.
Les essais 5 à 8 ont été réalisés sur les produits référencés 15/06 et 13/07 MOLLETON en panachant les sens, les faces et les coloris noir et blanc.
Les essais 9 à 12 ont été réalisés sur le produit référencé SATIN MOLLETON en panachant les sens et les faces sur les coloris noir et blanc.
Les essais 13 à 16 ont été réalisés sur le produit référencé 13/07 MOLLETON en panachant les sens, les faces et les coloris rouge et gris.

Les dimensions de chaque éprouvette sont vérifiées avant chaque épreuve par le laboratoire.

N° essai	N° échantillon	Référence	Date essai	Opérateur	Epaisseur mesurée (mm) *(*L)*	Masse mesurée (g) *(*L)*	Coloris	Configuration
1	1	11/06	22/02/2022	S.STEUNOU	0,81	35,4	Noir	Face 1 Sens 2
2	2				0,9	37,0	Noir	Face 2 Sens 2
3	3				0,83	38,0	Noir	Face 1 Sens 1
4	4				0,81	37,7	Noir	Face 2 Sens 1
5	5	15/06	22/02/2022	S.STEUNOU	0,72	33,4	Noir	Face 1 Sens 2
6	6				0,73	37,9	Noir	Face 2 Sens 1
7	7	13/07 MOLLETON			0,64	26,1	Noir	Face 1 Sens 1
8	8				0,68	28,8	Blanc	Face 2 Sens 2

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Rapport d'essais n° DSSF-21-05762

Suite de la synthèse des essais (après vieillissement en chambre climatique)

N° essai	N° échantillon	Référence	Date essai	Opérateur	Epaisseur mesurée (mm) *(*L)*	Masse mesurée (g) *(*L)*	Coloris	Configuration
9	9	SATIN MOLLETON	22/02/2022	S.STEUNOU	0,59	32,7	Blanc	Face 1 Sens 2
10	10				0,55	30,8	Blanc	Face 2 Sens 1
11	11				0,54	33,4	Noir	Face 1 Sens 1
12	12				0,55	29,9	Noir	Face 2 Sens 2
13	13	13/07 MOLLETON	22/02/2022	S.STEUNOU	0,81	36,6	Rouge	Face 1 Sens 1
14	14				0,76	36,5	Rouge	Face 2 Sens 1
15	15				0,79	34,6	Gris	Face 1 Sens 1
16	16				0,70	32,7	Gris	Face 2 Sens 2

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Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: M1

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Rapport d'essais n° DSSF-21-05762

Détail des résultats

Désignation	Inflammation (en seconde)	Extinction (en seconde)	Percement (en seconde)	Chutes de gouttes ou débris	Distances détruites (en cm)
Essai n° 1	/	/	/	Non	Longueur : 17,0 Largeur entre 45 et 60 cm : /
Essai n° 2	/	/	/	Non	Longueur : 17,0 Largeur entre 45 et 60 cm : /
Essai n° 3	/	/	/	Non	Longueur : 16,5 Largeur entre 45 et 60 cm : /
Essai n° 4	/	/	/	Non	Longueur : 15,0 Largeur entre 45 et 60 cm : /
Essai n° 5	50	52	/	Non	Longueur : 16,5 Largeur entre 45 et 60 cm : /
Essai n° 6	/	/	/	Non	Longueur : 16,5 Largeur entre 45 et 60 cm : /
Essai n° 7	/	/	/	Non	Longueur : 15,5 Largeur entre 45 et 60 cm : /
Essai n° 8	/	/	/	Non	Longueur : 17,0 Largeur entre 45 et 60 cm : /
Essai n° 9	/	/	/	Non	Longueur : 18,0 Largeur entre 45 et 60 cm : /
Essai n° 10	/	/	/	Non	Longueur : 17,0 Largeur entre 45 et 60 cm : /
Essai n° 11	50	51	/	Non	Longueur : 17,0 Largeur entre 45 et 60 cm : /
Essai n° 12	140	141	/	Non	Longueur : 17,0 Largeur entre 45 et 60 cm : /
Essai n° 13	/	/	/	Non	Longueur : 16,5 Largeur entre 45 et 60 cm : /
Essai n° 14	/	/	/	Non	Longueur : 17,0 Largeur entre 45 et 60 cm : /
Essai n° 15	/	/	/	Non	Longueur : 16,5 Largeur entre 45 et 60 cm : /
Essai n° 16	/	/	/	Non	Longueur : 17,0 Largeur entre 45 et 60 cm : /

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Fabric: Molton Twill
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Rapport d'essais n° DSSF-21-05762

Récapitulatif des résultats

Essai n°	Inflammation effective (s)		Moyenne longueur détruite (cm)
1	/	11/06 Coloris noir	16,4
2	/		
3	/		
4	/		
5	/	15/06 Coloris noir 13/07 MOLLETON Coloris noir et blanc	16,4
6	/		
7	/		
8	/		
9	/	SATIN MOLLETON Coloris noir et blanc	17,3
10	/		
11	1		
12	1		
13	/	13/07 MOLLETON Coloris rouge et gris	16,8
14	/		
15	/		
16	/		

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ESSAIS

Rapport d'essais n° DSSF-21-05762

Observations (sur l'ensemble des épreuves)

- Percement du produit face au brûleur électrique, sans inflammation effective ☐ OUI ☒ NON
- Percement du produit face au brûleur électrique (signes de fluage) avec inflammations effectives sur la grille ☐ OUI ☒ NON
- Durée d'inflammation du produit supérieures à 5 secondes : ☐ OUI ☒ NON
- Point(s) incandescent(s) : ☒ OUI ☐ NON
- Moyenne des longueurs détruites mesurées depuis le bord inférieur des éprouvettes < 35 cm ☒ OUI ☐ NON
- Moyenne des longueurs détruites mesurées depuis le bord inférieur des éprouvettes = 60 cm ☐ OUI ☒ NON
- Moyenne des largeurs détruites mesurées depuis le bord inférieur des éprouvettes est inférieure à 9 cm sur la partie de l'éprouvette comprise entre 45 et 60 cm ☒ OUI ☐ NON
- Chute de goutte ou débris ☐ OUI, enflammés ☐ OUI, non enflammés ☒ NON

- Essais complémentaires à réaliser pour déterminer le classement : ☐ OUI ☒ NON

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Fin de rapport

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Hoch
Fladungen

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

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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.

P06-04-FB05 eng Rev04
member of egolf
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.

DAkkS Deutsche Akkreditierungsstelle D-PL-11005-01-00

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/m² 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/m² 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/m² 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/m² 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/m² 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/m² 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/m² 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/m² thickness: about 1,35 mm

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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/m² 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/m² 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/m² 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/m² 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/m² 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.

SPECIMEN

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.
	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 [1]	0:17	0:12	0:44	0:40	0:35	0:40	---
4	Burn-through / melting Time [1]	0:45	0:45	0:55	0:13	0:44	0:14	---
	Observations on the back side of specimen							
	Flames / Glowing	X	X	X	X	X	X	---
5	Time [1]	1:40	2:05	2:15	2:05	3:00	1:50	./.
	Change of colour	---	---	---	---	---	---	---
6	Time [1]	./.	./.	./.	./.	./.	./.	./.
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
10	Falling of burning parts Start [1]	./.	./.	./.	./.	./.	./.	min:s
	Extent							
11	sporadic falling of burning parts [2]	-	-	-	-	-	-	
12	continuous falling of burning parts [2]	-	-	-	-	-	-	

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Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: B1

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line no.	Measurement	Result with the tested specimen						Dim.
	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**			
13	Burning duration at sieve plate (max.)	./.	./.	./.	./.	./.	./.	min:s
14	Impairment of burner by dropping or falling material: Time [1]	./.	./.	./.	./.	./.	./.	min:s
15	Premature end of test Final occurrence of burning at the specimen [1]	1:15	1:10	1:20	1:20	2:00	1:50	min:s
16	Time of eventually end of test [1]	./.	./.	./.	./.	./.	./.	min:s
	Afterburning after end of test							
17	Time [1]	./.	./.	./.	./.	./.	./.	min:s
18	Number of specimen	-	-	-	-	-	-	
19	Front side of specimen [2]	-	-	-	-	-	-	
20	Rear side of specimen [2]	-	-	-	-	-	-	
21	flame length	-	-	-	-	-	-	cm
	Afterglow after end of test	-	-	-	-	-	-	
22	Time [1]	./.	./.	./.	./.	./.	./.	min:s
23	Number of specimen							
	Place of appearance							
24	Lower half of the specimen [2]	-	-	-	-	-	-	
25	Upper half of the specimen [2]	-	-	-	-	-	-	
26	Front side of specimen [2]	-	-	-	-	-	-	
27	Rear side of specimen [2]	-	-	-	-	-	-	
	Density of smoke							
28	≤ 400 % * min	13	13	18	16	19	16	% * min
29	> 400 % * min [4]	-	-	-	-	-	-	% * min
30	Diagram in enclosure no.	1	1	1	2	2	2	
31	Residual lengths: individual values [3] 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 [3]	**34**	**36**	**33**	**29**	**32**	**26**	
33	Photo of specimen in enclosure no.	1	1	1	2	2	2	
34	Flue gas temperature Maximum of average values	119	116	119	119	120	122	°C
35	Time [1]	01:47	09:45	02:48	02:45	02:33	02:39	min:s
36	Diagram in enclosure no.	1	1	1	2	2	2	
37	Remarks: - none -							

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

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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.
	Test number	#7819	#7818	#7817	#7816	#7815	#7814	
	flaming direction	weft	warp	warp	weft	warp	weft	
	side	B	A	A	B	A	B	
	sample-no	39078	39077	39076	39075	39074	39073	
	fabric	Satin		Bühnen	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 [1]	0:15	0:20	0:21	0:10	0:11	0:11	---
4	Burn-through / melting Time [1]	0:23	0:22	0:28	0:30	0:13	0:15	---
5	Observations on the back side of specimen Flames / Glowing	./.	./.	./.	./.	./.	./.	---
	Time [1]	./.	./.	./.	./.	./.	./.	./.
	Change of colour	---	---	---	---	---	---	---
6	Time [1]	./.	./.	./.	./.	./.	./.	./.
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
10	Falling of burning parts Start [1]	./.	./.	./.	./.	./.	./.	min:s
	Extent							
11	sporadic falling of burning parts [2]	-	-	-	-	-	-	
12	continuous falling of burning parts [2]	-	-	-	-	-	-	
13	Burning duration at sieve plate (max.)	./.	./.	./.	./.	./.	./.	min:s
14	Impairment of burner by dropping or falling material: Time [1]	./.	./.	./.	./.	./.	./.	min:s
15	Premature end of test Final occurrence of burning at the specimen [1]	0:30	0:30	1:00	1:00	0:25	0:35	min:s
16	Time of eventually end of test [1]	./.	./.	./.	./.	./.	./.	min:s
17	Afterburning after end of test Time [1]	./.	./.	./.	./.	./.	./.	min:s
18	Number of specimen	-	-	-	-	-	-	
19	Front side of specimen [2]	-	-	-	-	-	-	
20	Rear side of specimen [2]	-	-	-	-	-	-	
21	flame length	-	-	-	-	-	-	cm

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Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: B1

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

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

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Lerchenweg 1
D-97650 Fladungen

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.
	Test number	#7813	#7799	#7798	#7797	
	flaming direction	warp	weft	warp	weft	
	side	A	B	A	B	
	sample-no	39072	39071	39070	39069	
	fabric	Deko	BW-Cretonne	Schleiernessel		
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 [1]	0:09	0:11	0:08	0:08	---
4	Burn-through / melting Time [1]	0:16	0:14	0:08	0:10	---
5	Observations on the back side of specimen Flames / Glowing	---	---	---	---	---
	Time [1]	./.	./.	./.	./.	./.
6	Change of colour Time [1]	--- ./.	--- ./.	--- ./.	--- ./.	--- ./.
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
10	Falling of burning parts Start [1]	./.	./.	./.	./.	min:s
	Extent					
11	sporadic falling of burning parts [2]	-	-	-	-	
12	continuous falling of burning parts [2]	-	-	-	-	
13	Burning duration at sieve plate (max.)	./.	./.	./.	./.	min:s
14	Impairment of burner by dropping or falling material: Time [1]	./.	./.	./.	./.	min:s
15	Premature end of test Final occurrence of burning at the specimen [1]	0:30	1:05	0:19	0:55	min:s
16	Time of eventually end of test [1]	./.	./.	./.	./.	min:s
17	Afterburning after end of test Time [1]	./.	./.	./.	./.	min:s
18	Number of specimen	-	-	-	-	
19	Front side of specimen [2]	-	-	-	-	
20	Rear side of specimen [2]	-	-	-	-	
21	flame length	-	-	-	-	cm

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Lerchenweg 1
D-97650 Fladungen

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	
	sample-no	39072	39071	39070	39069	
	fabric	Deko	BW-Cretonne	Schleiernessel		
	Afterglow after end of test	-	-	-	-	
22	Time [1]	./.	./.	./.	./.	min:s
23	Number of specimen					
	Place of appearance					
24	Lower half of the specimen [2]	-	-	-	-	
25	Upper half of the specimen [2]	-	-	-	-	
26	Front side of specimen [2]	-	-	-	-	
27	Rear side of specimen [2]	-	-	-	-	
	Density of smoke					
28	≤ 400 % * min	4	4	2	1	% * min
29	> 400 % * min [4]	-	-	-	-	% * min
30	Diagram in enclosure no.	5	5	5	6	
	Residual lengths: individual values [3]					
31	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	Average residual length [3]	**41**	**50**	**46**	**76**	
33	Photo of specimen in enclosure no.	5	5	5	6	
34	Flue gas temperature					
35	Maximum of average values	112	116	113	118	°C
	Time [1]	09:39	10:00	07:39	07:37	min:s
36	Diagram in enclosure no.	5	5	5	6	
37	Remarks: - none -					

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

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6. **Explanations concerning the testing procedure** -none-

7. **Summary of results and additional establishments to Fire Behaviour**

lineno.	Measurement / test-no.	Result with the tested specimen						dimension
		#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	
	sample-no	39081		39080	39079			
	fabric	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 / test-no.	Result with the tested specimen						dimension
		#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	
	sample-no	39078	39077	39076	39075	39074	39073	
	fabric	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 / test-no.	Result with the tested specimen				dimension
		#7813 warp dir. side A	#7799 weft dir. side B	#7798 warp dir. side A	#7797 weft dir. side B	
	sample-no	39072	39071	39070	39069	
	fabric	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).

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D-97650 Fladungen

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.

SPECIMEN

Fladungen, 10.06.2024

Clerk in charge:

(Dipl.-Ing. (FH) Jürgen Hammer)

ANERKANNTE PRÜF-, ÜBERWACHUNGS- UND ZERTIFIZIERUNGSSTELLE Hoch Fladungen

Head of test laboratory:

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

Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: B1

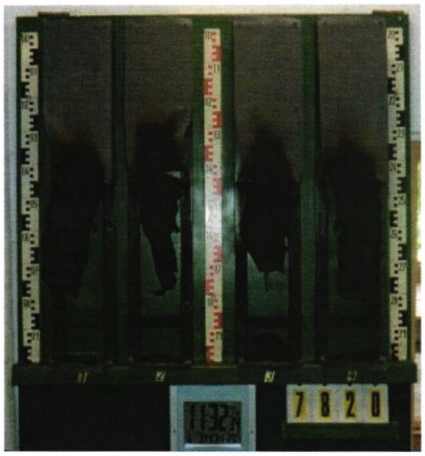
J&C Joel
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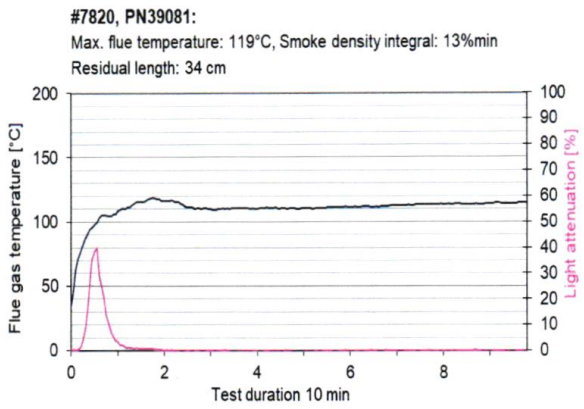
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D-97650 Fladungen

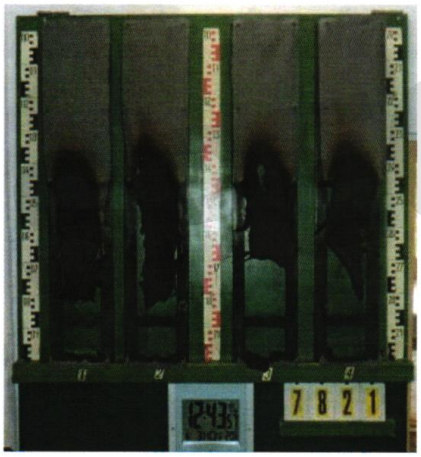
enclosure 1 test report
PZ-Hoch-240738

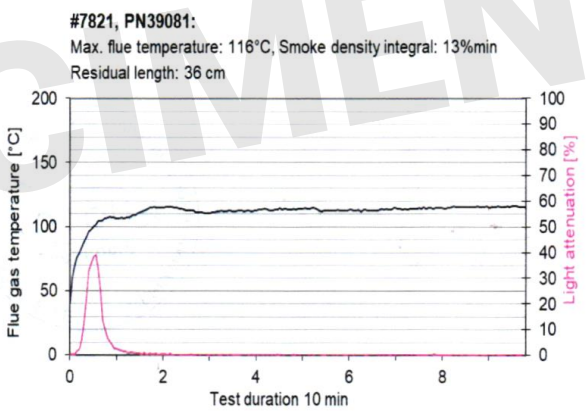
Fire shaft test #7820





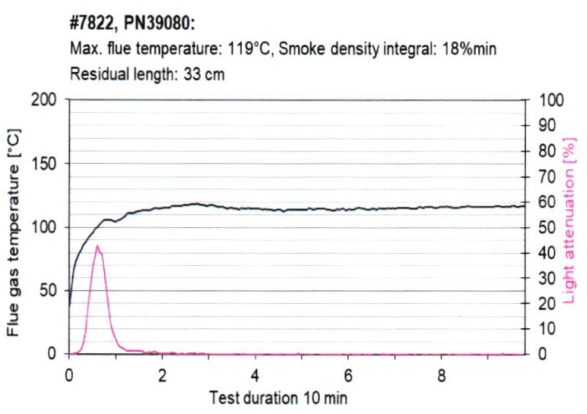
Fire shaft test #7821





Fire shaft test #7822





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Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: B1

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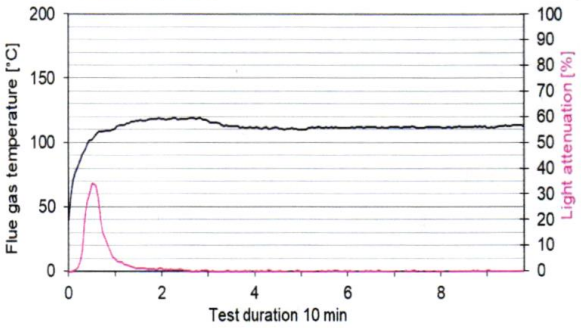
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D-97650 Fladungen

enclosure 2 test report
PZ-Hoch-240738

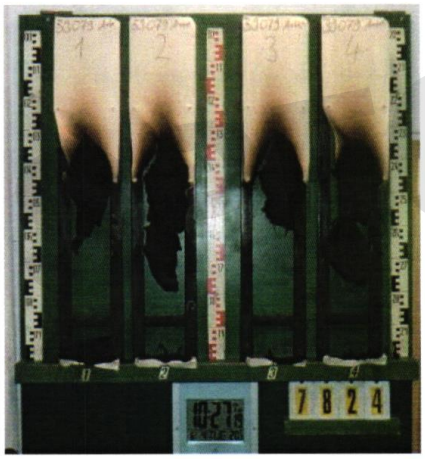
Fire shaft test #7825



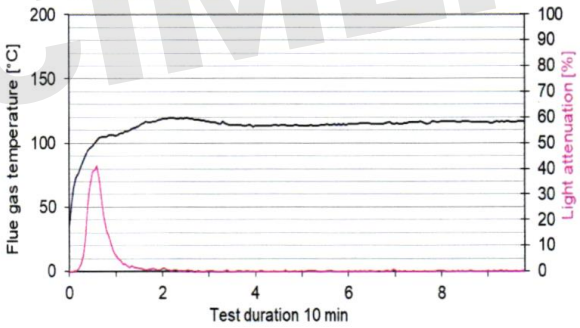
#7825, PN39079:
Max. flue temperature: 119°C, Smoke density integral: 16%min
Residual length: 29 cm



Fire shaft test #7824



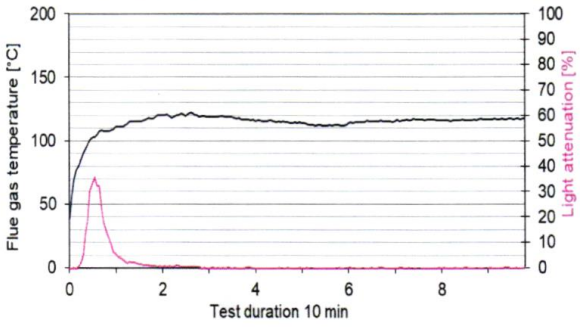
#7824, PN39079:
Max. flue temperature: 120°C, Smoke density integral: 19%min
Residual length: 32 cm



Fire shaft test #7823



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



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Fire Test Certificate - Specimen

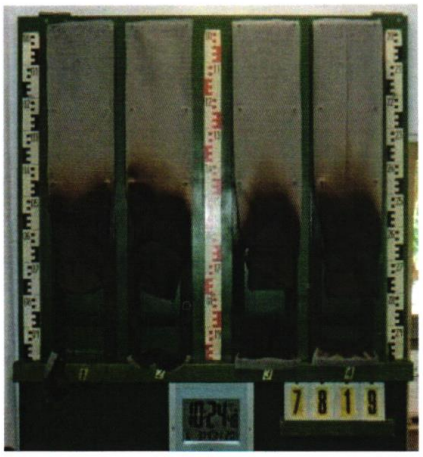
Fabric: Molton Twill
Type: B1

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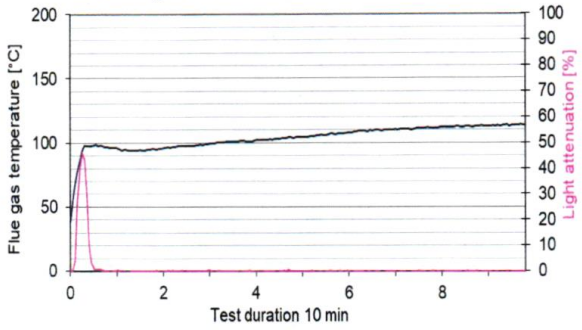
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Lerchenweg 1
D-97650 Fladungen

enclosure 3 test report
PZ-Hoch-240738

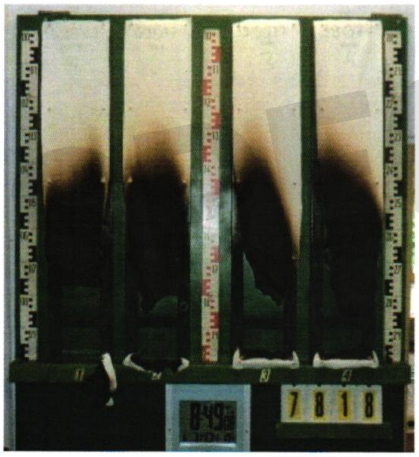
Fire shaft test #7819



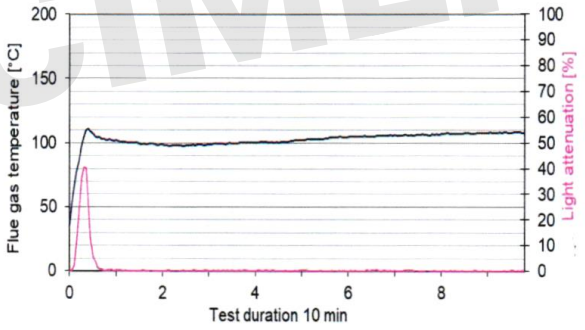
#7819, PN39078:
Max. flue temperature: 114°C, Smoke density integral: 9%min
Residual length: 46 cm



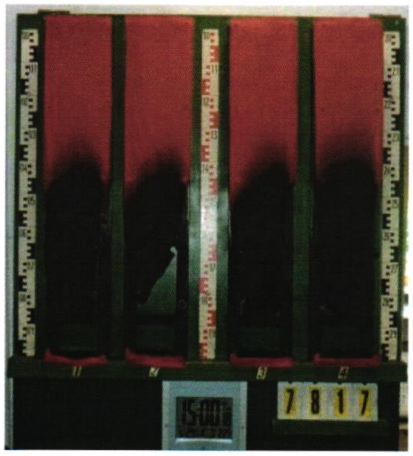
Fire shaft test #7818



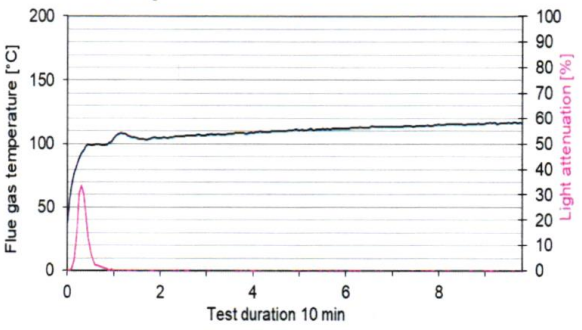
#7818, PN39077:
Max. flue temperature: 111°C, Smoke density integral: 10%min
Residual length: 42 cm



Fire shaft test #7817



#7817, PN39076:
Max. flue temperature: 117°C, Smoke density integral: 4%min
Residual length: 43 cm



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Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: B1

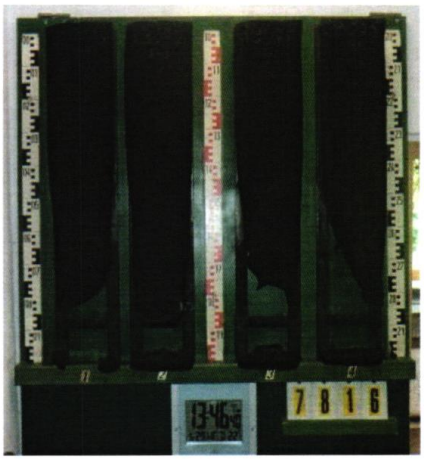
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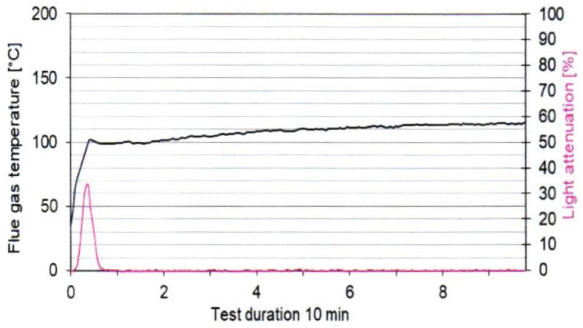
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D-97650 Fladungen

enclosure 4 test report
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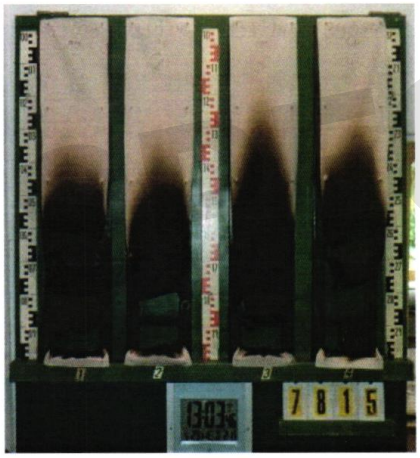
Fire shaft test #7816



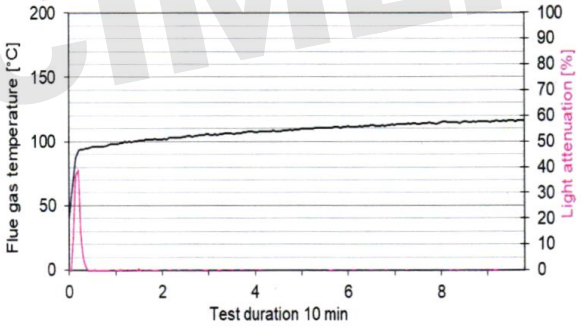
#7816, PN39075:
Max. flue temperature: 115°C, Smoke density integral: 9%min
Residual length: 35 cm



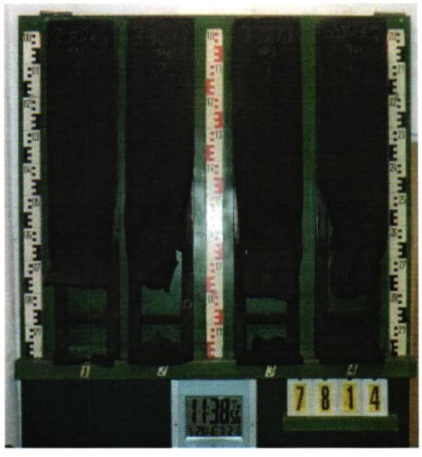
Fire shaft test #7815



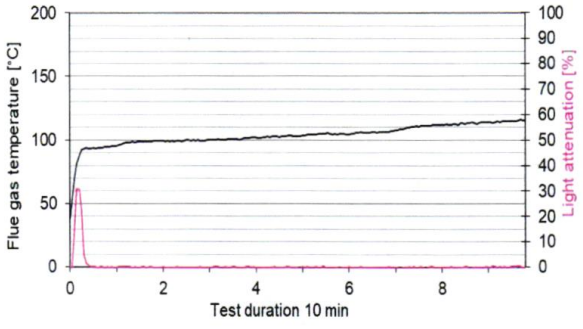
#7815, PN39074:
Max. flue temperature: 116°C, Smoke density integral: 1%min
Residual length: 38 cm



Fire shaft test #7814



#7814, PN39073:
Max. flue temperature: 116°C, Smoke density integral: 5%min
Residual length: 48 cm



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Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: B1

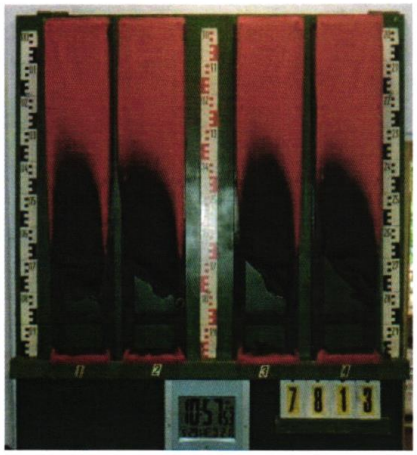
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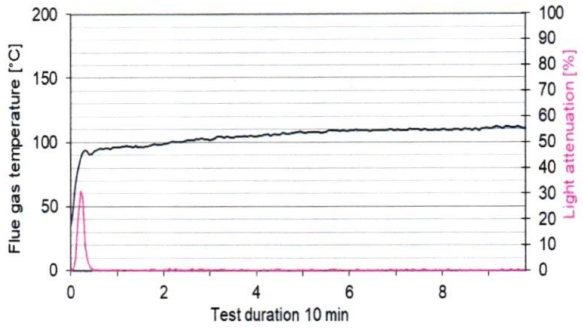
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D-97650 Fladungen

enclosure 5 test report
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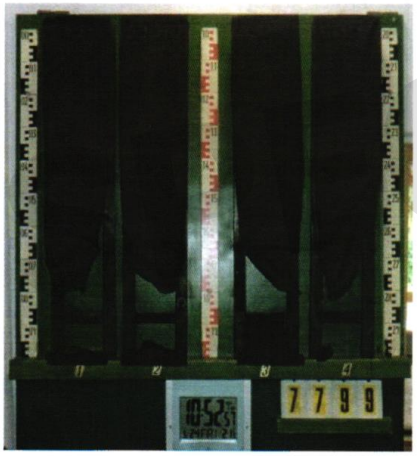
Fire shaft test #7813



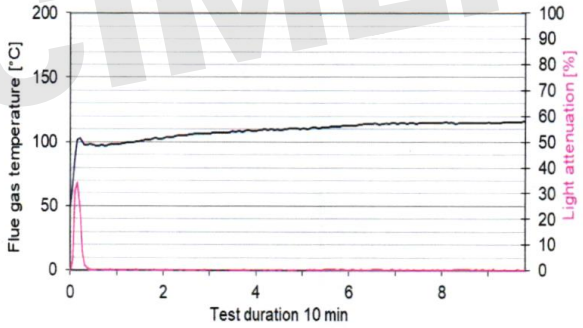
#7813, PN39072:
Max. flue temperature: 112°C, Smoke density integral: 4%min
Residual length: 41 cm



Fire shaft test #7799



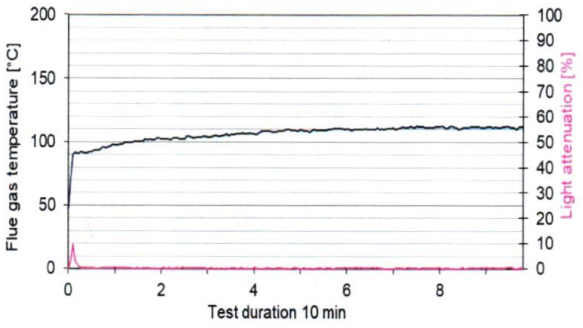
#7799, PN39071:
Max. flue temperature: 116°C, Smoke density integral: 4%min
Residual length: 50 cm



Fire shaft test #7798



#7798, PN39070:
Max. flue temperature: 113°C, Smoke density integral: 2%min
Residual length: 46 cm



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Fire Test Certificate - Specimen

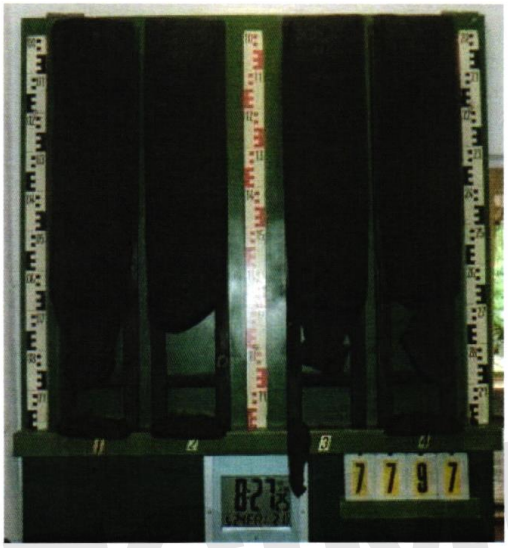
Fabric: Molton Twill
Type: B1

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D-97650 Fladungen

enclosure 6 test report
PZ-Hoch-240738

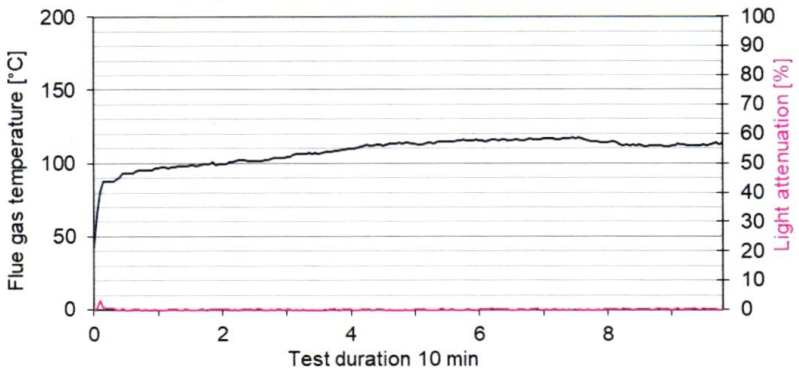
Fire shaft test #7797



SPECIMEN

measurement

#7797, PN39069:
Max. flue temperature: 118°C, Smoke density integral: 1%min
Residual length: 76 cm



Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: B1

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Hoch Fladungen
Prüfinstitut Hoch
Lerchenweg 1
D-97650 Fladungen

enclosure 7 test report
PZ-Hoch-240738

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:	edge-test						surface-test						Dim
samples no.	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[1)]	1	1	1	1	1	1	2	2	2	1	1	2	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	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[1)]	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[1)]	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	s
smoke development (visually)	little						moderate						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	s
Appearance after test: burned out till max. width 2 cm x height 7 cm													

PN 39070:	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[1)]	-/-	2	-/-	-/-	--	--	4	3	2	2	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	-/-	15	-/-	-/-	--	--	8	8	7	6	--	--	s
end of glowing	15	15	15	15	--	--	15	15	15	15	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	very little						little						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2 cm x height 9 cm													

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

SPECIMEN

Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: B1

J&C Joel
Inspiration in every performance

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enclosure 8 test report
PZ-Hoch-240738

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[1)]	1	1	1	1	--	--	3	3	3	3	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	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[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						moderate						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	2	2	2	1	--	--	3	4	3	3	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	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[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	little						moderate						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	1	1	1	2	--	--	3	3	3	3	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	7	8	8	7	--	--	15	15	15	15	--	--	s
end of glowing	16	15	15	15	--	--	./.	15	15	15	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	little						heavy						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 1,5 cm x height 6,0 cm													

SPECIMEN

Fire Test Certificate - Specimen

Fabric: Molton Twill
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[1)]	1	1	1	1	--	--	3	4	3	3	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	10	9	7	6	--	--	10	11	15	15	--	--	s
end of glowing	16	15	15	15	--	--	-/-	-/-	-/-	-/-	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						heavy						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	5	4	4	4	--	--	4	4	5	3	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	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[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	little						moderate						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	2	1	2	3	--	--	6	5	6	5	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	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[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						heavy						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 6,0 cm													

SPECIMEN

Fire Test Certificate - Specimen

Fabric: Molton Twill
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[1)]	1	1	1	1	--	--	-/-	-/-	10	9	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	13	14	11	13	--	--	-/-	-/-	15	15	--	--	s
end of glowing	16	15	16	15	--	--	15	16	15	15	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						moderate						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	5	1	1	2	--	--	-/-	6	7	5	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	12	11	11	11	--	--	-/-	15	15	15	--	--	s
end of glowing	15	15	15	15	--	--	-/-	15	15	15	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	little						little						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	5	3	4	3	--	--	-/-	-/-	-/-	-/-	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	15	15	15	15	--	--	-/-	-/-	-/-	-/-	--	--	s
end of glowing	22	22	22	22	--	--	15	15	-/-	-/-	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						moderate						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 6,0 cm													

SPECIMEN

Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: B1

J&C Joel
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enclosure 11 test report
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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[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	**2**	**2**	**2**	**2**	--	--	**2**	**2**	**2**	**2**	--	--	cm
time of max. flame height	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Self-cessation of flames[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
end of glowing	22	22	22	22	--	--	-/-	16	15	15	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	little						little						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	6	7	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
measurement mark reached[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	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[1)]	15	15	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
end of glowing	15	18	22	22	--	--	-/-	-/-	12	15	--	--	s
flames were extinguished after[1)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						moderate						
dropping of burning material[1)2)]	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
Appearance after test: burned out till max. width 2,0 cm x height 6,0 cm													

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[1)] time denoted relative to beginning of test
A side A B side B K warp S weft

[2)] during 20 Sec -/- no occurrence -- no information

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.

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Hoch Fladungen

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Bauaufsichtlich anerkannte Prüf-, Überwachungs- und Zertifizierungsstelle

KB-Hoch-241380-2

KLASSIFIZIERUNGSBERICHT

Klassifizierung des Brandverhaltens nach EN 13501-1 [1)]

CLASSIFICATION REPORT

Reaction to fire classification according to EN 13501-1 [1)]

SPECIMEN

Gegenstand *Subject*	**"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*"**
Beschreibung *Description*	Gewebe aus 100% Baumwolle in verschiedenen Varianten und Farben *100% cotton fabric in different variations and colors*
Klassifizierung *Classification*	**B – s1,d0**
Berichtsdatum *Issue date*	09.12.2024
Geltungsdauer *Validity*	30.11.2029 [2)] (siehe Abschnitt 5.1 / *confer to section 5.1*)

Dieser Bericht umfasst 7 Seiten und darf nicht auszugsweise benutzt oder veröffentlicht werden. Für rechtliche Belange ist ausschließlich der deutsche Wortlaut maßgebend.
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[1)] EN 13501-1:2018
[2)] Verlängerung auf Antrag / *Prolongation on request*

P06-02-FB08 Rev14
Mitglied der notified body: 1508 egolf

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

DAkkS Deutsche Akkreditierungsstelle D-PL-11005-01-00

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 *Tested total thickness*	≈ 0,26 mm	bis *up to*	≈ 1,77 mm
Nominelles Flächengewicht des geprüften Materials *Nominal weight per unit area of the tested material*	≈ 75 g/m²	bis *up to*	≈ 500 g/m²
Materialzusammensetzung *Material composition*	100 % Baumwolle *100% cotton*		
Geprüfte Farben *Tested colours*	Wie in den zugrundeliegenden Berichten angegeben *With the density given in the underlying reports*		

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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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*

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Fire Test Certificate - Specimen

Fabric: Molton Twill
Type: EN13501-1

J&C Joel
Inspiration in every performance

Prüfverfahren *Test method*	Parameter *Parameter*	Anzahl der Prüfungen *Number of tests*	Ergebnisse (Mittelwert) *Results (average value)*	Anforderung *Requirement*
EN 13823	$FIGRA_{0,2MJ}$	3 (insg. / *total* 19)	92 W/s	A2 / B: ≤ 120 W/s
	$FIGRA_{0,4MJ}$		92 W/s	C: ≤ 250 W/s D: ≤ 750 W/s
	THR_{600s}		2,3 MJ	A2 / B: ≤ 7,5 MJ C: ≤ 15 MJ
	SMOGRA		29 m^2/s^2	s1: ≤ 30 m^2/s^2 s2: ≤ 180 m^2/s^2
	TSP_{600s}		16 m^2	s1: ≤ 50 m^2 s2: ≤ 200 m^2
	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*

Erläuterungen / *remarks:*

$FIGRA_{0,2MJ}$	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*
$FIGRA_{0,4MJ}$	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_{600s}	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^2/s^2] *Smoke Growth Rate [m^2/s^2]*
TSP_{600s}	gesamte freigesetzte Rauchmenge während der ersten 600 Sekunden Beflammung [m^2] *Total smoke production during the first 600 seconds of flame impingement [m^2]*
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	–	s	1	,	d	0

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/m²

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/m³ 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.

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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/m²*

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/m³. 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.

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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)

ANERKANNTE PRÜF-, ÜBERWACHUNGS- UND ZERTIFIZIERUNGSSTELLE
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