
DÉCORS THÉÂTRE, ÉVÈNEMENT, MUSÉOGRAPHIE

Les Lilas, le 17 juin 2022

Atelier Théâtre Actuel

5, rue la Bruyère

75008 Paris

A l'attention de Thibault Petit

DÉCOR : Montespan

Objet : **Certificat(s) de classement au feu**

Monsieur,

Vous trouverez ci-joint(s) le(s) **procès-verbal(aux) de classement au feu** du(des) matériau(x) utilisé(s) dans la construction du décor référencé ci-dessus, à savoir :

Désignation	Procès Verbal
- Peinture acryfuge	RA20-0287
- Toile imprimée	0493-CPR-0077
-	
-	
-	
-	
-	
-	
-	
-	

Nous vous prions de croire à l'assurance de nos salutations distinguées.

Pour Jipanco et Cie

JIPANCO ET CIE

25, rue Chassagnolle - 93260 Les Lilas

Tél. : 01 55 82 08 70 - Mel : jipanco@gmail.com

Location-Gérance - 30-32 rue des Frères Flavien - Paris 20

SAS au Capital de 1 000 € - SIRET 838 092 773 00012

RAPPORT DE CLASSEMENT EUROPEEN DE REACTION AU FEU

REACTION TO FIRE EUROPEAN CLASSIFICATION REPORT

N° RA20-0287

Selon l'Arrêté du 21 novembre 2002 modifié relatif à la Réaction au Feu
des produits de construction et d'aménagement
Laboratoire pilote agréé par le ministère de l'intérieur (Arrêté du 5 février 1959 modifié)
According to the modified Ordinance dated November 21st, 2002 as regards the Reaction to Fire performance
of construction and installation products
Pilot laboratory approved by the Ministry of the Interior (Ordinance of February 5th, 1959 modified)

Valable 5 ans à compter du 26 novembre 2020
Valid 5 years from November 26th, 2020

A la demande de :
Owner:

DOM COLOR
2 rue Berger
94290 VILLENEUVE LE ROI
FRANCE

Marque(s) commerciale(s) :
Commercial brand(s):

ACRYFUGE BLANC N°9209
ACRYFUGE NOIR N°9192

Description sommaire :
Brief description:

Peintures ignifugées
Fire-retarded paints

Date du rapport :
Date of issue:

26 novembre 2020
November 26th, 2020

Ce rapport de classement 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. Seule la version française fait foi. Il comporte 6 pages.

This classification report certifies only the characteristics of the object submitted for testing but does not prejudge the characteristics of similar products. So it does not constitute a product certification in the sense of the Consumer Code. Only the electronic report signed with a valid digital certificate is taken in the event of litigation. The electronic report is kept at CSTB for a minimum period of 10 years. The reproduction of this electronic report is only authorized in its integral form. Only the French version is authentic. It comprises 6 pages.

Rapport de classement / Classification report n° RA20-0287

1. Introduction / Introduction

Ce rapport de classement définit le classement attribué au(x) produit(s) précité(s) conformément aux procédures données dans la norme NF EN 13501-1:2018.

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1:2018 standard.

2. Description du produit / Product description

Peintures ignifugées appliquées sur un support en contreplaqué non ignifugé classé D-s2,d0 d'épaisseur 9 ± 1 mm.

Fire-retarded paints applied on D-s2,d0 class non fire-retarded plywood panel substrate with a thickness of 9 ± 1 mm.

Peintures constituées comme suit:

Paints constituted as follows:

Nature	Peinture ignifugée à base de résine acétate de vinyle, de pigments et d'adjuvants spécifiques <i>Fire-retarded paint made of vinyl acetate resin, pigments and specific additives</i>
Quantité humide en deux couches <i>Wet quantity in two layers</i>	500 g/m ² pour les deux références <i>500 g/m² for both references</i>
Coloris / Colours	Blanc pour la référence ACRYFUGE BLANC N°9209 <i>White for reference ACRYFUGE BLANC N°9209</i> Noir pour la référence ACRYFUGE NOIR N°9192 <i>Black for reference ACRYFUGE NOIR N°9192</i>

Rapport de classement / Classification report n° RA20-0287

3. Rapports d'essais et résultats d'essais en appui du classement
Test reports and test results in support of classification

3.1 Rapports d'essais / Test reports

Nom du laboratoire <i>Name of laboratory</i>	Nom du demandeur <i>Name of sponsor</i>	Identification de l'essai <i>Test identification</i>	N° du rapport d'essai <i>Test report No.</i>	Méthode d'essai <i>Test method</i>
CSTB	DOM COLOR 2 rue Berger 94290 VILLENEUVE LE ROI FRANCE	ES541190721	RA20-0287	NF EN ISO 11925-2:2020 NF EN 13823+A1:2015
		ES541200340	-	NF EN 13823+A1:2015

3.2 Résultats d'essais / Test results

Méthode d'essai <i>Test method</i>	Produit <i>Product</i>	Nombre d'épreuves <i>Number of tests</i>	Paramètres <i>Parameters</i>	Résultats <i>Results</i>
				Paramètres conformité <i>Compliance parameters</i>
NF EN ISO 11925-2 Attaque de surface <i>Surface exposure</i> Exposition/Exposure 30s	ACRYFUGE NOIR N°9192 Coloris noir / <i>Black colour</i>	6	Fs > 150 mm Papier filtre <i>Filter paper</i>	Non atteint <i>Not reached</i> Non enflammé <i>Not ignited</i>
NF EN ISO 11925-2 Attaque de bord <i>Edge exposure</i> Exposition/Exposure 30s	ACRYFUGE NOIR N°9192 Coloris noir / <i>Black colour</i>	6	Fs > 150 mm Papier filtre <i>Filter paper</i>	Non atteint <i>Not reached</i> Non enflammé <i>Not ignited</i>
NF EN ISO 11925-2 Attaque de surface <i>Surface exposure</i> Exposition/Exposure 30s	ACRYFUGE BLANC N°9209 Coloris blanc / <i>White colour</i>	6	Fs > 150 mm Papier filtre <i>Filter paper</i>	Non atteint <i>Not reached</i> Non enflammé <i>Not ignited</i>
NF EN ISO 11925-2 Attaque de bord <i>Edge exposure</i> Exposition/Exposure 30s	ACRYFUGE BLANC N°9209 Coloris blanc / <i>White colour</i>	6	Fs > 150 mm Papier filtre <i>Filter paper</i>	Non atteint <i>Not reached</i> Non enflammé <i>Not ignited</i>

Rapport de classement / Classification report n° RA20-0287

3.2 Résultats d'essais (suite) / Test results (continuation)

Méthode d'essai Test method	Produit Product	Nombre d'épreuves Number of tests	Paramètres Parameters	Résultats / Results	
				Paramètres continus Moyennes Continuous parameters Mean values	Paramètres conformité Compliance parameters
NF EN 13823+A1	ACRYFUGE NOIR N°9192 Coloris noir / Black colour	3	FIGRA _{0,2MJ} (W/s) FIGRA _{0,4MJ} (W/s) LFS THR _{600s} (MJ)	109,0 50,9 1,8	- - Non atteint Not reached -
			SMOGRA(m²/s²) TSP _{600s} (m²)	15,2 43,1	- -
			Gouttelettes ou particules enflammées Flaming droplets or debris	-	Aucune None
NF EN 13823+A1	ACRYFUGE BLANC N°9209 Coloris blanc / White colour	1	FIGRA _{0,2MJ} (W/s) FIGRA _{0,4MJ} (W/s) LFS THR _{600s} (MJ)	49,5 5,8 1,3	- - Non atteint Not reached -
			SMOGRA(m²/s²) TSP _{600s} (m²)	14,2 42,6	- -
			Gouttelettes ou particules enflammées Flaming droplets or debris	-	Aucune None

Le (-) signifie : non applicable / (-) means: not applicable

Rapport de classement / Classification report n° RA20-0287

4. Classement et domaine d'application / Classification and direct field of application

4.1 Référence du classement / Reference of the classification

Le classement est prononcé suivant la norme NF EN 13501-1:2018.

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

4.2 Classement / Classification

Comportement au feu <i>Fire behaviour</i>		Production de fumées <i>Smoke production</i>		Gouttes ou particules enflammées <i>Flaming droplets or debris</i>
B	-	s1	,	d0

Classement / Classification : B - s1, d0

4.3 Domaine d'application / Field of application

Le classement est valable pour les paramètres produits suivants :

This classification is valid for the following product parameters:

Nature	Peinture ignifugée à base de résine acétate de vinyle, de pigments et d'adjuvants spécifiques <i>Fire-retarded paint made of vinyl acetate resin, pigments and specific additives</i>
Quantité humide en deux couches <i>Wet quantity in two layers</i>	500 g/m ² pour les deux références <i>500 g/m² for both references</i>
Coloris / Colours	Blanc pour la référence ACRYFUGE BLANC N°9209 <i>White for reference ACRYFUGE BLANC N°9209</i> Noir pour la référence ACRYFUGE NOIR N°9192 <i>Black for reference ACRYFUGE NOIR N°9192</i>

Le classement est valable pour les conditions d'utilisation finale suivantes :

This classification is valid for the following end use conditions:

Support / Substrate	Produit appliqué sur tout panneau dérivé du bois de masse volumique $\geq 337 \text{ kg/m}^3$ et d'épaisseur $\geq 8 \text{ mm}$ ou sur tout substrat classé A1 ou A2-s1,d0 de masse volumique $\geq 337 \text{ kg/m}^3$. <i>Material applied on any wood based panel with a density $\geq 337 \text{ kg/m}^3$ and a thickness $\geq 8 \text{ mm}$ or on any A1 or A2-s1,d0 class substrate with a density $\geq 337 \text{ kg/m}^3$</i>
Côté exposé au feu <i>Side exposed to fire</i>	Face peinte uniquement <i>Painted side only</i>


Rapport de classement / Classification report n° RA20-0287

5. Limitations / Limitations

Le présent document de classement n'est pas une approbation ni une certification de type du produit.
The present document does not represent type approval or certification of the product.

Fait à Champs-sur-Marne, le 26 novembre 2020
Prepared at Champs-sur-Marne, November 26th, 2020

Le Référent Technique
Etudes et Essais Feu
Fire Studies and Tests Technical Referent

 Signature
numérique de
Olivier BRAULT
Date :
2020.11.26
14:07:40 +01'00'

Olivier BRAULT

Fin de rapport / End of the report



CERTIFICATE OF CONSTANCY OF PERFORMANCE

0493 - CPR - 0077

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Tufted broadloom carpet-FR, 100% polyamide 6, gelback

Total mass: 1450g/m² - 1650g/m²

Effective pile thickness: 4mm - 5mm

Loose laid on a non-combustible substrate* according to EN 13959-1



*End use substrates of class s1 or A2-s1, A0 (ISO 13959-2:2010 § 6.2.2)

produced by or for

SCANACHROME

71, Boulevard de Reuilly

75012 Paris

FRANCE

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard

EN 14041:2004/AC:2006

under system 1 are applied and that

the product(s) fulfil(s) all the prescribed requirements set out above.

This certificate was first issued on October 20th, 2008 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly and latest on April 30th, 2019.

This certificate consists of 1 certificate and 1 annex

Joke De Witte
certification officer

Zwijnaarde, June 07th, 2018

CENTEXBEL • TEXTILE COMPETENCE CENTRE

Technologiepark 7 • BE 9052 Gent • Belgium • phone +32 9 220 41 51 • fax +32 9 220 49 55 • gen@centexbel.be • www.centexbel.be

VAT • BE 0459 218.289 • IBAN • BE 44 2100 4729 6545 • BIC • GEBABEBB



Annex
of

CERTIFICATE OF CONSTANCY OF PERFORMANCE

0493 - CPR - 0077

Tufted broadloom carpet-FR, 100% polyamide 6, gelback

Related commercial names to this product group are:

- C400
- C600

The obtained classification is based on the next test reports:

- Centexbel: 13.04147.03 dd 2013/10/28
- Centexbel: 18.02891.01 dd 2018/05/31

This certificate consists of 1 certificate and 1 annex



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Technologiepark 7 • BE 9052 Gent • Belgium • phone +32 9 220 41 51 • fax +32 9 220 49 55 • gen@centexbel.be • www.centexbel.be

VAT • BE 0459 218.289 • IBAN • BE 44 2100 4729 6545 • BIC • GEBABEBB

for the proof of fire behaviour according to DIN 4102-1

Reference: FLT 3630117 (Translation of the German Prüfzeugnis - no guarantee for translation of technical terms)

Sponsor: Systems Deutschland GmbH
Weizlarer Str. 46
D - 14482 Potsdam

Order: 2017-07-16 **Arrived:** 2017-07-17

Description of samples: Uncoated fabric made of cotton, flame-retardant treated and printed on both sides in different colours, type name "Cloth 201 HzN"
(for details see page 2)

Delivered: 2017-07-17

Content of request: Proof of flammability to classify building materials to class B1 "schwerentflammbar" according to DIN 4102-1

Assessment: The examined product meets the requirements of class B1 for "schwerentflammbar" (not easily flammable) building materials according to DIN 4102-1. If used in one layer, suspended freely or with distance of >40 mm to the same or other plain materials
(for details see page 5)

Validity: 2022-07-31

Sampling: The samples were sent to the laboratory by the sponsor

Remark: If the above-mentioned building material is not used as product according to MBO § 2, there is no need for a general building supervisory test certificate.
This test certificate is not valid if the examined building material is used as product in the meaning of state building prescriptions (MBO § 17).
This test certificate does not replace an eventually necessary proof of applicability concerning building supervisory or building laws in the meaning of state building prescriptions. This has to be verified by:
- "allgemeine bauaufsichtliche Zulassung" (general building inspectorate approval) or by
- "allgemeines bauaufsichtliches Prüfzeugnis" (general building inspectorate certificate) or by
- "Zustimmung im Einzelfall" (exceptional approval)
This test certificate can serve as a basis for building supervisory procedures for:
- regulated building products for the pre-scribed proofs of conformity
- non-regulated building products for the needed proofs of applicability.

This test certificate comprises 5 pages and 5 appendices.
Approved testing, inspection and certification body
The test certificate is valid only if it is signed by the laboratory. If signed by the laboratory, validity and accuracy are guaranteed. Agreement of the test laboratory has to be given in any case if it is not in the scope of other technical standards. Item changed



Prüfstelle für das
Brandverhalten
von Baustoffen
Dipl.-Ing. Uwe Kühnast

Stenstrosse 18
D - 14822 Bockheide
Fax: +49 33845 90901
Fax: +49 33845 90909
Mail: info@firelabs.de
PÜZ-Stelle (LBO): BRÄ09



1 Description of test material

1.1 Test material (according to the sponsor)

The delivered materials are flame-retardant treated cotton fabrics, printed in black, red and yellow on both sides (INFINITUS inkjet printer using colours cyan, magenta, yellow, black). The printed fabrics are intended to be used inside of building as advertising space or for decorative purposes and have been designated with the trade name "Cloth 201 HzN" by the client.

1.2 Description of the delivered samples

For the tests, the laboratory received three sections of fabrics, printed in black, red and yellow on both sides and on its full surface, each with an approximate length of 1.4 m and a width of 3.3 m, as well as a plain section of the fabric. The delivered samples were not marked and were designated with the trade name "Cloth 201 HzN" by the client.

Colour: white fabric, printed in black, red or yellow on both sides.

Characteristic values: see passage 4.1; photos: see enclosures 1-4

Further details are not known to the laboratory; a retain sample has been deposited.

2 Preparation of samples

For the small burner ("Brennkasten") samples for edge flame exposure (dimensions 190 mm x 90 mm) and samples for surface flame exposure (dimensions 230 mm x 90 mm) were cut in warp and in weft orientation of the fabric.

For the fire shaft ("Brandschacht") tests 8 specimens were assembled. The samples (dimensions 1000 mm x 190 mm) for the test specimens A, C, E and G were cut in warp orientation; the samples for the test specimens B, D, F and H were cut in weft orientation of the fabric. Afterwards all samples were kept in a climate chamber acc. DIN 50014-23/50-2 until they reached constant weight.

3 Arrangement of samples

The tests in the fire shaft ("Brandschacht") have been performed acc. DIN 4102-1 and -16 (building materials class B1). The small burner tests ("Brennkastenprüfungen") have been performed acc. DIN 4102-1, chapter 6.2.5 (building materials class B2).

Arrangement of the samples: single layer, freely suspended

Period of testing: August 2017

4 Results

- section 4.1 Material characteristics
- section 4.2.1 Test results class B2 (small burner test)
- section 4.2.2 Test results class B1 (fire shaft)

4.1 Material characteristics

Table 1

Trade name	Printing ink	Specifications by manufacturer			Measured values	
		Mass/unit [g/m ²]	thickness [mm]	Mass/unit [g/m ²]	thickness (m.v.) [mm]	s
Cloth 201 HzN	without	0.80-0.85	270 - 300	0.84	0.009	338
	black					
	red					
	yellow					
		.	.	0.91	0.006	342
		.	.	0.90	0.007	340

m.v. mean value
s standard deviation
./ not received/not measured



4.2 Results of the fire behaviour

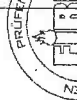
4.2.1 Test results class B2 (Brennkasten)

All building materials class B1 must also meet the requirements of materials of class B2 (flammable). The material, tested in "Brennkasten" acc. DIN 50 050 meets the requirements building materials class B2; the material did not show burning particles/droplets during these tests. Exposing the flame to the front or reverse side did not influence the fire behaviour. (Results: see enclosures 5)

4.2.2 Test results class B1 (Brandschacht)

Table 3

Test results "Brandschachtprüfung" (part 1)												
line no.		Test results										
		A	B	C	D	E	F	G	H	requirements		
1	Number of specimen arrangement acc. DIN 4102 –15 Table 1	1	1	1	1	1	1	1	1	1		
2	Maximal flame height above bottom edge cm	60	50	60	60	50	60	70	60	60	*)	
3	Time ¹⁾ min	1	1	1	1	1	1	1	1	1		
4	Burning / melting through Time min	1	1	1	1	1	1	1	1	1		
5	Back side of the specimens: Flames / glowing Time ¹⁾ min.s	J.	J.	J.	J.	J.	J.	J.	J.	J.		
6	Discolouring Time ¹⁾ min.s	J.	J.	J.	J.	J.	J.	J.	J.	J.		
7	Falling of burning droplets: Begin ¹⁾ min	No	No	No	No	No	No	No	No	No		
8	Extend: Sporadic falling of burning droplets											
9	Continuous falling of burning droplets											
10	Falling of burning parts: Begin ¹⁾ min.s	No	No	No	No	No	No	No	No	No		
11	Extend: Sporadic falling of burning parts											
12	Continuous falling of burning parts											
13	Afterflame time at the bottom of the sieve (max.) min.s	J.	J.	J.	J.	J.	J.	J.	J.	J.		
14	Impairment of the burner flames by drooping or falling Material Time ¹⁾ min.s	J.	J.	J.	J.	J.	J.	J.	J.	J.		
15	Premature end of test Final occurrence of burning at the specimen ¹⁾ min	No	No	No	No	No	No	No	No	No		
16	Time of eventually end of test ¹⁾ min.s	12	12	12	12	12	12	12	12	12		



¹⁾ Indication of time: from the beginning of testing procedure

- Not tested

J. Not occurred

*) No cause for complaint



Test results "Brandschachtprüfung" (part 2)

line no.		Test results									
		A	B	C	D	E	F	G	H	requirements	
17	Afterflame after end of test	No	No	No	No	No	No	No	No		
18	Time min.s										
19	Number of specimen										
20	Front side of specimen										
21	Back side of specimen										
21	Flame lengthcm										
22	Afterglow after end of test	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
23	Time min.s	1:34	1:12	1:35	2:10	1:17	1:04	2:17	2:12		
23	Number of specimen	4	4	4	4	4	4	4	4		
24	Place of appearance:	J.	J.	J.	J.	J.	J.	J.	J.		
24	Lower half of specimen	J.	J.	J.	J.	J.	J.	J.	J.		
25	Upper half of specimen	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
26	Front side of specimen	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
27	Back side of specimen	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
28	Smoke density	12.1	11.2	22.6	18.3	15.3	13.9	10.1	12.2		
28	≤ 400 % min										
29	≥ 400 % min (very strong	J.	J.	J.	J.	J.	J.	J.	J.		
30	smoke density)	1	3	5	7	9	11	13	15		
30	Diagram fig. no.										
31	Residual length	29	21	28	22	26	27	26	25		
31	Individual value cm	28	18	27	28	30	29	29	29	> 0	
32	Average value cm	35	24	29	29	31	34	25	24		
32	Average value cm	30	21	27	26	23	21	24	24		
32	Average value cm	30	21	27	26	24	27	28	25	≥ 15	
33	Photo of the test specimen										
33	fig. no.	2	4	6	8	10	12	14	16		
34	Flue gas temperature										
34	Maximum of average value °C	110	120	115	117	117	116	116	117	≤ 200	
35	Time ¹⁾ min.s	9:3	4:12	8:30	9:48	3:38	9:12	9:54	9:48		
36	Diagram fig. no.	1	3	5	7	9	11	13	15		
37	Remarks: -										
37	Graphs and photos: see enclosures 1-4.										

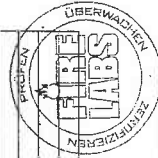
¹⁾ Indication of time: from the beginning of the test procedure

- Not tested

J. Not occurred

*) No cause for complaint

Test specimen	Test-no.	Printing ink	Direction of samples
A	630117-001	black	warp
B	630117-002	black	weft
C	630117-003	yellow	warp
D	630117-004	red	weft
E	630117-005	red	warp
F	630117-006	black	weft
G	630117-007	black	warp
H	630117-008	black	weft



5 Assessment

According to the test results in section 4.2 the material, described in section 1 and 4.1, the tested material fulfils the requirements of a building material class B1 according to DIN 4102-1, if the material is used suspended freely or with a distance of > 40 mm to the same or other plain materials. According DIN 4102-16:2015-09 section 4.2 this assessment is valid for the described fabric and printing process, double-sided printed in any colours.

The requirements of building materials class B2 are fulfilled also, no falling of burning parts or droplets occurred during these tests.

The verification for

- outdoor usage (ageing behavior by outdoor weathering) has not been proved.

6 Special remarks

This certificate is only valid for the material as described under paragraph 1. In combination with other materials or with additional coatings or surfaces etc. the burning behaviour may differ.

This test certificate is not valid, as soon as the product is used as a building product in the sense of the "Landesbauordnungen" (state building requirements, MBO § 17).

This test certificate is no substitute for a General Building Inspectorate Certificate. This test certificate is granted without prejudice to the rights of third parties, or particular private proprietary rights.

In General Building Inspectorates procedures this test certificate can be based for

- regulated building materials for the required proof of accordance
- for non-regulated building materials for the required proof of applicability

The explanations given in DIN 4102-1 app. D, especially concerning an external production control has to be considered.

This test certificate is valid until 2022-07-31, provided that the test methods, the classification rules and the technology do not change during this period.

Borkheide, 21st of August 2017


 Head of the test laboratory
 (Dipl.-Ing. Uwe Kühnast)

This translation was issued the 14th of October 2017, in a case of doubt the German version is valid solely.

Test specimen A

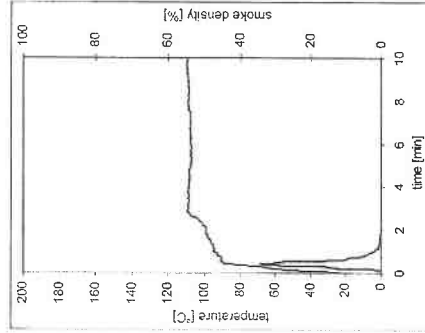
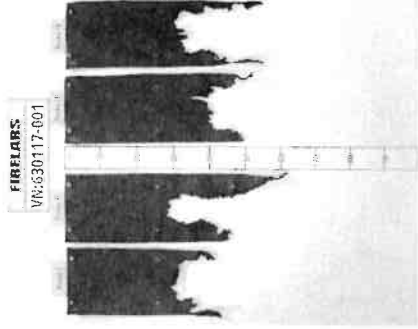


fig. 1

Graphs of the flame gas temperature and the smoke density

fig. 2

View of test specimen after the test



Test specimen B

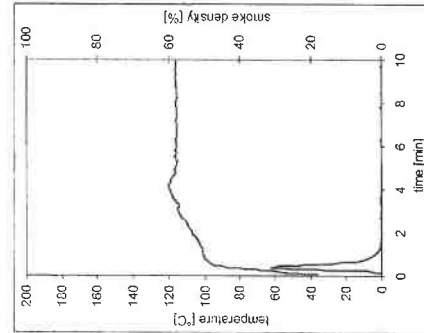


fig. 3

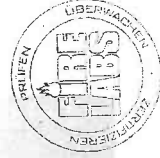
Graphs of the flame gas temperature and the smoke density

fig. 4

View of test specimen after the test


 Head of the test laboratory
 (Dipl.-Ing. Uwe Kühnast)

This translation was issued the 14th of October 2017, in a case of doubt the German version is valid solely.



Test specimen C

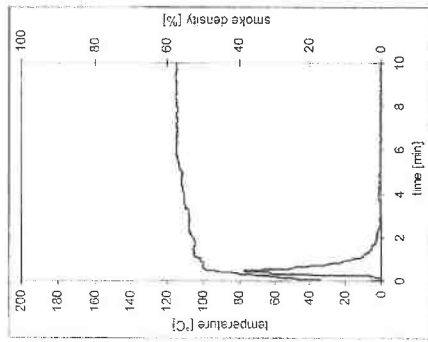


fig. 5
Graphs of the flue gas temperature and the smoke density

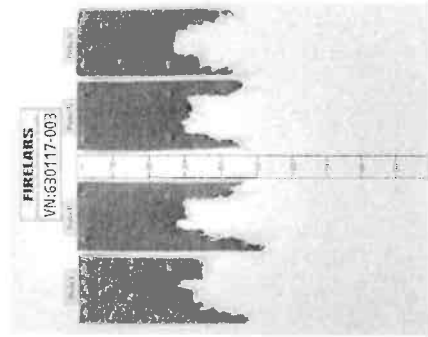


fig. 6
View of test specimen after the test

Test specimen D

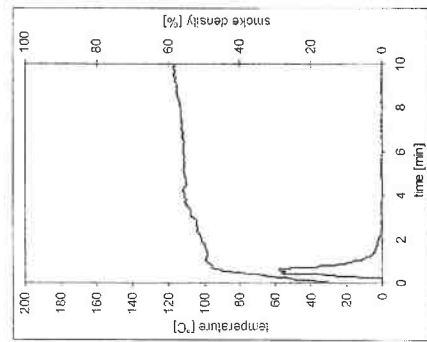


fig. 7
Graphs of the flue gas temperature and the smoke density

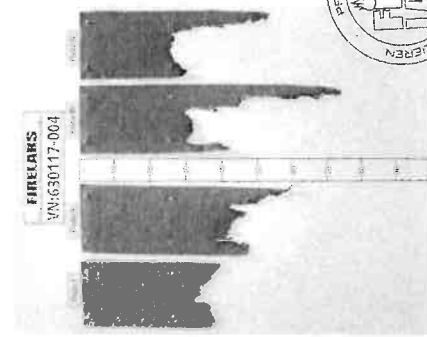


fig. 8
View of test specimen after the test

Test specimen E

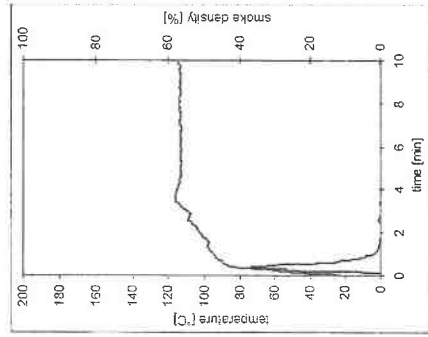


fig. 9
Graphs of the flue gas temperature and the smoke density

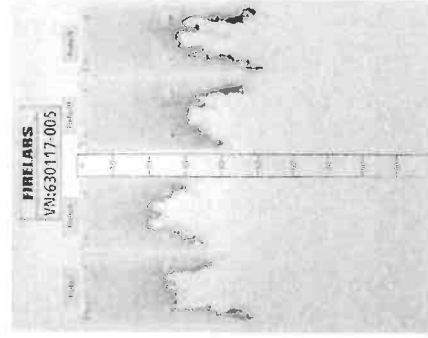


fig. 10
View of test specimen after the test

Test specimen F

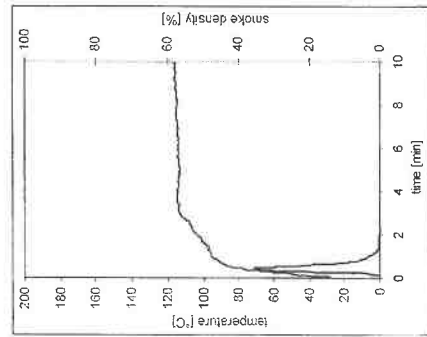


fig. 11
Graphs of the flue gas temperature and the smoke density

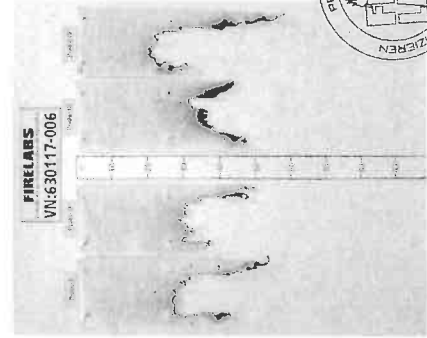


fig. 12
View of test specimen after the test



Test specimen G

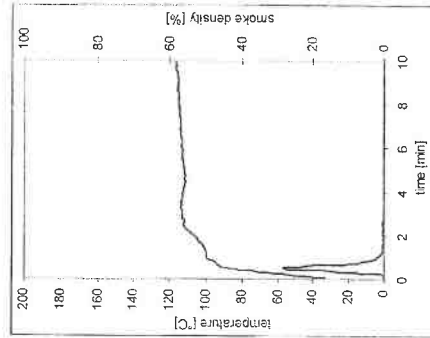
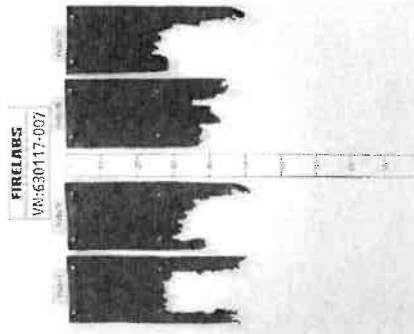


fig. 13

Graphs of the flue gas temperature and the smoke density

fig. 14

View of test specimen after the test



Test specimen H

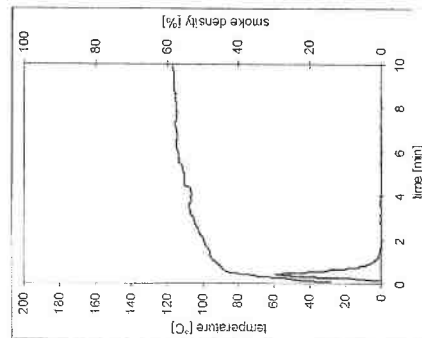
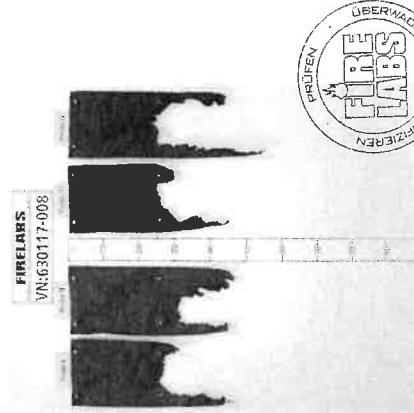


fig. 15

Graphs of the flue gas temperature and the smoke density

fig. 16

View of test specimen after the test



Test results small burner ("Brennkasten") tests

Table 2.1: complete set of samples

Sample-No.	warp direction						weft direction						require-ments
	1	2	3	4	5	6	1	2	3	4	5	6	
Ignition of the sample	1	1	1	1	1	1	1	1	1	1	1	1	-
Maximum flame height	3	4	4	2	3	4	4	3	4	4	3	4	-
Time of the maximum	10	11	10	11	11	15	10	10	11	11	11	15	-
Flame tip reached the 150 mm mark	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	≥ 20
Flames extinguished	16	16	16	16	16	16	16	16	16	16	16	17	-
Ignition of filter paper	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	1)
Smoke density (visual)	very low						very low						-
Afterburning time	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	-
Flames were extinguished after	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	-

View of the samples after the test (20 seconds after exposure the flame):

- destroyed or burned length at flame impingement area of max. 3 cm, discoloured above about 3 – 3.5 cm.

Samples 1-5: Edge flame exposure

Samples 6: Surface flame exposure

Table 2.2

Sample-No.	printed black						printed yellow						require-ments
	1	2	3	4	5	6	1	2	3	4	5	6	
Ignition of the sample	1	1	6	1	1	8	1	1	8	1	1	7	-
Maximum flame height	2	1	1	1	2	2	2	3	3	3	3	3	-
Time of the maximum	5	5	10	6	6	10	12	11	12	10	11	12	-
Flame tip reached the 150 mm mark	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	≥ 20
Flames extinguished	16	16	16	16	16	16	16	16	16	16	16	16	-
Ignition of filter paper	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	1)
Smoke density (visual)	very low						very low						-
Afterburning time	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	-
Flames were extinguished after	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	. / .	-

View of the samples after the test (20 seconds after exposure the flame):

- destroyed or burned length at flame impingement area of max. 3 cm, discoloured above about 3 – 3.5 cm.

Samples 1, 2: Edge flame exposure, samples in warp direction

Samples 3, 4: Surface flame exposure, samples in warp direction

Samples 5, 6: Edge flame exposure, samples in weft direction

Samples 7: Surface flame exposure, samples in weft direction

1) No ignition within 20 seconds

. / . Not occurred

dim. Dimension

Indication of time: from the beginning of testing procedure

Indication of measurements: from reference line of the flame

