



Report VNLF 081158.1 Test Report



Applicant

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Reference

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Application

Determination of the burning behaviour according to EN ISO 9239-1 and the ignition according to EN ISO 11925-1.

Test material

„Kable-Mat“

Material used in testing was anonymized for laboratory purposes. A detailed sample list is contained in the report.

Issuing and Signatures

Number of pages contained: 8
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Translation

Authorised for Institute
Ing. Hannes Vittek

A handwritten signature in blue ink, appearing to read 'Hannes Vittek', written over a horizontal dotted line.

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1 Order

1.1 Chronology

Date	Received	Order
29.07.2015	29.07.2015	Determination of the burning behaviour according to EN ISO 9239-1 and the ignition according to EN ISO 11925-1.

1.2 Samples

Nr.	Received	Sample Identification
1	29.07.2015	„Kable-Mat“

(Unless otherwise stated samples are provided by the customer.)

2 Findings / Tests performed

2.1 Description of building product

Test results

Tested sample: 1

Manufacturing procedure:	tufted
Material of pile/wear layer:	100 % Polyamide (according to the specification by the applicant)
Primary backing:	fleece
Structure of use surface:	loop pile
Colouring:	plain (single coloured)
Secondary backing:	Nitrile rubber
Dimensions:	Mats

	specification by ÖTI	specification by the applicant
Total mass	3993 g/m ²	3950 g/m ²
Total thickness	8,0 mm	13,0 mm

2.2 Determination of the burning behaviour of floor coverings using a radiant heat source

Test conditions

According to: EN ISO 9239-1 (a)

Conditioning: according EN 13238 (4.3)

Substrate: Fibre cement boards according EN 13238 (5.1.2)

Arrangement of specimens: loose laid on substrate

Statement

The test results relate to the behaviour of the test specimens of the products under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the products in use.

Test results

Tested sample: 1

Specimen (direction)	Flame spread [cm] after				Self extinguishing	Self extinguishing after [min : sec]
	10 min	20 min	30 min			
1 (length)	33	44	48	--	--	
2 (cross)	25	39	42	--	--	
3 (length)	25	42	46	--	--	
4 (length)	27	44	48	--	--	

Specimen (direction)	Radiant flux [kW/m ²]				Maxi. light attenuation [%]	Integral of smoke ob- scuration [%·min]
	after 10 min [HF-10]	after 20min [HF-20]	after 30 min [HF-30]	at Self extinguishing [CHF]		
1 (length)	6,5	4,4	3,9	--	85,7	728
2 (cross)	8,1	5,4	4,6	--	77,8	634
3 (length)	8,1	4,6	4,3	--	71,8	712
4 (length)	7,7	4,4	3,9	--	79,8	708

Mean value of critical radiant flux ¹⁾	4,0 kW/m²
Mean value of integral of smoke obscuration ²⁾	716 %·min

Remarks:

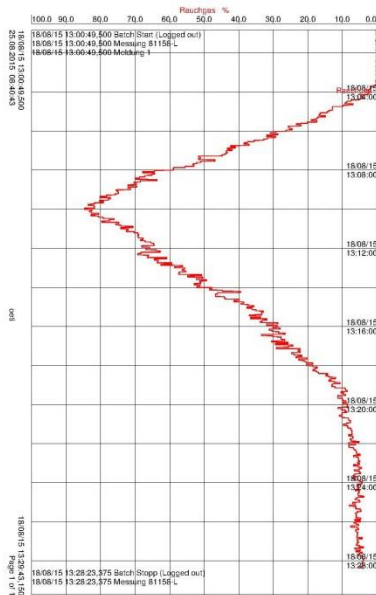
- 1) The mean value of the critical radiant flux is calculated from the results of HF-30 or CHF of the three specimens with the same direction. If both values are stated, the lowest one is taken for calculation.
- 2) The mean value of the integral of smoke obscuration is calculated from the results of the three specimens with the same direction.

Measuring point [mm]	Time [min : sec] at which the flames are reaching the measuring points			
	Specimen 1 (length)	Specimen 2 (cross)	Specimen 3 (length)	Specimen 4 (length)
50	4 : 00	5 : 10	4 : 20	4 : 10
100	5 : 40	6 : 40	6 : 20	6 : 00
150	6 : 40	7 : 50	7 : 30	7 : 10
200	7 : 20	8 : 30	8 : 10	8 : 10
250	8 : 20	9 : 50	9 : 40	9 : 00
300	9 : 30	12 : 00	11 : 10	10 : 50
350	11 : 00	13 : 40	13 : 10	13 : 10
400	13 : 30	20 : 10	17 : 00	16 : 00
450	22 : 40	--	27 : 10	22 : 40

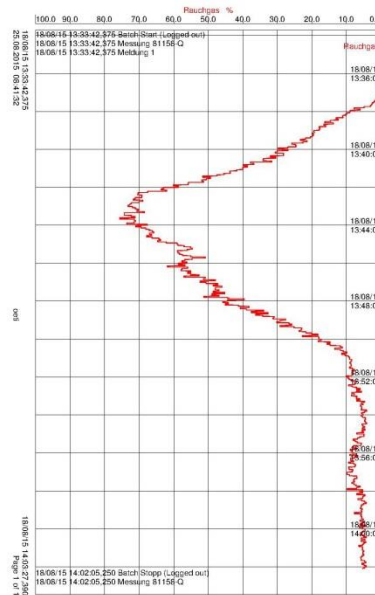
Observations during the test: Melting of the wear layer

2.3 Diagrams of integrated smoke obscuration

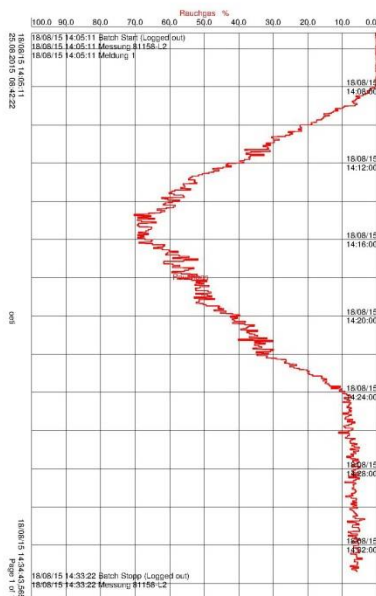
Specimen 1 (length)



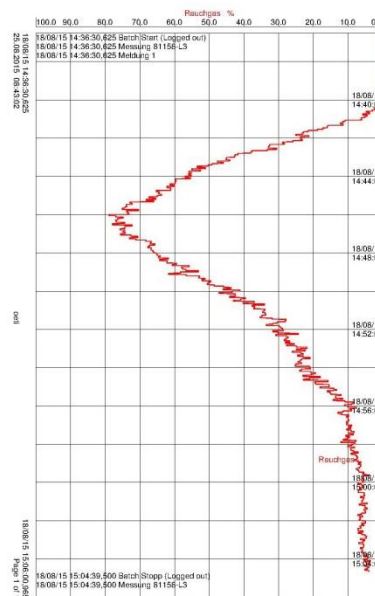
Specimen 2 (cross)



Specimen 3 (length)



Specimen 4 (length)



2.4 Appearance of specimens after test

This photo shows the specimens 1 to 4 (from left to right side). One section of the rule is equivalent to 5 cm.



2.5 Reaction to fire tests – Ignitability of building products subjected to direct impingement of flame

Test conditions

According to EN ISO 11925-2 (a)
 Conditioning: according EN 13238 (4.2)
 Substrate: Fibre cement boards according EN 13238 (5.1.2)
 Arrangement of the samples: loose laid
 Number of specimen: 3 in length, 3 in cross direction (250 mm x 90 mm)
 Exposure conditions: Surface exposure
 Flame application time: 15 s

Statement

The test results relate to the behaviour of the test specimens of the products under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the products in use.

Test results

Tested sample: 1

Specimen	Length direction			Cross direction		
	1	2	3	1	2	3
Ignition	no	no	no	no	no	no
Flaming debris	no	no	no	no	no	no
Ignition of filter paper	no	no	no	no	no	no
Reaching the measuring mark (150 mm)	no	no	no	no	no	no
Time to reach the measuring mark	--	--	--	--	--	--

Special observations during the test: none

3 Remarks

Validity

There are no regulations concerning duration of validity in the individual test standards. As the results of the examinations refer only to the submitted and examined samples, the report is valid for these for an unlimited period. A period of validity specified as part of an expert evaluation is in the discretion of the consultant or the ÖTI.

The applicability of results and expert evaluations for materials not tested is in the responsibility of the applicant. Whereby an apportionment of results as well as any specified period of validity can only be done for identically constructed products and only as long as the product produced unchanged.

Possible national or international restrictions concerning the terms of usability of test and classification reports have to be considered; this is not the responsibility of the test laboratory.

Sample Material

Results of performed tests only refer to the sample material provided.

Without explicit written other agreement testing is destructive and the sample material is transferred to the property of ÖTI, which is entitled to freely decide on storage and disposal.

Issuance

The valid first issue is done in paper and has single-handed signatures. For reference purposes and filing an unsigned electronic duplicate can be delivered in pdf format. Duplicates and translations will be marked accordingly on the cover sheet.

Quality management, Accreditation and Notification

All tests and services are performed under a quality management system according to EN ISO/IEC 17025 respectively EN ISO/IEC 17065.

The ÖTI is accredited as Testing Laboratory and Certification Body for products. It also is a Notified Body for several directives with the registration number 0534 (see <http://ec.europa.eu/enterprise/newapproach/hando/>). Accreditation as Testing Laboratory was provided by Akkreditierung Austria (bmwfw). The scope of accreditation is listed on www.bmwfw.gv.at/akkreditierung.

In this report test conditions of individual accredited test procedures are marked with (a).

According to the decree on the use of the accreditation mark ("AkkZV") the accreditation mark is only to be used by the accredited Conformity Assessment Body.

Application of the registration number of the Notified Body: As to personal protective equipment (PPE) the requirements of PSA-SV § 10, BGBl. Nr. 596/1994 as amended and article 13 of the Directive 89/686/EEC have to be kept. With construction products the application is only permitted within the declaration of performance for CE-marking.

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End of report