



Report VN710 149003.2

Test Report

Applicant

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Reference

Application

Determination of the burning behaviour according to EN 9239-1 as well as the **ignitability** according to EN 11925-2.

Test material

„**DOT DESIGN STUDIO**“

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

Issuing and Signatures

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Authorised for Institute
Ing. Hannes Vittek

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

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1 Order

1.1 Chronology

Date	Received	Order
06.11.2018	04.12.2018	Determination of the burning behaviour according to EN 9239-1 as well as the ignitability according to EN 11925-2.

1.2 Samples

Nr.	Received	Sample Identification
1	04.12.2018	„DOT DESIGN STUDIO“

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

2 Findings / Tests performed

2.1 Description of building product - Floor covering

Test results

Tested sample: 1

Manufacturing procedure:	woven (pile)
Material of pile/wear layer:	100% Polyester (according to the specification by the applicant)
Structure of use surface:	cut pile
Colouring:	multicolored patterned
Backing:	finished
Dimensions:	rolls
Type of floor covering:	Pile carpet according to EN 1307
Mass:	2953 g/m ²
Thickness:	8,2 mm

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

Test conditions

According to: EN ISO 9239-1

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)	18	--	--	21	15 : 00	
2 (cross)	24	31	--	32	23 : 00	
3 (cross)	25	30	--	30	21 : 00	
4 (cross)	20	27	--	27	22 : 00	

Specimen (direction)	Radiant flux [kW/m ²]				Max. 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)	9,6	--	--	9,1	29	161
2 (cross)	8,5	7,3	--	7,1	42	220
3 (cross)	8,4	7,5	--	7,5	35	186
4 (cross)	9,3	8,0	--	8,0	32	187

Mean value of critical radiant flux ¹⁾	7,5 kW/m²
Mean value of integral of smoke obscuration ²⁾	198 %·min

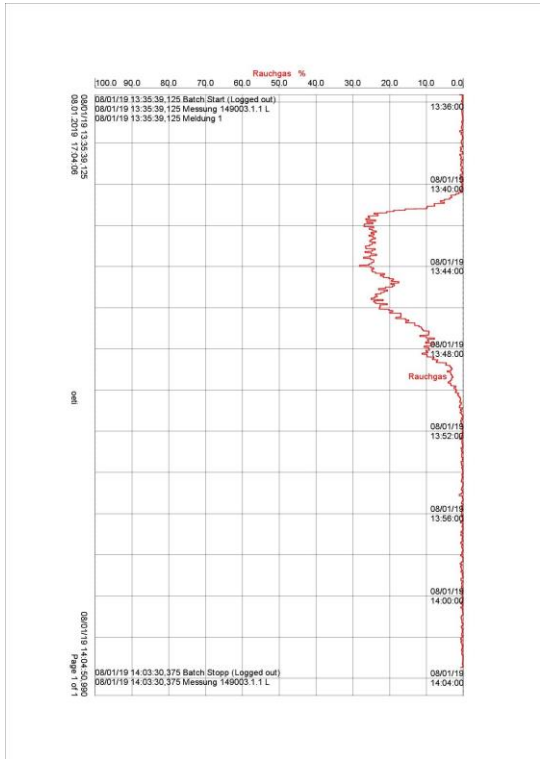
Remarks:

- 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.

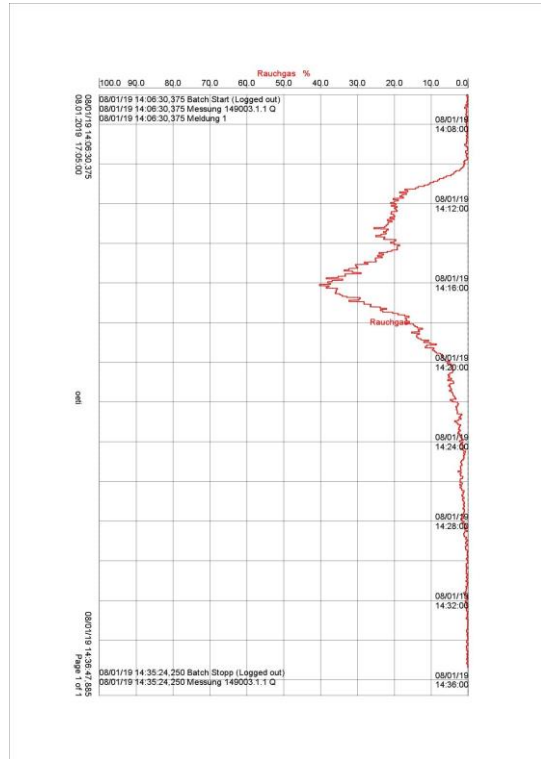
Measuring point [mm]	Time [min : sec] at which the flames are reaching the measuring points			
	Specimen 1 (length)	Specimen 2 (cross)	Specimen 3 (cross)	Specimen 4 (cross)
50	5 : 00	4 : 30	4 : 00	4 : 10
100	6 : 20	6 : 00	5 : 30	6 : 20
150	8 : 00	7 : 00	6 : 50	8 : 00
200	13 : 30	8 : 00	8 : 00	10 : 00
250	-- : --	10 : 30	10 : 00	12 : 00
300	-- : --	19 : 00	13 : 00	-- : --

Observations during the test: none

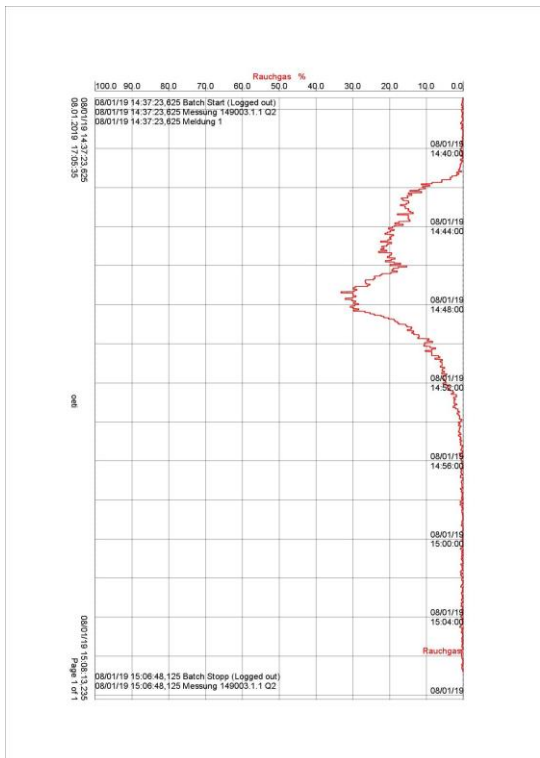
2.2.1 Diagrams of integrated smoke obscuration
Specimen 1 (length)



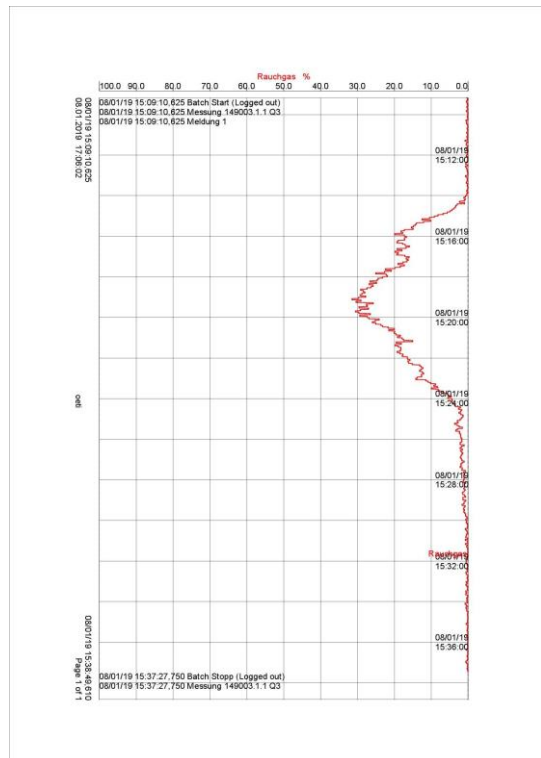
Specimen 2 (cross)



Specimen 3 (cross)



Specimen 4 (cross)



2.2.2 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.



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

Test conditions

According to EN ISO 11925-2

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

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End of report