



Report VN710 134029.2 Test Report

Applicant

PROJECT FLOORS GmbH Max-Ernst-Straße 4 50354 Hürth Germany

Reference

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Application

Testing of the burning behaviour according EN ISO 9239-1 and ignitability according to EN ISO 11925-2.

Test material

"floors@work"

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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Translation

Authorised for Institute Ing. Hannes Vittek

i.V. aulach

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1 Order

1.1 Chronology

Date Received Order

04.10.2017 11.10.2017 Testing of the burning behaviour according EN ISO 9239-1 and ignitability

according to EN ISO 11925-2.

1.2 Samples

 Nr.
 Received
 Sample Identification

 1
 11.10.2017
 "work 55" (457 x 457 mm)

 2
 11.10.2017
 "work 80" (1219 x 228 mm)

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

2 Findings / Testes performed

2.1 Description of the specimens / Information given by the applicant

Test results

Material (of wear layer):	PVC (according to the specification by the applicant)
Construction:	heterogeneous
Constitution of wearlayer:	transparent wear layer
Type of floor covering:	smooth floor covering
Structure of wearlayer:	grained surface
Colouring:	marbled / veined
Dimensions:	tiles / planks

Tested sample	Wear layer thickness	Total thickness	Total weight
Sample 1	0,22 mm	2,5 mm	4080 g/m ²
Sample 2 0,80 mm		2,5 mm	4080 g/m²

The submitted samples are heterogeneous PVC floor coverings according to EN ISO 10582.

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

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

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

Test results

Tested sample: 1

Specimen			Flame sp	Self extinguishing		
(d	lirection)	10 min	20 min	30 min	Self extinguishing	after [min : sec]
1	(length)	16			16	12:00
2	(cross)	15			15	12:00

	Specimen		Radiant]	Maxi. light	Integral of	
(direction)	after 10 min	after 20min	after 30 min	at Self extinguishing	attenuation	smoke ob- scuration
		[HF-10]	[HF-20]	[HF-30]	[CHF]	[%]	[%.min]
1	(length)	9,8			9,8	33	79
2	(cross)	10,0			10,0	29	68

Mean value of critical radiant flux 1)	kW/m²
Mean value of integral of smoke obscuration ²⁾	%.min

Remarks:

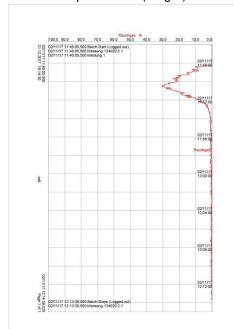
- 1) The mean value of the critical radiant flux is calculated from the results of HF-30 or CHF of the three specimens with the same direction. If both values are stated, the lowest one is taken for calculation.
- 2) The mean value of the integral of smoke obscuration is calculated from the results of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

Measuring point [mm]		t which the flames are measuring points
	Specimen 1 (length)	Specimen 2 (cross)
50	2:50	3:10
100	4:11	3 : 50
150	4 : 50	5 : 20

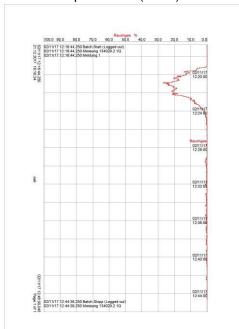
Special observations during the test: blistering

2.2.1 Diagrams of integrated smoke obscuration

Specimen 1 (length)



Specimen 2 (cross)



2.2.2 Appearance of specimens after test

This photo shows the specimens 1 and 2 (from left to right side). One section of the rule is equivalent to 5 cm.



2.3 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

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 sp	Self extinguishing		
		10 min			Self extinguishing	after [min : sec]
1	(length)	17			17	12 : 00
2	(cross)	20			20	12 : 00
3	(cross)	20			20	12:00
4	(cross)	18			18	12 : 00

	pecimen		Radiant	flux [kW/m²	Maxi. light	Integral of	
(direction)		after 10 min	after 20min	after 30 min	at Self extinguishing	attenuation	smoke ob- scuration
		[HF-10]	[HF-20]	[HF-30]	[CHF]	[%]	[%.min]
1	(length)	9,6			9,6	47	142
2	(cross)	9,2			9,2	53	179
3	(cross)	9,2			9,2	50	178
4	(cross)	9,4			9,4	47	156

Mean value of critical radiant flux 1)	9,3 kW/m²
Mean value of integral of smoke obscuration ²⁾	171 %.min

Remarks

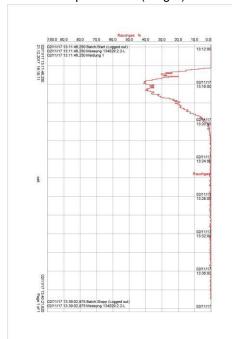
- 1) The mean value of the critical radiant flux is calculated from the results of HF-30 or CHF of the three specimens with the same direction. If both values are stated, the lowest one is taken for calculation.
- 2) The mean value of the integral of smoke obscuration is calculated from the results of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

Measuring point	Time [min : sec] at which the flames are reaching the measuring points					
[mm]	Specimen 1 (length)	Specimen 2 (cross)	Specimen 3 (cross)	Specimen 4 (cross)		
50	3:00	3:10	2:50	3:00		
100	3 : 50	4:00	3 : 50	3 : 50		
150	4:30	4:40	4:40	5:00		
200	:	5 : 50	6:00	:		

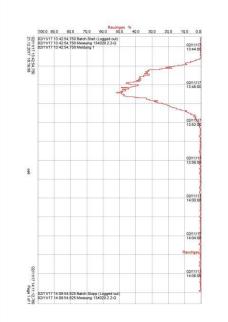
Special observations during the test: blistering

Diagrams of integrated smoke obscuration

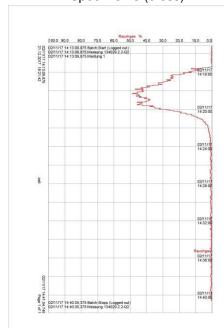
Specimen 1 (length)



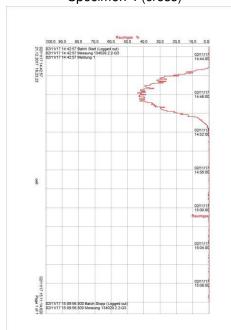
Specimen 2 (cross)



Specimen 3 (cross)



Specimen 4 (cross)



2.3.2 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.



2.4 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: 2

	Length direction			Cross direction		
Specimen	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.

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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.

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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/nando/). 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 individual non-accredited test procedures are marked with *.

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End of report