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Vienna / 10.01.2020 / atad

## Test Report IS710 162045.1

### Application

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

### Test Material

"HOMEFLEX 2 mm / 0,15 mm", "HOMEFLEX 3 mm / 0,30 mm"

The test material used for testing was made anonymous for laboratory purposes.  
A detailed sample list is included in the document.

### Issuing

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## 1 Application

Date of Order	Scope of Order
25.11.2019	Description Of Specimen - Building Products - Internal Method Burning Behaviour Of Building Products - EN ISO 9239-1 (Orientating Each Direction) Burning Behaviour Of Building Products - EN ISO 9239-1 Ignitability Of Building Products - EN ISO 11925-2

## 2 Samples

No.	Receipt	Sample Identification
1	06.12.2019	"HOMEFLEX 2 mm / 0,15 mm"
2	06.12.2019	"HOMEFLEX 3 mm / 0,30 mm"

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

### 3 Tests Performed / Results

#### \*Description Of Specimen - Building Products Internal Method

Tested sample: **#1 "HOMEFLEX 2 mm / 0,15 mm"**

Material of wear layer	PVC (declaration by the applicant)
Construction	heterogeneous
Character of the wear layer	transparent
Type of flooring	smooth floor covering
Character of the surface	smooth surface
Colouration of the surface	patterned
Dimensions	rolls
Description according to standard	EN ISO 10582 – heterogeneous PVC floor covering with felt backing

Tested sample: **#2 "HOMEFLEX 3 mm / 0,30 mm"**

Material of wear layer	PVC (declaration by the applicant)
Construction	heterogeneous
Character of the wear layer	transparent
Type of flooring	smooth floor covering
Character of the surface	smooth surface
Colouration of the surface	patterned
Dimensions	rolls
Description according to standard	EN ISO 10582 – heterogeneous PVC floor covering with felt backing

\*) determined on a specimen of 20 x 20 cm

# **Burning Behaviour Of Building Products EN ISO 9239-1 (Orientating Each Direction)**

Tested sample: **#1 "HOMEFLEX 2 mm / 0,15 mm"**

Conditioning: according to EN 13238 (4.3)

Substrate: Fibre cement boards according to EN 13238

Arrangement of the specimens: lose

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.

Specimen	Direction	Flame spread after [cm]				Self extinguishing after [min : sec]
		10 min	20 min	30 min	Self extinguishing	
1	length	20	--	--	20	12:00
2	cross	15	--	--	15	12:00

Specimen	Radiant flux [kW/m <sup>2</sup> ] after				Max. light obscuration [%]	Integral of smoke obscuration [%·min]
	10 min [HF-10]	20 min [HF-20]	30 min [HF-30]	Self extinguishing [CHF]		
1	9,2	--	--	9,2	40	47
2	10,0	--	--	10,0	27	36

As the mean value of the critical radiant flux and integral of smoke obscuration are calculated from the three specimens of the same direction there is no stated value for orientating tests.

Specimen	Time [min : sec] at which the flames are reaching the 50-mm measuring lines (starting with 50 mm)
1	2:10, 2:20, 2:40, 4:30
2	2:00, 2:20, 5:10

Observations during test: none



## Burning Behaviour Of Building Products EN ISO 9239-1

Tested sample: **#2 "HOMEFLEX 3 mm / 0,30 mm"**

Conditioning: according to EN 13238 (4.3)

Substrate: Fibre cement boards according to EN 13238

Arrangement of the specimens: lose

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.

Specimen	Direction	Flame spread after [cm]				Self extinguishing after [min : sec]
		10 min	20 min	30 min	Self extinguishing	
1	length	22	--	--	22	12:00
2	cross	20	--	--	20	12:00
3	length	22	--	--	22	12:00
4	length	22	--	--	22	12:00

Specimen	Radiant flux [kW/m <sup>2</sup> ] after				Max. light obscuration [%]	Integral of smoke obscuration [%·min]
	10 min [HF-10]	20 min [HF-20]	30 min [HF-30]	Self exting uishing [CHF]		
1	9,1	--	--	9,1	65	102
2	9,4	--	--	9,4	62	69
3	9,1	--	--	9,1	38	60
4	9,1	--	--	9,1	68	94

Mean value of critical radiant flux: **9,1 kW/m<sup>2</sup>**

Mean value of integral of smoke obscuration: **85 %·min**

Remarks: 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. The mean value of the integral of smoke obscuration is calculated from the results of the three specimens with the same direction.

Specimen	Time [min : sec] at which the flames are reaching the 50-mm measuring lines (starting with 50 mm)
1	2:10, 2:40, 3:00, 3:40
2	2:10, 2:50, 4:00, 4:30
3	2:10, 3:00, 4:20, 4:50
4	2:10, 2:30, 3:00, 6:30

Observations during test: none

### Ignitability Of Building Products EN ISO 11925-2

Tested sample: #2 "HOMEFLEX 3 mm / 0,30 mm"

Conditioning: according EN 13238 (4.3)

Substrate: Fibre cement boards according EN 13238 (5.1.2)

Arrangement of 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.

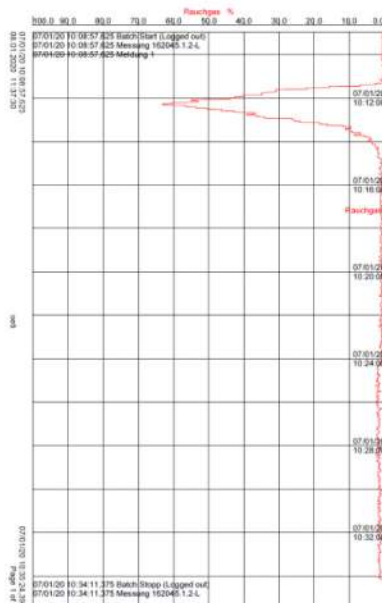
Specimen	Length direction			Cross direction		
	1	2	3	1	2	3
Ignition	no	no	no	no	no	no
Flaming debris	no	no	no	no	no	no
Ignition of filter paper	no	no	no	no	no	no
Reaching the measuring mark (150 mm)	no	no	no	no	no	no
Time to reach the measuring mark [s]	--	--	--	--	--	--

Special observations during the test: none

## 4 Fotos / Diagrams

### 4.1 Diagrams of integrated smoke obscuration - EN ISO 9239-1

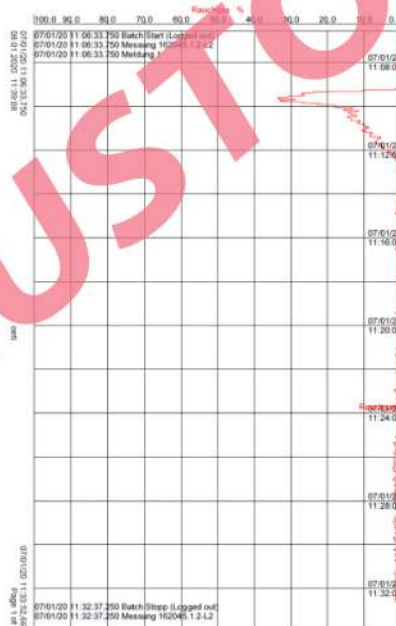
Specimen 1 (length)



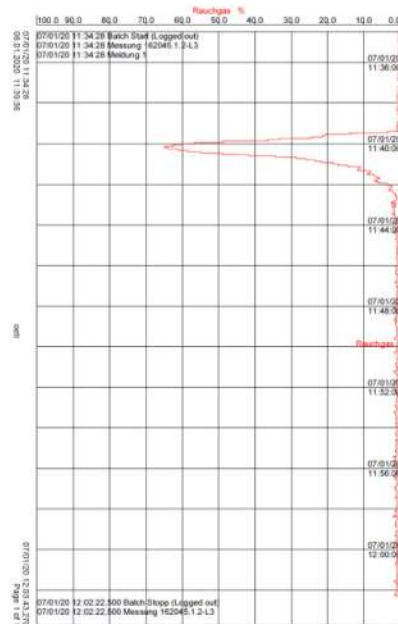
Specimen 2 (cross)



Specimen 3 (length)



Specimen 4 (length)



#### 4.2 Appearance of specimens after EN ISO 9239-1 test

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





## 5 Remarks

### Period of 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 OETI. 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 is 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.

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### Issuing

The valid first issue is done in paper and has single-handed signatures. Translations will be marked accordingly on the cover sheet.

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In this report individual non-accredited test procedures are marked with \*. Nevertheless, the analysis was also carried out for these parameters at the same level of quality as for the accredited parameters.

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End of Report