

# TFI Report 20-000144-03

## Classification

of the Reaction to Fire according to EN 13501-1:2010

### Customer

Kinnasand GmbH  
Danziger Str. 6  
26655 Westerstede  
GERMANY

### Product

textile floor covering  
Product 1: Aram 2  
Product 2: Argali

This report includes 4 pages and 0 annex(es).

### Responsible at TFI

Aachen, 19 March 2020



The present document is provided with an advanced electronic signature.

This report only applies to the tested samples and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the TFI Aachen GmbH, also with regard to the order execution.



## 1 Transaction

Test order	Classification of the reaction to fire according to EN 13501-1:2010
Order date	20 January 2020
Your reference	
Product designation(s)	Aram 2 Argali
TFI sample number	2000222, 2000221

## 2 Product specification

The construction product is completely described in the test report mentioned under item 3. The test report provides the basis for the present classification.

## 3 Results

### 3.1 Test reports and test results used for the classification

Test laboratory	Customer	Test report no.	Test method
TFI Aachen GmbH	Kinnasand GmbH	20-000144-01 dated 19 March 2020	EN ISO 9239-1:2010
			EN ISO 11925-2:2010 (15 s ignition time)
TFI Aachen GmbH	Kinnasand GmbH	20-000144-02 dated 19 March 2020	EN ISO 9239-1:2010
			-

### 3.2 Test results

	Test method	Parameter	Number of tests	Result	
				Mean value	Requirements fulfilled (Y/N)
Product 1	EN ISO 9239-1:2010	Average critical heat flux [kW/m <sup>2</sup> ]	3	10.5	
		Integrated smoke value [% x min.]		26	
	EN ISO 11925-2:2010	Flame tip < 150 mm	6	-	Y

	Test method	Parameter	Number of tests	Result	
				Value*	Requirements fulfilled (Y/N)
Product 2	EN ISO 9239-1:2010	Average critical heat flux [kW/m <sup>2</sup> ]	2	10.4	
		Integrated smoke value [% x min.]		23	
	EN ISO 11925-2:2010	Flame tip < 150 mm	-	-	-

\*Worse result for the average critical heat flux and the corresponding integrated smoke value from the Radiant Panel Test with a reduced number of samples.

### 3.3 Classification and field of application

The construction products "Aram 2" and "Argali" are classified as follows with regard to the reaction to fire:

**B<sub>fl</sub>**

The additional classification with regard to the smoke development is:

**s1**

The additional classification with regard to burning droplets/particles is:

-

The format of the reaction to fire classification for floor coverings is:

Reaction to fire		Smoke development	
<b>B<sub>fl</sub></b>	-	<b>s</b>	<b>1</b>

**Classification of the reaction to fire: B<sub>fl</sub> - s1**

**This classification is valid for the following end use application:**

Type of end use application	flooring
Substrate	noncombustible substrates (Euroclass A1 and A2-s1,d0) with a gross density $\geq 1350 \text{ kg/m}^3$
Underlay for installation	no
Type of fixation	glued or unglued
Joint according to EN ISO 9239-1:2010	no

### Limitations

This classification document does not represent any type approval or certification of the product.