



Instytut Techniki Budowlanej

European Notified Body N° 1488  
GROUP OF TESTING LABORATORIES  
accredited by Polish Center for Accreditation  
accreditation certificate  
N° AB 023



AB 023

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FIRE TESTING DEPARTMENT

FIRE TESTING LABORATORY

## REPORT OF THE TESTS AND ASSESSMENT OF THE PERFORMANCE N° LZP01-02371/22/Z00NZP

*This report has been issued in 3 copies, the customer received 2 copies and 1 copy remained in the ITB.*

Client: *Fliesana e.K.*  
Client address: *Eichkamp 15  
24217 Schönberg, Germany*

### INFORMATION ABOUT PRODUCT

Manufacturer (name and address): *Fliesana e.K.  
Eichkamp 15  
24217 Schönberg, Germany*

Name and address of factory: *Fliesana e.K.  
Eichkamp 15  
24217 Schönberg, Germany*

Product: *Wall and Floor Tiles, Sandstein (Trawertyn, Travertine)*

Technical specification: *PN-EN 15102:2019-09*

Information about product, intended use: *Wall covering intended for indoor use in living and industrial buildings and structure subject to fire reaction regulation*

Unique identification code of the product-type: *-*

### Information about test item

Test item: *Wall and Floor Tiles, Sandstein (Trawertyn, Travertine)*

name, description, condition, identification: **Product parameters declared by Client:**  
*Self-adhesive vinyl wall tiles with PUR surface finish  
Surface finish mass: 3,425 g/m<sup>2</sup>, color: sandstein  
Thickness: 2,0 mm*

**Product parameters assessed by laboratory:**  
*Thickness of wall covering: approx. 2,8 mm  
Surface mass of the tile: approx. 4.283 kg/m<sup>2</sup>  
Colour: "sandstein"*

Date of receipt /sampling: *Receipt for testing on: 01.09.2022  
Sampled on: 09.05.2022*

N° of receipt protocol: *LZP-02371/22/Z00NZP*

N° of sampling protocol: *No. 1/09.05.2022 (copy of the protocol in appendix)*

FIRE TESTING LABORATORY



Receipt procedure: PZ ZLB 18 Handling of test samples

Sampling procedure ITB Certification Department own procedure

## Information about tests:

Test commencement date:: 28.09.2022

Test completion date: 28.09.2022

**TEST METHOD:**

PN-EN 13823+A1:2014 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.

**DEVIATIONS FROM PN-EN 13823+A1:2014**

Did not appear

**CONDITIONING:**

Time of conditioning: since 01.09.2022 to 28.09.2022  
Conditioning parameters: temperature:  $23 \pm 2^\circ\text{C}$ , relative humidity  $50 \pm 5\%$   
Conditioning method: to constant mass

**PREPARATION OF SPECIMENS (substrate, mounting and fixing methods):**

Specimens in accordance to PN-EN 13823+A1:2014 standard were prepared by Sponsor by affixing self-adhesive wall covering by to the gypsum plasterboard standard substrate acc. EN 13238:2010 .

**TEST CONDITIONS:**

Parameter / Unit	Specimen 1	Specimen 2	Specimen 3
Fume volume flow [ $\text{m}^3/\text{s}$ ]	0,568-0,622	0,561-0,628	0,572-0,624
Ambient temperature [ $^\circ\text{C}$ ]	24,84	24,95	24,86
Ambient pressure [kPa]	99,968	99,944	99,934
Relative humidity [%]	52,1	52,1	52,6

**TEST RESULTS:**

Parameter / Unit	Specimen 1	Specimen 2	Specimen 3	Mean value
<b>FIGRA</b> $_{0,2\text{MJ}}$ [W/s]	670,4	792,3	662,9	708,5
<b>FIGRA</b> $_{0,4\text{MJ}}$ [W/s]	670,4	792,3	662,9	708,5
<b>THR</b> $_{600\text{s}}$ [MJ]	19,1	23,6	23,5	22,1
<b>SMOGRA</b> [ $\text{m}^2/\text{s}^2$ ]	166,5	193,4	228,7	196,2
<b>TSP</b> $_{600\text{s}}$ [ $\text{m}^2$ ]	506,8	625,1	627,8	586,6

**OBSERVATIONS:**

Observations	Specimen 1	Specimen 2	Specimen 3
Lateral flame spread on the long specimen wing up to edge of the specimen LFS [m]	0,35	0,42	0,40
Flaming droplets/particles in the first 600 s of the test, which flame less than 10 s (+/-)	-	-	-
Flaming droplets/particles in the first 600 s of the test, which flame more than 10 s (+/-)	+	+	+
Surface flash (+/-)	+	+	+
Falling specimen parts (+/-)	+	+	+
Smoke entering the hood (+/-)	-	-	-
Damage of the mutual fixing of backing boards (+/-)	-	-	-



Distortion/collapse of the specimen (+/-)	+	+	+
Early termination of the test* (+/-)	-	-	-
<b>UNCERTAINTY OF MEASUREMENTS::</b>			
Uncertainties (associated with the accuracy of applied devices), are given in the Appendix to this test report			
<b>OTHER OBSERVATIONS:</b>			
* The cause of early termination of test (excessive HRR, excessive temperature, burner substantially disturbed/choked, failure of apparatus)			
<b>ENCLOSURES:</b>			
Photos of the specimen installation in the test apparatus and test results graphs, uncertainty and sampling protocol			
<b>STATEMENT THE UNANIMITY / VARIANCES WITH REQUIREMENTS:</b>			
The parties have agreed that when assessing the compliance of results with the criteria set out in EN 13501-1, a simple acceptance rule is applied, that is, the product is considered compatible with regard to the test result, if the result of this, without taking into account the volatility resulting from the measurement uncertainty, will meet the requirement. It is associated with the risk of an incorrect assessment, resulting from the failure to uncertainty in the assessment. The risk also arises from the fact that the laboratory does not have knowledge of the variation of the population of the product, and only on the test sample. In accordance with the provisions of PN-EN 13501-1, the abovementioned assessment of the compliance of the results with the criteria is included in a separate document (the so-called classification report), provided that the owner of this report applied for such a document.			
<b>STATEMENT:</b>			
The test results relate to the behaviour of product specimens under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.			

**Responsible for the test:**Robert Błajda M.Sc.Eng.
**Person authorized report**Bartłomiej K. Papis Ph. D. Eng

Warszawa, 03.10.2022

Testing Laboratory declares that test results relate only to the object under test. Test Report should not be reproduced without a written permission of Testing Laboratory in any other form than as a whole.

Test Report is not substitute for documents required for placing on the market and making available of construction products.

**Head of Fire Research Department:**Bartłomiej K. Papis Ph. D. Eng

End of TEST REPORT No. LZP01-02371/22/Z00NZP



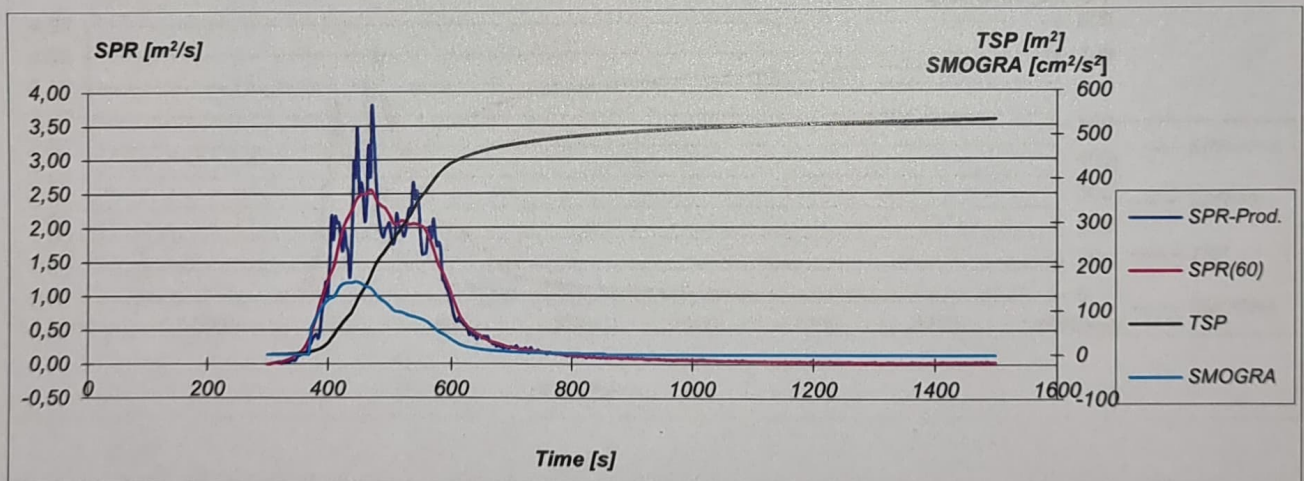
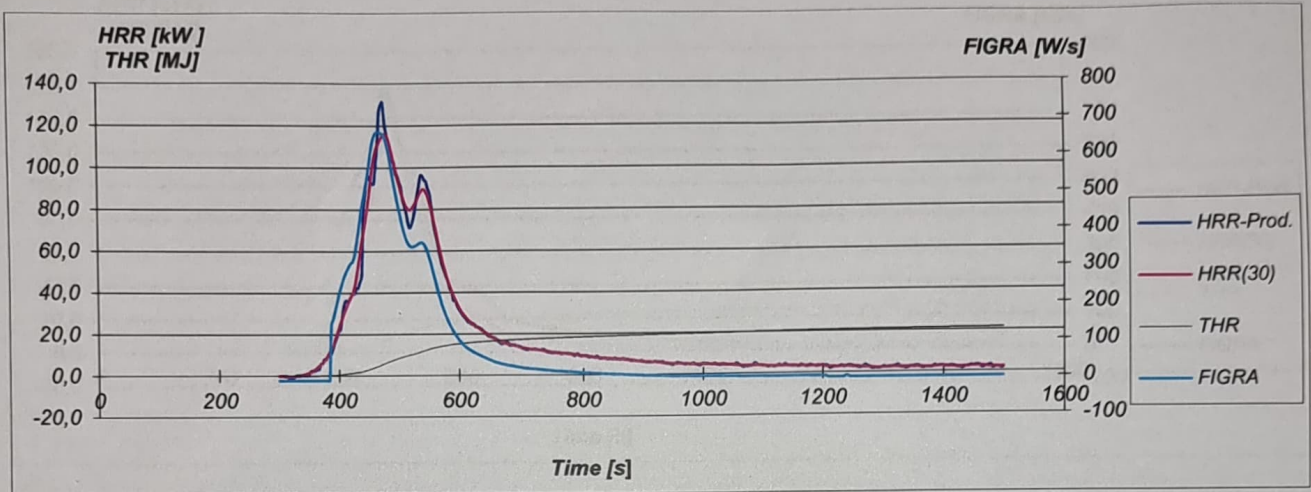
*Foto.1 General view of the sample on the research position*



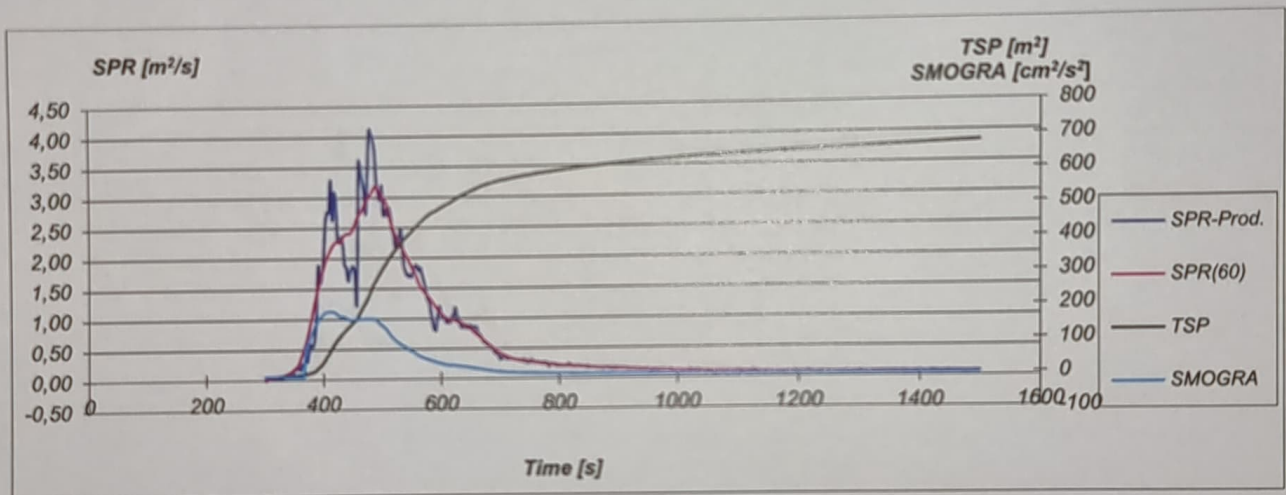
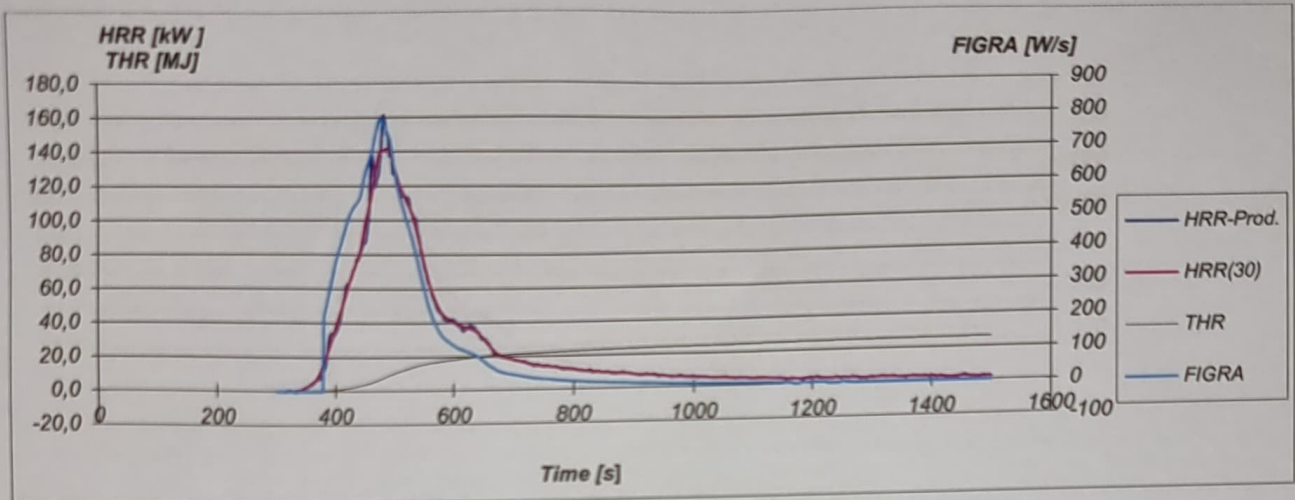
*Foto.2 Vertical outside edge of the long wing of 500 mm above the floor of the cart*



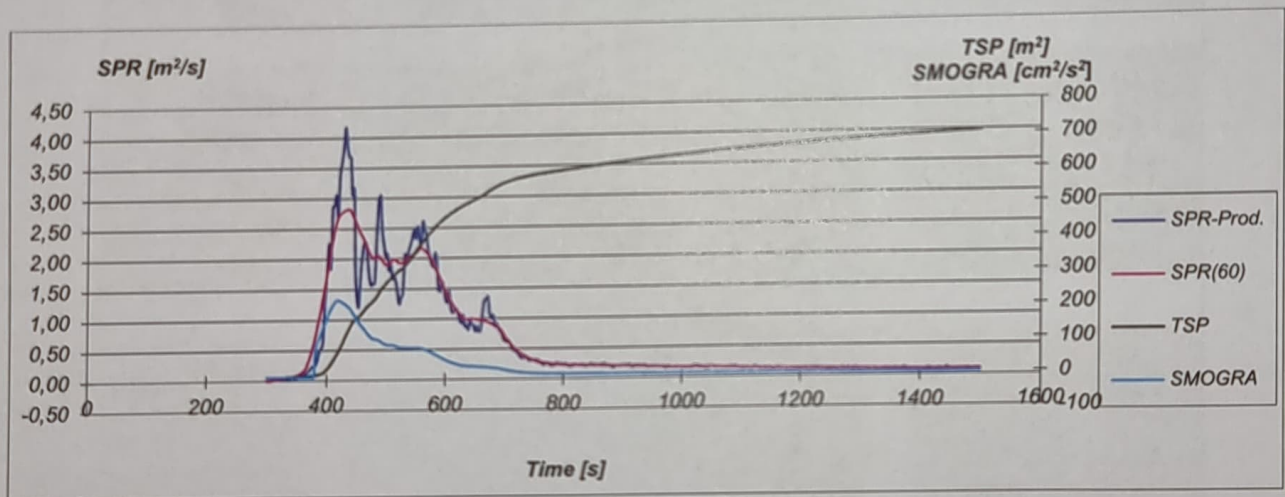
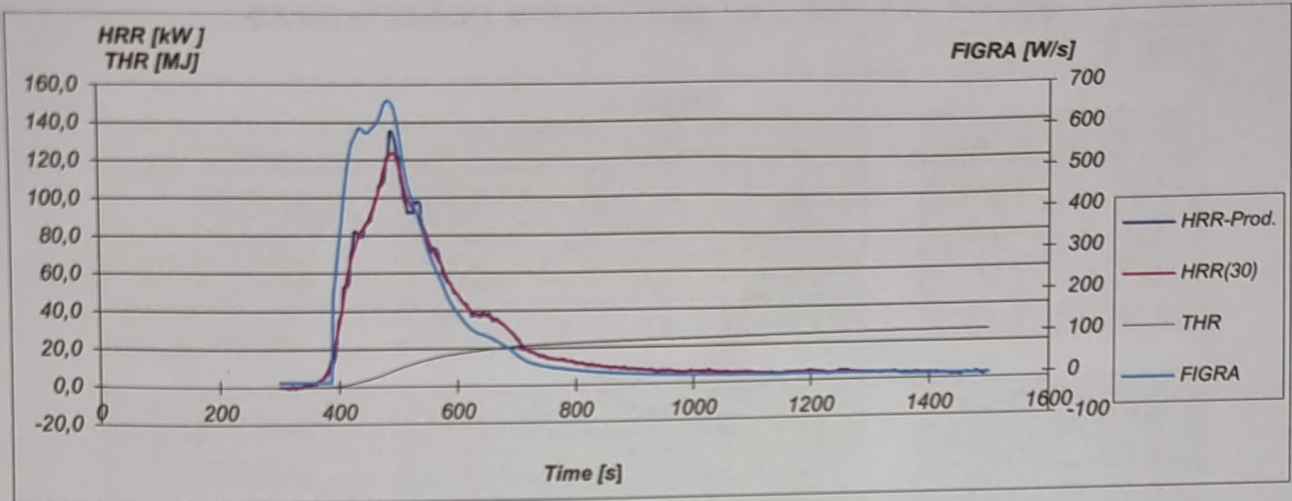
### Graphs of classification parameters for the sample № 1



### Graphs of classification parameters for the sample №2



### Graphs of classification parameters for the sample № 3





## Determining the measurement uncertainty in the SBI examination according to CEN/TR 16988

					U	k	$\bar{X} - U$	$\bar{X} + U$
<b>Specimen 1</b>								
FIGRA <sub>0,2MJ</sub>	670,4	±	26,0	2			644,4	696,4
FIGRA <sub>0,4MJ</sub>	670,4	±	26,0	2			644,4	696,4
THR <sub>600s</sub>	19,1	±	0,3	2			18,8	19,4
SMOGRA	166,5	±	4,4	2			162,1	170,9
TSP <sub>600s</sub>	506,8	±	5,6	2			501,2	512,4
<b>Specimen 2</b>								
FIGRA <sub>0,2MJ</sub>	792,3	±	29,7	2			762,6	822,0
FIGRA <sub>0,4MJ</sub>	792,3	±	29,7	2			762,6	822,0
THR <sub>600s</sub>	23,6	±	0,3	2			23,3	23,9
SMOGRA	193,4	±	5,6	2			187,8	199,0
TSP <sub>600s</sub>	625,1	±	6,6	2			618,5	631,7
<b>Specimen 3</b>								
FIGRA <sub>0,2MJ</sub>	662,9	±	25,2	2			637,7	688,1
FIGRA <sub>0,4MJ</sub>	662,9	±	25,2	2			637,7	688,1
THR <sub>600s</sub>	23,5	±	0,3	2			23,2	23,8
SMOGRA	228,7	±	6,7	2			222,0	235,4
TSP <sub>600s</sub>	627,8	±	6,4	2			621,4	634,2
<b>Mean value</b>								
FIGRA <sub>0,2MJ</sub>	708,5	±	148,5	2			560,1	857,0
FIGRA <sub>0,4MJ</sub>	708,5	±	148,5	2			560,1	857,0
THR <sub>600s</sub>	22,1	±	5,2	2			16,9	27,3
SMOGRA	196,2	±	63,4	2			132,8	259,6
TSP <sub>600s</sub>	586,6	±	140,1	2			446,4	726,7

*The result along with his uncertainty is being related exclusively to tested samples. The value cannot be assigned to the uncertainty directly to the level of the product given to the property, since the laboratory doesn't have a knowledge about changeabilities of his population, but only about the tested sample.*



SAMPLING PROTOCOL No .01.....	
1.Name of test item, type	Wall and Floor Tiles, Sandstein (Trawertyn, Travertine)
4. Marking of test item	
4a.Information describing test item	
- Name of Producer: .....	Fliesana e.K.
- Production place (full adress) .....	Fliesana e.K., Eichkamp 15, 24217 Schönberg, Germany
- Sampling place.....	Fliesana e.K., Eichkamp 15, 24217 Schönberg, Germany
- Production line: .....	D01
- Batch number:.....	L00000397
.....	bach size...100 000 qm
- Production date: .....	2020-05-09
- Quantity of test item.....	6 qm
- Other informations.....	
5. Client (Name, adress):	Fliesana e.K. Eichkamp 15 24217 Schönberg Germany
	Sampling Tordai Sascha ..... Name and Surname <i>Tordai</i> ..... Signature
	Place, date Schönberg, Germany, 2022-05-09

Copy of sampling protocol