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Łukasiewicz Institute of Ceramics and Building Materials

AB 054

Total numbers of pages: 2	**Test report No. 1118/25/KG**	Page 1st

SPONSOR	RIVER POWER, s.r.o., ul. Hlubinská 1378/36, 702 00 Ostrava, CZ
AGREEMENT	5L0166G5

TEST METHOD:
PN-EN 13823+A1:2022-12 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item

TEST SAMPLE (Data based on a statement Customer)	Manufacturer	RIVER POWER, s.r.o.
	Tested sample	PSC HP+ coat
	Data on the sampling plan	N/A
	Method of sampling	N/A
	Date and place of sampling	N/A
	Sampling by	N/A
Date of delivered samples		04.08.2025 (Registration number 656/25)
Construction of the test sample		Samples in accordance with the PN-EN 13823:2010 p.5.1
Description of substrate and fixing to the substrate		The product tested on the calcium silicate board according to with EN 13238:2011
Details of conditioning		Storage of the samples in accordance with PN-EN 13238:2011, p. 4.2.
Date of testing		25.08.2025-29.08.2025
Deviations from EN 13823:2010		-

TEST CONDITIONS

Characteristics	***Test sample 1***	***Test sample 2***	***Test sample 3***
Volume flow of the exhaust [m^3/s]	0,50 – 0,65	0,50 – 0,65	0,50 – 0,65
Ambient temperature [°C]	23,09	21,45	22,68
Ambient pressure [kPa]	97,49	98,12	98,14
Ambient relative humidity [%]	46,79	75,57	75,00

RESULTS

No.	***Characteristics***	***Test sample 1***	***Test sample 2***	***Test sample 3***	***Mean value***	***Requirements for class B-s1,d0 by EN 13501-1***
1.	*FIGRA$_{0,2\ MJ}$ [W/s]*	0,00	0,00	0,00	0,00	≤ 120 W/s
2.	*FIGRA$_{0,4\ MJ}$ [W/s]*	0,00	0,00	0,00	0,00	No requirements
3.	THR$_{600s}$ [MJ] total amount of heat during 600 s	0,60	0,84	0,65	0,67	≤ 7,5 MJ
4.	*SMOGRA [m^2/s^2]*	0,00	0,00	0,00	0,00	≤ 30 m^2/s^2
5.	TSP$_{600s}$ [m^2] total amount of smoke emitted during 600 s	2,26	9,17	10,16	7,20	≤ 50 m^2

OBSERVATIONS

No.	***Characteristics***	***Test sample 1***	***Test sample 2***	***Test sample 3***	***Requirements for class B-s1,d0 by EN 13501-1***
6.	LFS – propagation of flame(+/-)	-	-	-	< Edge of sample
7.	Falling flaming droplets and particles burning no longer than 10 s after falling (+/-)	-	-	-	Do not occure
8.	Falling flaming droplets and particles burning no longer than 10 s after falling (+/-)	-	-	-	Do not occure
9.	Short-therm flame on surface (+/-)	-	-	-	No requirements
10.	Falling part of the test piece (+/-)	-	-	-	No requirements
11.	The smoke is not coming to the hood (+/-)	-	-	-	No requirements
12.	Damage to the rear panels (+/-)	-	-	-	No requirements
13.	Deformation / destruction of the test piece (+/-)	-	-	-	No requirements
14.	Premature termination of the test (+/-)	-	-	-	No requirements

Comments and observations made during research: -

Annexes

1. Photographs showing the attachment of the sample
2. Graphs of parameters for classifying samples 1
3. Graphs of parameters for classifying samples 2
4. Graphs of parameters for classifying samples 3

The test results refer to the behaviour of product samples for testing in specific test conditions; cannot be the only criterion for assessing a potential fire hazard.
The results apply to test sample, only. Without written agreement of laboratory the test report can be copy entirely only.

Kraków, 10.09.2025

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mgr inż. Karolina Czekaj

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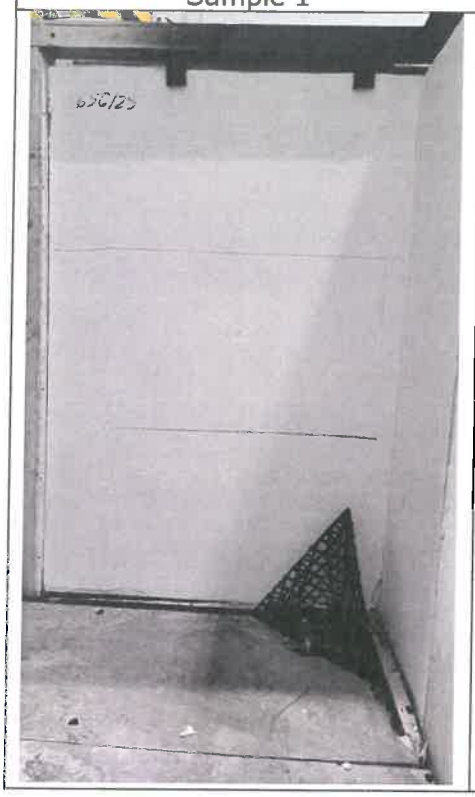
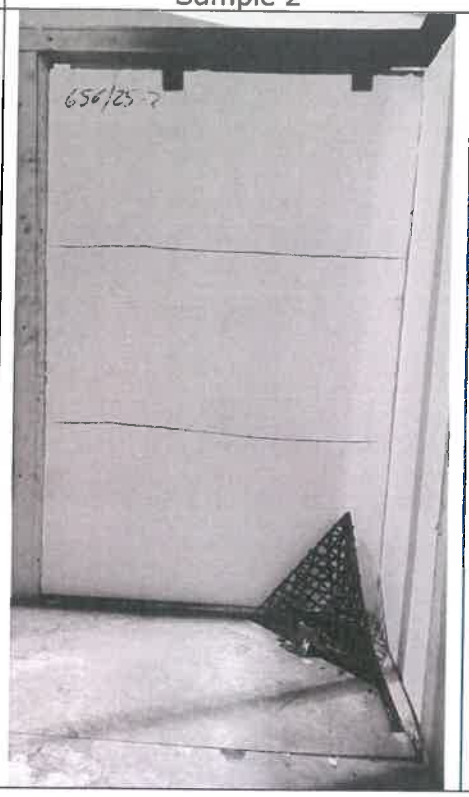
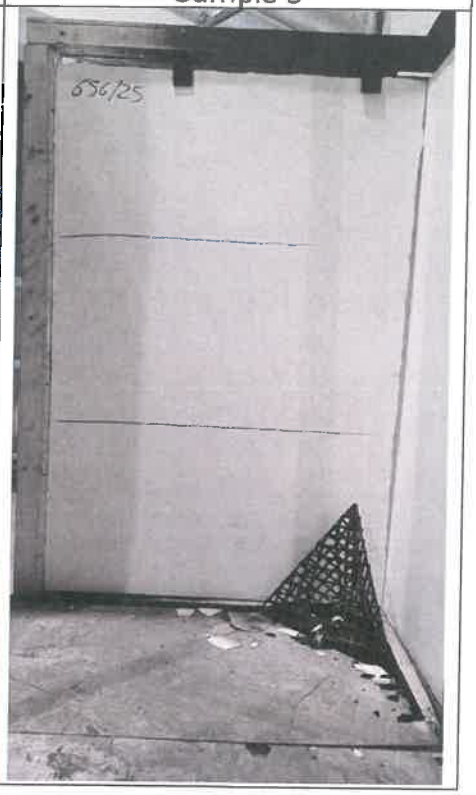
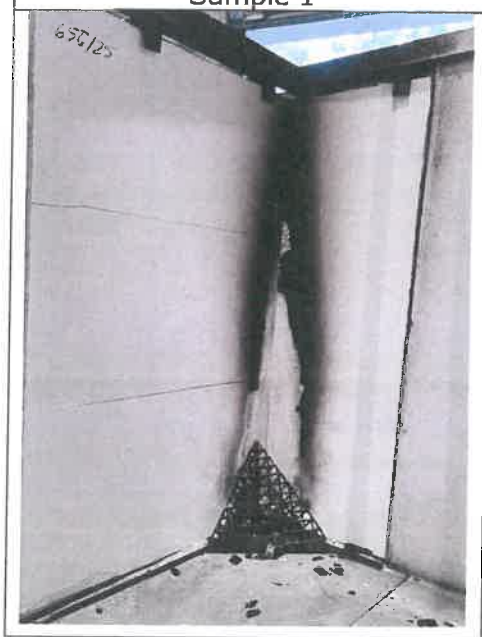
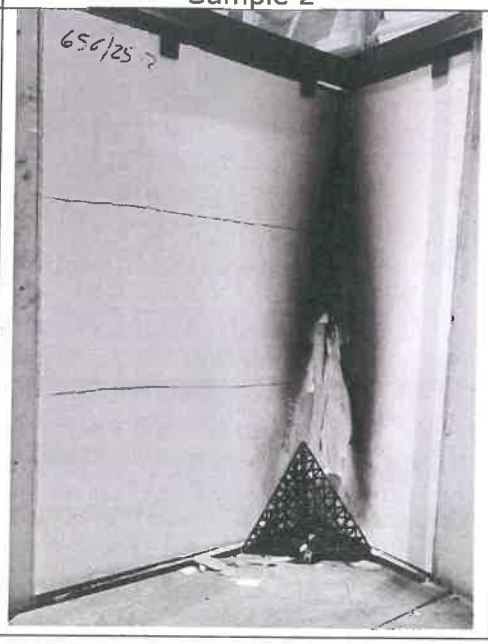
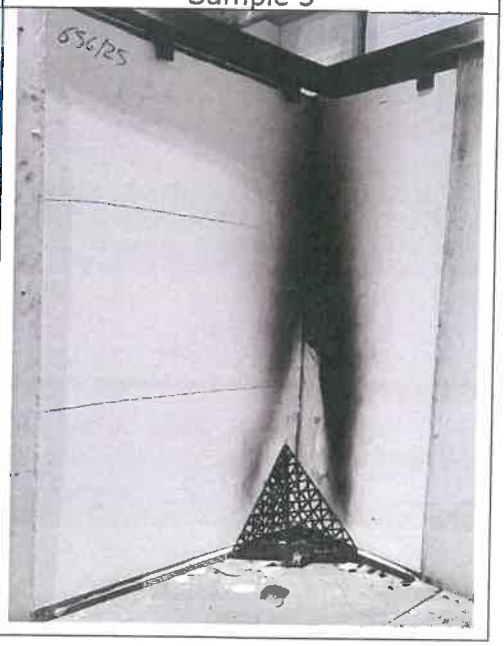
mgr inż. Sara Gołębiowska

View of the heated long wing surface

Sample 1	Sample 2	Sample 3
		

View of the vertical outer edge of a long wing of 500 mm above the floor of truck

Sample 1	Sample 2	Sample 3
		

END OF ANNEX 1

Kraków, 25-08-25 14:33:44

Instytut Ceramiki i Materiałów Budowlanych
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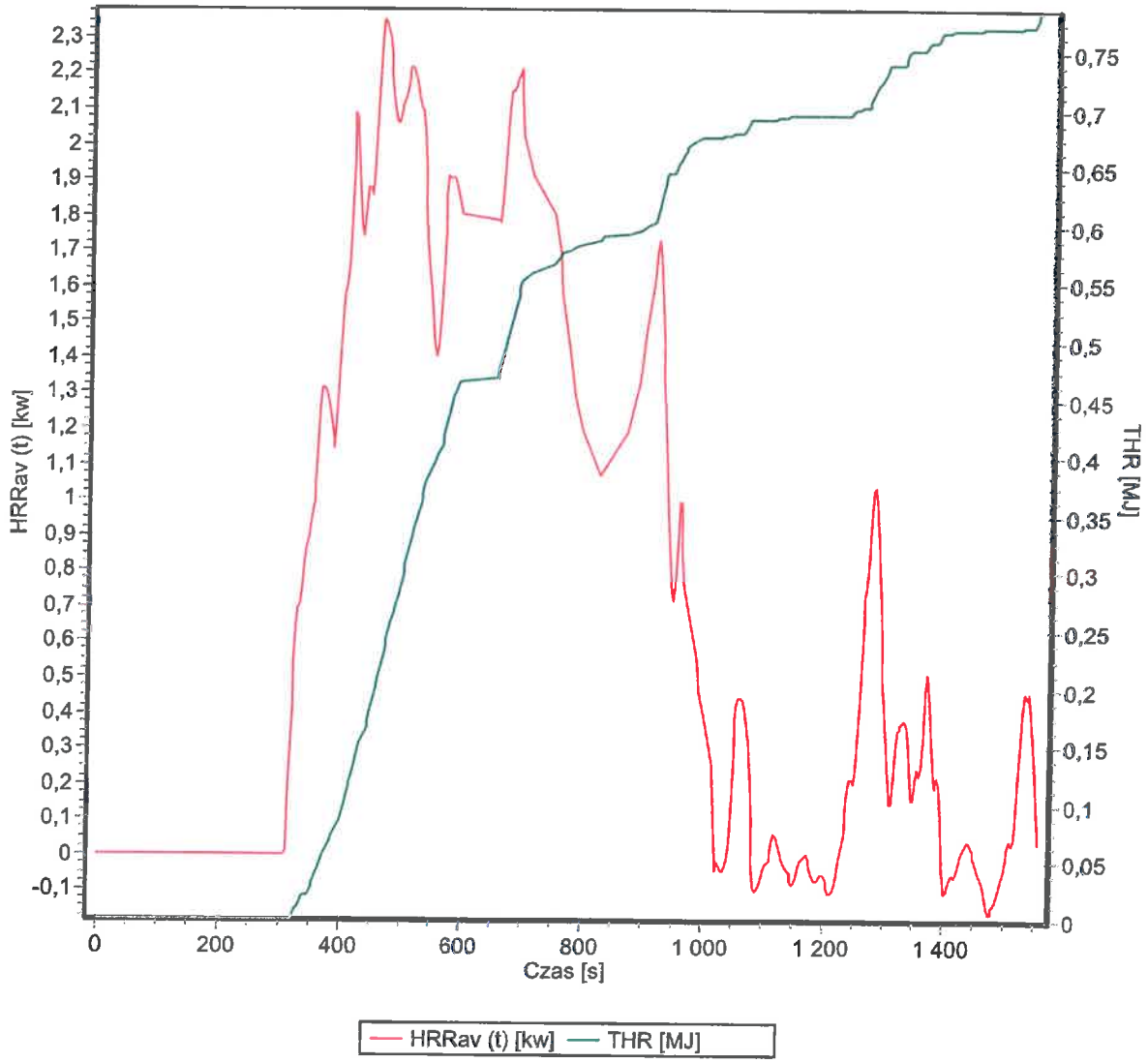
31-983 Kraków
Rejestr zdarzń badania w komorze SBI
Identyfikator: SBI_25-08-25_8

Wykres HRR oraz THR



THR 600s: 0,60[MJ]

Kraków, 25-08-25 14:33:44

Instytut Ceramiki i Materiałów Budowlanych
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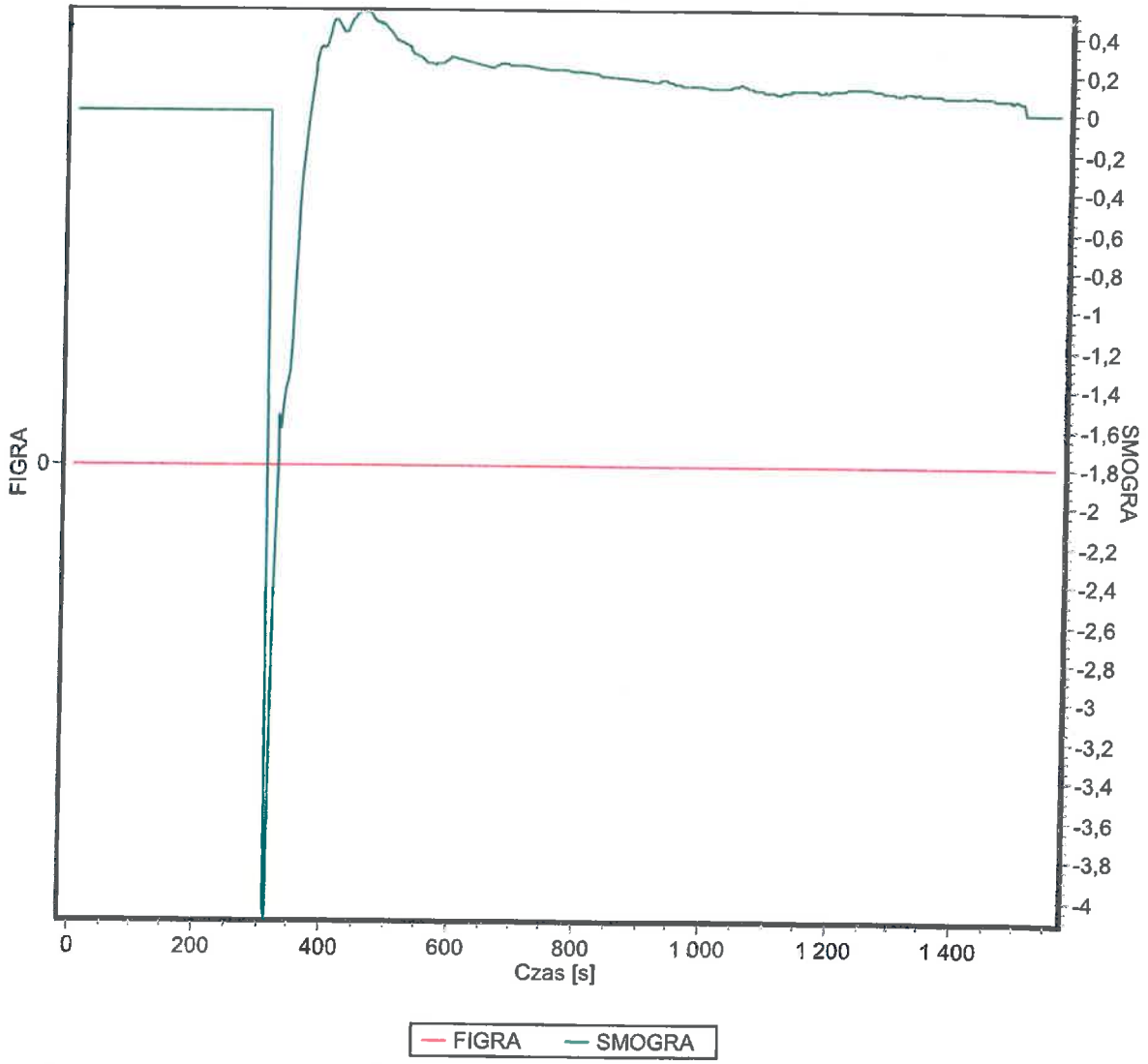
31-983 Kraków
Rejestr zdarzń badania w komorze SBI
Identyfikator: SBI_25-08-25_8

Wykres HRRav(t)/(t-300) oraz SPRav(t)/(t-300)



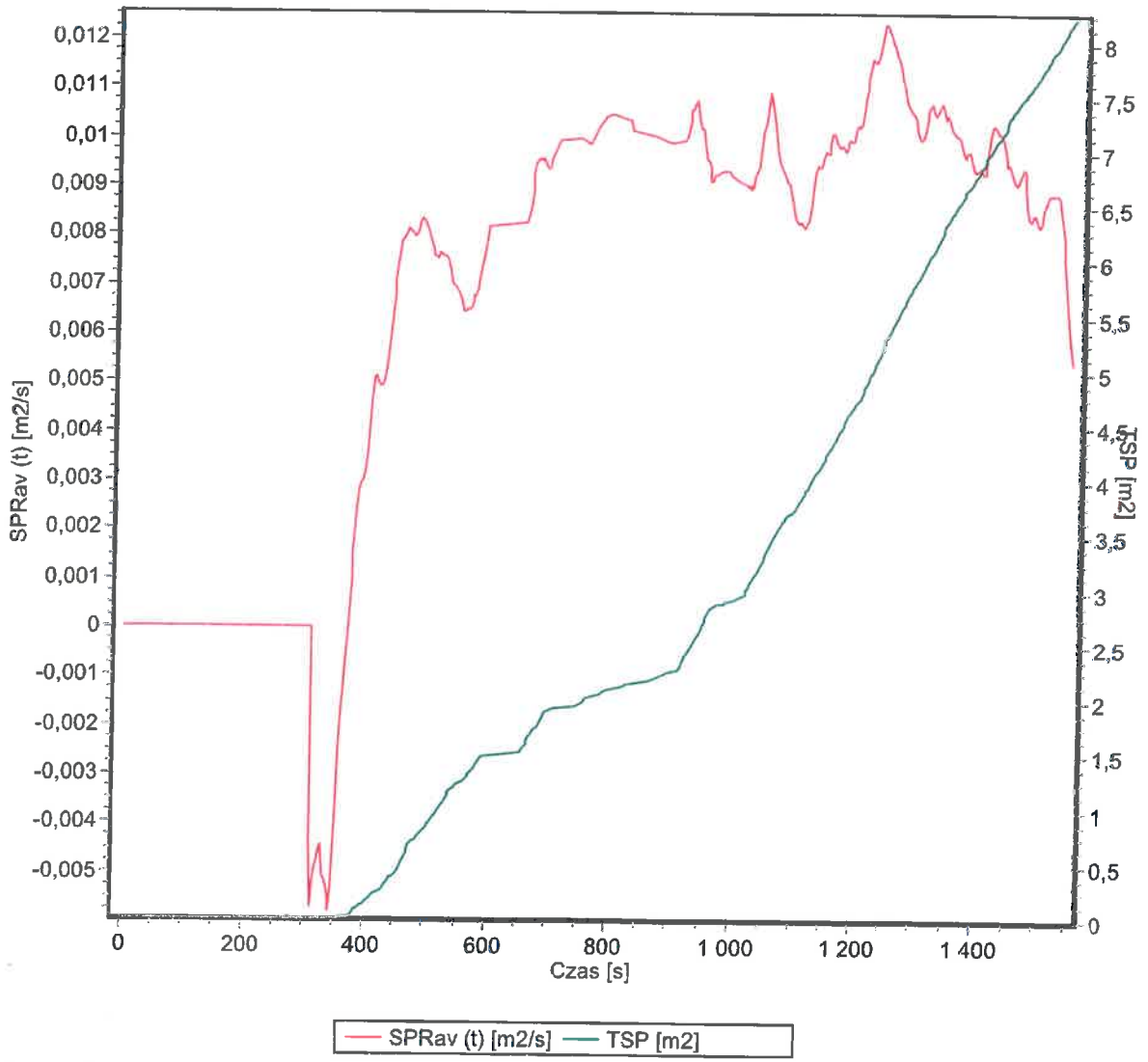
SMOGRA: 0,00[m2/s2]

Kraków, 25-08-25 14:33:44

Instytut Ceramiki i Materiałów Budowlanych
Zakład Gipsu i Chemii Budowlanej
Ul. Cementowa 8
31-983 Kraków

Rejestr zdarzń badania w komorze SBI
Identyfikator: SBI_25-08-25_8

Wykres SPR oraz TSP



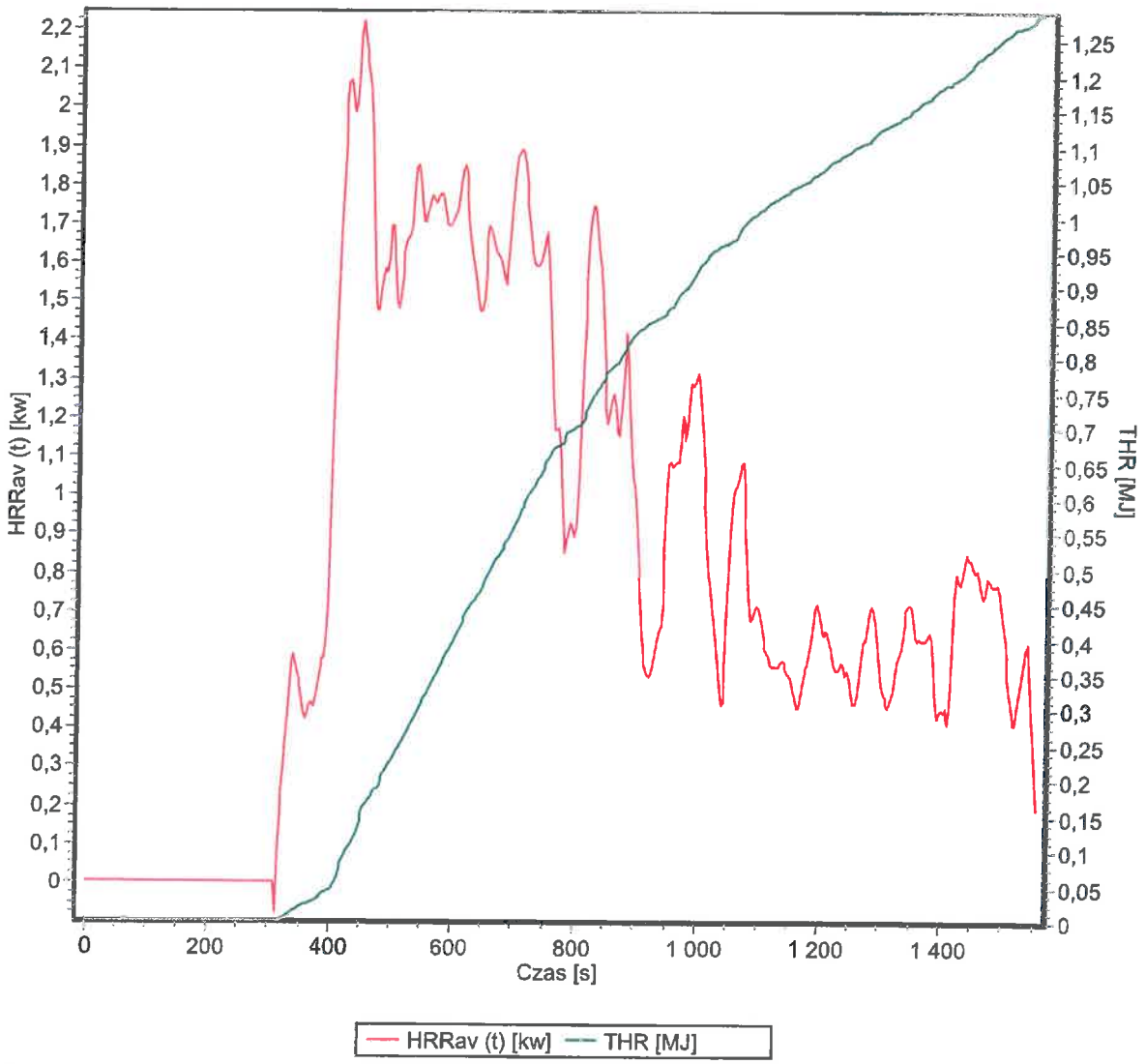
TSP 600s: 2,26[m2]

END OF ANNEX 2

Kraków, 25-08-29 07:50:29

Instytut Ceramiki i Materiałów Budowlanych
Zakład Gipsu i Chemii Budowlanej
Ul. Cementowa 8
31-983 Kraków
Rejestr zdarzń badania w komorze SBI
Identyfikator: SBI_25-08-29_2

Wykres HRR oraz THR



THR 600s: 0,84[MJ]

Kraków, 25-08-29 07:50:29

Instytut Ceramiki i Materiałów Budowlanych
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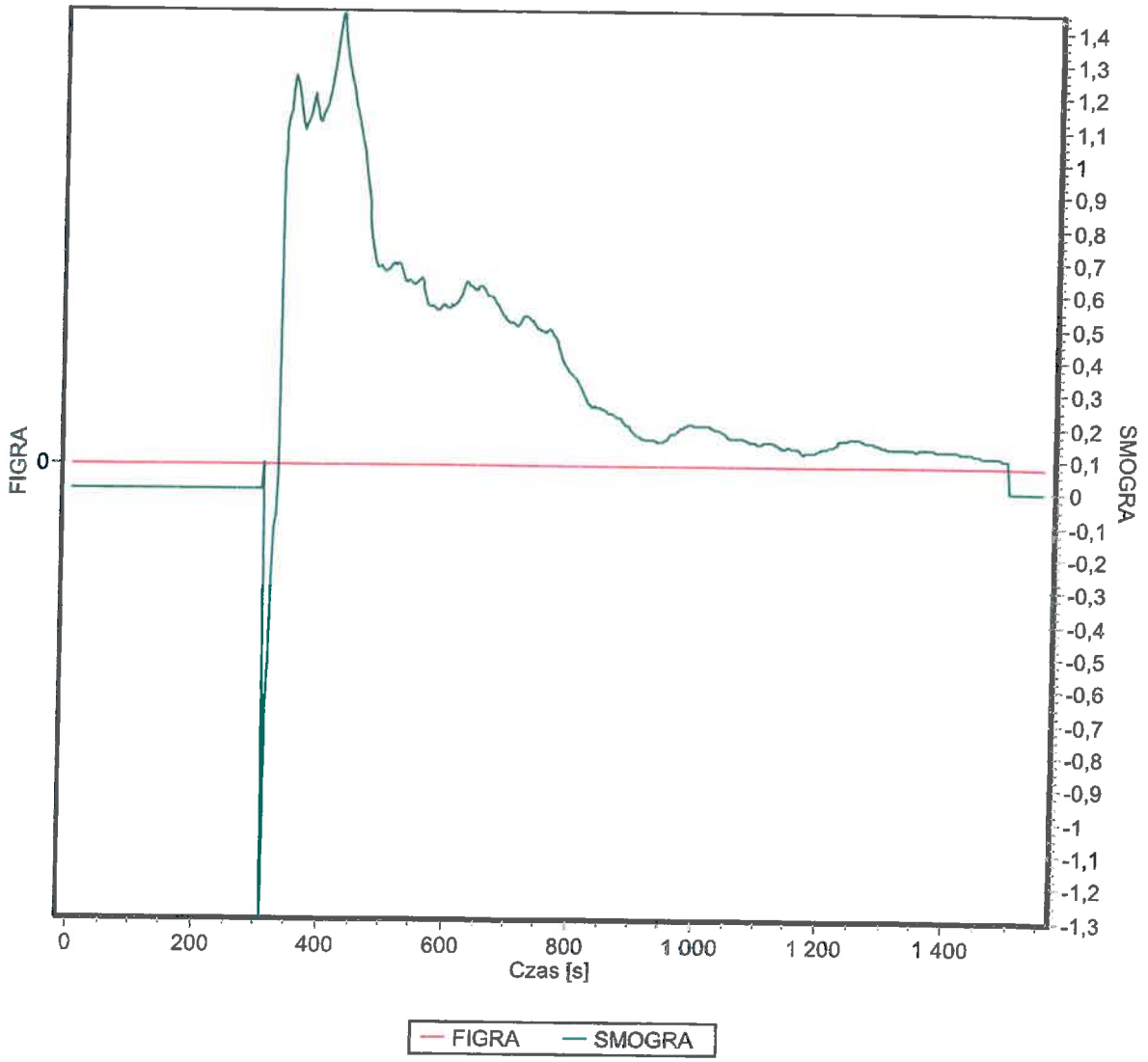
Identyfikator: SBI_25-08-29_2

Wykres HRRav(t)/(t-300) oraz SPRav(t)/(t-300)



SMOGRA: 0,00[m2/s2]

Kraków, 25-08-29 07:50:29

Instytut Ceramiki i Materiałów Budowlanych
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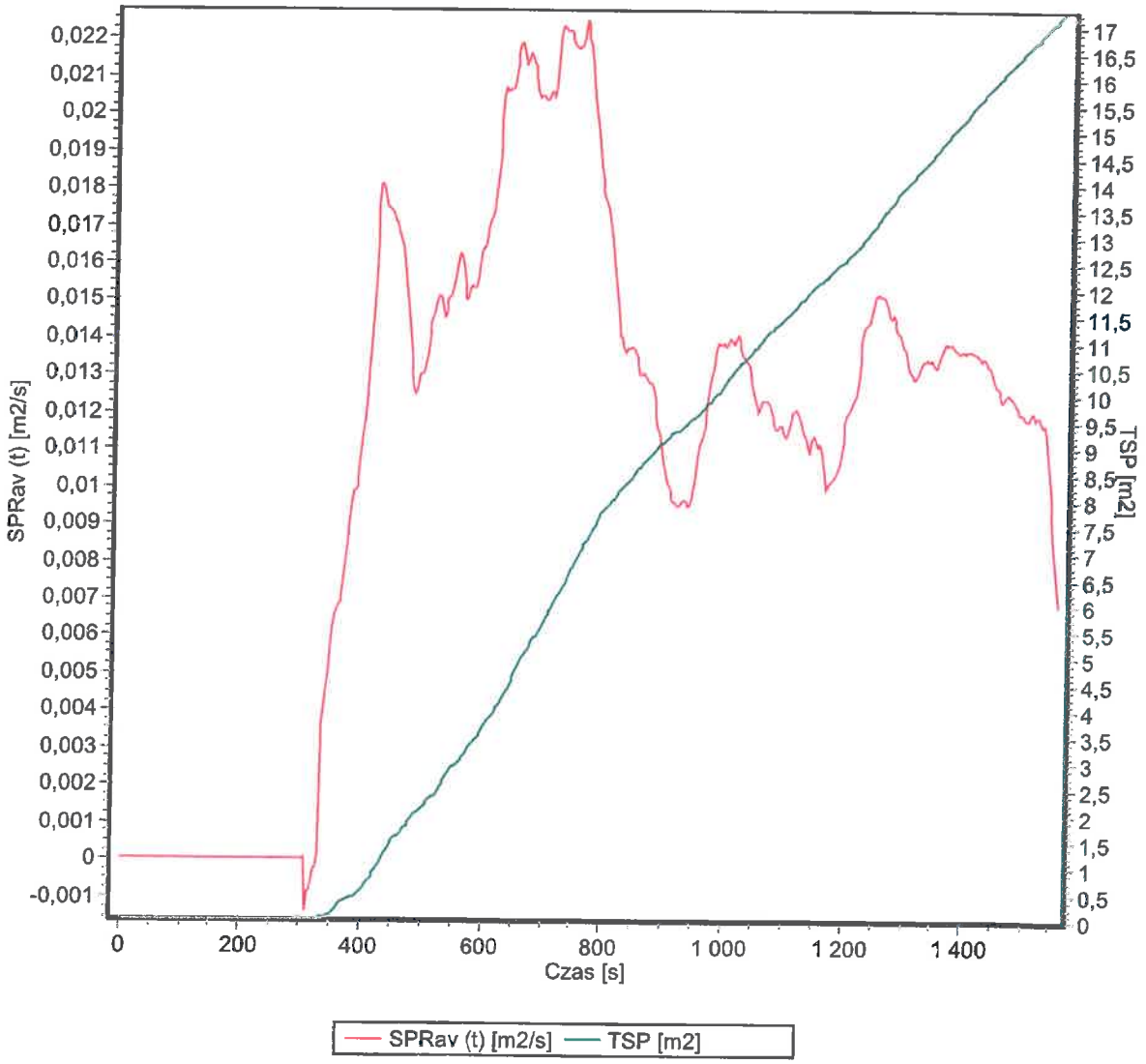
31-983 Kraków
Rejestr zdarzń badania w komorze SBI
Identyfikator: SBI_25-08-29_2

Wykres SPR oraz TSP



TSP 600s: 9,17[m2]

END OF ANNEX 3

Kraków, 25-08-29 08:38:21

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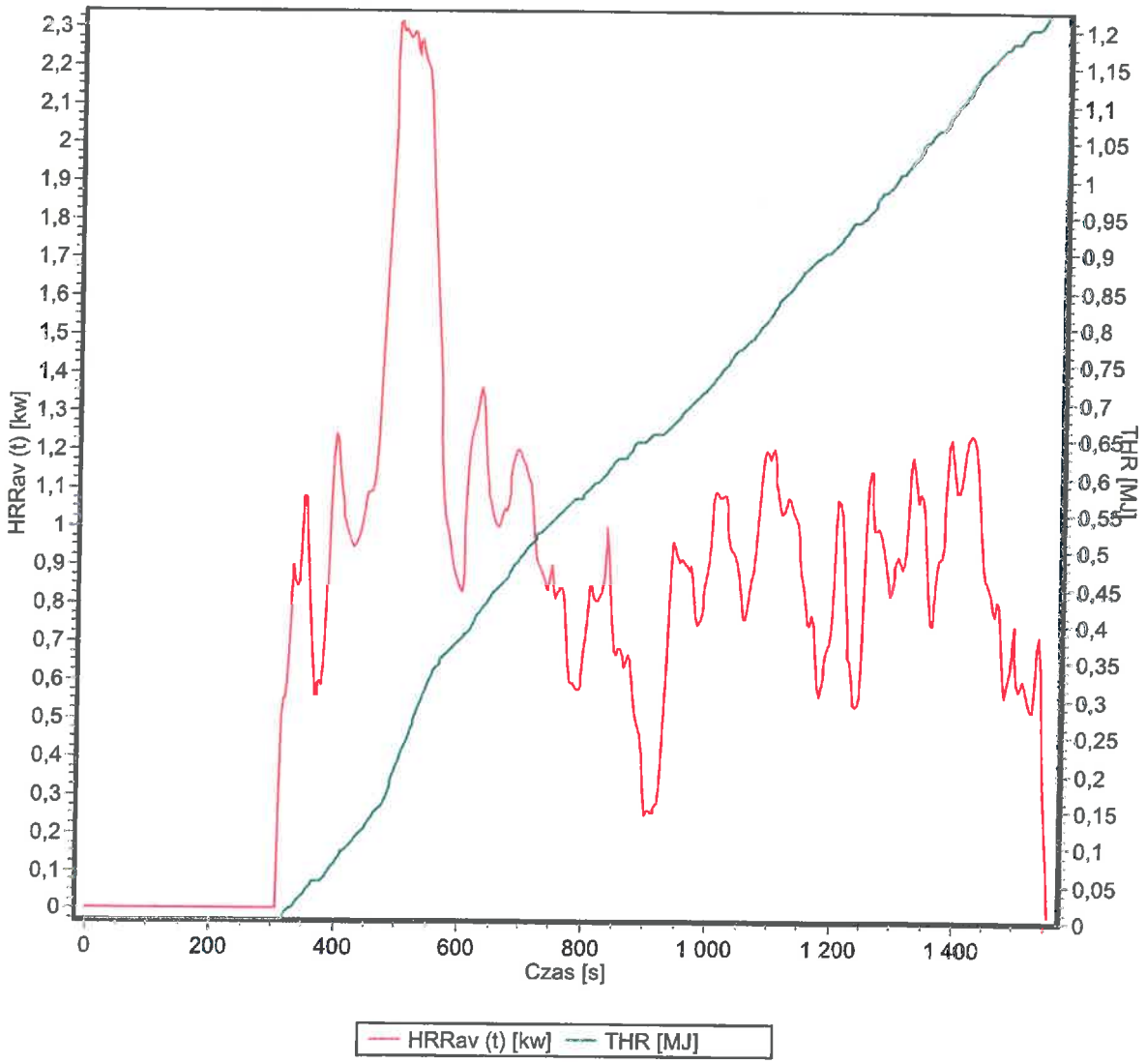
Rejestr zdarzń badania w komorze SBI
Identyfikator: SBI_25-08-29_3

Wykres HRR oraz THR



THR 600s: 0,65[MJ]

Kraków, 25-08-29 08:38:21

Instytut Ceramiki i Materiałów Budowlanych
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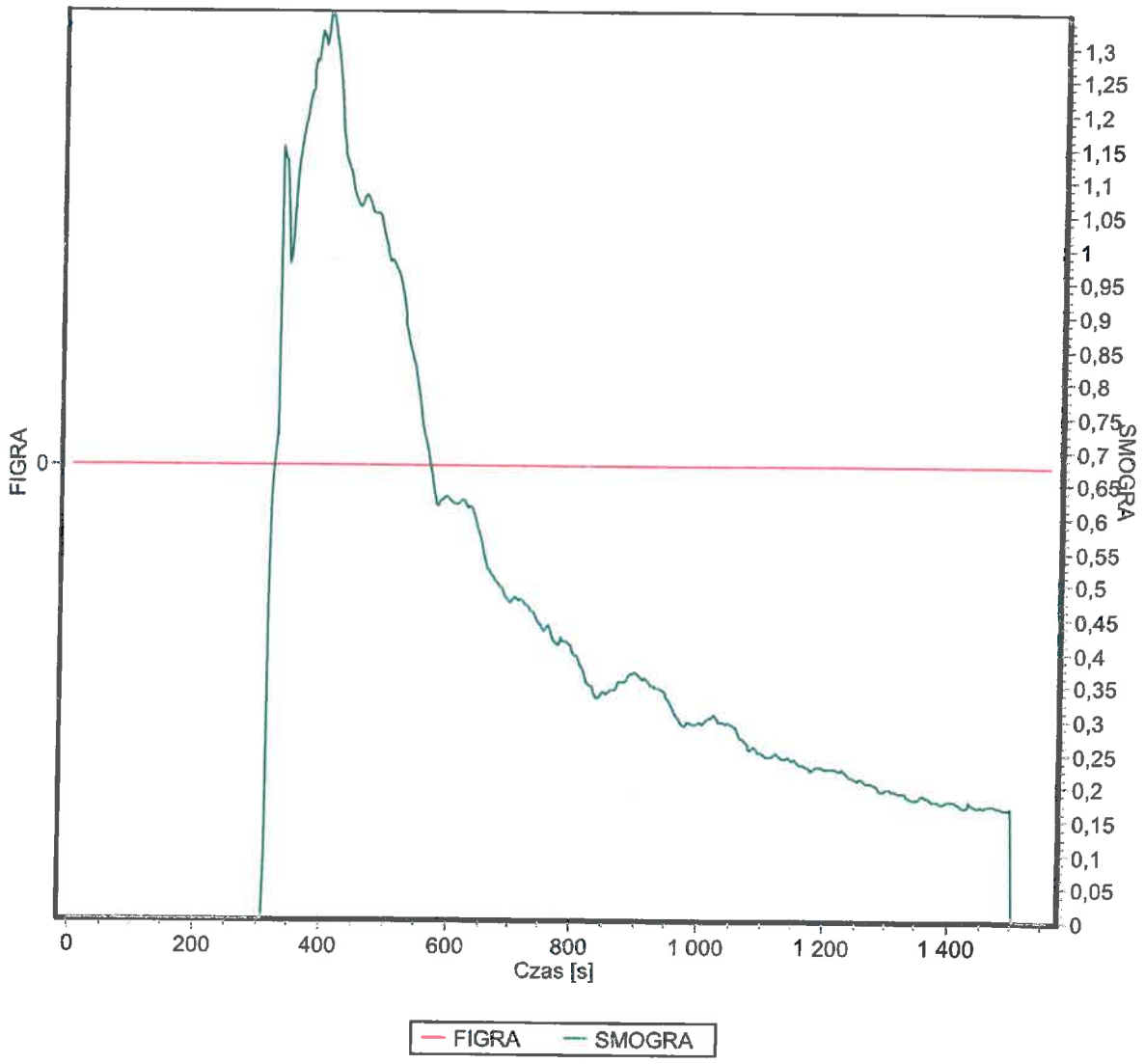
Rejestr zdarzń badania w komorze SBI
Identyfikator: SBI_25-08-29_3

Wykres HRRav(t)/(t-300) oraz SPRav(t)/(t-300)



SMOGRA: 0,00[m2/s2]

Kraków, 25-08-29 08:38:21

Instytut Ceramiki i Materiałów Budowlanych
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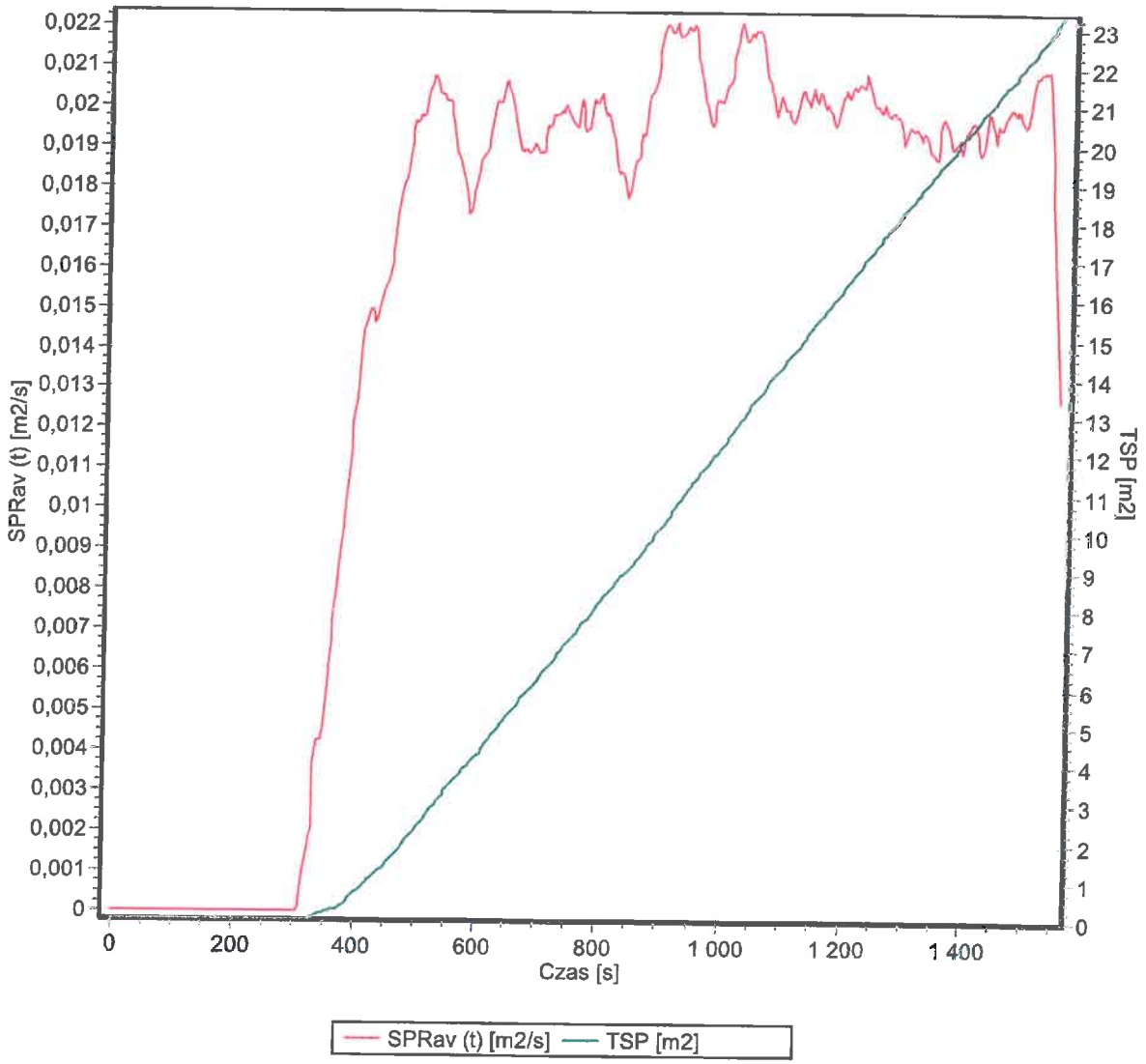
Rejestr zdarzń badania w komorze SBI
Identyfikator: SBI_25-08-29_3

Wykres SPR oraz TSP



TSP 600s: 10,16[m2]

END OF ANNEX 4

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AB 054

Total numbers of pages: 2	**Test report No. 1119/25/KG**	Page 1st

SPONSOR	RIVER POWER, s.r.o., ul. Hlubinská 1378/36, 702 00 Ostrava, CZ
AGREEMENT	5L0166G5

TEST METHOD:
PN–EN ISO 11925-2:2020 Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test

TEST SAMPLE (Data based on a statement Customer)	Manufacturer	RIVER POWER, s.r.o.
	Tested sample	PSC HP+ coat
	Sample description	Construction of the test sample: 1 layer – paint – 2,0 mm 2 layer – base – plasterboard – 12,5 mm
		Total thickness of the sample: 14,5 mm
		Description of substrate and fixing to the substrate: The product tested on the calcium silicate board according to with EN 13238:2011
	Data on the sampling plan	N/A
	Method of sampling	N/A
	Date and place of sampling	N/A
	Sampling by	N/A

Date of delivered samples	04.08.2025 (Registration numer 656/25)
Details of conditioning	Storage of the samples in accordance with PN-EN 13238:2011, p. 4.2.
Date of testing	03.09.2025-04.09.2025

Total numbers of pages: 2	**Test report No. 1119/25/KG**	Page 2nd

RESULTS

No.	Characteristics	Action Surface – duration of exposure 30 s					
		Test sample 1	Test sample 2	Test sample 3	Test sample 4	Test sample 5	Test sample 6
1.	Ignition of sample	Yes	Yes	Yes	Yes	Yes	Yes
2.	Range of flame above 150 mm above the point of application of the flame	No	No	No	No	No	No
3.	Time of flame above 150 mm	–	–	–	–	–	–
4.	Flaming droplets and particles which are the cause ignition of the filter paper	No	No	No	No	No	No

No.	Characteristics	Action Surface – edge – duration of exposure 30 s					
		Test sample 1	Test sample 2	Test sample 3	Test sample 4	Test sample 5	Test sample 6
1.	Ignition of sample	Yes	Yes	Yes	Yes	Yes	Yes
2.	Range of flame above 150 mm above the point of application of the flame	No	No	No	No	No	No
3.	Time of flame above 150 mm	–	–	–	–	–	–
4.	Flaming droplets and particles which are the cause ignition of the filter paper	No	No	No	No	No	No

No.	Characteristics	Requirements for class *B-s1,d0* by EN 13501-1
1.	Range of flame above 150 mm above the point of application of the flame during 30 s	Fs ≤ 150 mm during 60 s
2.	Flaming droplets and particles which are the cause ignition of the filter paper	No flaming droplets and particles which are the cause ignition of the filter paper

Observations

Entrenchment and charring of the specimen during surface and surface-edge exposure.

Comments:

-

The test results refer to the behavior of product samples for testing in specific test conditions; cannot be the only criterion for assessing a potential fire hazard.
The results apply to test sample, only. Without written agreement of laboratory the test report can be copy entirely only.

Kraków, 10.09.2025

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AUTHORIZED

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mgr inż. Sara Gołębiowska

Reaction to fire classification report

1. Introduction

This classification report defines the classification assigned *PSC HP+ coat* produced by *RIVER POWER, s.r.o., ul. Hlubinská 1378/36, 702 00 Ostrava, CZ* accordance with the procedures given in EN 13501-1:2019-02

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Research Network Łukasiewicz- Institute of Ceramics and Building Materials is a Notified Body no. 1487 In the field of reaction to fire

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1:2019-02

Sponsor	*RIVER POWER, s.r.o., ul. Hlubinská 1378/36, 702 00 Ostrava, CZ*
Prepared by	*Research Network Łukasiewicz* *Institute of Ceramics and Building Materials* *Center of Fire Safety and Acoustics* *ul. Cementowa 8a, 31 – 983 Kraków* *Building Chemistry and Fire Safety Research Group*
Notified Body No	*1487*
Product name	*PSC HP+ coat*
Classification report No	*KG – 123/25*
Issue number	*1*
Date of issue	*10.09.2025*
This classification report consists of 3 pages and may only be used or reproduced in its entirety	

2. Details of the classified product

2.1 General

The product, *PSC HP+ coat* produced by *RIVER POWER, s.r.o., ul. Hlubinská 1378/36, 702 00 Ostrava, CZ*

Classification report No	*KG – 123/25*

2.2 Product description

The product, *PSC HP+ coat* is described below or is described in the test reports provided in support of classification listed in 3.1.

Product description
Flexible insulation coating, consumption 2,00-4,00 kg/m²

3. Test reports and test results in suport of classification

3.1 Test reports

Name of Laboratory	***Name of sponsor***	***Test reports Nos.***	***Test method***
Building Chemistry and Fire Safety Research Group Research Network Łukasiewicz – CBPiA, ICIMB in Krakow	*RIVER POWER, s.r.o., ul. Hlubinská 1378/36, 702 00 Ostrava, CZ*	*1118/25/KG*	*PN-EN 13823+A1:2022-12*
Building Chemistry and Fire Safety Research Group Research Network Łukasiewicz – CBPiA, ICIMB in Krakow	*RIVER POWER, s.r.o., ul. Hlubinská 1378/36, 702 00 Ostrava, CZ*	*1119/25/KG*	*PN-EN ISO 11925-2:2020-09*

3.2 Test results

Test method and test number	**Parameter**	**No. tests**	**Results**	
			Continuous parameter – mean (m)	**Compliance with parameters**
PN-EN 13823+A1:2020-12 1118/25/KG of 10.09.2025	*$FIGRA_{0,2\ MJ}$ [W/s]*	*3*	*0,00*	*Not Applicable*
	$FIGRA_{0,4\ MJ}$ [W/s]		*0,00*	*Not Applicable*
	LFS < Edge of the sample		*Not applicable*	*Yes*
	THR_{600s} [MJ]		*0,67*	*Not Applicable*
	SMOGRA [m^2/s^2]		*0,00*	*Not Applicable*
	TSP_{600s} [m^2]		*7,20*	*Not Applicable*
	Flaming droplets/particles		*Not applicable*	*No*
PN-EN ISO 11925-2:2020-09 1119/25/KG of 10.09.2025	*Fs ≤ 150 mm within 60 s*	*12*	*Not applicable*	***Yes***

4. Classification and field of application

4.1 Reference of classification

This classification report is defined in accordance with the procedures given in EN 13501-1:2019-02

4.2 Klasyfikacja

The product, *PSC HP+ coat*, in relation to its reaction to fire is classified:

B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets/particles:

d0

Classification report No	*KG – 123/25*

The format of the reaction to fire classification for construction products, excluding flooring and linear pipe thermal insulation products is:

Fire behaviour		Smoke production			Flaming droplets	
B	*-*	*s*	*1*	*,*	*d*	*0*

Reaction to fire classification: B-*s1,d0*

4.3 Zakres stosowania

This classification is valid for the product *PSC HP+ coat produced by RIVER POWER, s.r.o., ul. Hlubinská 1378/36, 702 00 Ostrava, CZ* which is defined in paragraph 2.2. of this classification.

The classification refers to the product applied to non-flammable substrates classified A1 or A2, s1-d0 in reaction to fire classification.

This classification is valid for the following end consumption application in conformity with the technical conditions the building and its location should meet. In conformity with the regulation of the Minister of Infrastructure as of 12th April 2002 on technical requirements that should be met for buildings and their localization as amended, the classification assigned to the product ***PSC HP+ coat*** defines the product as ***non-flammable, non-dripping.***

5. Limitations

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

This report shall become invalid in the event of any changes in the product or the process of its manufacturing are introduced, or when the system of factory production control is substantially changed.

Specjalista
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mgr inż. Karolina Czekaj

signature of person undertaking classification

Zastępca Lidera
Grupa Badawcza Chemia Budowlana
i Bezpieczeństwo Pożarowe
mgr inż. Sara Gołębiowska

signature of person authorising this report