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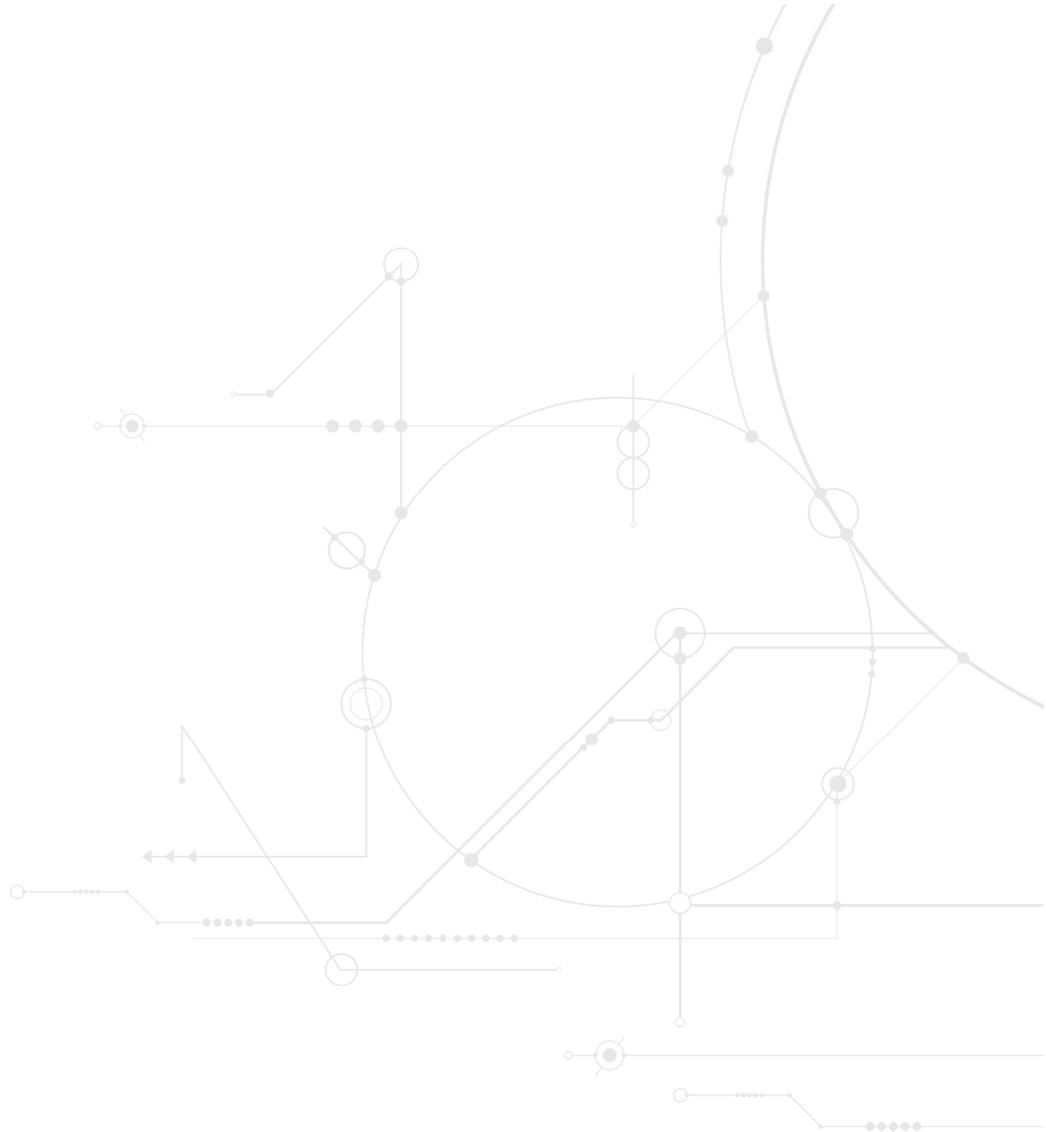
Laboratório de Fumo e Fogo



Reaction to Fire Tests

Classification Report No. LFF.2026.114

PPG Dyrup, S.A.



IPAC is a signatory to the EA MLA and ILAC MRA for testing.
The presented results refer exclusively to tested specimens.
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0. DOCUMENT CONTROL AND IDENTIFICATION

0.1 DOCUMENT IDENTIFICATION

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Document Name	Classification Report No. LFF.2026.114
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0.2 VERSION CONTROL

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1	1	0	2026-03-17	Original version	AM

0.3 AUTHOR(S)

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0.4 REVISER(S)

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0.6 DISTRIBUTION LIST

Name	Entity	Initials
Laboratório de Fumo e Fogo	INEGI	LFF
	PPG Dyrup, S.A.	---

0.7 IDENTIFICATION

Client: PPG Dyrup, S.A.

Address: Estrada Nacional 234, Km 92.7 Aptdo. 23
3524-952 Nelas

Request: Classification according to EN 13501-1:2018

Request Reference: PE30250340

Request Date: 2025-03-21

Material Reference: "HITT HD", white, substrate: fire retardant MDF, class B-s1,d0

Report Date: 2026-03-17

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1. INTRODUCTION

This report concerns the classification of a product, provided by PPG Dyrup, S.A., with the reference "HITT HD", colour white, substrate: fire retardant MDF, class B-s1,d0, using test data from reaction to fire tests, following the procedures given in EN 13501-1:2018.

2. DETAILS OF PRODUCT CONCERNED

2.1 General

Product name: "HITT HD"

Substrate type: fire retardant MDF, class B-s1,d0.

2.2 Product Description

Enamel formulated from an aqueous acrylic emulsion with added polyurethane and rigorously selected pigmentation.

Reception date: 2025-08-06, 2025-10-28, and 2026-02-23

Test date: 2025-09-03, 2025-10-30 and 2026-03-16

3. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

3.1 Reports

Name of the laboratory	Name of the sponsor	Report Ref. Number	Test method	Date
INEGI - LFF	PPG Dyrup, S.A.	LFF.2025.397.01	EN ISO 1716:2018	2025-10-30
INEGI - LFF	PPG Dyrup, S.A.	LFF.2026.114.02	EN 13823:2020 + A1:2022	2026-03-17

Test specimens were conditioned according to EN 13238:2010 before the reaction to fire test.

3.2 Results

Report Ref. Number Test method	Parameter	Number of tests	Results	Compliance with the parameters
LFF.2025.397.01 EN ISO 1716: 2018	PCS "HITT HD"	3	3.27 MJ/m ² @ 212 g/m ²	Compliant
LFF.2026.114.02 EN 13823:2020+A1:2022	FIGRA _{0,2 MJ} (W/s) THR _{600 s} (MJ) Smoke production Flaming droplets	3	116.1 4.4 s1 d0	Compliant Compliant Compliant Compliant

FIGRA: Fire growth rate THR: Total heat release TNR: Threshold not reached

4. CLASSIFICATION

4.1 Reference of classification

This classification has been carried out following EN 13501-1:2018.

4.2 Classification

The product "HITT HD", colour white, substrate: fire retardant MDF, class B-s1,d0, concerning its reaction to fire, is classified as:

Fire behaviour		Smoke Production			Flaming droplets	
A2	-	s	1	,	d	0

4.3 Field of application

This classification is valid for an enamel, with the reference "HITT HD".

5. LIMITATIONS

The selection of the sample sent was the sole responsibility of the client.

The sponsor has supplied all the information regarding the product description in this document, which is at no responsibility of INEGI's laboratory.

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

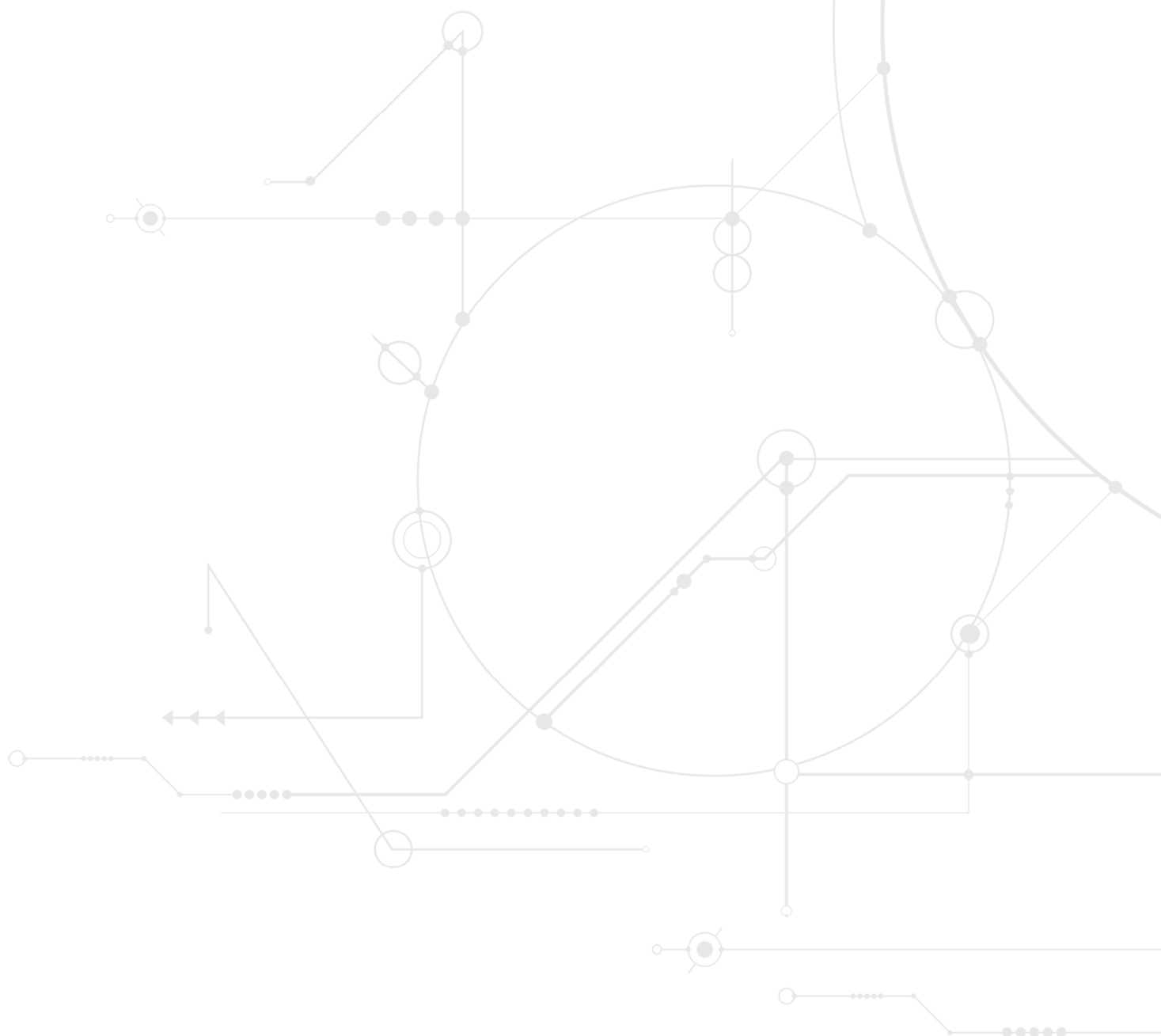
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Porto, March 17th, 2026



Anabela Martins

Laboratory Technical Director



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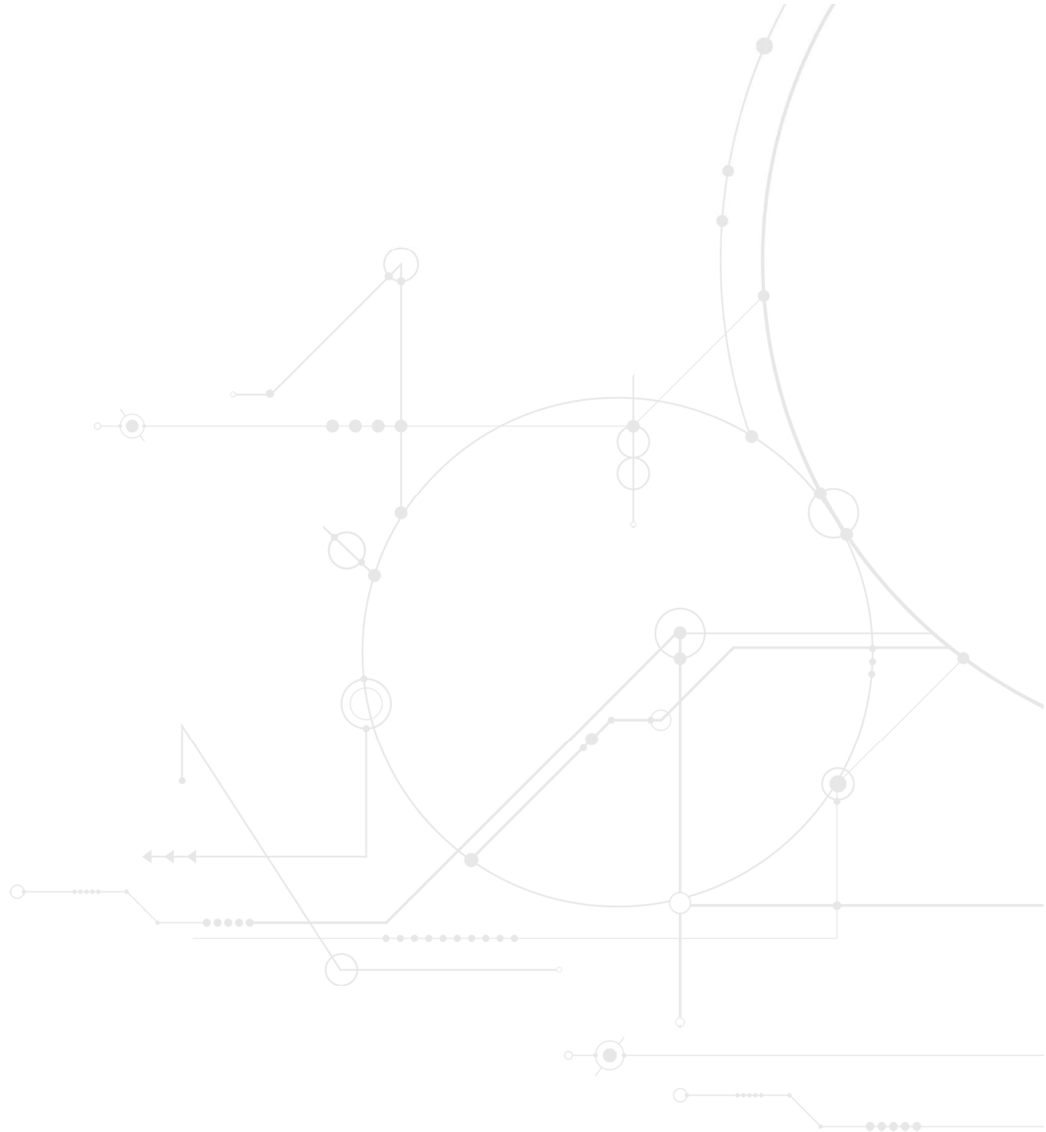
Laboratório de Fumo e Fogo



Reaction to Fire Tests

Extended Application Report No. LFF.2026.029

PPG Dyrup, S.A.



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0.1 DOCUMENT IDENTIFICATION

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1	1	0	2026-02-20	Original version	AM

0.3 AUTHOR(S)

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0.4 REVISER(S)

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0.6 DISTRIBUTION LIST

Name	Entity	Initials
Laboratório de Fumo e Fogo	INEGI	LFF
	PPG Dyrup, S.A.	---

0.7 IDENTIFICATION

Client: PPG Dyrup, S.A.

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2685-038 Sacavém - Portugal

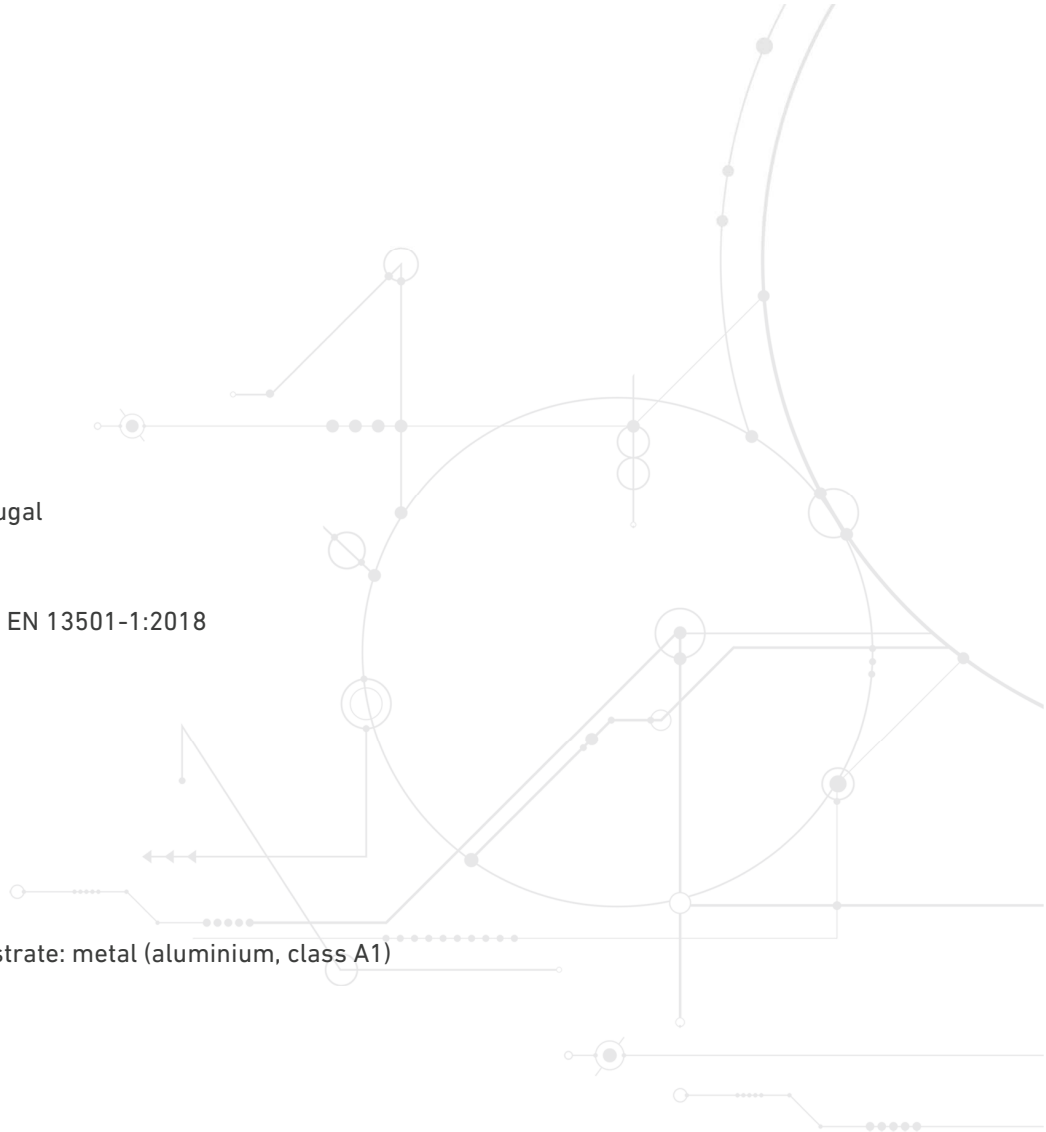
Request: Classification according to EN 13501-1:2018

Request Reference: PE30250340

Request Date: 2025-03-21

Material Reference: "HITT HD", substrate: metal (aluminium, class A1)

Report Date: 2026-02-20



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1. INTRODUCTION

The classification of the product, with the reference "HITT HD", substrate: metal (aluminium, class A1), was based on the test data from reaction to fire tests, in accordance with the procedures given in EN 13501-1:2018.

This extended application report concerns test results obtained in accordance with test methods:

- EN ISO 1716:2018 – Reaction to fire tests – Determination of the gross heat of combustion (calorific value);
- EN 13823:2020+A1:2022 – Reaction to fire tests for building products – Building products excluding floorings exposed to the thermal attack by a single burning item.

The extended application process was conducted in accordance with the normative specification:

- CEN/TS 15117:2005 – Guidance on direct and extended application, and the recommendations of the document;
- EN 15725:2023 – "Extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports".

2. DETAILS OF PRODUCT CONCERNED

2.1 General

Product name: "HITT HD"

Substrate type: Aluminium, class A1, according to the list of standard substrates for construction products, excluding floors, table 1, EN 13238: 2010.

2.2 Product description

Enamel formulated from an aqueous acrylic emulsion with added polyurethane and rigorously selected pigmentation.

Reception date: 2025-10-28 and 2026-01-28

Test date: 2025-10-30, 2026-02-18 and 2026-02-19

3. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS EXTENDED APPLICATION

3.1 Reports

Name of the laboratory	Name of the sponsor	Report Ref. Number	Test method	Date
INEGI - LFF	PPG Dyrup	LFF.2025.397.01	EN ISO 1716:2018	2025-10-30
INEGI - LFF	PPG Dyrup	LFF.2026.029.02	EN 13823:2020 + A1:2022	2026-02-19

The specimens were conditioned in accordance with EN 13238:2010 before fire reaction tests.

3.2 Results

Report Ref. Number Test method	Parameter	Number of tests	Results	Compliance with the parameters
LFF.2025.397.01 EN ISO 1716: 2018	PCS "HITT HD"	3	3.27 MJ/m ² @ 212 g/m ²	Compliant
LFF.2026.029.02 EN 13823:2020+A1:2022	FIGRA _{0.2 MJ} (W/s) THR _{600 s} (MJ) Smoke production Flaming droplets	3	13.4 0.5 s1 d0	Compliant Compliant Compliant Compliant

FIGRA: Fire growth rate THR: Total heat release

4. EXTENDED APPLICATION

4.1 Principles applied for the extension of the field of application

This extended application procedure is based on performing additional tests on a selection of representative samples for the entire product family in accordance with the rules established in the normative specification CEN/TS 15117:2005 and EN 15725:2023.

4.2 Procedure

To state the reaction to fire class based on the results of tests in compliance with EN ISO 1716: 2018 and EN 13823:2020+A1:2022 it was necessary to select representative specimens, which would cover the influence of colour and gloss in the fire performance of the product.

Based on the above-mentioned facts and test results, the tests were carried out with the following representative specimens:

- dark colour, mate; (specimens 027)
- intermediate colour, satin; (specimens 028)
- white colour, bright; (specimens 029)

5. EXTENDED APPLICATION RESULTS

5.1 Application range – product family

This extended application report is valid for products described in clauses 2.1 and 2.2 across all their colour and gloss ranges.

5.2 Fire performance parameters

The product “HITT HD” substrate: metal (aluminium, class A1), concerning its reaction to fire, is classified as:

Fire behaviour		Smoke Production			Flaming droplets	
A2	-	s	1	,	d	0

6. LIMITATIONS

The extended application results relate to the behaviour of a product/product family 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/product family in use.

All the information on this document regarding the product description and application has been supplied by the sponsor at no responsibility of INEGI's laboratory.

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

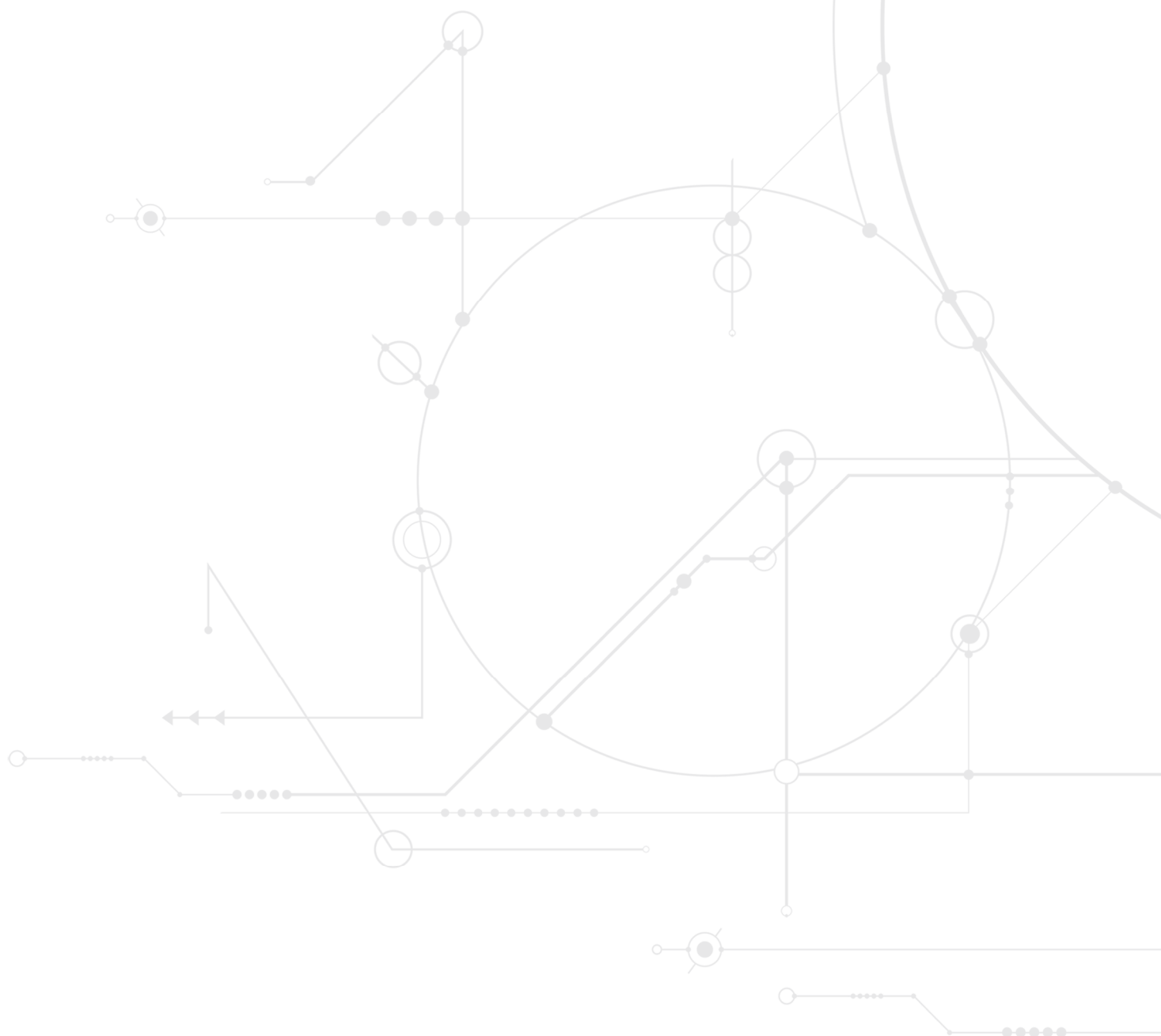
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Porto, February 20th, 2026



Anabela Martins

Laboratory Technical Director



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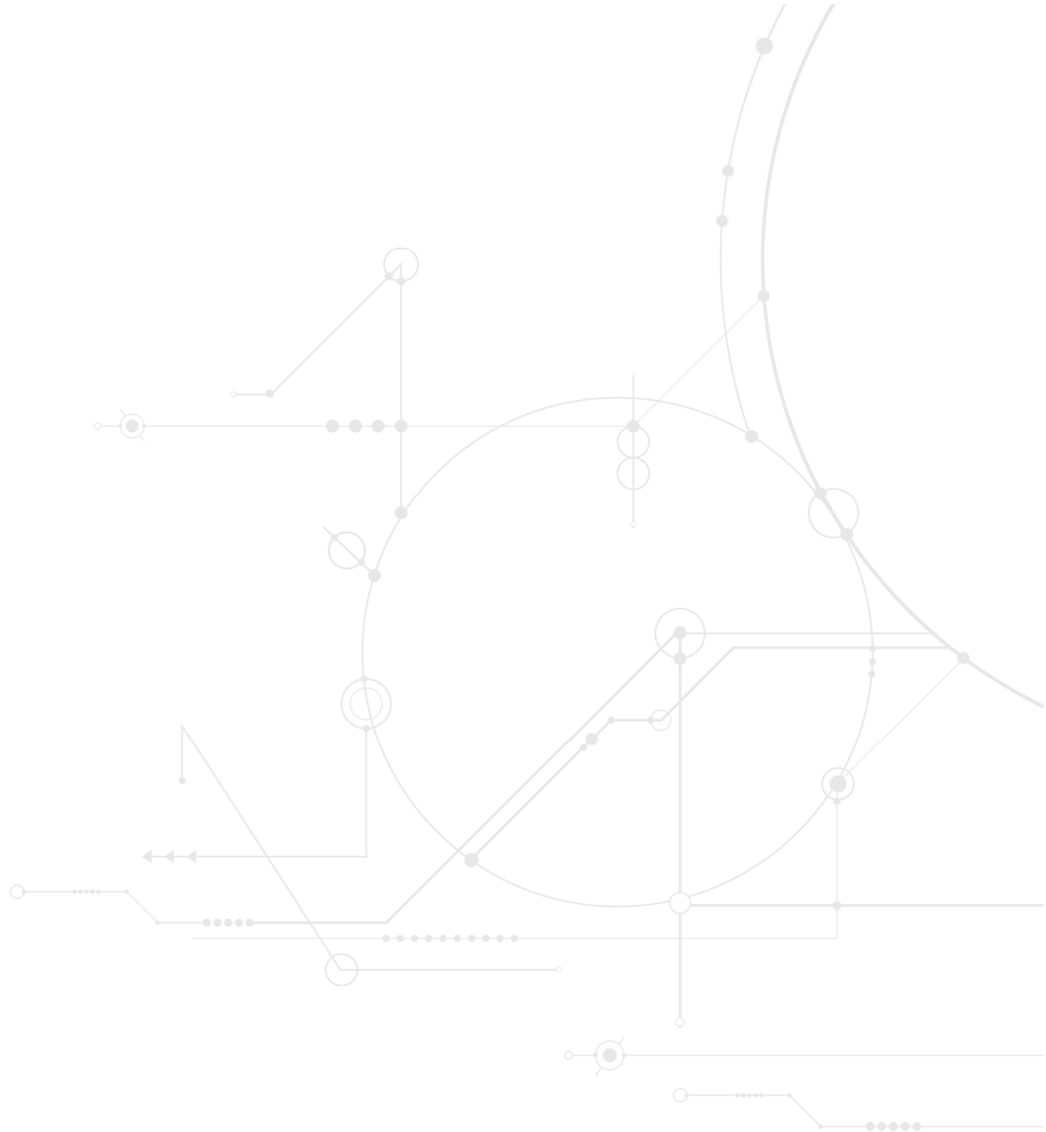
Laboratório de Fumo e Fogo



Reaction to Fire Tests

Extended Application Report No. LFF.2026.053

PPG Dyrup, S.A.



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0. DOCUMENT CONTROL AND IDENTIFICATION

0.1 DOCUMENT IDENTIFICATION

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Anabela Martins - Laboratory Technical Director	INEGI	AM

0.4 REVISER(S)

Name	Entity	Initials

0.5 LABORATORY TECHNICIANS(S)

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Anabela Martins	INEGI	AM

0.6 DISTRIBUTION LIST

Name	Entity	Initials
Laboratório de Fumo e Fogo	INEGI	LFF
	PPG Dyrup, S.A.	---

0.7 IDENTIFICATION

Client: PPG Dyrup, S.A.

Address: Rua Cidade de Goa, 26
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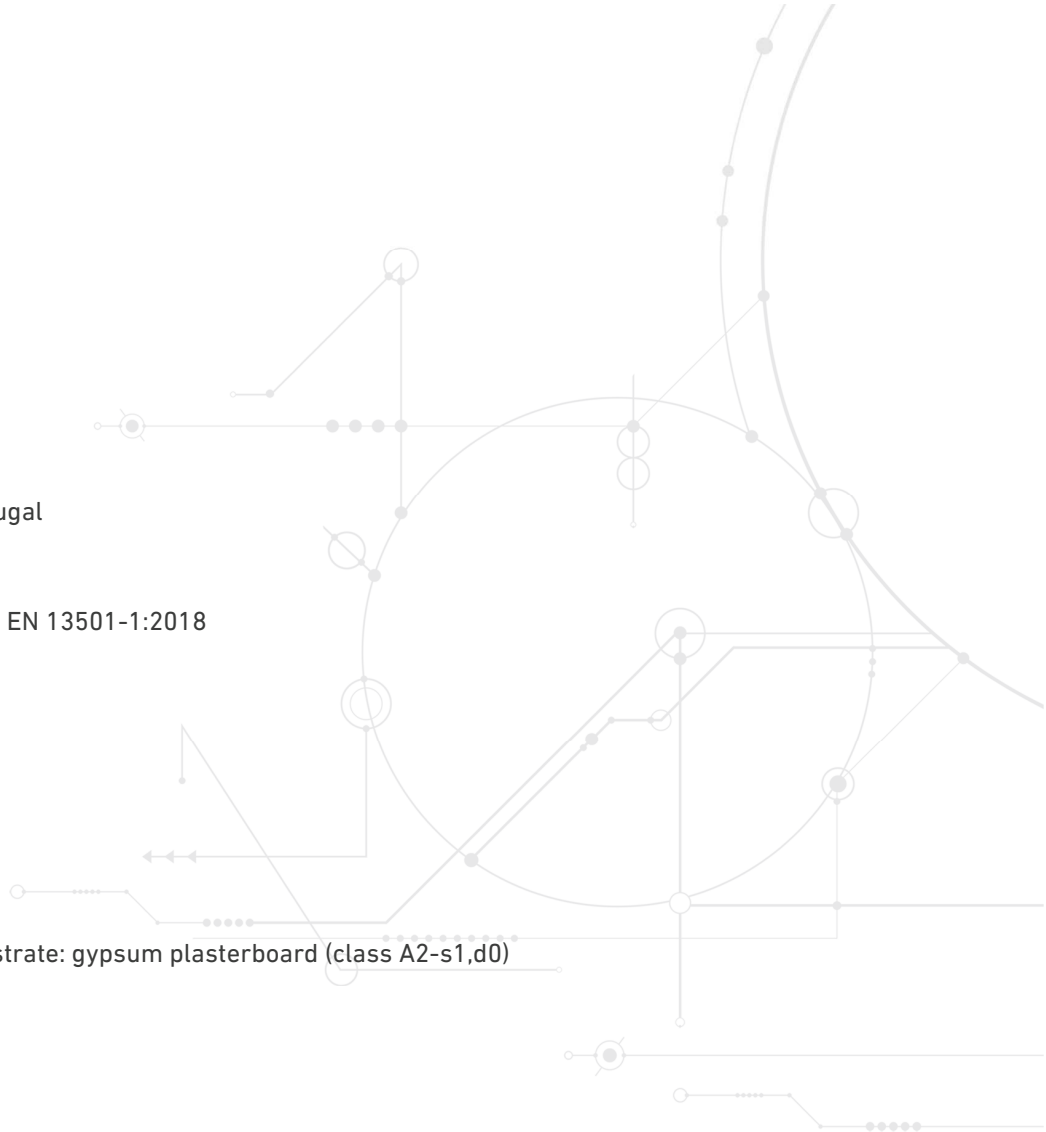
Request: Classification according to EN 13501-1:2018

Request Reference: PE30250340

Request Date: 2025-03-21

Material Reference: "HITT HD", substrate: gypsum plasterboard (class A2-s1,d0)

Report Date: 2026-03-06



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6. LIMITATIONS	9

1. INTRODUCTION

The classification of the product, with the reference "HITT HD", substrate: gypsum plasterboard (class A2-s1,d0), was based on the test data from reaction to fire tests, in accordance with the procedures given in EN 13501-1:2018.

This extended application report concerns test results obtained in accordance with test methods:

- EN ISO 1716:2018 – Reaction to fire tests – Determination of the gross heat of combustion (calorific value);
- EN 13823:2020+A1:2022 – Reaction to fire tests for building products – Building products excluding floorings exposed to the thermal attack by a single burning item.

The extended application process was conducted in accordance with the normative specification:

- CEN/TS 15117:2005 – Guidance on direct and extended application, and the recommendations of the document;
- EN 15725:2023 – "Extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports".

2. DETAILS OF PRODUCT CONCERNED

2.1 General

Product name: "HITT HD"

Substrate type: gypsum plasterboard (class A2-s1,d0), according to the list of standard substrates for construction products, excluding floors, table 1, EN 13238: 2010.

2.2 Product description

Enamel formulated from an aqueous acrylic emulsion with added polyurethane and rigorously selected pigmentation.

Reception date: 2025-10-28 and 2026-02-13

Test date: 2025-10-30, 2026-03-03, 2026-03-04 and 2026-03-05

3. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS EXTENDED APPLICATION

3.1 Reports

Name of the laboratory	Name of the sponsor	Report Ref. Number	Test method	Date
INEGI - LFF	PPG Dyrup	LFF.2025.397.01	EN ISO 1716:2018	2025-10-30
INEGI - LFF	PPG Dyrup	LFF.2026.053.02	EN 13823:2020 + A1:2022	2026-03-05

The specimens were conditioned in accordance with EN 13238:2010 before fire reaction tests.

3.2 Results

Report Ref. Number Test method	Parameter	Number of tests	Results	Compliance with the parameters
LFF.2025.397.01 EN ISO 1716: 2018	PCS "HITT HD"	3	3.27 MJ/m ² @ 212 g/m ²	Compliant
LFF.2026.053.02 EN 13823:2020+A1:2022	FIGRA _{0.2 MJ} (W/s) THR _{600 s} (MJ) Smoke production Flaming droplets	3	89.5 1.4 s1 d0	Compliant Compliant Compliant Compliant

FIGRA: Fire growth rate THR: Total heat release

4. EXTENDED APPLICATION

4.1 Principles applied for the extension of the field of application

This extended application procedure is based on conducting additional tests on a selection of representative samples from the entire product family, in accordance with the rules established in the normative specifications CEN/TS 15117:2005 and EN 15725:2023.

4.2 Procedure

To determine the reaction to fire class based on the results of tests in compliance with EN ISO 1716:2018 and EN 13823:2020+A1:2022, it was necessary to select representative specimens that would cover the influence of colour and gloss on the product's fire performance.

Based on the above-mentioned facts and test results, the tests were carried out with the following representative specimens:

- dark colour, mate; (specimens 051)
- intermediate colour, satin; (specimens 052)
- white colour, bright; (specimens 053)

5. EXTENDED APPLICATION RESULTS

5.1 Application range – product family

This extended application report is valid for products described in clauses 2.1 and 2.2 across all their colour and gloss ranges.

5.2 Fire performance parameters

The product "HITT HD" substrate: gypsum plasterboard (class A2-s1,d0), concerning its reaction to fire, is classified as:

Fire behaviour		Smoke Production			Flaming droplets	
A2	-	s	1	,	d	0

6. LIMITATIONS

The extended application results relate to the behaviour of a product/product family 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/product family in use.

All the information on this document regarding the product description and application has been supplied by the sponsor at no responsibility of INEGI's laboratory.

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

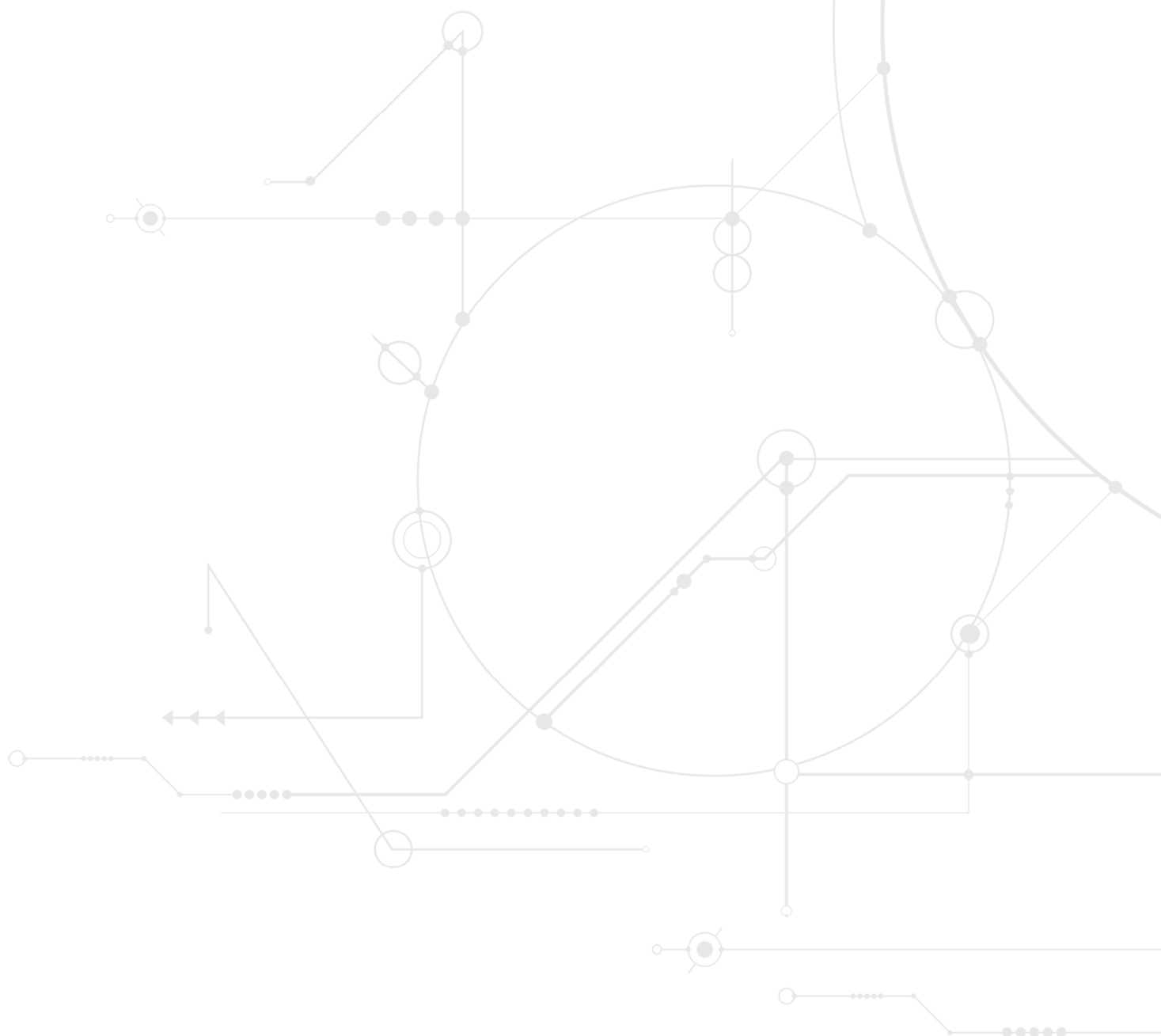
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Porto, March 6th, 2026



Anabela Martins

Laboratory Technical Director



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