

Certificate N°241B/SAFERAIL/002

## PRODUCTION QUALITY ASSURANCE (Module D<sub>RAIL</sub>) CERTIFICATE N° 241B/SAFERAIL/002

Issued by LAPI SPA

Application Of:

Accreditation Scheme SAFERAIL® for EN 45545-2 Railway applications. Fire protection on railway vehicles. Requirements for fire behaviour of materials and components

Applicant/Manufacturer:

**PUGI RG S.r.L.**

Via G. Garibaldi, 33 – 51037 Montale (PT) - Italy

Scope: Products as listed below:

Product name	Product description	Test report ref.
COMETA	Tessuto per tendine ferroviarie	636.1IS0040/15 LAPI



This is to certify that LAPI S.p.A., Certification Body (Accreditation no. 241B), did undertake the relevant quality assessment procedures for the equipments of the manufacturer identified above, which was found to be in compliance with the Fire Protection Requirements of Scheme SAFERAIL® for EN 45545-2:13 Railway applications and with the type described in test report/s listed above and reported in the Attachment to this Certificate, subject to any conditions as described in pertinent test report. On the basis of the above Test Reports the sample of the product tested is **compliant with EN 45545-2 for Hazard Levels HL1 – HL2 requirements set R1.**

This Certificate authorizes the manufacturer, or his authorised representative, to affix the "Mark of Conformity" (SafeRail®), as shown below, and exemplified in the Attachment.



**D RAIL/15**

(15 being the last two digits of the year when the Certification is gained)

This Certificate loses its validity if the Manufacturer makes any changes or modification to the approved quality system, which have not been notified to, and agreed with the Certification Body named on this Certificate and/or after lapse of time, withdrawal or revocation of the test report

This Certificate consists of 1 (one) page and 1 (one) Attachment.

This Certificate has been issued in Prato, on **06/08/2021** and remains valid, unless cancelled or revoked until its expiry date of **05/08/2024**. First issue of this Certificate: 06/08/2015.

**Note:** This Module D<sub>RAIL</sub> must be read in conjunction with the Attachment.

Prato, 06/08/2021

Technical Director

Certification Manager

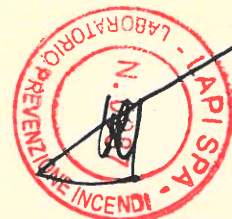
PROPOSED

APPROVED

Dr. Luca Ermini

Dr. Massimo Borsini





**Attachment to Production Quality Assurance (Module D<sub>RAIL</sub>)  
CERTIFICATE N° 241B/SAFERAIL/002**

**List of Products**

Product name	<b>COMETA</b>
Description	Tessuto per tendine ferroviarie
Test Report reference	Report LAPI n°: 636.1IS0040/15 – Judgement: compliant with EN 45545-2 Hazard Levels HL1 – HL2 for requirements set R1
Compliance according to EN 45545-2:2020	R1 - HL1, HL2

**Places of production**

All products are manufactured stored, identified and marked in the site of PUGI RG S.r.L. – Via G. Garibaldi, 33 – 51037 Montale (PT) - Italy.

**Restrictions**

The application of all the above products is subject to all the restrictions specified in the correspondent Test Reports, which must be considered by the Applicant / Manufacturer.

**Note:** This Attachment must be read in conjunction with the cited Module D<sub>RAIL</sub>.

Prato, 06/08/2021

**The Technical Director**

*PROPOSED*

*Dr. Luca Ermini*

**The Certification Manager**

*APPROVED*

*Dr. Massimo Borsini*

===== END OF DOCUMENT =====



**RAPPORTO DI PROVA / TEST REPORT**  
**NO. 636.1IS0040/15 Rev.1**

**METODO DI PROVA:**

Test method

**UNI EN 45545-2: 2013**

**DENOMINAZIONE DELLA PROVA:**

Description of the standard

Requisiti di comportamento al fuoco di materiali e componenti  
 Requirements for fire behaviour of materials and components

**RICHIEDENTE:**

Sponsor

**PUGI R.G. S.r.l.**

Via G. Garibaldi, 33/B - 51037 - MONTALE (PT)

**DENOMINAZIONE DEL MATERIALE:**

Denomination of the material

**COMETA**

(Nom. Thick.: 0,5 mm – Nom. Weight: 210 g/m<sup>2</sup>)

**DESCRIZIONE DEL MATERIALE:**

Description of the material

Tessuto di colore grigio.

Grey fabric.



- Questo documento fa riferimento ai Rapporti di Prova no. 636.0IS0100/15, no. 636.1IS0022/15, no. 636.1IS0030/15 e no. 636.1IS0050/15 emessi da questo Laboratorio. Il Laboratorio non è stato coinvolto in nessuna procedura di campionamento della produzione. - This certificate refers to the Test Reports no. 636.0IS0100/15, no. 636.1IS0022/15, no. 636.1IS0030/15 and no. 636.1IS0050/15 issued by this Laboratory. The Laboratory has not been involved in any procedure of sampling of the production.

<b>Prodotto / Product</b> IN8	<b>Tendine ed oscuranti nelle aree passeggeri e nelle aree e nei compartimenti del personale viaggiante</b> <i>Curtains and sunblind in passenger area and staff area, staff compartments</i>				
<b>Requisito / Requirement</b>	R1				
<b>Prove richieste</b> Tests required	<b>EN ISO 5659-2</b> (50 kW/m <sup>2</sup> , Smouldering)		<b>EN ISO 5658-2</b>	<b>EN ISO 5659-2</b> Annex C	<b>EN ISO 5660-1</b> (50 kW/m <sup>2</sup> )
<b>Parametro / Parameter</b>	Ds (4)	VOF <sub>4</sub>	CFE (kW/m <sup>2</sup> )	CIT <sub>G</sub>	Marhe (kW/m <sup>2</sup> )
<b>Valori trovati / Values found</b>	146	400	>49.5	CIT <sub>G</sub> (4min) = 0.16 CIT <sub>G</sub> (8min) = 0.31	58.3
<b>Limiti di accettazione</b> Acceptance limits	HL1 < 600 HL2 < 300 HL3 < 150	HL1 < 1200 HL2 < 600 HL3 < 300	HL1 > 20 HL2 > 20 HL3 > 20	HL1 < 1.2 HL2 < 0.9 HL3 < 0.75	HL1 --- <sup>(1)</sup> HL2 < 90 HL3 < 60

Legenda ----: Nessun requisito / No requirement

**VALUTAZIONE / JUDGEMENT**

Sulla base dei risultati di prova sopra riportati il materiale in oggetto **È CONFORME** alle richieste di **UNI EN 45545-2: 2013** per i livelli di rischio **HL1 – HL2** del set di requisiti **R1**.

On the basis of the above results the sample in object **COMPLIES** with the requirements of **UNI EN 45545-2: 2013** for Hazard Level **HL1 – HL2** of the requirement set **R1**.

**Nota:** la presente Rev.1 è stata emessa senza ripetizione di prova e differisce dal Rapporto di Prova no. 636.1IS0040/15 emesso il 29/04/2015 esclusivamente per l'estensione della data di scadenza.

**Note:** this Rev.1 has been issued without test repetition; it differs from the Test Report no. 636.1IS0040/15 issued on 29/04/2015 exclusively for the extension of the expiry date.

Prato, 06/08/2021

**Il Responsabile Certificazione**

The Certification Manager

Massimo Borsini

**Il Direttore del Laboratorio**

The Director of the Laboratory

Luca Ermini

Valid until: 05/08/2024 (\*)



Questo documento deve essere letto congiuntamente ai Rapporti di Prova sopra riportati, per la descrizione del prodotto e per ogni altra notizia di dettaglio. Questo documento non costituisce approvazione di tipo né certificazione di prodotto né tantomeno dichiarazione di conformità, che spetta esclusivamente al Produttore / Sponsor. Il riconoscimento Certifer si riferisce alle prove di EN 45545-2 riportate nella lista pubblicata.

This document has to be read in conjunction with the Test Reports listed above, for the description of the product and for every other detail.

This document does not represent type approval or certification of the product neither declaration of compliance, that is exclusively under the responsibility of the Manufacturer or Sponsor. The Certifer approval refers to the tests according to EN 45545-2 reported in the published list.

(\*) Validità riferita alla prescrizione di / Validity referred to the prescription of Reg. (UE) 1302/2014 (12.12.2014) §4.2.10.2.1 (3)