Certificate
Quality Department

SUBJECT: Reference – E527

Trelleborg Izarra, S.A.U. hereby certifies that:

Under the European Norm EN-45545-2 + A1:2016 Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components). carried out in an external Laboratory (Crepim – France), report nº DO-20-1785\A-R1, dated on 5th of May 2020.

Our reference E527 is classified as HL3 for requirements R22, R23 and R24, from 1 mm up to 12 mm.

Hazard Level have been determined using a product of the relation between operation (track structure vs evacuation access) and design categories (train model). HL3 is the highest and strict classification in the norm.

Requirement set R22 – Location interior

Test method	Param. - Unit		HL1	HL2	HL3
EN ISO 4589-2	LOI -% Oxygen	Mini	28	28	32
EN ISO 5659-2 25 kW/m²	D_s max.	Maxi	600	300	150
NF X 70-100-1/.2 (600 ºC)	CIT_{NLP}	Maxi	1,2	0,9	0,75

Requirement set R23 – Location exterior

Test method	Param. - Unit		HL1	HL2	HL3
EN ISO 4589-2	LOI -% Oxygen	Mini	28	28	32
EN ISO 5659-2 25 kW/m²	D_s max.	Maxi	-	600	300
NF X 70-100-1/.2 (600 ºC)	CIT_{NLP}	Maxi	-	1,8	1,5

Requirement set R24

Test method	Param. - Unit		HL1	HL2	HL3
EN ISO 4589-2	LOI -% Oxygen	Mini	28	28	32

Izarra (Alava), 23/05/23
on behalf of PA Elastomer Laminates
Quality Department
María Gutiérrez

