

## Customer

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Environmental Lab



Materials Lab



Fire Lab



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**Summary report no. P60-17-8087en****Fire testing**

Order number: 60-17-0485  
Date: 16.10.2017  
Editor: Mr. Breuhahn  
Documentation: bu

This report consists of  
3 page(s) and 0 enclosure(s).

Fon: 03302 49982 60

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**Delivery date specimen:** 13.09.2017

**Test date:** 04.10.2017 until 12.10.2017

**Test specimen:** PYRO-SAFE DG-CR SK 1.5

**Test specification:** Test methods of requirement set R1/R7 according to DIN EN 45545-2 (02/2016) „Railway applications – Fire protection on railway vehicles – Part 2: Requirements for fire behavior of materials and components“

**Objective:** Evaluation according to DIN EN 45545-2 (02/2016) Requirement set R1/R7 (see table 5 – Set of material requirements)

**Test results:** **With the obtained test results, the material reached a Hazard Level 3 (HL3) for the requirements R1 / R7.**

**Remark:** The classification is valid only in conjunction with the test reports listed on page 2. Please refer to the test reports for details.

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**Stefan Harder**  
Head of Fire Lab

The results refer only to the specimens mentioned above.  
This Test Report must always be copied entirely. Any copying of extracts and publication require the prior consent of the Laboratory.

## 1 Details about the specimens

### Material or combination of materials:

1,0 mm aluminium plate – fire protection fabric, adhesive side glued to the plate  
Colour: red

### Manufacturer:

svt Brandschutz Vertriebsgesellschaft mbH International  
Glüsinger Straße 86  
21217 Seevetal  
Germany

### Dimensions of sample:

Ref. test methods:

T02	795mm x 150mm x 2,5mm
T03.01	100mm x 100mm x 2,4mm
T10.01, T10.02, T10.04, T11.01	75mm x 75mm x 2,4mm

### Side of specimen to be tested by flame:

coated side

## 2 Summary of results

The material was tested for use in railway vehicles, requirement set R1/R7 (Table 5 DIN EN 45545 2).

Test report no.	Re-quirement	Re-ference method	Standard	Para-meter	Unit	Result	HL
P60-17-0742en	R1/R7	T02	ISO 5658-2	CFE	kWm <sup>-2</sup>	40,4	3
P60-17-5346en	R1/R7	T03.01	ISO 5660-1	MARHE	kWm <sup>-2</sup>	17,7	3
P60-17-4374en	R1	T10.01	EN ISO 5659-2	Ds(4)	dimensionless	45	3
P60-17-4374en	R1	T10.02	EN ISO 5659-2	VOF4	min	94	3
P60-17-4374en	R7	T10.04	EN ISO 5659-2	Ds (max)	dimensionless	58	3
P60-17-3448en	R1/R7	T11.01	EN ISO 5659-2	CIT	dimensionless	0,38	3

The Hazard Level HL depends on the operation category and design category according to DIN EN 45545-2 Table 1.

Operation category	Design category			
	N: Standard vehicles	A: Automatic vehicles having no emergency trained staff on board	D: Double decked vehicle	S: Sleeping and couchette cars double decked or single deck
1	HL1	HL1	HL1	HL2
2	HL2	HL2	HL2	HL2
3	HL2	HL2	HL2	HL3
4	HL3	HL3	HL3	HL3