



**CLASSIFICATION OF REACTION TO FIRE  
IN ACCORDANCE WITH  
EN 13501-1:2018  
No. 90-23-0518-CR**

**Sponsor:** 3A Composites CORE MATERIALS  
Industrie Nord 29  
5643 Sins  
Switzerland

**Manufacturer:** 3A Composites CORE MATERIALS  
Industrie Nord 29  
5643 Sins  
Switzerland

**Prepared by:** TSUS, n.o.  
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Slovak Republic

**Notified Body No.:** 1301

**Product name:** A rigid polymer foam board **AIREX® T92 FG without WL**

**Classification report No.:** 90-23-0518-CR

**Issue number:** 1

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This classification report consists of four pages and may only be used or reproduced in its entirety.

## 1. INTRODUCTION

This classification report defines the classification assigned to a rigid polymer foam board **AIREX® T92 FG without WL, types T92.80 FG, T92.100 FG, T92.130 FG, T92.150 FG and T92.200 FG** in accordance with the procedure given in EN 13501-1: 2018.

## 2. DETAILS OF CLASSIFIED PRODUCT

### 2.1 GENERAL

The product, a rigid polymer foam board AIREX® T92 FG without WL, types T92.80 FG, T92.100 FG, T92.130 FG, T92.150 FG and T92.200 FG, is defined as:

- composite sandwich core material in structural lightweight applications

### 2.2 PRODUCT DESCRIPTION

The product, AIREX® T92 FG without WL, is described below or is described in the reports provided in support of classification listed in 3.1.

#### Product description

AIREX® T92 FG is a rigid foam board based on PET polymer, without weld lines WL, without facing and coating, of white color, with density range from 80 kg/m<sup>3</sup> to 200 kg/m<sup>3</sup>.

The tests were performed for types with the lowest and the highest density:

#### AIREX® T92.80 FG

Density declared by manufacturer: 80 kg/m<sup>3</sup>

Density measured by testing laboratory: 84,7 kg/m<sup>3</sup>

Thickness of the product measured by testing laboratory: 50,1 mm

#### AIREX® T92.200 FG

Density declared by manufacturer: 200 kg/m<sup>3</sup>

Density measured by testing laboratory: 203,1 kg/m<sup>3</sup>

Thickness of the product measured by testing laboratory: 50,2 mm

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

### 3.1 REPORTS

No.	Name of laboratory	Name of sponsor	Test report No.	Test method and date
[1]	TSUS n.o. Bratislava, Slovak Republic	3A Composites CORE MATERIALS Industrie Nord 29, 5643 Sins Switzerland	90-23-0317, 21. 12. 2023	STN EN ISO 11925-2: 2021
[2]	TSUS n.o. Bratislava, Slovak Republic	3A Composites CORE MATERIALS Industrie Nord 29, 5643 Sins Switzerland	90-23-0317, 21. 12. 2023	STN EN ISO 11925-2: 2021

Notices: Test specimens were conditioned according to EN 13238 before the reaction to fire tests.

### 3.2 RESULTS

No.	Test method and test number	Parameter	Number of tests	Results	
				Continuous parameter - mean (m)	Compliance with parameters
[1]	STN EN ISO 11925-2 surface/edge exposure <sup>1)</sup> Exposure = 15 s (total time 20s)	F <sub>s</sub> ≤ 150 mm within 20 s	12	Not applicable	Compliant
		No ignition of the paper		Not applicable	Compliant
[2]	STN EN ISO 11925-2 surface/edge exposure <sup>1)</sup> Exposure = 15 s (total time 20s)	F <sub>s</sub> ≤ 150 mm within 20 s	12	Not applicable	Compliant
		No ignition of the paper		Not applicable	Compliant

Note: <sup>1)</sup> The flame was applied to the surface (main surface) and to the edge (bottom side surface) of the test specimens

#### 4. CLASSIFICATION AND FIELD OF APPLICATION

##### 4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11.3 of EN 13501-1: 2018.

##### 4.2 CLASSIFICATION

The product, a rigid polymer foam board **AIREX® T92 FG without WL, types T92.80 FG, T92.100 FG, T92.130 FG, T92.150 FG and T92.200 FG**, in relation to its reaction to fire behaviour is classified:

**E**

The additional classification in relation to smoke production is:

-

The additional classification in relation to flaming droplets / particles is:

-

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

Fire behaviour		Smoke production				Flaming droplets	
<b>E</b>	-	-	-	,	-	-	

**Reaction to fire classification: E**

##### 4.3 FIELD OF APPLICATION

This classification is also valid for the following product parameters:

Type of product	Valid only for the tested type;
Product composition	Change in the product composition is not allowed;
Thickness	The test result is valid for thickness 50 mm and greater;
Density	The test result is valid for apparent density from 80 kg/m <sup>3</sup> to 200 kg/m <sup>3</sup>

## 5. LIMITATIONS

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

The classification is valid provided that the product, field of application and standards and regulations are not changed.

SIGNED:

APPROVED:

Ing. Erika Halčinová  
Head of the Laboratory branch

Ing. Rastislav Kravčák  
Quality Manager of the Laboratory branch

## 5. LIMITATIONS

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