

**Title:**

CLASSIFICATION OF REACTION TO FIRE  
PERFORMANCE  
IN ACCORDANCE WITH  
EN 13501-1: 2018.

**Notified Body No:**

0833

**Product Name:**

"Lucia CS"

**Report No:**

WF 434973

**Issue No:**

1

**Prepared for:**

**Camira Fabrics Ltd**

Meltham Mills  
Meltham Mills Road  
Meltham  
West Yprkshire  
HD9 4AY

**Date:**

30<sup>th</sup> November 2020

## 1. Introduction

This classification report defines the classification assigned to "Lucia CS" a polyester fabric which was tested loose laid over a Rockwool substrate, in line with the procedures given in EN 13501-1: 2018.

## 2. Details of classified product

### 2.1 General

The product, "Lucia CS", is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The product, "Lucia CS", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Polyester fabric tested loose laid over unfaced Rockwool
Fabric	Product reference	"Lucia CS"
	Name of manufacturer	Camira Fabrics
	Composition details	100% Trevira CS flame retardant polyester
	Thickness	1.2mm (stated by sponsor) 1.2mm (determined by Warringtonfire)
	Weight per unit area	265g/m <sup>2</sup> (450g/lin.m) (stated by sponsor) 266.45g/m <sup>2</sup> (determined by Warringtonfire)
	Colour reference	<b>See Note 1 below</b>
	Pattern reference	"Lucia CS"
	Type of weave	<b>See Note 1 below</b>
	Thread count or threads per inch (TPI)	<b>See Note 1 below</b>
	Yarn count	<b>See Note 1 below</b>
	Flame retardant details	<b>See Note 1 below</b>
	Substrate	Product reference
Generic type		Unfaced Rockwool
Name of manufacturer		Knauf
Thickness		25mm
Density		50±20kg/m <sup>3</sup>
	Flame retardant details	The substrate is inherently flame retardant
Mounting and fixing details		The Rockwool substrate was placed onto a calcium silicate board. The fabric was overlaid over the Rockwool, pulled taut and stapled to the rear of the calcium silicate
Brief description of manufacturing process of fabric		Lucia CS has been engineered from 100% Trevira CS yarn and is an inherently flame retardant

**Note 1:** The sponsor was unwilling to provide this information.

### 3. Test reports & test results in support of classification

#### 3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Warringtonfire	Camira Fabrics Ltd	WF 434971	EN ISO 11925-2: 2020
Warringtonfire	Camira Fabrics Ltd	WF 434970	EN 13823: 2020

#### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F <sub>s</sub>	6	-	Compliant Nil mm
	Flaming droplets/ particles		-	Compliant
EN ISO 11925-2 (30s exposure - edge)	F <sub>s</sub>	6	-	Compliant ≤ 40 mm
	Flaming droplets/ particles		-	Compliant
EN ISO 11925-2 (30s exposure - edge turned at 90 degrees)	F <sub>s</sub>	6	-	Compliant ≤ 60 mm
	Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA <sub>0.2MJ</sub>	3	12.02 W/s	-
	FIGRA <sub>0.4MJ</sub>		1.46 W/s	-
	THR <sub>600s</sub>		0.78 MJ	-
	LFS		-	Compliant
	SMOGRA		0.50 m <sup>2</sup> s <sup>2</sup>	-
	TSP <sub>600s</sub>		29.10 m <sup>2</sup>	-
	Fall of Flaming Droplet/Particle?		-	Compliant
	Flaming of Fallen Particle Exceeding 10s?		-	Compliant

#### 4. Classification and field of application

##### 4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1: 2018.

##### 4.2 Classification

The product, "Lucia CS" a polyester fabric which was tested loose laid over a rockwool substrate, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s1**

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

**d0**

The format of the reaction to fire classification for construction applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>B</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>

i.e. **B – s1 , d0**

**Reaction to fire classification: B – s1 , d0**

##### 4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications mechanically fixed in direct contact with a Rock fibre mineral wool insulation substrate with a density of 30-70kg/m<sup>3</sup>, having a thickness of 20-30mm and a fire performance of A1

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product weight per unit area	No variation allowed
Product colour/pattern	No variation allowed
Joint detail	No joints allowed
Product composition	No variation allowed
Product construction	No variation allowed

## 5. Limitations

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

### SIGNED



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**Stacey Deeming**  
Principal Engineer  
Technical Department

### APPROVED



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**Matthew Dale**  
Principal Certification Engineer  
Technical Department  
On behalf of Warringtonfire

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