

**CERTIFICATE OF CLASSIFICATION ACCORDING TO THEIR PROPERTIES OF  
FIRE REACTION OF TEXTILE SUSPENDED ELEMENTS**

**SI Basic Document. Safety in case of fire**

LEITAT – Technological Center

**CERTIFIES**

That the material used as hanged textile element referenced as:

**SCUDO / TUCANO**

Presented by the manufacturer:

**RUE DUMONT GALLOI n°58  
7700, MOUSCRON  
BELGIUM**

and according to the technical report of number certification **IN-02561/2015-C-E** of  
this laboratory and realized on base of the standards:

**UNE EN 1101:96/A1:05 and UNE EN 13772 :11**

**COMPLIES**

The requirements of the Standard **UNE EN 13773:2003**, obtaining a classification:

**CLASS 1**

Terrassa, November 24<sup>th</sup>, 2015



Corporation Development Manager  
Sergi Artigas



Certification Supervisor  
Josep Mª Pallarès i Soler

Firmado digitalmente por JOSE Mª PALLARÉS SOLER  
Nombre de reconocimiento (DN): c=ES, cn=JOSE Mª  
PALLARÉS SOLER, email=josepmpallares@leitat.org,  
serialNumber=39116694W, sn=PALLARÉS SOLER,  
givenName=JOSE Mª,  
1.3.6.1.4.1.17326.30.3=GD0360232,  
o=ACONDICIONAMIENTO TERRASENSE, ou=EPIS-  
CERTIFICACIONES, ou=CERTIFICACIONES,  
title=SUPERVISOR EPIS, 2.5.4.13=Qualified Certificate:  
CAM-PP-SW-RPSC  
Fecha: 2015.11.24 15:19:21 +01'00'

Este certificado está protegido por las mismas  
condiciones que el informe al que hace referencia  
con una validez de 5 años a partir de la fecha de  
emisión.



Acondicionamiento Terrasense  
C/ de la Innovació, 2 - 08225 Terrassa (Barcelona)  
Tel. +34 93 780 23 00 - Fax +34 93 789 19 06  
leitat@leitat.org - http://www.leitat.org

## TECHNICAL REPORT OF CERTIFICATION

Report No.: IN-02561/2015-C-E  
Pages: 2

### PRESENTED SAMPLE

#### Sample description:

A dimout fabric sample, with the following technical characteristics:

Reference or trade name of the product:	SCUDO / TUCANO
Use or final disposal:	Curtains
Composition:	100% Polyester FR
Weight for unit of surface:	260 g/m <sup>2</sup>
Thickness:	0,4 mm
Colour:	Beige

Presentation date: 16/11/15

### REQUESTED TESTS

Technical report No IN-02561/2015-E emitted by LEITAT on November 24<sup>th</sup>, 2.015:

- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. DETAILED PROCEDURE TO DETERMINE THE IGNITABILITY OF VERTICALLY ORIENTED SPECIMENS (SAMLL FLAME).  
Standard UNE EN 1101:96/A1:05
- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE.  
Standard UNE-EN 13772:11

Performance dates: from 16/11/15 to 24/11/15



Technical Responsible  
Gemma Ferrer

Firmado digitalmente por GEMMA FERRER DOMINGO  
Número de reconocimiento IDNº c=ES, o=GEMMA  
FERRER DOMINGO, email=gferre@leitat.org,  
serialNumber=45463042, cn=FERRER DOMINGO,  
givenName=GEMMA, 1.3.6.1.4.1.17313.3.3=ES0116032,  
o=ACONDICIONAMIENTO TARRASENSE, ou=STA-  
TU-FUEGO, title=RESPONSABLE TECNICO FUEGO,  
2.5.4.13=Qualified Certificate CA04-PT-50405C  
Fecha: 2015.11.24 15:18:34 +01'00'

Terrassa, November 24<sup>th</sup>, 2015

Página / Page 1 / 2



**CLASSIFICATION**

- TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. CLASSIFICATION SCHEME  
Standard UNE EN 13773:03

According to the results obtained in the report IN-02561/2015-E

<i>Standard</i>	<i>Criterion</i>	<i>Result</i>
UNE EN 1101:96/A1:05	Ignition	<b>Not ignition</b>
	Not ignition	
UNE EN 1102:96	Third yarn of marking affected	Not apply
	Appearance of the remains of the flame action	
UNE EN 13772:11	First yarn of marking affected	<b>First yarn of marking not affected and there is not remains of the flame action</b>
	Third yarn of marking affected	
	Appearance of the remains of the flame action	

**ACCORDING TO THE POINT 5.2 OF THE STANDARD UNE EN 13773.03 THE CLASSIFICATION OBTAINED FOR THIS MATERIAL IS:**

**CLASS 1**

## TECHNICAL REPORT

Report Nº: IN-02561/2015-E  
Pages: 8

### PRESENTED SAMPLE

#### Sample description:

A dimout fabric sample, with the following technical characteristics:

Reference or trade name of the product:	SCUDO / TUCANO
Use or final disposal:	Curtains
Composition:	100% Polyester FR
Weight for unit of surface:	260 g/m <sup>2</sup>
Thickness:	0,4 mm
Colour:	Beige

Presentation date: 16/11/15

### REQUESTED TESTS

- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. DETAILED PROCEDURE TO DETERMINE THE IGNITABILITY OF VERTICALLY ORIENTED SPECIMENS (SAMLL FLAME).  
Standard UNE EN 1101:96/A1:05
- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE.  
Standard UNE EN 13772:11

Performance dates: from 16/11/15 to 24/11/15



Firmado digitalmente por GEMMA FERRER DOMINGO  
Nombre de reconocimiento (DN): cn=ES, cn=GEMMA  
FERRER DOMINGO, email=gferrer@leitat.org,  
serialNumber=454650342, sn=FERRER DOMINGO,  
givenName=GEMMA, 1.2.6.1.1.1.17326.30.3=608560232,  
o=ACONDICIONAMIENTO TERRASSENSE, ou=STA,  
cu=FUEGO, title=RESPONSABLE TÉCNICO FUEGO,  
2.5.4.13=Qualified Certificate: CAM-PF-SW-KPSC  
Fecha: 2015.11.24 15:17:41 +01'00'

Reaction to Fire Technical Manager  
Gemma Ferrer

Terrassa, November 24<sup>th</sup>, 2015

Página / Page 1 / 7



**DETERMINATION OF THE IGNITABILITY OF VERTICALLY ORIENTED SPECIMENS (SMALL FLAME)**

**Standard UNE EN 1101:1996/A1:2005**

**Scope:** This test aims to determine the ignitability of textile fabrics orientated vertically when they submit to a small and defined flame.

**Equipment used:** Chronometer, Vertical propagation, Anemometer

**Conditioning of the specimens:** 24 hours at 20°C ± 2°C and 65 % ± 5 % h.r.

**Test conditons:**

Pre-treatment: 1 cycle of domestic washing at 30°C and flat dry (UNE EN ISO 6330:2012)
Sample type: Monolayer
Specimen dimensions: 200±2mm x 80±2mm
Number of specimens: 8 in every direction
Test side: Exterior
Test atmosphere : (10-30)°C – (15-80)% Rh
Speed air < 0,2 m/s
Procedure: combustion for the inferior edge, inclined lighter 30°
Type of gas: Commercial propane

**Results obtained:**

N° of specimen	Longitudinal		Transversal	
	Time of flame (s) application	Result (*)	Time of flame (s) application	Result (*)
1	1	0	1	0
2	2	0	2	0
3	3	0	3	0
4	4	0	4	0
5	5	0	5	0
6	10	0	10	0
7	15	0	15	0
8	20	0	20	0

(\*) x: ignition, 0: not ignition

Time in seconds	Longitudinal		Transversal	
	Number of ignition cases (x)	Number of not ignition cases (0)	Number of ignition cases (x)	Number of not ignition cases (0)
1	0	1	0	1
2	0	1	0	1
3	0	1	0	1
4	0	1	0	1
5	0	1	0	1
10	0	1	0	1
15	0	1	0	1
20	0	1	0	1

	Longitudinal	Transversal
Average time of ignition	---	---
Minimum time of ignition	---	---
Ignition of the fabric ≤ 20 s	No	No
Observations:	---	---

**CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE**

**Standard UNE EN 13772:11**

**Concept:** Method to determine the burning behaviour of curtains and drapes, single-layer or multi-layer fabric (covered, padded, multilayer, sandwich structure and similar combinations) using the measurement of flame spread vertically oriented specimens with large ignition source

**Equipment used:** Vertical combustion, Chronometer, Anemometer, Ruler.

**Specimen conditioning:** 24 hours at (20±2)°C and (65±5)%hr.

**Test conditions:**

Pre-treatment: Original and after 12 cycles of domestic washing at 30°C (UNE EN ISO 6330:2012) and flat drying
Flame application: Inferior edge ignition
Lighter position: I Inclined 30° with regard to the vertical
Vertical movement of the air: 0,2 m/s
Increase of the calorimeter temperature among 40°C and 100°C: 3,0±0,1 °C/s
Time of radiator application: 30 s
Time of flame application: 10 s
Flame height: 40 ± 2 mm
Type of gas: Propane
Number of specimens: Direction Warp: 4, direction Weft: 4

**Results obtained:**

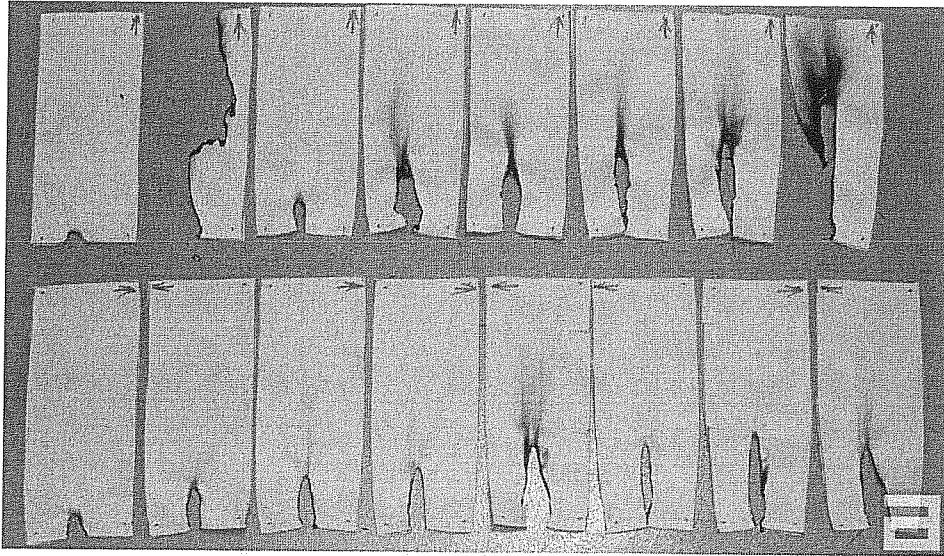
ORIGINAL	Warp				Weft			
	1	2	3	4	1	2	3	4
Specimens N°								
Middle times of flame spread (in s)								
From the beginning to 1 <sup>st</sup> yarn	0	0	0	0	0	0	0	0
From the beginning to 2 <sup>nd</sup> yarn	0	0	0	0	0	0	0	0
From the beginning to 3 <sup>er</sup> yarn	0	0	0	0	0	0	0	0
Number of specimens that burned to								
The 1 <sup>er</sup> yarn	No	No	No	No	No	No	No	No
The 2 <sup>nd</sup> yarn	No	No	No	No	No	No	No	No
The 3 <sup>er</sup> yarn	No	No	No	No	No	No	No	No
Number of specimens that have not been burned	1	1	1	1	1	1	1	1
Number of specimens that have been turned on but are turned off before the 1er yarn marker	0	0	0	0	0	0	0	0
Time of post-incandescence (in s)	0	0	0	0	0	0	0	0
Length of the damaged area (in mm)	142	134	117	118	119	119	126	123
Flame reaches the upper limit of the specimens	No	No	No	No	No	No	No	No
Wastes inflamed that burn the filter paper	No	No	No	No	No	No	No	No
Observations	---							

12 WASHES CYCLES	Warp				Weft			
	1	2	3	4	1	2	3	4
Specimens N°								
Middle times of flame spread (in s)								
From the beginning to 1 <sup>st</sup> yarn	0	0	0	0	0	0	0	0
From the beginning to 2 <sup>nd</sup> yarn	0	0	0	0	0	0	0	0
From the beginning to 3 <sup>er</sup> yarn	0	0	0	0	0	0	0	0
Number of specimens that burned to								
The 1 <sup>er</sup> yarn	No	No	No	No	No	No	No	No
The 2 <sup>nd</sup> yarn	No	No	No	No	No	No	No	No
The 3 <sup>er</sup> yarn	No	No	No	No	No	No	No	No
Number of specimens that have not been burned	1	1	1	1	1	1	1	1
Number of specimens that have been turned on but are turned off before the 1er yarn marker	0	0	0	0	0	0	0	0
Time of post-incandescence (in s)	0	0	0	0	0	0	0	0
Length of the damaged area (in mm)	124	119	135	132	136	115	118	118
Flame reaches the upper limit of the specimens	No	No	No	No	No	No	No	No
Wastes inflamed that burn the filter paper	No	No	No	No	No	No	No	No
Observations	---							



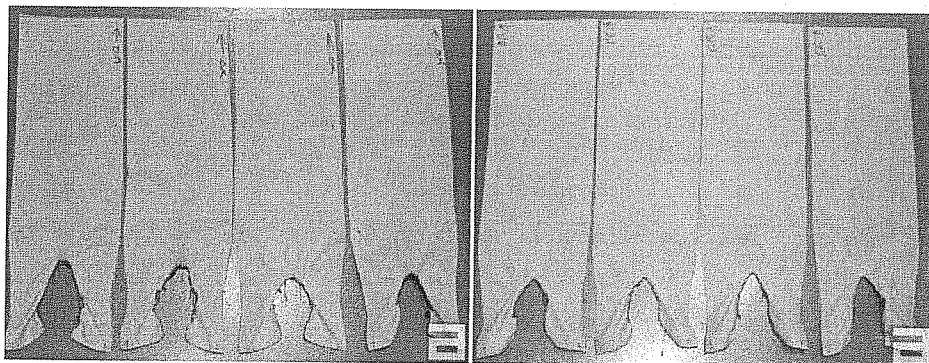
**ANNEX Nº1: SPECIMEN TESTED**

- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. DETAILED PROCEDURE TO DETERMINE THE IGNITABILITY OF VERTICALLY ORIENTED SPECIMENS (SMALL FLAME).  
Standard UNE EN 1101:96/A1:05



- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR . CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE.  
Standard UNE EN 13772:11

**Original samples**



**After 12 washes**

