

**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:

**Indetex NV
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 24th, 2015



Corporation Development Manager
Sergi Artigas



Certification Supervisor
Josep Mª Pallarès i Soler

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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.



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Indetex NV
RUE DUMONT GALLOI n°58
7700 - MOUSCRON
BELGIUM

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:

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

Presentation date: 16/11/15

REQUESTED TESTS

Technical report No IN-02561/2015-E emitted by LEITAT on November 24th, 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

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Terrassa, November 24th, 2015

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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 | Not ignition |
| | 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 | First yarn of marking not affected and there is not remains of the flame action |
| | 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

Indetex NV
RUE DUMONT GALLOI nº58
7700 - MOUSCRON
BELGIUM

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 ² |
| 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



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Reaction to Fire Technical Manager
Gemma Ferrer

Terrassa, November 24th, 2015

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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 |

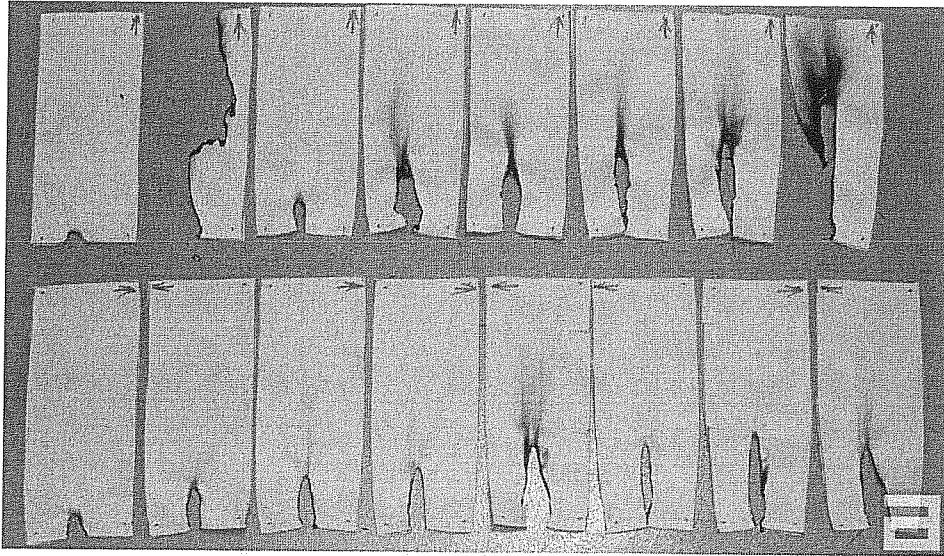
Results obtained:

| 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 st yarn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| From the beginning to 2 nd yarn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| From the beginning to 3 ^{er} yarn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of specimens that burned to | | | | | | | | |
| The 1 ^{er} yarn | No | No | No | No | No | No | No | No |
| The 2 nd yarn | No | No | No | No | No | No | No | No |
| The 3 ^{er} 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 st yarn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| From the beginning to 2 nd yarn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| From the beginning to 3 ^{er} yarn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of specimens that burned to | | | | | | | | |
| The 1 ^{er} yarn | No | No | No | No | No | No | No | No |
| The 2 nd yarn | No | No | No | No | No | No | No | No |
| The 3 ^{er} 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 | --- | | | | | | | |

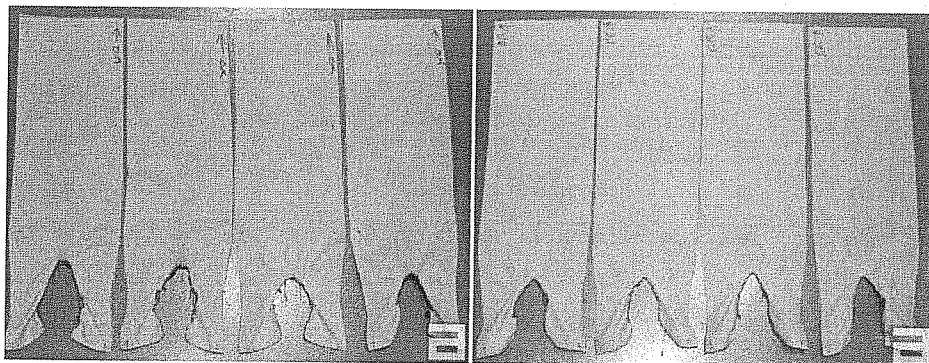
ANNEX Nº1: SPECIMEN TESTED

- 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

