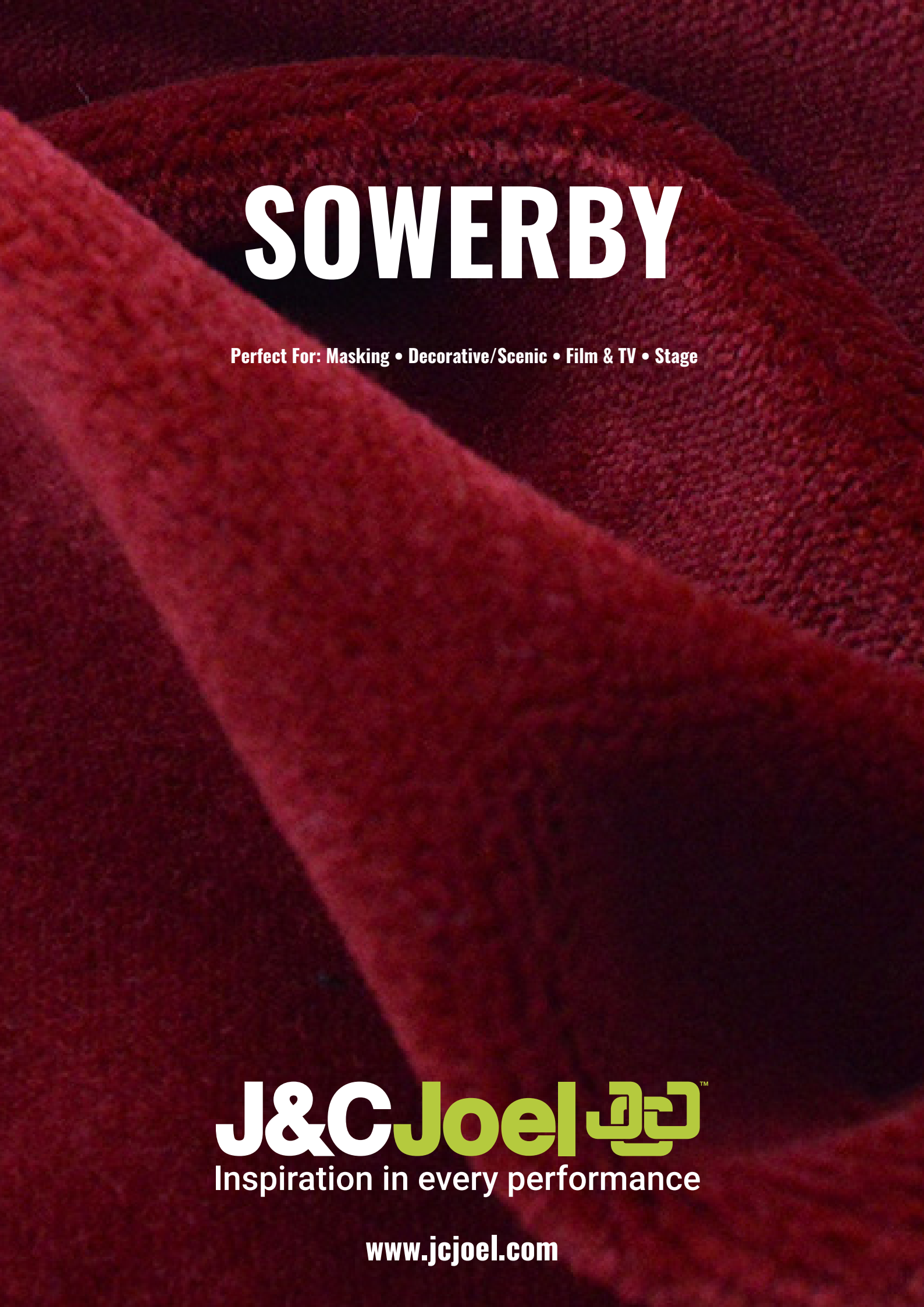

SOWERBY
Perfect For: Masking • Decorative/Scenic • Film & TV • Stage
J&C Joel
Inspiration in every performance
www.jcjoel.com

# Contents

J&C Joel
Inspiration in every performance


## Composition and Care

**140 cm** 3

## Fire Certificates

**BS5867 Part 2 Type B** 4
**M1** 8
**B1** 10
**EN13773** 12
**EN13501-1** 14
**NFPA 701** 16
**IMO** 18

## Martindale Rub Test 21


## TECHNICAL

NDFR
**Non Durably Flame Retardant**
chemically treated with a water solution and if wetted in any way should be retreated

DFR
**Durably Flame Retardant**
chemically treated to withstand a number of cleanings

IFR
**Inherently Flame Retardant**
woven from fibres with a high flame retardancy

FR
**Flame Retardant**
chemically treated to an individual specification

NOT FR
**Not Flame Retardant** no flame retardant treatment

Confirmation that the fabric meets one or more flame retardant standards

**BS5867** BS5867 Pt2 B is the British Standard for flame retardant fabrics used for curtains and drapes

**BS5852** BS5852 Pt1 is the British Standard for flammability of upholstered composites for seating

**BS4790** BS4790: 1987 Determination of the effects of a small source of ignition on textile floor coverings hot metal nut method (method 1, loose laid)

**EN13773: 2003** Meets European fire safety standards for vertically hung fabrics. Burning behavior, ignitability testing of curtain fabric for use in the contract market.

**TL 1080-0002/8** German Military Specification for horizontally tested materials

**EN14041** Details the requirement for CE Marking of textiles, laminate and resilient floor coverings

**BS7905-1:2001** Lifting equipment for performance, broadcast and similar applications.

## ATTRIBUTES

Approx roll length of material in linear metres (m) & feet (ft)

Approx width of material in centimetres (cm) & inches (")

Approx weight in grams per metre squared ($g/m^2$)

Approx thickness in (mm)

**M1, M2, M4** Conforms to French Fire Regulations

**B1, B2** Conforms to German Fire Regulations DIN 4102

**IMO** Conforms to International Maritime Organisation regulations

**Classe Uno** Meets Italian Fire Regulations

**BS EN13501-1** Fire Classification of construction, products and building elements. Classification using test data from reaction to fire tests

**CFC EN ISO 9239-1** Reaction to fire test. Horizontal surface spread of flame on floor covering system. Determination of the burning behaviour using a retardant heat source

**NFPA 701** NFPA 701: (USA) Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

**EN9239-1** Reaction to fire tests – horizontal surface spread of flame on floor covering systems

**DIN EN1021** Meets European fire safety standards for exposure to different ignition sources, namely a lit cigarette and butane flame. Assessment of the ignitability of upholstered furniture


United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

# Datasheet - Fabrics and Flooring

## Sowerby

J&C Joel
Inspiration in every performance

To ensure you get the best from the product supplied to you, we advise you follow the care instructions within this datasheet.

| | | |
|---|---|---|
| **Fabric** | **Flame Retardancy** | IFR |
| | **Fire Certification** | BS5867, B1, EN13501-1, M1, EN13773, NFPA 701, IMO |
| | **Brand Name (and Manufacturer)** | J&C Joel Ltd. |
| | **Material (Blending Ratio)** | 100% Polyester Trevira |
| | **Construction of Fabric** | V Weave |
| **Chemicals** | **Surface Treatments** | Piece Dyed |
| | **Brand Name of Flame Retardant Chemicals** | N/A |
| | **Chemical name of Flame Retardant Chemicals** | N/A |
| | **Process of Flame Retardant Chemicals** | N/A |
| **Care** | **Information** | Inherently Flame Retardant to BS5867 Part 2 Type B, M1, B1, IMO EN13773, EN13501-1 and NFPA 701.. This means that the man-made fibres are flame retardant for life and if wet, would not need to be re-flameproofed. Therefore, the cloth will withstand wet cleaning but we would advise and suggest professional dry cleaning only, using the correct chemical process.<br><br>Notwithstanding the aforementioned, it would be our advice to only dry clean this material periodically. We would suggest that the curtain be soft-brushed on a regular basis and periodically cleaned using a vacuum and drapery attachment. Commerical flame retardents may alter the aesthetics, appearance, colour or performance of the textile material.<br><br>This fabric is not pre-shrunk. |
| | **Laundering Treatment** |  |
| **Notes** | | Martindale Rub Test, Abrasion Resistance: 100.000 (certificate available).<br>Approx Pile Height: 2.7mm |

All details are accurate at the time of print but are subject to change.

| Fire Rating: | Approx Roll Length: | Width: | Weight: | Fire Certification: | Custom Dye Available: | Fabric Thickness: |
|---|---|---|---|---|---|---|
| IFR | 30m / 98ft | 140cm / 55” | 550 g/m$^2$ | BS5867, B1,IMO, EN13501-1, M1, EN13773, NFPA 701 | Yes | 2.51 mm |


United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: BS5867 Part 2 Type B**

J&C Joel
Inspiration in every performance

BTTG
TESTING • CERTIFICATION • AUDITING

Wira House, West Park Ring Road,
Leeds, LS16 6QL, UK.
Telephone: +44 (0)113 259 1999
Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 15 August 2017

**Our Ref:** **53651-46**
**Your Ref:** -



Client: J. & C. Joel Limited
Corporation Mill
Corporation Street
Sowerby Bridge
Halifax
HX6 2QQ

Job Title: Surface Ignition Of Curtains & Drapes

Client's Order No: -

Date of Receipt: 16 June 2017
Date of Test Start: 29 June 2017

Description of Sample(s): One sample identified as follows was received for testing:

Pennine IFR Velvet, stated to be IFR

Work Requested: We were asked to make the following test:

BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds

SPECIMEN

ilac-MRA UKAS TESTING 1066

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2017 Shirley Technologies Limited. All rights reserved.

BTTG
TESTING • CERTIFICATION • AUDITING

Wira House, West Park Ring Road,
Leeds, LS16 6QL, UK.
Telephone: +44 (0)113 259 1999
Email: info@bttg.co.uk
Website: www.bttg.co.uk


Date: 15 August 2017

**Our Ref:** **53651-46**
**Your Ref:** -



**J. & C. Joel Limited**

Sample was identified as follows:

Pennine IFR Velvet, stated to be IFR

BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds
Testing as received.

Three specimens from both length and width were tested in accordance with BS EN ISO 15025: Procedure A (surface ignition): 2002. The sample was tested at 20 °C and 60 % relative humidity (R.H.).

Each specimen was subjected to an applied flame using propane and a 15 second flame application time. The results obtained (shown in the table below) were assessed according to the requirements of BS 5867: Part 2: 2008 (2015).

Pre-treatment
If the fabric is a pass in the `as received` condition then the fabric is subjected a water soak procedure as specified in BS EN 1021: Annex D: 2006.

Testing after pre-treatment
Three specimens, after pre-treatment, from both length and width were tested following the procedure described above.

Test results relate only to the sample tested.

The results for all tests are given in the table(s) on the following page(s).

Reported by:.....
J Coleman
Fire Technician

Countersigned By:.....
P Doherty
Operational Head

Enquiries concerning this report should be addressed to Customer Services.

SPECIMEN

ilac-MRA UKAS TESTING
1066


Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2017 Shirley Technologies Limited. All rights reserved.

BTTG
TESTING • CERTIFICATION • AUDITING

Wira House, West Park Ring Road,
Leeds, LS16 6QL, UK.
Telephone: +44 (0)113 259 1999
Email: info@bttg.co.uk
Website: www.bttg.co.uk


Date: 15 August 2017

**Our Ref:** **53651-46**
**Your Ref:** -



**J. & C. Joel Limited**

RESULTS

Sample Ref: Pennine IFR Velvet, stated to be IFR

BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds
Testing as Received

| | Length | | | Width | | |
|---|---|---|---|---|---|---|
| **Specimen No.** | **1** | **2** | **3** | **4** | **5** | **6** |
| Flame reached an edge | No | No | No | No | No | No |
| Hole reached an edge | No | No | No | No | No | No |
| Flaming debris separated | No | No | No | No | No | No |

Requirements
Any "Yes" means fail except if only one specimen fails a further 6 specimens are tested, if the second 6 specimens all pass the result is a pass.

Result in `as received`: Pass

Testing after pre-treatment

| | Length | | | Width | | |
|---|---|---|---|---|---|---|
| **Specimen No.** | **1** | **2** | **3** | **4** | **5** | **6** |
| Flame reached an edge | No | No | No | No | No | No |
| Hole reached an edge | No | No | No | No | No | No |
| Flaming debris separated | No | No | No | No | No | No |

Requirements
Any "Yes" means fail except if only one specimen fails a further 6 specimens are tested, if the second 6 specimens all pass the result is a pass.

Result in `after pre-treatment`: Pass

SPECIMEN

ilac-MRA UKAS TESTING 1066


Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2017 Shirley Technologies Limited. All rights reserved.

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: BS5867 Part 2 Type B**

J&C Joel
Inspiration in every performance

Wira House, West Park Ring Road,
Leeds, LS16 6QL, UK.
Telephone: +44 (0)113 259 1999
Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 15 August 2017

**Our Ref:** **53651-46**
**Your Ref:** -



**J. & C. Joel Limited**

Conclusion
The fabric meets the Type B performance requirements of BS 5867: Part 2: 2008 (2015).

This material should be identified with the manufacturers name, trademark or other identifying mark, the statement `Flammability complies with the requirements of BS 5867: Part 2: Type B and instructions of any special precautions to be taken concerning care (including cleansing) of the curtain, drape or window blind to be manufactured from the fabric, preferably using an appropriate care labelling symbol in accordance with BS EN 23758 and taking account of the pre-treatment using in this test and the requirements of Clause 4 of BS 5867: Part 2: 2008 (2015). If the fabric is unsuitable for cleansing, this shall be stated.

Uncertainty Budget
There is no uncertainty budget associated with BS 5867: Part 2: Type B as no measurements are determined, the pass/fail criteria is assessed visually.

SPECIMEN

1066

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2017 Shirley Technologies Limited. All rights reserved.

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: M1**

J&C Joel
Inspiration in every performance

Institut Français du Textile et de l'Habillement

This document is the translation of the French certificate n° 25-01752-00 L delivered by IFTH on the August 7th 2025

## MATERIAL REACTION TO FIRE CLASSIFICATION REPORT
## PREPARED IN COMPLIANCE WITH AMENDED 5 OF THE FRENCH HOME OFFICE REGULATION REGULATION DATED NOVEMBER 21ST, 2002 (OFFICIAL GAZETTE DATED DECEMBER 31, 2002)

Valid five years from issue date

**CERTIFICATE N° 25-01752-00 L**

And 1 Appendix of 8 pages

SPECIMEN

| | |
|---|---|
| **TRADE NAME:** | 7810 Celine CS - 7840 Viola CS - 7815 Gerry uni CS - 7773 Valentino CS - 7756 Vara CS |
| **BRIEF DESCRIPTION:** | Fabric 100 % inherent fire resistant polyester Trevira CS<br>Nominal surface weight : 320 - 550 g/m²<br>Measured thickness: About De 1.3 à/to 2.4 mm<br>Colours : Various |
| **TEST REPORT :** | N° 25-01752-00 on the August 7th 2025 |
| **TESTS :** | Electrical burner test<br>Flame persistence test<br>Dripping test |
| **CLASSIFICATION** | **M1** |

**Classification valid for any application for which the product is not subjected to the CE marking of the Construction products**

**CLASSIFICATION DURATION (article 5 of appendix 2) :** **unlimited unless otherwise specified**

given the criteria resulting from the tests described in the enclosed test report.
The classification indicated does not mean that materials marketed comply with the test samples and must not be considered as a qualification certificate as defined by French law dated March 14, 2016.

N.B.: Only integral copies of this document may be made by photocopying the classification report and/or the classification report and enclosed test report.

**Issued in Lyon, France, on the August 7th 2025**

Julien TABONI
Tests and Trials Engineer



United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: M1**

J&C Joel
Inspiration in every performance

ifth Institut Français du Textile et de l'Habillement

## PROCES-VERBAL DE CLASSEMENT DE REACTION AU FEU D'UN MATERIAU PREVU A L'ARTICLE 5 DE L'ARRÊTE DU 21 NOVEMBRE 2002

**Valable 5 ans à partir de la date de délivrance**

**PROCES-VERBAL N° 25-01752-00 L**

**et 1 annexe(s) de 8 pages**

| | |
|---|---|
| **MARQUE COMMERCIALE :** | **7810 Celine CS - 7840 Viola CS - 7815 Gerry uni CS - 7773 Valentino CS - 7756 Vara CS** |
| **DESCRIPTION SOMMAIRE :** | **Tissu 100 % polyester Trevira CS ignifugé dans la masse**<br>**Masse surfacique nominale : 320 - 550 g/m²**<br>**Epaisseur mesurée : Environ De 1.3 à/to 2.4 mm**<br>**Coloris : Divers** |
| **RAPPORT D'ESSAI :** | **N° 25-01752-00 du 07 août 2025** |
| **NATURE DES ESSAIS :** | **Brûleur électrique**<br>**Propagation de flamme**<br>**Essai pour matériaux fusibles** |
| **CLASSEMENT :** | **M1** |

SPECIMEN

**Classement valable pour toute application pour laquelle le produit n'est pas soumis au marquage CE des Produits de Construction.**

**DURABILITE du classement (Article 5 de l'annexe 2) : non limitée a priori.**

Compte tenu des critères résultant des essais décrits dans le rapport d'essai annexé. Ce document atteste uniquement des caractéristiques de l'échantillon soumis aux essais et ne préjuge pas des caractéristiques de produits similaires. Il ne constitue donc pas une certification de produits au sens de l'article L.433-3 l'Ordonnance n°2016-301 du 14 mars 2016 relative au code de la consommation

NOTA : Sont seules autorisées les reproductions intégrales et par photocopie du présent procès-verbal de classement ou de l'ensemble procès-verbal de classement et rapport d'essai annexé.

**A Lyon, le 07 août 2025**

Julien TABONI
Ingénieur Tests et Essais



United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: B1**

J&C Joel
Inspiration in every performance

**Indorama Ventures Fibers Germany GmbH**
Trademark Service
Max-Fischer-Str. 11
86399 Bobingen, Germany

trademarkservice.IVFG@de.indorama.net
Tel. +49 8234 9688 1673
www.indoramaventures.com

## Approval of the Trademark Trevira CS®

SPECIMEN

| | |
|---|---|
| **Application No.:** | **240248.4 / 240249 / 240250** |
| **Date of issue:** | 03.11.2026 |
| **Valid until:** | 28.03.2029 |
| **Article name:** | 7810 Celine CS |
| **Color:** | various |
| **End use:** | Drapes<br>Curtains<br>Upholstery fabrics<br>Wall coverings<br>Transport sector |
| **Square weight (g/m²):** | 550 |
| According to customer specification | |
| **Composition of the raw materials:** | 100% Polyester |
| **Composition of the fabric:** | 100% Trevira CS |

The collection "7810 Celine CS" is granted approval for the trademark Trevira CS® for interior use.

The approval of the collection is based on the trademark test results of application no.:
240248 col. 9016 / 240249 col. 3106 / 240250 col. 0011.
These articles have been tested according to DIN 4102 part 1, 6.2 and thus also meet the requirements for fire class DIN 4102-B1.

The collection was tested according to EN 1101 and thus also meets the requirements for class 1 according to EN 13773.

The collection meets the requirements according to EN 1021-1 and -2:2014 in conjunction with polyurethan foams with a density of more than 30 kg/m³.

INDORAMA VENTURES
Indispensable Chemistry

Sitz der Gesellschaft / registered office: Bobingen • Amtsgericht / Local Court: Augsburg HRB 24933
Geschäftsführer / Managing Directors: Andreas Borchert (CEO), Sunil Baldi

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: B1**

J&C Joel
Inspiration in every performance

INDORAMA VENTURES

The collection meets also the requirements according to ÖNORM B 3825 in conjunction with suitable combustion modified foams.

The collection meets the requirements according to the Italian standard UNI 9175, class 1 IM in conjunction with suitable combustion modified foams.

The collection meets also the requirements according to British Standard BS 5852 ignition source 0 (cigarette), ignition source 1 (small gas flame) and ignition source (crib 5) in conjunction with suitable combustion modified foams (at least 50 kg/m³). Thus meets the classification according to BS 7176 "Medium Hazard".

The collection also meets the requirements for class I according to the North American standard NFPA 260 for upholstered furniture (based on the Test Reports no. 10-002-775 A + B dated 24.11.2010).

The collection can meet the requirements according to California TB 117-2013, section 1 - cover fabric.

The collection also meets the requirements according to the North American NFPA Life Safety Code 101, class A, Test Standard ASTM E84 Surface Burning Characteristics, Test Report No. 12-002-527, dated August 30, 2012.

The collection meets the requirements according to the North American standard NFPA 701: 2010 Test Method #1 (based on the Test Reports Govmark, New York No. 2-94779, 2-94780, 2-94781).

The collection qualifies for class B-s1, d0 according to the European Standard EN 13501-1. Trevira CS has been approved by the DIBt with the General Building Inspectorate Approval, Approval No. Z-56.25-3573 dd. 10 January 2024.

SPECIMEN

Indorama Ventures Fibers Germany GmbH
(This document is valid without signature.)

240248.4/240249/240250

Indispensable Chemistry

United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: EN13773**

J&C Joel
Inspiration in every performance

**Indorama Ventures Fibers Germany GmbH**
Trademark Service
Max-Fischer-Str. 11
86399 Bobingen, Germany

trademarkservice.IVFG@de.indorama.net
Tel. +49 8234 9688 1673
www.indoramaventures.com

## Approval of the Trademark Trevira CS®

SPECIMEN

| | |
|---|---|
| **Application No.:** | **240248.4 / 240249 / 240250** |
| **Date of issue:** | 03.11.2026 |
| **Valid until:** | 28.03.2029 |
| **Article name:** | 7810 Celine CS |
| **Color:** | various |
| **End use:** | Drapes<br>Curtains<br>Upholstery fabrics<br>Wall coverings<br>Transport sector |
| **Square weight (g/m²):** | 550 |
| According to customer specification | |
| **Composition of the raw materials:** | 100% Polyester |
| **Composition of the fabric:** | 100% Trevira CS |

The collection "7810 Celine CS" is granted approval for the trademark Trevira CS® for interior use.

The approval of the collection is based on the trademark test results of application no.:
240248 col. 9016 / 240249 col. 3106 / 240250 col. 0011.
These articles have been tested according to DIN 4102 part 1, 6.2 and thus also meet the requirements for fire class DIN 4102-B1.

The collection was tested according to EN 1101 and thus also meets the requirements for class 1 according to EN 13773.

The collection meets the requirements according to EN 1021-1 and -2:2014 in conjunction with polyurethan foams with a density of more than 30 kg/m³.

INDORAMA VENTURES

Indispensable Chemistry

Sitz der Gesellschaft / registered office: Bobingen • Amtsgericht / Local Court: Augsburg HRB 24933
Geschäftsführer / Managing Directors: Andreas Borchert (CEO), Sunil Baldi

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: EN13773**

J&C Joel
Inspiration in every performance

INDORAMA VENTURES

The collection meets also the requirements according to ÖNORM B 3825 in conjunction with suitable combustion modified foams.

The collection meets the requirements according to the Italian standard UNI 9175, class 1 IM in conjunction with suitable combustion modified foams.

The collection meets also the requirements according to British Standard BS 5852 ignition source 0 (cigarette), ignition source 1 (small gas flame) and ignition source (crib 5) in conjunction with suitable combustion modified foams (at least 50 kg/m³). Thus meets the classification according to BS 7176 "Medium Hazard".

The collection also meets the requirements for class I according to the North American standard NFPA 260 for upholstered furniture (based on the Test Reports no. 10-002-775 A + B dated 24.11.2010).

The collection can meet the requirements according to California TB 117-2013, section 1 - cover fabric.

The collection also meets the requirements according to the North American NFPA Life Safety Code 101, class A, Test Standard ASTM E84 Surface Burning Characteristics, Test Report No. 12-002-527, dated August 30, 2012.

The collection meets the requirements according to the North American standard NFPA 701: 2010 Test Method #1 (based on the Test Reports Govmark, New York No. 2-94779, 2-94780, 2-94781).

The collection qualifies for class B-s1, d0 according to the European Standard EN 13501-1. Trevira CS has been approved by the DIBt with the General Building Inspectorate Approval, Approval No. Z-56.25-3573 dd. 10 January 2024.

SPECIMEN

Indorama Ventures Fibers Germany GmbH
(This document is valid without signature.)

240248.4/240249/240250

Indispensable Chemistry

United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: EN13501-1**

J&C Joel
Inspiration in every performance

**Indorama Ventures Fibers Germany GmbH**
Trademark Service
Max-Fischer-Str. 11
86399 Bobingen, Germany

trademarkservice.IVFG@de.indorama.net
Tel. +49 8234 9688 1673
www.indoramaventures.com

## Approval of the Trademark Trevira CS®

SPECIMEN

| | |
|---|---|
| **Application No.:** | **240248.4 / 240249 / 240250** |
| **Date of issue:** | 03.11.2026 |
| **Valid until:** | 28.03.2029 |
| **Article name:** | 7810 Celine CS |
| **Color:** | various |
| **End use:** | Drapes<br>Curtains<br>Upholstery fabrics<br>Wall coverings<br>Transport sector |
| **Square weight (g/m²):** | 550 |
| According to customer specification | |
| **Composition of the raw materials:** | 100% Polyester |
| **Composition of the fabric:** | 100% Trevira CS |

The collection "7810 Celine CS" is granted approval for the trademark Trevira CS® for interior use.

The approval of the collection is based on the trademark test results of application no.:
240248 col. 9016 / 240249 col. 3106 / 240250 col. 0011.
These articles have been tested according to DIN 4102 part 1, 6.2 and thus also meet the requirements for fire class DIN 4102-B1.

The collection was tested according to EN 1101 and thus also meets the requirements for class 1 according to EN 13773.

The collection meets the requirements according to EN 1021-1 and -2:2014 in conjunction with polyurethan foams with a density of more than 30 kg/m³.

INDORAMA VENTURES

Indispensable Chemistry

Sitz der Gesellschaft / registered office: Bobingen • Amtsgericht / Local Court: Augsburg HRB 24933
Geschäftsführer / Managing Directors: Andreas Borchert (CEO), Sunil Baldi

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: EN13501-1**

J&C Joel
Inspiration in every performance

INDORAMA VENTURES

The collection meets also the requirements according to ÖNORM B 3825 in conjunction with suitable combustion modified foams.

The collection meets the requirements according to the Italian standard UNI 9175, class 1 IM in conjunction with suitable combustion modified foams.

The collection meets also the requirements according to British Standard BS 5852 ignition source 0 (cigarette), ignition source 1 (small gas flame) and ignition source (crib 5) in conjunction with suitable combustion modified foams (at least 50 kg/m³). Thus meets the classification according to BS 7176 "Medium Hazard".

The collection also meets the requirements for class I according to the North American standard NFPA 260 for upholstered furniture (based on the Test Reports no. 10-002-775 A + B dated 24.11.2010).

The collection can meet the requirements according to California TB 117-2013, section 1 - cover fabric.

The collection also meets the requirements according to the North American NFPA Life Safety Code 101, class A, Test Standard ASTM E84 Surface Burning Characteristics, Test Report No. 12-002-527, dated August 30, 2012.

The collection meets the requirements according to the North American standard NFPA 701: 2010 Test Method #1 (based on the Test Reports Govmark, New York No. 2-94779, 2-94780, 2-94781).

The collection qualifies for class B-s1, d0 according to the European Standard EN 13501-1. Trevira CS has been approved by the DIBt with the General Building Inspectorate Approval, Approval No. Z-56.25-3573 dd. 10 January 2024.

SPECIMEN

Indorama Ventures Fibers Germany GmbH
(This document is valid without signature.)

240248.4/240249/240250



United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: NFPA 701**

J&C Joel
Inspiration in every performance

**Indorama Ventures Fibers Germany GmbH**
Trademark Service
Max-Fischer-Str. 11
86399 Bobingen, Germany

trademarkservice.IVFG@de.indorama.net
Tel. +49 8234 9688 1673
www.indoramaventures.com

## Approval of the Trademark Trevira CS®

SPECIMEN

| | |
|---|---|
| **Application No.:** | **240248.4 / 240249 / 240250** |
| **Date of issue:** | 03.11.2026 |
| **Valid until:** | 28.03.2029 |
| **Article name:** | 7810 Celine CS |
| **Color:** | various |
| **End use:** | Drapes<br>Curtains<br>Upholstery fabrics<br>Wall coverings<br>Transport sector |
| **Square weight (g/m²):** | 550 |
| According to customer specification | |
| **Composition of the raw materials:** | 100% Polyester |
| **Composition of the fabric:** | 100% Trevira CS |

The collection "7810 Celine CS" is granted approval for the trademark Trevira CS® for interior use.

The approval of the collection is based on the trademark test results of application no.:
240248 col. 9016 / 240249 col. 3106 / 240250 col. 0011.
These articles have been tested according to DIN 4102 part 1, 6.2 and thus also meet the requirements for fire class DIN 4102-B1.

The collection was tested according to EN 1101 and thus also meets the requirements for class 1 according to EN 13773.

The collection meets the requirements according to EN 1021-1 and -2:2014 in conjunction with polyurethan foams with a density of more than 30 kg/m³.

INDORAMA VENTURES
Indispensable Chemistry

Sitz der Gesellschaft / registered office: Bobingen • Amtsgericht / Local Court: Augsburg HRB 24933
Geschäftsführer / Managing Directors: Andreas Borchert (CEO), Sunil Baldi

# Fire Test Certificate - Specimen

**Fabric: Sowerby**
**Type: NFPA 701**

J&C Joel
Inspiration in every performance

INDORAMA VENTURES

The collection meets also the requirements according to ÖNORM B 3825 in conjunction with suitable combustion modified foams.

The collection meets the requirements according to the Italian standard UNI 9175, class 1 IM in conjunction with suitable combustion modified foams.

The collection meets also the requirements according to British Standard BS 5852 ignition source 0 (cigarette), ignition source 1 (small gas flame) and ignition source (crib 5) in conjunction with suitable combustion modified foams (at least 50 kg/m³). Thus meets the classification according to BS 7176 "Medium Hazard".

The collection also meets the requirements for class I according to the North American standard NFPA 260 for upholstered furniture (based on the Test Reports no. 10-002-775 A + B dated 24.11.2010).

The collection can meet the requirements according to California TB 117-2013, section 1 - cover fabric.

The collection also meets the requirements according to the North American NFPA Life Safety Code 101, class A, Test Standard ASTM E84 Surface Burning Characteristics, Test Report No. 12-002-527, dated August 30, 2012.

The collection meets the requirements according to the North American standard NFPA 701: 2010 Test Method #1 (based on the Test Reports Govmark, New York No. 2-94779, 2-94780, 2-94781).

The collection qualifies for class B-s1, d0 according to the European Standard EN 13501-1. Trevira CS has been approved by the DIBt with the General Building Inspectorate Approval, Approval No. Z-56.25-3573 dd. 10 January 2024.

SPECIMEN

Indorama Ventures Fibers Germany GmbH
(This document is valid without signature.)

240248.4/240249/240250



United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

DNV

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
**MEDB00003E3**
Revision No:
**4**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

## This is to certify:

**That the Draperies, curtains and other suspended textile materials and films**

with type designation(s)
**Maritime Collection Curtains**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2022/1157,**
**item No. MED/3.19. SOLAS 74 as amended, Regulation II-2/3, II-2/9 & X/3, 2000 HSC Code 7 and IMO 2010 FTP Code,IMO MSC.1/Circ.1456**

SPECIMEN

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-01-03.**

Issued at **Hamburg** on **2023-01-04**

DNV local station:
**Hamburg – CMC North/East**

Approval Engineer:
**Timo Linn**

Notified Body
No.: **0098**

for **DNV SE**

Digitally Signed By: Mydlak-Röder, Christine
Location: DNV GL SE Hamburg, Germany

**Christine Mydlak-Roeder**
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2018 dated February 18th, 2019.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

DNV

Job Id: **344.1-007597-14**
Certificate No: **MEDB00003E3**
Revision No: **4**

**Product description**
"Maritime Collection Curtains" is consisting of flame retardant Trevira CS yarn, modificated for polyester curtain fabric.

Max organic content: 100%
Colour: all colour variants
Density/mass per unit: 320 - 600 g/m²
Total thickness: 0.11 – 1.18 mm

The product may also be manufactured and distributed with the following product designations:

| Article | | Trevira CS Brand Approval No. |
|---|---|---|
| 7810 | Celine CS | 181581 |
| 7811 | Cheval CS | 200050/200051/200052 |
| 7815 | Gerry uni CS | 171349 |
| 7902 | Lido CS | 200047/200048/200049 |
| 7773 | Valentino CS | 200053/200054/200055 |
| 7756 | Vara CS | 191028/191030/200046 |
| 7764 | Varese CS | 171158/180506/171913 |
| 7778 | Vellmar CS | 150363 |
| 7857 | Verl CS | 181461 |
| 7864 | Vicky CS T | 160148 |
| 7809 | Vila CS | 150889 |
| 7840 | Viola CS | 150888 |
| 7871 | Virginia CS T | 181460 |
| 7887 | Visé CS | 171250 |
| 7862 | Vitte CS | 152097 |

SPECIMEN

For further details see information under Type Examination Documentation.

**Application/Limitation**
Approved for use as draperies, curtains and other supported textile materials.

A verified sample book should be available from the manufacturer on request.

Each product is to be supplied with its manual for installation/application and maintenance.



United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

DNV

Job Id: **344.1-007597-14**
Certificate No: **MEDB00003E3**
Revision No: **4**

**Type Examination documentation**
Test Report No: 200404 dated 04.06.2020 issued by Warringtonfire Frankfurt GmbH, Germany.

**Tests carried out**
Tested according to IMO-Resolution MSC.307(88)-(FTP-Code 2010), Annex 1 Part 7.

**Marking of product**
The product or packing is to be marked with name and address of manufacturer, type designation, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).

SPECIMEN




United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

# Martindale Rub Test

**Fabric: Sowerby**

J&C Joel

Inspiration in every performance

## QS-PRÜFBOGEN
## TEST REPORT

| | | | |
|---|---|---|---|
| **Prüfbericht-Nr.**<br>report number | 2379 | **Datum**<br>date | 02.12.2020 |
| **Kunde**<br>customer | J&C Joel | **Kunden-Nr.**<br>customer number | 10650 |

**Artikel-Nr.**
product code: 7810

**Farb-Nr.**
colour number: 9016

**Menge**
quantity

**Prüfart**
type of test: Martindale DIN EN 12947 - 2

**Ergebnis**
result: 100.000 Touren bestanden

**Geprüft von**
checked by: A.Oeser

**Unterschrift**
sign

freigegeben
Datum: 10.12.20
Unterschrift: Ki
Prüfnummer:


United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com



United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com