

ROYAL VELVET

Perfect for: Masking • Stage • Decorative/Scenic • Film and Television

J&C Joel TM
Inspiration in every performance

www.jcjoel.com

Composition and Care

| | |
|-----------------------------|-----------|
| 140 cm | 3 |
| Fire Certificates | |
| BS5867 Part 2 Type B | 4 |
| M1 | 7 |
| EN13773 | 8 |
| IMO | 18 |
| NFPA 701 | 23 |

Acoustic Test Report

| | |
|----------------------|-----------|
| 50% Fullness | 26 |
| 100% Fullness | 28 |

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/m²)



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



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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 | NDFR |
| | Fire Certification | BS5867, M1, EN 13773, NFPA 701, IMO, |
| | Brand Name (and Manufacturer) | J&C Joel Ltd. |
| | Material (Blending Ratio) | 85% Cotton 15% Modal (100% Cotton Pile) |
| | Construction of Fabric | V Weave |
| Chemicals | Surface Treatments | Piece Dyed, Chemically Treated |
| | Brand Name of Flame Retardant Chemicals | Thor |
| | Chemical name of Flame Retardant Chemicals | Flamentin MSG |
| | Process of Flame Retardant Chemicals | Immersion |
| Care | Information | <p>Non-Durably Flame Retardant. This means that the fabric is chemically treated and if wet (in any way) should be retreated to meet the flammability requirements of BS5867 Part 2 Type B, M1, EN13773, NFPA 701 and IMO. Therefore, the cloth will not withstand wet cleaning and should be re-flame proofed whenever wet. The cloth can be professionally dry cleaned using the correct chemical process.</p> <p>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. Commercial flame retardants may alter the aesthetics, appearance, colour or performance of the textile material.</p> <p>This fabric is not pre-shrunk.</p> |
| | Laundering Treatment | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Dry Clean Only</div> <div style="text-align: center;"> Do Not Wash</div> <div style="text-align: center;"> Do Not Bleach</div> <div style="text-align: center;"> Cool Iron Only</div> <div style="text-align: center;"> Do Not Tumble Dry</div> </div> |
| Notes | Approx Pile Height 2.10mm | |

| | | | | | | |
|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |
| Fire Rating: NDFR | Approx Roll Length: 55m / 180ft | Width: 140cm / 55" | Weight: 375 g/m ² | Fire Certification: BS5867, M1, EN13773, NFPA 701, IMO | Colour Available 35 | Fabric Thickness 1.35mm |

Fire Test Certificate

Fabric: Royal
Type: BS5867 Part 2 Type B

J&C Joel 
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Leeds, LS16 6QL, UK.
Telephone: +44 (0)113 259 1999
Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 01 August 2017
Our Ref: 53519-8
Your Ref: -
Page: 1 of 3

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

Job Title: Surface Ignition Of Curtains & Drapes (Type B)

Client's Order No: -

Date of Receipt: 19 May 2017
Date of Test Start: 02 June 2017

Description of Sample(s): One sample identified as follows was received for testing:
Velvet Velour, stated to be NDFR



Work Requested: We were asked to make the following test:
BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds



SPECIMEN



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Fire Test Certificate

Fabric: Royal
Type: BS5867 Part 2 Type B

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J. & C. Joel Limited

Sample was identified as follows:

Velvet Velour, stated to be NDFR

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

Pre-Treatment

No water treatment required as the sample was stated to be non durable flame retardant.

Conditioning

The test specimens were conditioned for at least 24 hours in the standard atmosphere of $60 \pm 5\%$ relative humidity (R.H.) and $20 \pm 2^\circ\text{C}$.

Testing

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).

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.



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Fire Test Certificate

Fabric: Royal
Type: BS5867 Part 2 Type B

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Website: www.bttg.co.uk

Date: 01 August 2017
Our Ref: 53519-B
Your Ref: -
Page: 3 of 3

J. & C. Joel Limited

RESULTS

Sample Ref: Velvet Velour, stated to be NDFR

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

Testing as received,

| Specimen No. | Length | | | Width | | |
|--------------------------|--------|----|----|-------|----|----|
| | 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: Pass

Conclusion

The fabric meets the Type B performance requirements of BS 5867: Part 2: 2008 – the fabric must be clearly labelled 'if wetted in any way it is essential to re-treat the fabric to meet flammability requirements'.

The 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 used in this test and the requirements of Clause 4 of BS 5867: Part 2: 2008 (2011). 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.



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Fire Test Certificate

Fabric: Royal

Type: M1

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**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° 21-02169 L

et 3 annexes de 14 pages

MARQUE COMMERCIALE : Phoenix - 706.854
DESCRIPTION SOMMAIRE : Tissue cotons- modal gèstuge par foulardage
Masse surfacique nominale : 360 g/m²
Epaisseur mesurée : environ 1,2 mm
Coloris : divers
RAPPORT D'ESSAI : N° 21-02169.riv du 21 septembre 2021
NATURE DES ESSAIS : Brûleur électrique
Vieillessement en enceinte climatique
Nettoyage à sec
CLASSEMENT : **M1**

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 en utilisation à l'abri des intempéries.
(matériau non lavable mais nettoyable à sec)

Certificat formidabilisat rezultat testelor de reactie la foca in raport cu starea de servit
Ce document reprezintă unghiurament de caracteristici de performanță acordate produsului în baza testelor de caracteristici de performanță și în conformitate cu
3090 sau o certificare de produs în sensul de la articolul 5 din anexa 2 la Decretul nr. 21/2002 privind evaluarea și clasificarea produselor de construcție


NOTA : Sunt 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 annexes


A Lyon, le 21 septembre 2021




Olivier PALLAS
Ingénieur Tests et Essais


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Fire Test Certificate

Fabric: Royal
Type: EN13773

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TEST REPORT

Nr. 45 330

Applied on 2003-09-04
Reference PSP/R5
Received on 2003-09-04
Application Testing the burning behaviour according to EN 13772 and classification according to EN 13773.

Test Material Samples provided by the customer:
~ 5 running meters curtain

Received on 2003-08-06
Sample Denomination "COTTON VELVET quality M8 954,
col. flame no. 6 (Flacaron R neu, 85 5867)"

SPECIMEN

Seite 1 von 1
12/11
12/11/05

Druckgröße
8 x 11 x 4
100 mm
4/11/1000

EN 451
AMMEDI
QC 937
78-01/0

Approved for use by the test house in the laboratory in accordance with the applicable standards.



Institut der
Textilwirtschaft
Prüfungsinstitut
Angewandte Wäsche



Institut der
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Gemeinschaft
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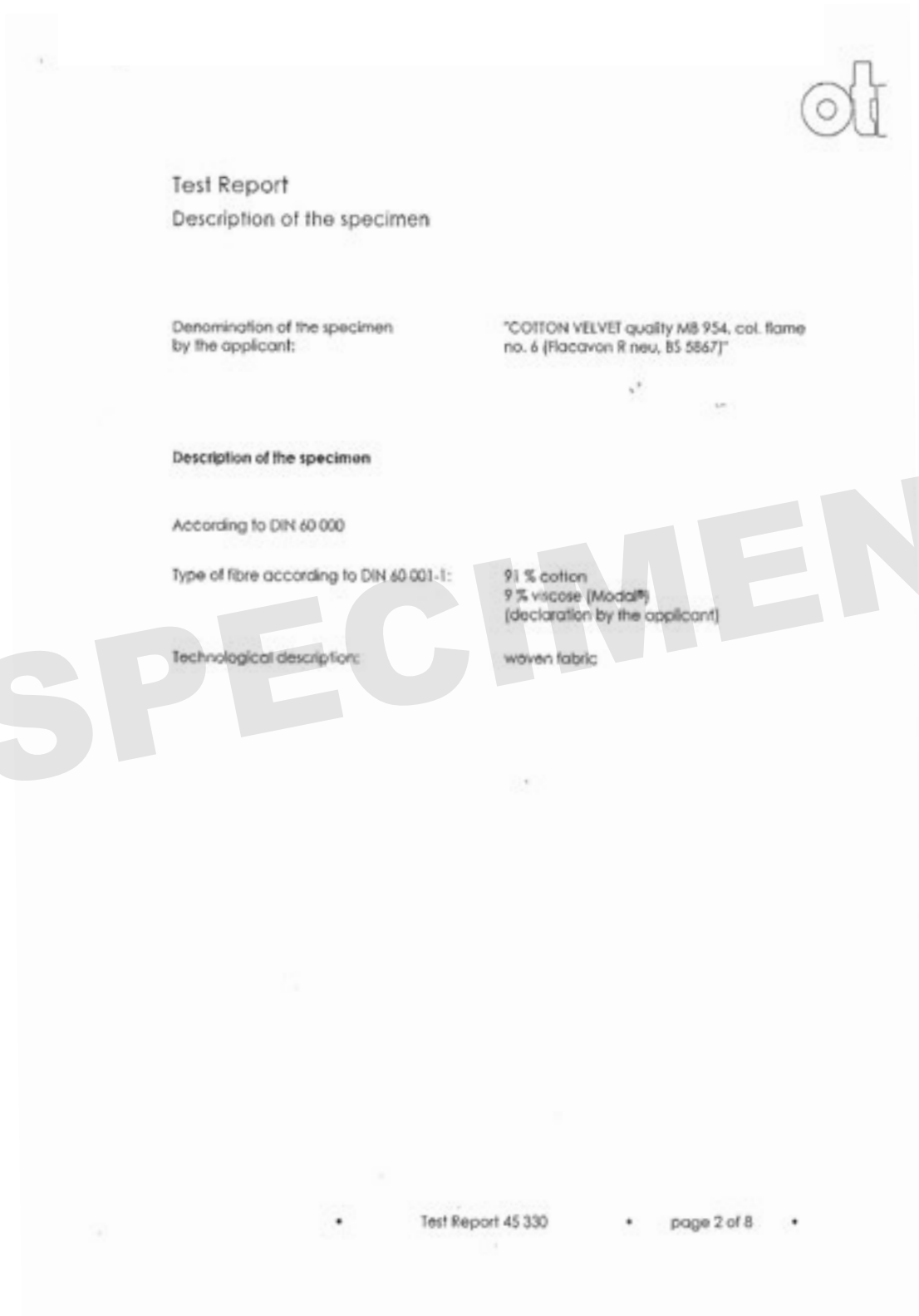


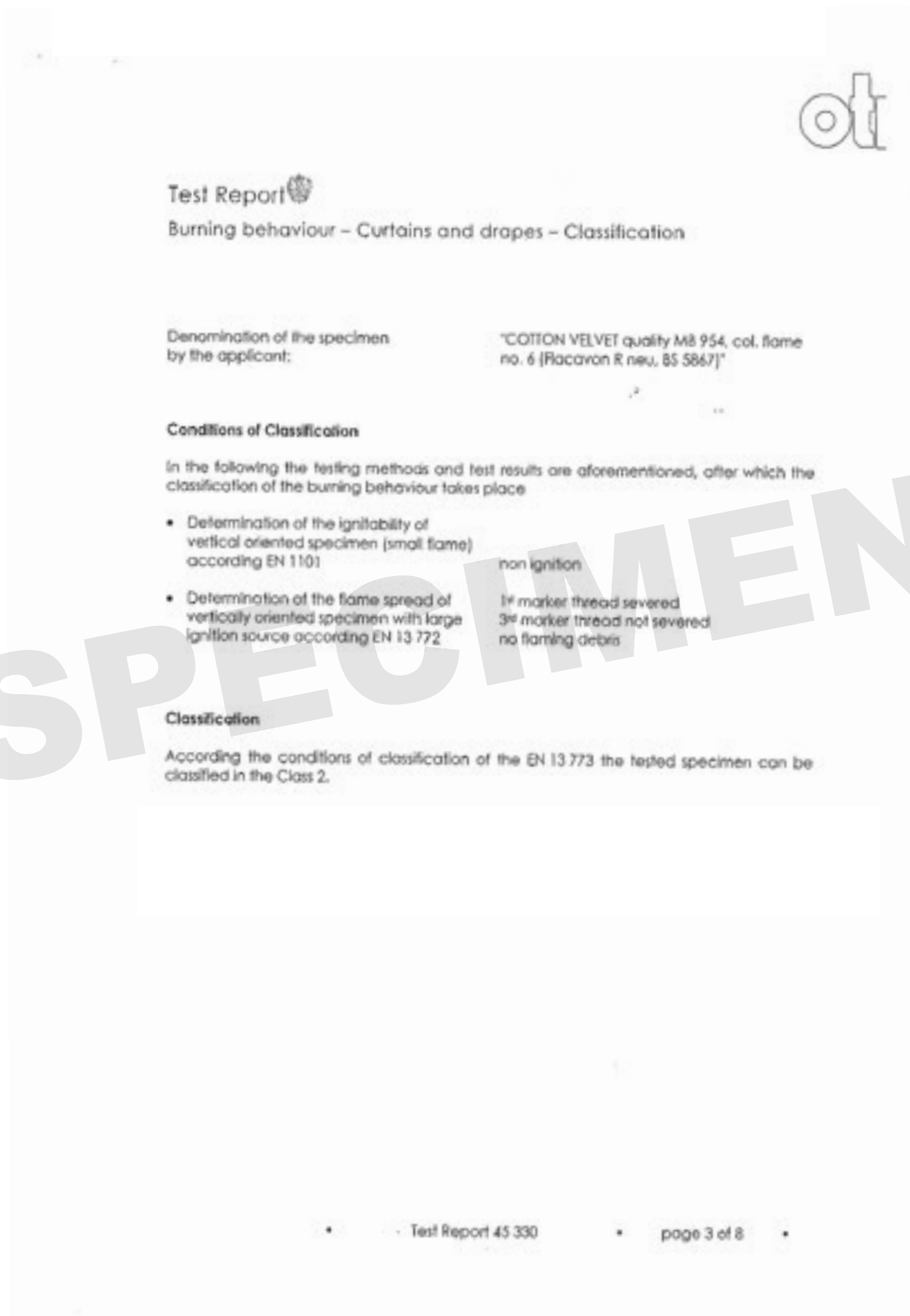
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Fire Test Certificate

Fabric: Royal
Type: EN13773





Fire Test Certificate

Fabric: Royal
Type: EN13773



Note:

In order to make the comparison between the past ÖNORM-system and the new system from EN 13773 possible, the ÖNORM EN 13 773 contains the following national foreword.

National foreword

On the basis of the classification guidelines for the burning behaviour of curtain according to the Austrian Prastandard VORNORM ÖNORM B3820 "burning behaviour of curtains", the following comparison table is intended to harmonize the classification of burning behaviour of curtains and drapes, in order to be able to compare the former system given by the ÖNORM with the new system by this European Standard:

| VORNORM ÖNORM B 3820 | ÖNORM EN 13 773 |
|-------------------------|-----------------|
| ignitability class | Klasse |
| B1 - hardly flammable | 1/2 |
| B2 - normally flammable | 3/4 |
| B3 - easily flammable | 5 |


This conversion table offers the possibility to transfer the classes from one system into the other (and vice-versa), as specified in this standard.

SPECIMEN

Fire Test Certificate

Fabric: Royal
Type: EN13773

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Test Report

Determination of the ignitability of vertically oriented specimen
[small flame]

Denomination of the specimen by the applicant: "COTTON VELVET quality MB 954, col. flame no. 6 [Racavon R neu, BS 5867]"

Test conditions

| | |
|--------------------------|---|
| According to | EN 1101 |
| Conditioning climate: | 20 ± 2 °C/ 65 % relative humidity |
| Test climate: | temperature: 26,1 °C relative humidity: 38,0 % |
| Specimen size: | 200 mm x 60 mm |
| Test gas: | Propan |
| Mode of ignition: | Bottom edge ignition |
| Flamed side: | right side of the sample |
| Cleaning procedure: | none |
| Deviation from standard: | none |

• Test Report 45 330 • page 5 of 8 •

Fire Test Certificate

Fabric: Royal
Type: EN13773



Test results

Longitudinal direction

Cross direction

| Ignition time | Ignition within 20s: | | Ignition time | Ignition within 20s: | |
|---------------|----------------------|--------------|---------------|----------------------|--------------|
| | Number of ignitions | no ignitions | | Number of ignitions | no ignitions |
| s | | | s | | |
| s | | | s | | |
| s | | | s | | |
| s | | | s | | |
| s | | | s | | |
| s | | | s | | |
| s | | | s | | |
| s | | | s | | |

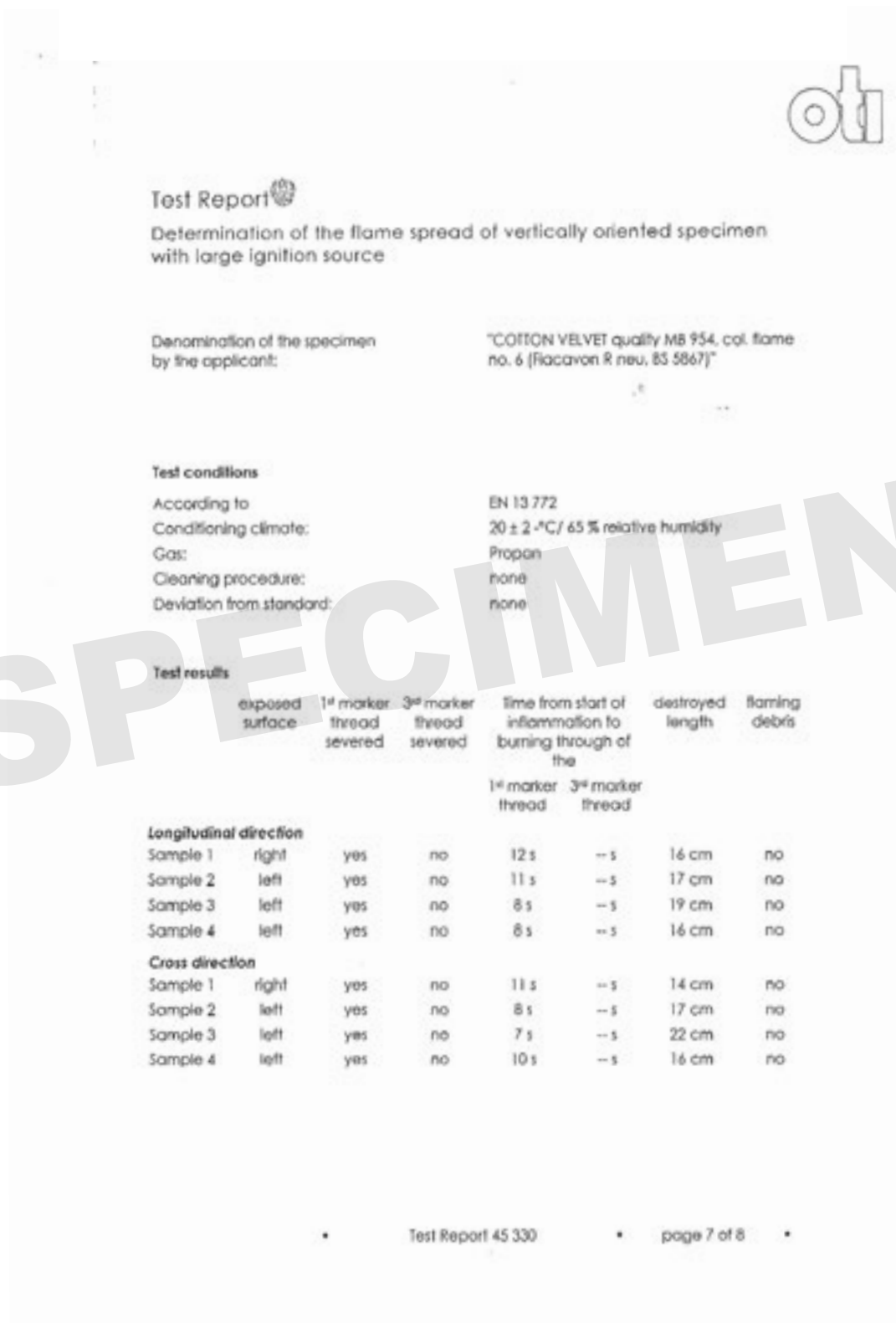
Middle ignition time: > 20 s Middle ignition time: > 20 s
Minimum ignition time: > 20 s Minimum ignition time: > 20 s

Note:

The calculation of the middle ignition time referred on the determined numbers of not ignitions (according ISO 6940 Annex 8)

Fire Test Certificate

Fabric: Royal
Type: EN13773









Fire Test Certificate

Fabric: Royal
Type: EN13773

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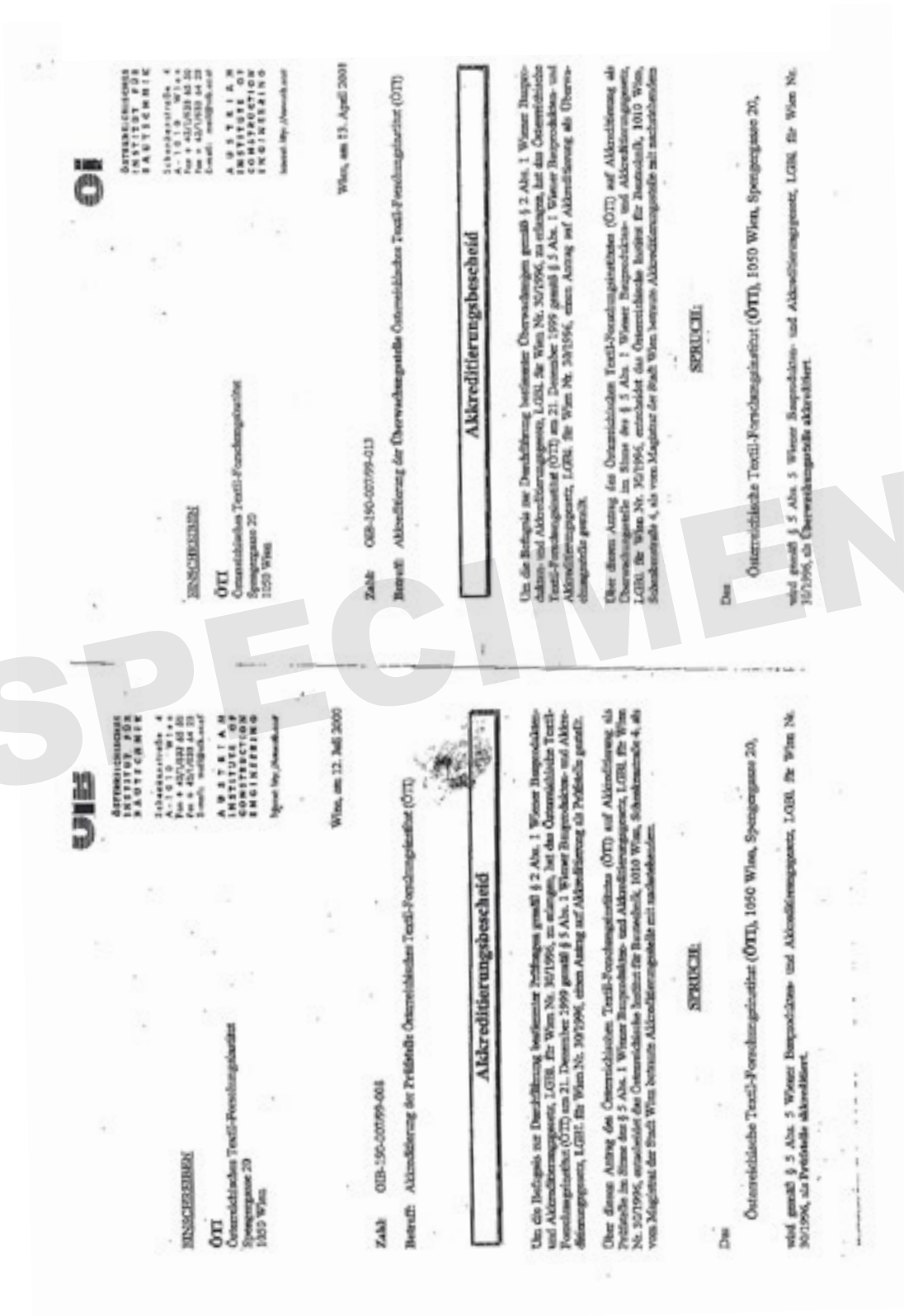
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Fire Test Certificate

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Type: EN13773

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Fire Test Certificate

Fabric: Royal
Type: IMO

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Website: www.bttg.co.uk

Date: 25 October 2019
Our Ref: 23/56904-2
Your Ref: 58584
Page: 1 of 5

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

Job Title: Fire Test on One Sample of Fabric

Client's Order No: 58484

Date of Receipt: 15 October 2019

Description of Sample(s): One sample of fabric, referenced;
Velvet NDFR

Work Requested: We were asked to make the following test(s):
IMO FTP Code 2010 Part 7

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited



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Fire Test Certificate

Fabric: Royal
Type: IMO

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Client: J. & C. Joel Limited

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Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 25 October 2019

Our Ref: 23/56904-2
Your Ref: 58484

Page: 2 of 5

Product Description

| | |
|---|------------------------|
| Company Name | J. & C. Joel Ltd |
| Type of Material, i.e. Curtain, Drape, etc. | Drapery and Backdrops |
| Name and/or Identification of the Product Tested | Velvet Velour |
| Mass per Unit Area (g/m ²) | 375gsm/395gsm |
| Thickness (mm) | 1mm |
| Colour and Tone (i) | Burgundy |
| Quantity and Number of Any Coating | None |
| Method and Quantity of Fire Retardant Treatment | 100% Immersion |
| Materials of the Product and its Composite Ratio (ii) | 100% cotton |
| Composition of Weave (iii) | 'V' weave velvet |
| Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and | Not supplied by client |
| Yarn Number Count | Not supplied by client |


(i) If the product has a pattern, the representative colour shall be described.


(ii) Such as wool, nylon, polyester, etc.


(iii) Such as plain, weave, twilled;




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Fire Test Certificate

Fabric: Royal
Type: IMO

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Client: J. & C. Joel Limited

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Website: www.bttg.co.uk

Date: 25 October 2019

Our Ref: 23/56904-2
Your Ref: 58484

Page: 3 of 5

FIRE TESTS ACCORDING to IMO FTP Code 2010:Part 7 Test for Vertically Supported Textiles and Films

Cleaning Procedure

The sample received no pre-treatment as the fabric is stated to be non durably flame retardant.

Conditioning

The sample was conditioned for 72 hours in the standard atmosphere for conditioning textiles of $20 \pm 5^{\circ}\text{C}$ and $65 \pm 5\% \text{ R.H.}$

Procedure

The sample was tested in accordance with IMO FTP Code 2010:Part 7. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

A 40mm high propane gas flame was applied to the face of 5 warp and 5 weft specimens for 15 seconds.

The after-flame time, length of char, existence of surface flashing and ignition of cotton waste from drops were recorded.

Requirements




The Performance Criteria for Curtains and Drapes states that: Products which show any of the following characteristics obtained by the fire test in appendix 1, shall be considered unsuitable for use as curtains, drapes or free-hanging fabric product for use in rooms containing furniture and furnishings of restricted fire risk as defined in the relevant regulations of chapter II-2 of the Convention:-.




1. An after-flame time greater than 5 sec for any of the 10 or more specimens tested with surface application of the pilot flame.
2. Burn through to any edge of any of the 10 or more specimens tested with surface application of the pilot flame.
3. Ignition of cotton wool below specimen in any of the 10 or more specimens tested.
4. An average char length in excess of 150mm observed in any of the 10 or more specimens tested by either surface or edge ignition; and
5. The occurrence of a surface flash propagating more than 100mm from the point of ignition with or without charring of the base fabric.

If it is found that either or both of the batches of five specimens cut in both warp and weft directions fail to meet one or more of the criteria specified in subparagraphs .1 to .3 and .5 above because of poor performance of only one of the five specimens tested, one complete retest of a similar batch is permitted. Failure of the second batch to meet any of the criteria shall provide the basis for rejection of the fabric for use.



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Fire Test Certificate

Fabric: Royal
Type: IMO

J&C Joel 
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Client: J. & C. Joel Limited

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Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 25 October 2019

Our Ref: 23/56904-2
Your Ref: 58484

Page: 4 of 5

As Received

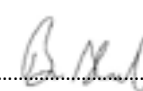
| | After flame time (s) | | Char length (mm) | | Flaming to edge (yes or No) | | Ignition of Cotton Wool from Flaming Drops (Yes or No) | | Surface Flashing (Yes or No), if yes, Propagation Length (mm) | |
|------|----------------------|------|------------------|------|-----------------------------|------|--|------|---|------|
| | Warp | Weft | Warp | Weft | Warp | Weft | Warp | Weft | Warp | Weft |
| | 0 | 0 | 51 | 54 | No | No | No | No | No | No |
| | 0 | 0 | 48 | 48 | No | No | No | No | No | No |
| | 0 | 0 | 53 | 53 | No | No | No | No | No | No |
| | 0 | 0 | 48 | 51 | No | No | No | No | No | No |
| | 0 | 0 | 46 | 47 | No | No | No | No | No | No |
| Mean | 0 | 0 | 49 | 51 | | | | | | |


Comment

The results indicate the sample meets the requirements according to IMO 2010 FTP Code, Part 7.

This report relates only to the samples submitted and as described in the report.




Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.




Reported by: 
B Bland
Laboratory Technician

Countersigned By: 
P Doherty
Manager



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Fire Test Certificate

Fabric: Royal

Type: IMO

J&C Joel 
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Website: www.bttg.co.uk

Date: 25 October 2019
Our Ref: 23/56904-2
Your Ref: 58484
Page: 5 of 5

Uncertainty Budget - Annex




The overall uncertainty budget IMO FTP Code 2010:Part 7 is as follows:-




Measurements: $\pm 1\text{mm}$
Duration of Flaming: ± 0.5 seconds

SPECIMEN



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Fire Test Certificate

Fabric: Royal
Type: NFPA 701

J&C Joel 
Inspiration in every performance

SGS GOVMARK

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email: govmark.accounting@sgs.com

Page 1

| | | | | | |
|--|----------------------|--|----|--------------|---------------------------|
| Received:02/15/2019 | Completed:02/18/2019 | Letter: N | BG | P.O.#: 55778 | Test Report #: 3-30911-0- |
| Client's Identification | | Style: Velvet Velour 122cm wide. Date of Mfg.: February 2019. Composition: 100% Cotton. Weight: 375/395 gsm. Product End Use: Stage Draperies/Event Draperies. (see continuation) | | | |
| Tested For: Andrew Walsh J & C Joel, Ltd. Corporation Mill, Corporation St.UK Sowerby Brdg, Halifax, W Yorkshire | | Key Test: NFPA 701-2019 TM#1 | | 275 | |
| | | Tel: 011 422 833 835 | | Ext: | |
| | | Fax: | | | |

CLIENT'S IDENTIFICATION (continuation):

Additional Information: Dyed and Treated with Flame-Retardant Solution.

LE:2019 V:01/19 PC: 0.5H DL/jd

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2019 Edition - Test Method #1

PRODUCT CONFIGURATION: Single Layer; Multi Layer

RESULTS REPORTED: Initially; After 3 dry cleanings; After 5 launderings @ 160°F

RESULTS:

| Specimen # | Afterflame* (seconds) | Flaming Drip/Debris (seconds) | Weight Loss (percent) |
|------------|-----------------------|-------------------------------|-----------------------|
| 1 | 0 | 0 | 26.7 |
| 2 | 0 | 0 | 23.4 |
| 3 | 0 | 0 | 22.6 |
| 4 | 0 | 0 | 24.5 |
| 5 | 0 | 0 | 23.8 |
| 6 | 0 | 0 | 25.2 |
| 7 | 0 | 0 | 23.1 |
| 8 | 0 | 0 | 27.1 |
| 9 | 0 | 0 | 27.4 |
| 10 | 0 | 0 | 26.0 |
| | Mean: | 0 | Mean: 25.0 |

STATISTICAL VALUES: SD = 1.7 3 SD = 5.2 Mean + 3 SD = 30.2

ABBREVIATIONS USED: SD = Standard deviation. NT = Not tested.

APPROXIMATE WEIGHT OF MATERIAL (as measured by SGS Govmark): 348 g/m²

PRECONDITIONING: 0.5 hr @ 220°F (Standard)
 24 hrs @ 68±9°F (Alternate: Material shrinks/distorts @ 220°F)

CONVERSION FACTOR: g/m² = 28.35 x .835 = oz/yd²

NOTE:

- All specimens prepared in the length direction.
- See addendum for individual specimen weights.

[Page 1 of 2]

Fire Test Certificate


Fabric: Royal
Type: NFPA 701

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Page 2

| Received:02/15/2019 | Completed:02/18/2019 | Letter: N | BG | P.O.#: 55778 | Test Report #: 3-30911-0- | | | | | | | | | | |
|---|---|-----------------------|---------------------|--------------|---------------------------|------------|----------------------------|-----------------------|--|------|---------------------|---|-------------------|-------------|---------------------|
| Client's Identification | Style: Velvet Velour 122cm wide. Date of Mfg.: February 2019. Composition: 100% Cotton. Weight: 375/395 gsm. Product End Use: Stage Draperies/Event Draperies. (see continuation) | | | | | | | | | | | | | | |
| Tested For: Andrew Walsh J & C Joel, Ltd. Corporation Mill, Corporation St.UK Sowerby Brdg.Halifax,W Yorkshire | Key Test: NFPA 701-2019 TM#1 | | | 275 | | | | | | | | | | | |
| <p>REMARKS:</p> <p><input checked="" type="checkbox"/> Flames did not project above the top of the specimen. <input type="checkbox"/> Flames projected above the top of the specimen; Specimen #'s _____ <input type="checkbox"/> Other: _____</p> <p>FAILURE CRITERIA: As cited by NFPA 701 - 2019 Edition Test Method #1</p> <table border="1"> <thead> <tr> <th rowspan="2">Afterflame</th> <th rowspan="2">Flaming Drip/Debris (Mean)</th> <th colspan="2">Weight Loss (percent)</th> </tr> <tr> <th>Mean</th> <th>Individual Specimen</th> </tr> </thead> <tbody> <tr> <td>*</td> <td>Exceeds 2 seconds</td> <td>Exceeds 40%</td> <td>Exceeds Mean + 3 SD</td> </tr> </tbody> </table> <p>CONCLUSION: Based on the Results on page 1 and the above Failure Criteria cited by NFPA 701 - 2019 Edition Test Method #1, the item tested:</p> <p><input checked="" type="checkbox"/> Passes; <input type="checkbox"/> Fails; <input type="checkbox"/> Requires testing of 10 additional specimens i.e. only one individual specimen failure was noted</p> <p>* Afterflame is required to be recorded; however, the NFPA document does not factor it into the Failure Criteria reporting requirements. It should be noted that excessive afterflames could be cause for rejection by local fire authorities performing "match" field tests.</p> <p>CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.</p> <p> AUTHORIZED SIGNATURE SGS GOVMARK /jap /ptm</p> <p>Phyllis Pettit FEB 25 2019</p> <p>(Page 2 of 2)</p> | | | | | | Afterflame | Flaming Drip/Debris (Mean) | Weight Loss (percent) | | Mean | Individual Specimen | * | Exceeds 2 seconds | Exceeds 40% | Exceeds Mean + 3 SD |
| Afterflame | Flaming Drip/Debris (Mean) | Weight Loss (percent) | | | | | | | | | | | | | |
| | | Mean | Individual Specimen | | | | | | | | | | | | |
| * | Exceeds 2 seconds | Exceeds 40% | Exceeds Mean + 3 SD | | | | | | | | | | | | |

The results contained in this report relate only to item(s) tested. The test report shall not be reproduced, except in full, without written approval from Govmark.

Fire Test Certificate

Fabric: Royal
Type: NFPA 701


J&C Joel 
Inspiration in every performance


SGS GOVMARK


Client Name : J&C Joel Ltd.
Addendum to Test Report #: 3-30911-0
Test : 701 TM#1

| Specimen # | Weight Before Test (g) | Weight After Test (g) | Percent Weight Loss |
|------------|--------------------------|-------------------------|---------------------|
| 1 | 21.00 | 15.40 | 26.7 |
| 2 | 21.40 | 16.40 | 23.4 |
| 3 | 21.20 | 16.40 | 22.6 |
| 4 | 22.00 | 16.60 | 24.5 |
| 5 | 21.00 | 16.00 | 23.8 |
| 6 | 21.40 | 16.00 | 25.2 |
| 7 | 21.60 | 16.60 | 23.1 |
| 8 | 21.40 | 15.60 | 27.1 |
| 9 | 21.20 | 15.40 | 27.4 |
| 10 | 20.80 | 15.40 | 26.0 |


Mean Percent Weight Loss : 25.0
Standard Deviation : 1.7
3 x Standard Deviation : 5.2
Mean + 3 x Standard Deviation : 30.2


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Acoustic Test Report - Absorption

Absorption Class: C C
Calculated to EN ISO 11654:1997
Fabric: Countess Royal
Fullness: 50% 50%
Cavity from Wall: 100mm 100mm

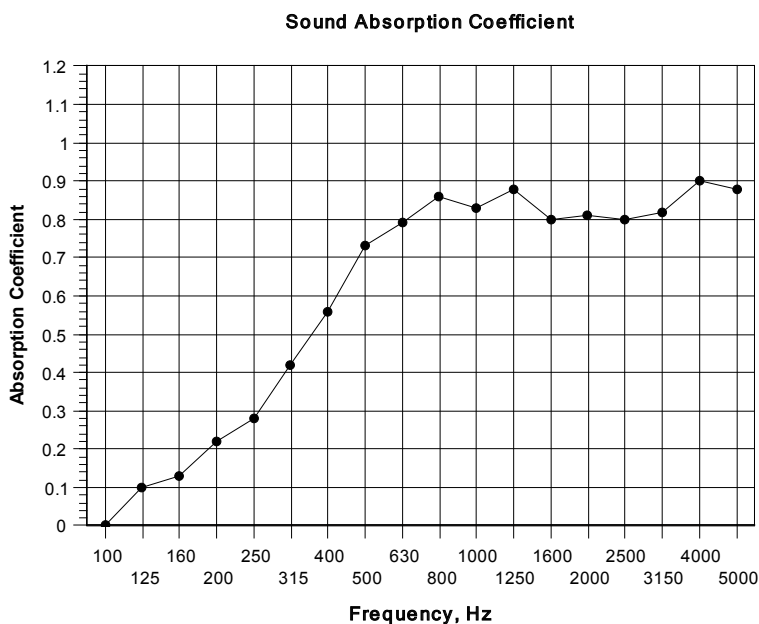
Data Sheet 28

The Laboratory Measurement of Random Incidence Sound Absorption generally to BS EN ISO 354:2003

Client: J&C Joel Ltd
Test Date: 20/05/2014
Empty Room: **Temperature:** 19.0 °C **Humidity:** 62 %RH **Pressure:** 999 mbar
Room with Sample: **Temperature:** 19.1 °C **Humidity:** 60 %RH **Pressure:** 1001 mbar
Sample Description: - Single Layer - 50% fullness (Approx. weight 375g/m²) - 100mm cavity from wall

Mounting Method: G-100
Sample Area: 9 m²
Chamber Volume: 300 m³

| Test 30 | | | | |
|---------|--------|--------|--------------|--------------------------|
| Freq Hz | T1 sec | T2 sec | Absorp Coeff | Practical Absorp Coeff # |
| 50* | 5.33 | 5.70 | -0.07 | |
| 63* | 5.40 | 4.73 | 0.14 | n/a |
| 80* | 6.56 | 6.07 | 0.07 | |
| 100 | 7.57 | 7.59 | -0.00 | |
| 125 | 7.11 | 6.26 | 0.10 | 0.10 |
| 160 | 6.42 | 5.56 | 0.13 | |
| 200 | 7.12 | 5.50 | 0.22 | |
| 250 | 7.07 | 5.15 | 0.28 | 0.30 |
| 315 | 6.84 | 4.46 | 0.42 | |
| 400 | 6.46 | 3.87 | 0.56 | |
| 500 | 5.45 | 3.13 | 0.73 | 0.70 |
| 630 | 4.96 | 2.87 | 0.79 | |
| 800 | 5.47 | 2.92 | 0.86 | |
| 1000 | 5.91 | 3.09 | 0.83 | 0.85 |
| 1250 | 5.59 | 2.92 | 0.88 | |
| 1600 | 5.06 | 2.89 | 0.80 | |
| 2000 | 4.75 | 2.76 | 0.81 | 0.80 |
| 2500 | 4.34 | 2.63 | 0.80 | |
| 3150 | 3.64 | 2.33 | 0.82 | |
| 4000 | 3.09 | 2.02 | 0.90 | 0.85 |
| 5000 | 2.44 | 1.73 | 0.88 | |
| 6300* | 1.79 | 1.38 | 0.85 | |
| 8000* | 1.51 | 1.18 | 0.92 | n/a |
| 10000* | 1.06 | 0.83 | 1.30 | |



α_w 0.60(MH)
 Class C
Calculated to EN ISO 11654:1997
 NRC 0.65
Calculated to ASTM C 423-01
 * Denotes frequencies outside the range covered by BS EN ISO 354:2003
 T1, empty room reverberation time
 T2, room reverberation time with sample

Practical absorption coefficient, BS EN ISO 11654:1997

Acoustic Test Report - Absorption

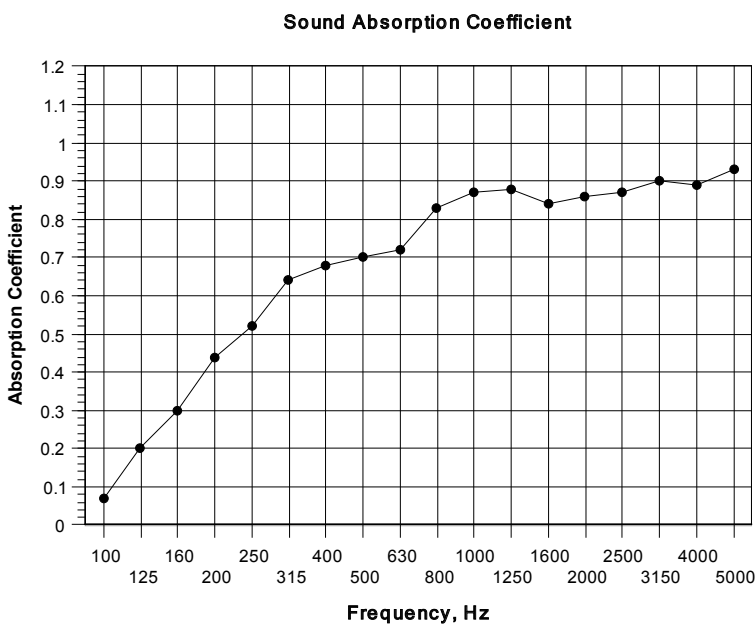
Absorption Class: C C
Calculated to EN ISO 11654:1997
Fabric: Countess Royal
Fullness: 50% 50%
Cavity from Wall: 100mm 350mm

[Data Sheet 27](#)

The Laboratory Measurement of Random Incidence Sound Absorption generally to BS EN ISO 354:2003

Client: J&C Joel Ltd
Test Date: 20/05/2014
Empty Room: **Temperature:** 19.0 °C **Humidity:** 62 %RH **Pressure:** 999 mbar
Room with Sample: **Temperature:** 19.1 °C **Humidity:** 60 %RH **Pressure:** 1001 mbar
Sample Description: – Single Layer – 50% fullness (Approx. weight 375g/m²) – 350mm cavity from wall
Mounting Method: G-350
Sample Area: 9 m²
Chamber Volume: 300 m³

| Test 29 | | | | |
|---------|--------|--------|--------------|--------------------------|
| Freq Hz | T1 sec | T2 sec | Absorp Coeff | Practical Absorp Coeff # |
| 50* | 5.33 | 5.73 | -0.07 | |
| 63* | 5.40 | 4.45 | 0.21 | n/a |
| 80* | 6.56 | 5.72 | 0.12 | |
| 100 | 7.57 | 6.88 | 0.07 | |
| 125 | 7.11 | 5.60 | 0.20 | 0.20 |
| 160 | 6.42 | 4.71 | 0.30 | |
| 200 | 7.12 | 4.51 | 0.44 | |
| 250 | 7.07 | 4.19 | 0.52 | 0.55 |
| 315 | 6.84 | 3.76 | 0.64 | |
| 400 | 6.46 | 3.56 | 0.68 | |
| 500 | 5.45 | 3.18 | 0.70 | 0.70 |
| 630 | 4.96 | 2.98 | 0.72 | |
| 800 | 5.47 | 2.97 | 0.83 | |
| 1000 | 5.91 | 3.03 | 0.87 | 0.85 |
| 1250 | 5.59 | 2.92 | 0.88 | |
| 1600 | 5.06 | 2.82 | 0.84 | |
| 2000 | 4.75 | 2.70 | 0.86 | 0.85 |
| 2500 | 4.34 | 2.54 | 0.87 | |
| 3150 | 3.64 | 2.25 | 0.90 | |
| 4000 | 3.09 | 2.03 | 0.89 | 0.90 |
| 5000 | 2.44 | 1.70 | 0.93 | |
| 6300* | 1.79 | 1.33 | 0.99 | |
| 8000* | 1.51 | 1.15 | 1.04 | n/a |
| 10000* | 1.06 | 0.84 | 1.22 | |



A_w 0.75(H)
 Class C
Calculated to EN ISO 11654:1997
NRC 0.75
Calculated to ASTM C 423-01
 * Denotes frequencies outside the range covered by BS EN ISO 354:2003
 T1, empty room reverberation time
 T2, room reverberation time with sample

Practical absorption coefficient, BS EN ISO 11654:1997

v4.3

Acoustic Test Report - Absorption

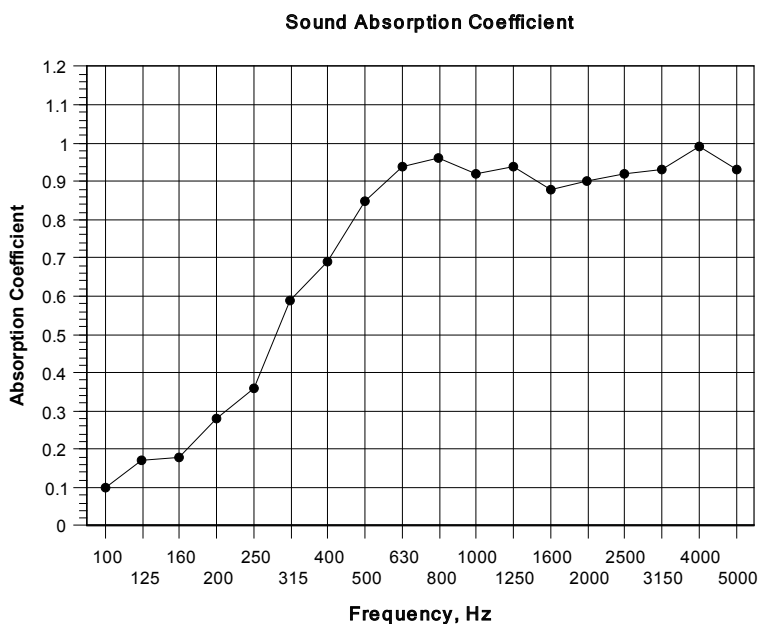
Absorption Class: C C
Calculated to EN ISO 11654:1997
Fabric: Countess Royal
Fullness: 50% 100%
Cavity from Wall: 100mm 100mm

[Data Sheet 29](#)

The Laboratory Measurement of Random Incidence Sound Absorption generally to BS EN ISO 354:2003

Client: J&C Joel Ltd
Test Date: 20/05/2014
Empty Room: **Temperature:** 19.0 °C **Humidity:** 62 %RH **Pressure:** 999 mbar
Room with Sample: **Temperature:** 19.2 °C **Humidity:** 60 %RH **Pressure:** 1001 mbar
Sample Description: – Single Layer – 100% fullness (Approx. weight 375g/m²) – 100mm cavity from wall
Mounting Method: G-100
Sample Area: 9 m²
Chamber Volume: 300 m³

| Test 31 | | | | |
|---------|--------|--------|--------------|--------------------------|
| Freq Hz | T1 sec | T2 sec | Absorp Coeff | Practical Absorp Coeff # |
| 50* | 5.33 | 5.59 | -0.05 | |
| 63* | 5.40 | 4.51 | 0.20 | n/a |
| 80* | 6.56 | 5.96 | 0.08 | |
| 100 | 7.57 | 6.67 | 0.10 | |
| 125 | 7.11 | 5.78 | 0.17 | 0.15 |
| 160 | 6.42 | 5.29 | 0.18 | |
| 200 | 7.12 | 5.20 | 0.28 | |
| 250 | 7.07 | 4.80 | 0.36 | 0.40 |
| 315 | 6.84 | 3.91 | 0.59 | |
| 400 | 6.46 | 3.53 | 0.69 | |
| 500 | 5.45 | 2.93 | 0.85 | 0.85 |
| 630 | 4.96 | 2.66 | 0.94 | |
| 800 | 5.47 | 2.77 | 0.96 | |
| 1000 | 5.91 | 2.94 | 0.92 | 0.95 |
| 1250 | 5.59 | 2.83 | 0.94 | |
| 1600 | 5.06 | 2.77 | 0.88 | |
| 2000 | 4.75 | 2.64 | 0.90 | 0.90 |
| 2500 | 4.34 | 2.48 | 0.92 | |
| 3150 | 3.64 | 2.23 | 0.93 | |
| 4000 | 3.09 | 1.96 | 0.99 | 0.95 |
| 5000 | 2.44 | 1.70 | 0.93 | |
| 6300* | 1.79 | 1.36 | 0.91 | |
| 8000* | 1.51 | 1.17 | 0.97 | n/a |
| 10000* | 1.06 | 0.83 | 1.31 | |



α_w 0.70(MH)
Class C
 Calculated to EN ISO 11654:1997
NRC 0.75
 Calculated to ASTM C 423-01
 * Denotes frequencies outside the range covered
 by BS EN ISO 354:2003
 T1, empty room reverberation time
 T2, room reverberation time with sample

Practical absorption coefficient, BS EN ISO 11654:1997

v4.3

Acoustic Test Report - Absorption

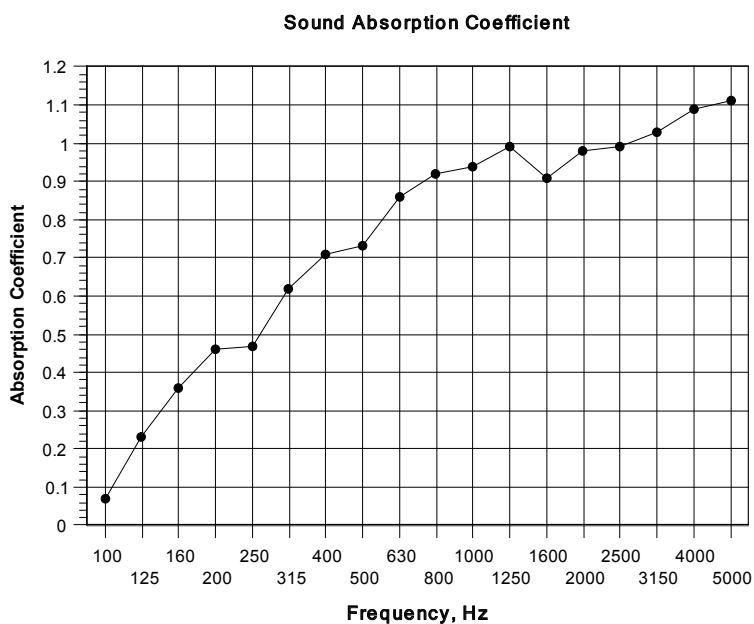
Absorption Class: C C
Calculated to EN ISO 11654:1997
Fabric: Countess Royal
Fullness: 50% 100%
Cavity from Wall: 100mm 350mm

[Data Sheet 30](#)

The Laboratory Measurement of Random Incidence Sound Absorption generally to BS EN ISO 354:2003

Client: J&C Joel Ltd
Test Date: 20/05/2014
Empty Room: **Temperature:** 19.0 °C **Humidity:** 62 %RH **Pressure:** 999 mbar
Room with Sample: **Temperature:** 19.2 °C **Humidity:** 60 %RH **Pressure:** 1001 mbar
Sample Description: – Single Layer – 100% fullness (Approx. weight 375g/m²) – 350mm cavity from wall
Mounting Method: G-350
Sample Area: 9 m²
Chamber Volume: 300 m³

| Test 32 | | | | |
|--|--------|--------|--------------|--------------------------|
| Freq Hz | T1 sec | T2 sec | Absorp Coeff | Practical Absorp Coeff # |
| 50* | 5.33 | 4.99 | 0.07 | |
| 63* | 5.40 | 4.63 | 0.17 | n/a |
| 80* | 6.56 | 5.71 | 0.12 | |
| 100 | 7.57 | 6.85 | 0.07 | |
| 125 | 7.11 | 5.46 | 0.23 | 0.20 |
| 160 | 6.42 | 4.50 | 0.36 | |
| 200 | 7.12 | 4.41 | 0.46 | |
| 250 | 7.07 | 4.38 | 0.47 | 0.50 |
| 315 | 6.84 | 3.83 | 0.62 | |
| 400 | 6.46 | 3.48 | 0.71 | |
| 500 | 5.45 | 3.14 | 0.73 | 0.75 |
| 630 | 4.96 | 2.77 | 0.86 | |
| 800 | 5.47 | 2.83 | 0.92 | |
| 1000 | 5.91 | 2.91 | 0.94 | 0.95 |
| 1250 | 5.59 | 2.76 | 0.99 | |
| 1600 | 5.06 | 2.73 | 0.91 | |
| 2000 | 4.75 | 2.54 | 0.98 | 0.95 |
| 2500 | 4.34 | 2.41 | 0.99 | |
| 3150 | 3.64 | 2.14 | 1.03 | |
| 4000 | 3.09 | 1.89 | 1.09 | 1.00 |
| 5000 | 2.44 | 1.61 | 1.11 | |
| 6300* | 1.79 | 1.34 | 0.97 | |
| 8000* | 1.51 | 1.13 | 1.14 | n/a |
| 10000* | 1.06 | 0.80 | 1.56 | |
| <i>A_w</i> 0.75(H) | | | | |
| Class C | | | | |
| <small>Calculated to EN ISO 11654:1997</small> | | | | |
| NRC 0.80 | | | | |
| <small>Calculated to ASTM C 423-01</small> | | | | |
| <small>* Denotes frequencies outside the range covered by BS EN ISO 354:2003</small> | | | | |
| <small>T1, empty room reverberation time</small> | | | | |
| <small>T2, room reverberation time with sample</small> | | | | |



Practical absorption coefficient, BS EN ISO 11654:1997



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