

Projection Screen Midnight Blue

Perfect For: • Decorative/Scenic • Film & TV • Stage • Event

J&C Joel 

the inspiration behind the performance

Contents

Composition & Care

220 cm 3

Fire Test Certificate

BS5867 Part 2 Type B 5

M2 9

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

Datasheet - Fabrics & Flooring

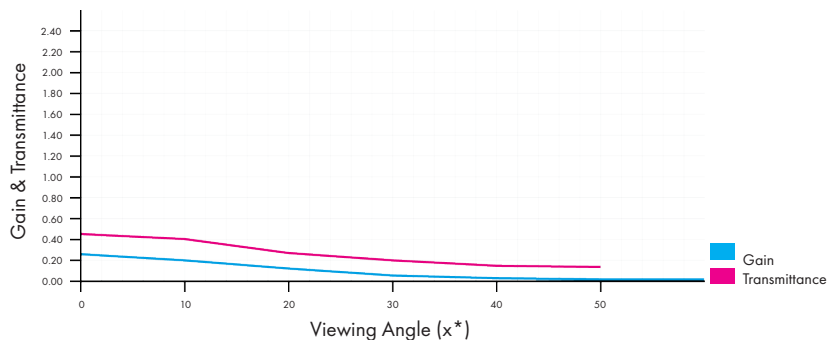
Midnight Blue Projection Screen

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

A rear projection screen suitable for use with a single projector providing a wide viewing angle.

Fabric	Flame Retardancy	DFR
	Fire Certification	BS5867, M2
	Brand Name (and Manufacturer)	J&C Joel Ltd.
	Material (Blending Ratio)	100% PVC
	Colour	Midnight Blue
	Construction of Fabric	Extruded
	Thickness	0.3mm
	Type of Screen	Rear
Chemicals	Surface Treatments	None
	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	Durably Flame Retardant. This means that this type of projection screen is chemically treated to meet the flammability requirements of BS5867. FR properties will be maintained if subject to moisture. For cleaning, use a soft damp cloth (water only).
	Laundering Treatment	     Do Not Dry Clean Do Not Wash Do Not Bleach Do Not Iron Do Not Tumble Dry
Notes		

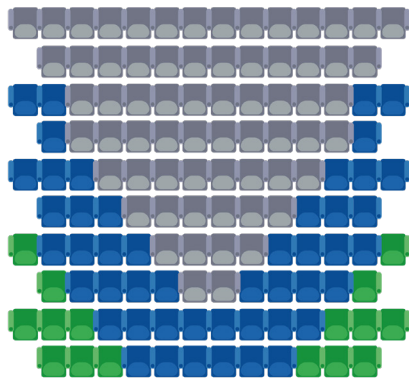
	Approx Roll Length: 60m / 197ft		Fire Rating: DFR
	Width: 220cm / 87"		Fire Certification: BS5867, M2
	Weight: 470 g/m²		Custom Dye N/A
	Gain: 0.25		Transmittance: 0.45



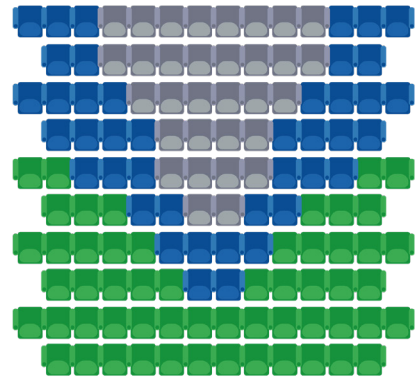
For further information please contact our sales team sales@jcjoel.com

Transmittance and gain perform in similar ways – a high gain (front projection) or transmittance (rear projection) screen will ultimately produce a brighter image in the centre of the viewing area. The higher the gain or transmittance the brighter the image will be making it more suitable for lower power projectors and environments with higher ambient light conditions.

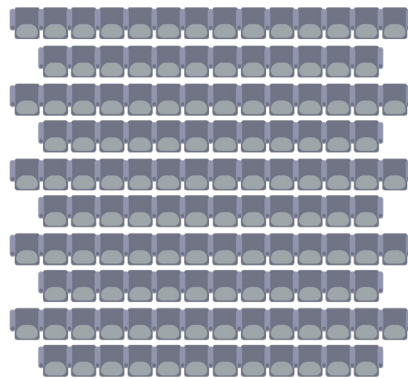
A high gain or transmittance screen will narrow the viewing angle with an increased chance of hot spotting and lower brightness uniformity. Low gain or transmittance provide wider viewing angles and a more even light distribution, ensuring a uniform brightness across the screen, suitable for low ambient light conditions.



Mid Gain



High Gain



Unity Gain

Gain

Gain is a measurement of screen reflectivity and affects brightness of projected imagery on to a screen surface. The figure represents a ratio of the light back from the screen compared to that of a standard reference screen normally a uniform matt white surface with a gain of 1.0.

Transmittance

Transmittance differs from gain in that it is a measurement of light passing through a screen and therefore only applies to rear projection surfaces. The transmittance value is the ratio of light passed through a screen compared to light reflected from a reference matt white surface.

For further information please contact our sales team sales@jcjoel.com

Fire Test Certificate – Specimen

Fabric: Midnight Blue - Projection Screen
Type: BS5867 Part 2 Type B

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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: 01 September 2017

Our Ref: 53939-3
Your Ref: -

Page: 1 of 4

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: 21 August 2017
Date of Test Start: 01 September 2017

Description of Sample(s): One sample identified as follows was received for testing:
PVC Projection Screen, stated to be DFR

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



1066

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Fire Test Certificate – Specimen

Fabric: Midnight Blue - Projection Screen
Type: BS5867 Part 2 Type B

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Sample was identified as follows:

PVC Projection Screen, stated to be DFR

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Date: 01 September 2017

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Your Ref: -

Page: 2 of 4

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.

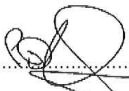
Testing after pre-treatment

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.



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Fire Test Certificate – Specimen

Fabric: Midnight Blue - Projection Screen
Type: BS5867 Part 2 Type B

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RESULTS

Sample Ref: PVC Projection Screen, stated to be DFR

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Website: www.bttg.co.uk

Date: 01 September 2017

Our Ref: 53939-3

Your Ref: -

Page: 3 of 4

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 in 'as received': Pass

Testing after pre-treatment

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 in 'after pre-treatment': Pass



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Fire Test Certificate – Specimen

Fabric: Midnight Blue - Projection Screen
Type: BS5867 Part 2 Type B

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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



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Fire Test Certificate – Specimen

Fabric: Midnight Blue - Projection Screen
Type: M2

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PROCES-VERBAL DE CLASSEMENT DE REACTION AU FEU D'UN MATERIAU

prévu à l'article 5 de l'arrêté du 21 novembre 2002

VALABLE 5 ANS à compter du 24 novembre 2021

N° P216565 - DEC/1

et annexe de 4 pages

Marque commerciale : PVC059 - Midnight Blue
Description sommaire :
Composition globale : Film de PVC ignifugé dans la masse
Utilisation : Fabrication d'écran pour les événements
Masse approx: 470 g/m²
Epaisseur : 0,3 mm
Coloris : Gris foncé (déterminé par le LNE)
Rapport d'essais : N° P216565 - DEC/1 du 24 novembre 2021
Nature des essais : Détermination du classement selon NF P 92-507 (février 2004)
Essai au brûleur électrique selon NF P 92-503 (décembre 1995)

Classement :

M2

VALABLE POUR TOUTE APPLICATION POUR LAQUELLE LE PRODUIT N'EST PAS SOUMIS AU MARQUAGE CE

Durabilité du classement (NF P 92-512 : 1986) : NON LIMITEE A PRIORI

Compte tenu des critères résultant des essais décrits dans le rapport d'essai N° P216565 - DEC/1 annexé.
Pour déterminer le classement, il n'a pas été tenu compte de l'incertitude associée au résultat.

Ce procès verbal atteste uniquement des caractéristiques de l'échantillon soumis aux essais et ne préjuge pas des caractéristiques de produits similaires. Il ne constitue pas une certification de produits au sens de l'article L.115-27 du code de la consommation et de la loi du 3 juin 1994.

Est seule autorisée la reproduction intégrale soit du présent Procès-verbal de classement qui comprend 1 page soit l'intégralité du Procès-Verbal et rapport annexé qui comporte 5 pages.

Trappes, le 24 novembre 2021



**Le Responsable du Département
Comportement au Feu et Sécurité Incendie**

Romuald GORJUP

522 R 0900-05 Rév.F
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Fire Test Certificate – Specimen

Fabric: Midnight Blue - Projection Screen
Type: M2

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RAPPORT D'ESSAI DE REACTION AU FEU D'UN MATERIAU

prévu à l'article 5 de l'arrêté du 21 novembre 2002

VALABLE 5 ANS à compter du 24 novembre 2021

N° P216565 - DEC/1

1. BUT DES ESSAIS

Les essais auxquels se rapporte ce rapport d'essai ont pour but de déterminer le classement des matériaux, conformément aux prescriptions de l'Arrêté du ministère de l'Intérieur en date du 21 novembre 2002 relatif à leur réaction au feu.

2. PROVENANCE ET CARACTERISTIQUES DES ECHANTILLONS

Caractéristiques attestées par le demandeur :

La validité des résultats peut être affectée par ces informations. Pour ces résultats, la responsabilité du LNE se limite à sa contribution à leur élaboration.

Date et référence de la commande : Bon pour accord sur devis n°DEV2110594-V2 du 15/10/2021

Marque commerciale et référence : **PVC059 - Midnight Blue**

Composition globale : Film de PVC ignifugé dans la masse

Masse approx: : 470 g/m²

Epaisseur : 0,3 mm

Coloris : Bleu nuit

Caractéristiques déterminées par le LNE :

Masse : (457 ± 46) g/m²

Epaisseur : (0,320 ± 0,032) mm

Coloris : Gris foncé

suite du rapport page suivante

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Fire Test Certificate – Specimen

Fabric: Midnight Blue - Projection Screen
Type: M2

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3. MODALITES DES ESSAIS

Date de réception des éprouvettes : 11/10/2021

Conditionnement des éprouvettes préalablement aux essais :

Les éprouvettes, éventuellement placées sur leurs subjectiles, sont conditionnées avant essai dans une atmosphère à $(23 \pm 2) ^\circ\text{C}$ et $(50 \pm 5) \%$ d'humidité relative pendant sept jours ou jusqu'à obtention de la masse constante (cas des matériaux livrés humides, ou de forte épaisseur).

La masse est considérée constante quand deux pesées successives à 24 h d'intervalle ne diffèrent pas de plus de 0,1 % ou de 0,1 g (on prendra la plus grande valeur de masse).

Date de réalisation des essais : 25/10/2021

4. RESULTATS

4.1. ESSAI AU BRULEUR ELECTRIQUE SELON NF P 92-503 (DECEMBRE 1995)

4.1.1. Détermination du mode le plus défavorable

	Eprouvette 1	Eprouvette 2	Eprouvette 3	Eprouvette 4
Sens	Fabrication Face lisse	Fabrication Face grainée	Travers Face lisse	Travers Face grainée
Coloris	Gris foncé	Gris foncé	Gris foncé	Gris foncé
Masse (g)	50.93	50.12	51.21	50.41
Percement	Oui	Oui	Oui	Oui
Moment d'inflammation (s)	–	20	45 75	20 45
Durée d'inflammation après retrait de la flamme pilote (s)	–	1	6 6	1 3
Propagation de points en ignition hors de la zone déjà carbonisée	–	–	–	–
Distance > 250 mm après 5 min	–	–	–	–
Chute de gouttes ou de débris enflammés	Non	Non	Non	Non
Fluage, chute de gouttes non enflammées	Non	Non	Non	Non
Longueur détruite/brûlée (mm)	160	160	160	175
Largeur détruite ou brûlée dans la zone au delà de 450 mm (mm)	–	–	–	–

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Fire Test Certificate – Specimen

Fabric: Midnight Blue - Projection Screen
Type: M2

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4.1.2. Poursuite des essais selon le mode le plus défavorable

	Eprouvette 5				Eprouvette 6				Eprouvette 7				Eprouvette 8			
Sens	Travers Face lisse				Travers Face lisse				Travers Face lisse				Travers Face lisse			
Coloris	Gris foncé				Gris foncé				Gris foncé				Gris foncé			
Masse (g)	51.21				49.83				50.50				50.29			
Percement	Oui				Oui				Oui				Oui			
Moment d'inflammation (s)	45	75			45	75			20	45			20	45		
Durée d'inflammation après retrait de la flamme pilote (s)	6	6			4	1			1	3			3	5		
Propagation de points en ignition hors de la zone déjà carbonisée	–				–				–				–			
Distance > 250 mm après 5 min	–				–				–				–			
Chute de gouttes ou de débris enflammés	Non				Non				Non				Non			
Fluage, chute de gouttes non enflammées	Non				Non				Non				Non			
Longueur détruite/brûlée (mm)	160				165				185				180			
Largeur détruite ou brûlée dans la zone au delà de 450 mm (mm)	–				–				–				–			

Durée d'inflammation $\leq$ 5 s	Non
Longueur moyenne < 350 mm	Oui
Largeur moyenne < 90 mm	Oui
Chute de gouttes enflammées	Non

suite du rapport page suivante

Fire Test Certificate – Specimen

Fabric: Midnight Blue - Projection Screen
Type: M2

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5. OBSERVATIONS CONCERNANT LES ESSAIS

NÉANT

Trappes, le 24 novembre 2021



**Le Responsable du
Département Comportement au
Feu et Sécurité Incendie**

Romuald GORJUP

Les résultats mentionnés ne sont applicables qu'aux échantillons, aux produits ou matériels soumis au LNE et tels qu'ils sont définis dans le présent document.

SPECIMEN

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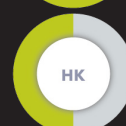
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