

# Banner (Digital Print)




**J&C Joel** 


the inspiration behind the performance


## Fire Certificate


B1 3

## 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<sup>2</sup>)

 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



# Fire Test Certificate – Specimen

**Fabric:** Banner (Digital Print)  
**Type:** B1

**quick-mix** 

quick-mix Gruppe, Forschung + Entwicklung

## Report of Brandschacht tests according to DIN 4102-1

Test-Nr.	01.52.5254.10	Date: 1 <sup>th</sup> July 2010
Applicant	Endutex Revestimentos Textéis SA, P-4795-784 Vilarinho, Portugal	
Material tested	woven Polyester fabric, freely suspended tested	
Material name	BACK EX FR	

**Material data**

Test thickness  
 weight per square meter  
 density

mm
g/m <sup>2</sup>
kg/m <sup>3</sup>

Climatised storage  
 Preliminary end of test

yes
no

Sample		A	B	C	D
First flaming*)	min, sec	<0:01			
Max. flame height	cm	70			
Point of time *)	min, sec	0:25			
First melting *)	min, sec	0:10			
Flames on reverse side of test unit *)	min, sec	-			
Influence on burner flame *)	min, sec	0:12			
Components drip down *)	min, sec	0:12			
Extent		low			
Continuation of burning on the perforated bottom **)	min, sec	0:06			
Max. effluent temperature	°C	120			
Appeared after *)	min, sec	10:00			
Effluent temperature after 10 min.	°C	120			
Smoke density		low			
Afterglowing **)	min, sec	-			
Residual lengths	Specimen 1	cm	50		
	Specimen 2	cm	51		
	Specimen 3	cm	56		
	Specimen 4	cm	55		
Mean value of each single test		cm	53		

Remarks: 1:50 end of flame appearance

This test is an exploratory analysis and not a confirmation of building material class according to DIN 4102-1. The material has passed the Brandschacht test to DIN 4102-B1 in the above mentioned test arrangement. According to the application further Brandschacht tests and a B 2-test are required. The material is classified as "burning-dripping".

  
 ppa. Dr. M. Kanig

  
 i.V. U. Kielhorn

\*) Time referred to the beginning of the test  
 \*\*) Time period

	Requirements		
	A 1	A 2	B 1
Brandschacht			
- Residual length			
a) Mean value of each test	≥ 35 cm	≥ 35 cm	≥ 15 cm
b) each single value	> 20 cm	> 20 cm	> 0 cm
- Rauchgastemperatur	≤ 125 °C	≤ 125 °C	≤ 200 °C
- Entflammung auf der Probenrückseite	nein	nein	zulässig
- Brandparallelerscheinungen weitere Nachweise	kein Anlass zu Bedenken		
	750°C Ofen, Rauchdichte, Toxizität, ggf. Heizwert		
	B2-Brennkasten		

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