

FIRE TECHNOLOGY SERVICES

Confidential Report

Our Ref: 27/03780B/01/16

Notified Body for PPE Directive, Construction Products Regulation & Marine Equipment Directive I.D. No. 0338 & 0339



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Page 1 of 8

4 February 2016

Our Ref: 27/03780B/01/16

Your Ref:

Client: Kvadrat A/S

Lundbergsvej 10 8400 Ebeltoft Denmark

Job Title: Fire Test on One Sample of Fabric

Clients Order Ref: --

Date of Receipt: 20 January 2016

Description of Sample: One sample of fabric, referenced: Field, 100% Trevira CS.

Work Requested: Fire Technology Services were requested to carry out a fire test on

the sample supplied to BS EN 1021 Parts 1 & 2;2014.







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4 February 2016 Page 2 of 8

Our Ref: 27/03780B/01/16

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Kvadrat A/S

FIRE TESTS ACCORDING TO BS EN 1021-1:2014

Assessment of the ignitability of upholstered furniture. Part I. Ignition Source : Smouldering cigarette

Date of Test: 04/02/2016

Conditioning

The sample was water-soaked and dried in accordance with Annex D of this standard. After drying the sample was conditioned for at least 16 hours at a temperature of 23±2°C and relative humidity of 50±5%.

The sample was tested in a room of volume 25m³ and 21°C.

Procedure

The test was carried out in accordance with BS EN 1021-1:2014. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

The specimens were mounted over fillings of combustion modified high resilience foam of density about 35kg/m³.

Tests were made using ignition source 0.

Requirements

The specimens shall not:-

Smouldering Criteria

- a) display escalating combustion requiring active extinction.
- b) smoulder or burn until it is essentially consumed within the test duration.
- c) smoulder or burn to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) smoulder for more than one hour.
- e) on final examination, show evidence of progressive smouldering.

Flaming Criteria

a) show evidence of flaming initiated by a smouldering source.







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4 February 2016 Page 3 of 8

Our Ref: 27/03780B/01/16

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Kvadrat A/S

Results

	Cigarette			
	1	2	3 ¹	Comments
Smouldering Criteria (Yes/No)				
Unsafe escalating combustion	No	No		
Test assembly consumed	No	No		
Smoulders to extremities	No	No		
Smoulders through thickness	No	No		
Smoulders more than1 hour	No	No		
In final examination, presence of progressive smouldering	No	No		
Ignitability Performance (Yes/No)				
Occurrence of flames	No	No		
Ignition / Non Ignition (I/NI)	NI	NI		

¹ Results for cigarette 3, only if applicable.

Note

The test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

Comments

A NI designation indicates that the sample meets the performance requirements of BS EN 1021-1.







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4 February 2016 Page 4 of 8

Our Ref: 27/03780B/01/16

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Kvadrat A/S

FIRE TESTS ACCORDING TO BS EN 1021-2:2014

Assessment of the ignitability of upholstered furniture. Part 2. Ignition Source : Match flame equivalent.

Date of Test: 04/02/2016

Conditioning

The sample was water-soaked and dried in accordance with Annex D of this standard. After drying the sample was conditioned for at least 16 hours at a temperature of 23±2°C and relative humidity of 50±5%.

The sample was tested in a room of volume 25m³ and 21°C.

Procedure

The test was carried out in accordance with BS EN 1021-2:2014. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

The specimens were mounted over fillings of combustion modified high resilience foam of density about 35kg/m³.

Tests were made using ignition source 1.







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4 February 2016 Page 5 of 8

Our Ref: 27/03780B/01/16

Your Ref:

Kvadrat A/S

Requirements

The specimens shall not:-

Smouldering Criteria

- a) display escalating combustion requiring active extinction.
- b) smoulders until it is essentially consumed within the test duration.
- c) smoulder to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) smoulder for more than one hour.
- e) show evidence of charring, other than discolouration, for more than 100mm in any direction apart from the nearest part of the original position of the source.

Flaming Criteria

- a) display escalating combustion requiring active extinction.
- b) burns until it is essentially consumed within the test duration.
- burns to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) exhibit any flaming for more than 120 seconds after removal of the burner tube.







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4 February 2016 Page 6 of 8

Our Ref: 27/03780B/01/16

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Kvadrat A/S

Results

	Match Flame Equivalent		Comments
	1	2	
Smouldering Criteria (Yes/No)			
Unsafe escalating combustion	No	No	
Test assembly consumed	No	No	
Smoulders to extremities	No	No	
Smoulders through thickness	No	No	
Smoulders more than 1 hour	No	No	
In final examination, presence of	No	No	
progressive smouldering	140	140	
Ignitability Performance (Yes/No)			
Unsafe escalating combustion	No	No	
Test assembly consumed	No	No	
Flames to extremities	No	No	
Flames through thickness	No	No	
Flames longer than 120 seconds	No	No	
Ignition / Non Ignition (I/NI)	NI	NI	

Note

The test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.







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4 February 2016 Page 7 of 8

Our Ref: 27/03780B/01/16

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Comments

A NI designation indicates that the sample meets the performance requirements of BS EN 1021-2.

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 Marsden (Mrs), Fire Technician

Countersigned by:

P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services.







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4 February 2016 Page 8 of 8

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Uncertainty Budget - Annex

The overall uncertainty budget for both BS EN 1021:Part 1 and 2:2014 is as follows:-

Timings: ±2 seconds.



