

FIRE CLASSIFICATION TEST REPORT

EN 13501-1:2007 +A1:2010

For

Flannel

Model: EQLED025

Brand Name: Equinox

Report No.: ENC160802GZ58E1

Date of Issue: Aug. 12, 2016

Prepared For

Prolight Concepts Ltd Perseverance Mill, Olive Lane, Darwen, Lancashire BB3 3DQ (UK)

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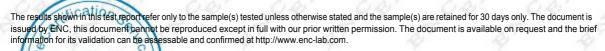
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GENERAL INFORMATION:

Product Description:	Flannel		
Model Number:	EQLED025		
Model Difference:	All models use the same materials as STAR01		
Brand Name:	Equinox		
Applicant:	Prolight Concepts Ltd		
	Perseverance Mill, Olive Lane, Darwen, Lancashire BB3 3DQ (UK)		
Manufacturer:	Prolight Concepts Ltd		
	Perseverance Mill, Olive Lane, Darwen, Lancashire BB3 3DQ (UK)		
Report No.:	ENC160802GZ58E1		
Test Requested:	EN 13501-1:2007+A1:2010 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests, Class B		
Test Results:	See attached sheet		
Sample Receiving Date:	Aug. 2, 2016		
Test Performing Date:	Aug. 2, 2016 – Aug. 12, 2016		

Checked By_

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g Aug. 12, 2016

Authorized! By

y Zhou Aug. 12, 2016

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I. Test conducted

This test is conducted as per EN 13501-1:2007+A1:2010 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests. And the test methods as following:

- 1. EN 13823:2010 Reaction to fire tests for building products Building products excluding floorings exposed to the thermal attack by a single burning item.
- 2. EN ISO 11925-2:2010+A1:2011 Reaction to fire tests Ignitability of building products subjected to direct impingement of flame Part 2: Single-flame source test.

II. Details of classified product

a) Nature and end use application

The product "Flannel" is defined as a Stage background/Decoration. Its classification is valid for the following end use application:

- a) "Stage background/Decoration"
- b) Description

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The details of the tested specimen given below have been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

General description	Flannel
Trade name / product reference	Equinox
Name of manufacturer	Prolight Concepts Ltd
Color	Black
End use	Stage background, Decoration



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III. Test results

Test method	Parameter	Number of tests	Results
.0	FIGRA≤120W/S	,0 ,0	105.3
	LFS < edge of specimen	of cot or	Yes
EN 13823	THR _{600s} B ≤7.5MJ	1. T	6.8
	SMOGRA (m²/s²)	3 %	27.1
	TSP _{600s} (m ²)	A 10 A	42.0
	Flaming particles or droplets	200	No

Test method	Parameter	Number of tests	Results
EN ISO 11925-2	60s Fs≤150mm	47 ,047 ,01	106.5
Exposure = 30 s	Ignition of filter paper	3 3	No

IV. Classification and direct field of application

This classification has been carried out in accordance with EN 13501-1:2007+A1:2010.

a) Classification

The product, "Flannel" classification is as following:

Fire behaviour	Smoke production		Flaming	droplets
₽B	s 🐠	41 4	d 4	40

CLASSIFICATION: B; S1; d0

Remark: The classes with their corresponding fire performance are given in annex A.

This classification is valid for the following product parameters:

--- Characteristics are described in Annex A of this test report

Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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Warning: This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Annex A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class	Test method(s)	Classification criteria	Additional classification	
かな	EN ISO 1182 ^a and	△ <i>T</i> ≤30°C, and △ <i>m</i> ≤50%, and <i>tr</i> =0(i.e. no sustained flaming)	20 20 COST	
A1	EN ISO 1716	PCS≤2.0MJ/kg ^a and PCS≤2.0MJ/kg ^{b c} and PCS≤1.4MJ/m ^{2 d} and PCS≤2.0MJ/kg ^e		
y	EN ISO 1182 ^a or	<i>△T</i> ≤50°C, and <i>△m</i> ≤50%, and <i>t</i> ≤20 s	4 - 4 T	
A2	and EN ISO 1716	PCS≤3.0MJ/kg ^a and PCS≤4.0MJ/m ^{2 b} and PCS≤4.0MJ/m ^{2 d} and PCS≤3.0MJ/kg ^e	\$ 04 to 05	
100	EN 13823	FIGRA≤120W/s and LFS < edge of specimen and THR600s≤7.5MJ	Smoke production ^f and Flaming droplets/particles ^g	
В	EN 13823 and	FIGRA≤120W/s and LFS < edge of specimen and THR600sB ≤7.5MJ	Smoke production ^f and	
147	EN ISO 11925-2 ⁱ Exposure =30s	60s <i>F</i> s≤150mm	Flaming droplets/particles ⁹	
С	EN 13823 and	FIGRA≤250W/s and LFS < edge of specimen and THR600sC ≤15MJ	Smoke production ^f and	
F A	EN ISO 11925-2 ⁱ Exposure=30s	Fs≤150mm within 60 s	Flaming droplets/particles ⁹	
اکیر	EN 13823 and	FIGRA≤750W/s	Smoke production f and	
D	EN ISO 11925-2 ⁱ Exposure=30s	<i>F</i> s≤150mm within 60 s	Smoke production ^f and Flaming droplets/particles	

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É	EN ISO 11925-2 ⁱ Exposure =15s	Fs≤150mm within 20 s	flaming droplets/particles h
F	No performance determined	8 8	8 8

^a For homogeneous products and substantial components of non-homogeneous products.

 $s1 = SMOGRA \le 30m^2/s^2$ and $TSP_{600s} \le 50m^2$; $s2 = SMOGRA \le 180m^2/s^2$ and $TSP_{600s} \le 200m^2$;

s3 = not s1 or s2

g d0 = No flaming droplets/ particles in EN 13823 within 600 s;

d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;

d2 = not d0 or d1.

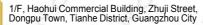
Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

h Pass = no ignition of the paper (no classification);

Fail = ignition of the paper (d2 classification).

Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

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^b For any external non-substantial component of non-homogeneous products.

c Alternatively, any external non-substantial component having a PCS ≤ 2,0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA ≤ 20 W/s, and LFS < edge of specimen, and THR600s ≤ 4,0 MJ, and s1, and d0.

^d For any internal non-substantial component of non-homogeneous products.

^e For the product as a whole.

^f In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.



Photo(s) Appendix

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---- END OF REPORT ----

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