

FIRE CLASSIFICATION

TEST REPORT

EN 13501-1:2007 +A1:2010

For

Flannel

Model: STAR06

Brand Name: LEDJ

Report No.: ENC160802GZ58E1

Date of Issue: Aug. 12, 2016

Prepared For

Prolight Concepts Ltd

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GENERAL INFORMATION:

Product Description:	Flannel
Model Number:	STAR06
Model Difference:	All models use the same materials as STAR01
Brand Name:	EEDJ 2 2 2 2
Applicant:	Prolight Concepts Ltd
20 20	Perseverance Mill, Olive Lane, Darwen, Lancashire BB3 3DQ (UK)
Manufacturer:	Prolight Concepts Ltd
4 4 0 0	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

Authorized!By

Yemig Aug. 12, 2016 catio Thou a Ray Zhou Aug. 2016 15k

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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

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	LEDJ
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	05 05 01	Yes
EN 13823	THR600sB ≤7.5MJ		6.8
	SMOGRA (m ² /s ²)	3	27.1
	TSP _{600s} (m ²)	ant ant a	42.0
	Flaming particles or droplets	2019 201	No

Test method	Parameter	Number of tests	Results
EN ISO 11925-2	60s Fs≤150mm	\$,00° ,0.	106.5
Exposure = 30 s	Ignition of filter paper	5 5	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 B	aviour Smoke production		Flaming	droplets
	S	A 1 A	d	0

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	
at the	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)	\$0_0\$ ^{\$0} _0\$	
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		
· *	EN ISO 1182 ^a or	<i>△T</i> ≤50°C, and <i>△m</i> ≤50%, and <i>t</i> ≤20 s	pt -pt	
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	AT CAT OF	
147	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 Flaming droplets/particles ^g	
14	EN ISO 11925-2 ⁱ Exposure =30s	60s <i>F</i> s≤150mm	rianing dropiets/particles	
С	EN 13823 and	FIGRA≤250W/s and LFS < edge of specimen and THR600sC ≤15MJ	Smoke production ^f and Flaming droplets/particles	
	EN ISO 11925-2 ¹ Exposure=30s	<i>F</i> s≤150mm within 60 s		
D	EN 13823 and	FIGRA≤750W/s	Smoke production ^f and	
	EN ISO 11925-2 ⁱ Exposure=30s	<i>F</i> s≤150mm within 60 s	Smoke production [†] and Flaming droplets/particles	

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E	EN ISO 11925-2 ⁱ Exposure =15s	<i>F</i> s≤150mm within 20 s	flaming droplets/particles ^h
F	No performance determined	6 6	8 8
 ^b For c Alter product specim ^d For a ^e For t ^f In the system modified 	homogeneous products and sub any external non-substantial cor- rnatively, any external non-substa- ct satisfies the following criteria nen, and THR600s \leq 4,0 MJ, and any internal non-substantial compo- the product as a whole. The last phase of the development of n have been introduced, the effec- cation of the limit values and/or par \leq SMOGRA \leq 30m ² /s ² and TSP600	mponent of non-homogeneous p antial component having a PCS of EN 13823: FIGRA \leq 20 W/s s1, and d0. onent of non-homogeneous produ- of the test procedure, modification ect of which needs further inve- rameters for the evaluation of the	products. $S \le 2,0 \text{ MJ/m}^2$, provided that the s_1 , and LFS < edge of ucts. s of the smoke measurement stigation. This may result in a smoke production.
s3 = ^g d0 = d1 = d2 =	 not s1 or s2 No flaming droplets/ particles i no flaming droplets/ particles pe not d0 or d1. 	n EN 13823 within 600 s; ersisting longer than 10 s in EN	13823 within 600 s;
^h Pass Fail ⁱ Unde	on of the paper in EN ISO 119 s = no ignition of the paper (no = ignition of the paper (d2 classer er conditions of surface flame attacted flame attack.	o classification); ssification).	
cugo			

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Photo(s) Appendix

Overall View of Sample



--- END OF REPORT ----

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