

# FIRE CLASSIFICATION

# **TEST REPORT**

EN 13501-1:2007 +A1:2010

For

Flannel

Model: STAR05W

Brand Name: LEDJ

### Report No.: ENC160830GZ44E1

Date of Issue: Sep. 2, 2016

Prepared For

**Prolight Concepts Ltd** 

### Perseverance Mill, Olive Lane, Darwen, Lancashire BB3 3DQ (UK)

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### **GENERAL INFORMATION:**

Product Description:	Flannel		
Model Number:	STAR05W		
Model Difference:	All models use the same materials as STAR05W		
Brand Name:	LEDJ 20 20 20 20 20		
Applicant:	Prolight Concepts Ltd		
30 30 3	Perseverance Mill, Olive Lane, Darwen, Lancashire BB3 3DQ (UK)		
Manufacturer:	Prolight Concepts Ltd		
4 4	Perseverance Mill, Olive Lane, Darwen, Lancashire BB3 3DQ (UK)		
Report No.:	ENC160830GZ44E1		
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. 30, 2016		
Test Performing Date:	Aug. 30, 2016 – Sep. 2, 2016		

Checked By

Authorized!By

Yemig Sep. 2, 2016 Thou a Ray Zhou 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	White Call Call Call
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	97.6
	LFS < edge of specime	en out out ou	Yes
EN 13823	THR600sB ≤7.5MJ		7.4
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		22.4
	TSP <sub>600s</sub> (m <sup>2</sup> )	and and a	38.3
	Flaming particles or drop	lets	No

Test method	Parameter	Number of tests	Results
EN ISO 11925-2	60s Fs≤150mm	00 00	108.9
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	Smoke production		Smoke production Flaming droplets	
В	S 🔶	\$1 A	d	4 O

## 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 <sup>a</sup> and	△ <i>T</i> ≤30°C, and △ <i>m</i> ≤50%, and <i>tr</i> =0(i.e. no sustained flaming)	\$0,0\$ <sup>\$0</sup> ,0\$	
A1 -	EN ISO 1716	PCS≤2.0MJ/kg <sup>a</sup> and PCS≤2.0MJ/kg <sup>b c</sup> and PCS≤1.4MJ/m <sup>2 d</sup> and PCS≤2.0MJ/kg <sup>e</sup>		
× .	EN ISO 1182 <sup>a</sup> or	<i>△T</i> ≤50°C, and <i>△m</i> ≤50%, and <i>t</i> ∕≤20 s	AT -AT	
A2	and EN ISO 1716	PCS≤3.0MJ/kg <sup>a</sup> and PCS≤4.0MJ/m <sup>2 b</sup> and PCS≤4.0MJ/m <sup>2 d</sup> and PCS≤3.0MJ/kg <sup>e</sup>	\$ 0.0 <sup>1</sup>	
147	EN 13823	FIGRA≤120W/s and LFS < edge of specimen and THR600s≤7.5MJ	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>	
в	EN 13823 and	FIGRA≤120W/s and LFS < edge of specimen and THR600sB ≤7.5MJ	Smoke production <sup>f</sup> and	
24	EN ISO 11925-2 <sup>i</sup> Exposure =30s	60s <i>F</i> s≤150mm	Flaming droplets/particles <sup>g</sup>	
С	EN 13823 and	FIGRA≤250W/s and LFS < edge of specimen and THR600sC ≤15MJ	Smoke production <sup>f</sup> and	
	EN ISO 11925-2 <sup>i</sup> Exposure=30s	<i>F</i> s≤150mm within 60 s	Flaming droplets/particles <sup>g</sup>	
the state	EN 13823 and	FIGRA≤750W/s	Smoke production <sup>f</sup> and	
D	EN ISO 11925-2 <sup>i</sup> Exposure=30s	<i>F</i> s≤150mm within 60 s	Smoke production <sup>†</sup> and Flaming droplets/particles	

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Ē	EN ISO 11925-2 <sup>i</sup> Exposure =15s	<i>F</i> s≤150mm within 20 s	flaming droplets/particles <sup>h</sup>
F	No performance determined	6 6	8 8
<ul> <li><sup>b</sup> For</li> <li>c Alter</li> <li>product</li> <li>specin</li> <li><sup>d</sup> For a</li> <li><sup>e</sup> For a</li> <li><sup>f</sup> In the</li> <li>system</li> <li>modified</li> </ul>	any external non-substantial contractively, any external non-substantial contractively, any external non-substantial contractions and THR <sub>600s</sub> $\leq$ 4,0 MJ, and any internal non-substantial complete product as a whole. The last phase of the development in have been introduced, the external contraction of the limit values and/or product as a mathematical substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the limit values and/or product as a substantial contraction of the substantial contr	ubstantial components of non-homogeneous stantial component having a PCS a of EN 13823: FIGRA $\leq$ 20 W/s ad s1, and d0. ponent of non-homogeneous prod t of the test procedure, modification ffect of which needs further inve- parameters for the evaluation of the $00s \leq 50m^2$ ; s2 = SMOGRA $\leq$ 180	products. S $\leq$ 2,0 MJ/m <sup>2</sup> , provided that the s, and LFS < edge of lucts. ns of the smoke measurement estigation. This may result in a e smoke production.
s3 = <sup>g</sup> d0 = d1 = d2 =	<ul> <li>not s1 or s2</li> <li>No flaming droplets/ particles no flaming droplets/ particles not d0 or d1.</li> </ul>		I 13823 within 600 s;
<sup>h</sup> Pass Fail <sup>i</sup> Unde	s = no ignition of the paper (i = ignition of the paper (d2 cl	no classification);	
14			

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### Photo(s) Appendix

Overall View of Sample



--- END OF REPORT ----

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