

IV. Annex 2 : Certifications



RS051-15-103486-1 Ed. 0

GLOW WIRE TEST TEST REPORT

**According to
EN 60695-2-12:2001**

**Equipment under test:
PixBOARD FOAM**

**Entreprise:
PIXLUM**

DISTRIBUTION: Ms CORMERAY

Enterprise: B & D SARL

Number of pages: 7 with 1 annex

Ed.	Date	Modifications	Written by		Technical Verification Quality Approval	
			Name	Visa	Name	Visa
0	02/07/2015	Création	M. CABALLERO		B. CALLENS	

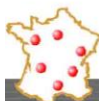
*Duplication of this test report is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above.
This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.*



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Test Report issued under the responsibility of:
EMITECH ANGERS

TEST REPORT EN 60598-2-1 Luminaires Part 2: Particular requirements: Section One – Fixed general purpose luminaires	
Report Number..... :	RS051-15-102444-1-A Ed. 0
Date of issue	3-Jul-15
Total number of pages	42
Applicant's name..... :	B ET D SARL
Address..... :	25 La Grellerie – 44140 LE BIGNON - France
Test specification:	
Standard..... :	EN 60598-2-1:1989 used in conjunction with EN 60598-1:2008 + A11:2009
Test procedure..... :	CE marking
Non-standard test method.....:	N/A
Test Report Form No..... :	IEC60598_2_1C
Test Report Form(s) Originator .. :	Intertek Semko AB
Master TRF..... :	2012-11
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Test item description..... :	Luminaire
Trade Mark..... :	PixLED PixBOARD PixCABLE
Manufacturer..... :	PIXLUM®
Model/Type reference	PixLED, PixBOARD and PixCABLE
Ratings..... :	12Vac



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List of Attachments (including a total number of pages in each attachment):

TITLE	PAGE
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ANNEX 2: LIST OF TEST EQUIPMENT	36
ANNEX 3: TABLE OF UNCERTAINTIES	37
ANNEX 4: MANUALS	38
ANNEX 5: GLOW WIRE TEST PHOTOGRAPHIES	41

Summary of testing:
TESTS PERFORMED (NAME OF TEST AND TEST CLAUSE):

1.2 (0) GENERAL TEST REQUIREMENTS
1.4 (2) CLASSIFICATION
1.5 (3) MARKING
1.6 (4) CONSTRUCTION
1.11 (8) PROTECTION AGAINST ELECTRIC SHOCK
1.12 (12) ENDURANCE TEST AND THERMAL TEST
1.13 (9) ENDURANCE TEST AND THERMAL TEST
RESISTANCE TO DUST, SOLID OBJECTS AND
MOISTURE
1.14 (10) INSULATION RESISTANCE AND ELECTRIC
STRENGTH
1.15 (13) RESISTANCE TO HEAT, FIRE AND
TRACKING

Testing location:

EMITECH ANGERS
 21 rue de la Fuye
 49610 JUIGNE SUR LOIRE
 France

Summary of compliance with National Differences:

List of countries addressed:

- Country members of CENELEC:**
 Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.
- Country affiliates members of CENELEC:**
 Albania, Belarus, Bosnia and Herzegovina, Georgia, Israel, Jordan, Libya, Montenegro, Serbia, Morocco, Tunisia, and Ukraine.

☒ The product fulfils the requirements of EN 60598-2-1:1989 used in conjunction with EN 60598-1:2008 + A11:2009.

Test Report issued under the responsibility of:

EMITECH ANGERS

"This report cancels and replaces the test report N°RS051-15-102444-2-A Edition 0"

TEST REPORT IEC 62471 Photobiological safety of lamps and lamp systems	
Report Reference No.	RS051-15-102444-2-A Ed. 1.doc
Date of issue	04-Sep-2015
Total number of pages	19
Testing Laboratory	EMITECH ANGERS
Address	Site de Juigné - P.A. de Lanserrie – 21 rue de la Fuye 49610 JUIGNE SUR LOIRE (France)
Applicant's name	PIXLUM
Address	97 chemin de MASSOTTE - 85300 SOULLANS - France
Test specification:	
Standard	IEC 62471:2006 (First Edition)
Test procedure	CE marking
Non-standard test method	N/A
Test Report Form No.	IEC62471A
TRF Originator	VDE Testing and Certification Institute
Master TRF	Dated 2009-05
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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.	
Test item description	Luminaire
Trade Mark	PixLED - PixBOARD
Manufacturer	PIXLUM®
Model/Type reference	PixLED, PixBOARD
Ratings	PixLED: AC 12V, 20mA (0.12 to 0.21W) PixBOARD: AC 12V, 150W max.



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List of Attachments (including a total number of pages in each attachment):	
TITLE	PAGE
ANNEX 1: European group difference and national differences	16
ANNEX 2: PHOTOS OF THE EQUIPMENT UNDER TEST	19
Summary of testing:	
Tests performed (name of test and test clause): 4. Exposure limits (EL'S)	Testing location: EMITECH ANGERS
Summary of compliance with National Differences:	
☒ Panel of LED, model PixBOARD, equipped with PixLED, as described in manufacturer documentation, (see also general product information) complies with the limits of exempt group, as indicated in EN 62471:2008 standard, or IEC 62471:2006 standard.	
Copy of marking plate:	
No marking plate on LED product. Example of label affixed on LED packaging: 	
PixBOARD Label PIXLUM - PixBOARD Foam - ref: 31100001 - TBTS 12V - 150 W max. - T° max 40°C - IP20 -  - NF EN 60 598-1 et 60 598-2-1 - 	
PIXLUM - PixBOARD Foam ref: 31100001 TBTS 12V - 150 W max. T° max 40°C - IP20 -  NF EN 60 598-1 et 60 598-2-1 	

CLASSEMENT DE LA REACTION AU FEU CONFORMEMENT A LA NF EN 13501-1+A1 : 2013

Et l'arrêté du 21 novembre 2002 modifié relatif à la réaction au feu des produits de construction et d'aménagement.

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH NF EN 13501-1+A1 : 2013

And the French modified Arrêté, dated 21 November 2002, concerning the reaction to fire of construction and fitting-out products.

Commanditaire
Sponsor

PIXLUM
97 Chemin de Massotté
85300 SOULLANS
France

Elaboré par
Prepared by

Laboratoire national de métrologie et d'essais
Laboratoire de Trappes
29 avenue Roger Hennequin
78197 TRAPPES CEDEX
France

Nom du produit
Product name

PixBOARD Plâtre

N° de rapport de classement
Classification report No

P140484

Numéro d'émission
Issue number

DE/3

Date de validité
Date validity

5 ans à compter du 23/06/2015
5 years as from 06/23/2015

Ce rapport de classement comprend 7 pages et ne peut être utilisé ou reproduit que dans son intégralité.

This classification report consists of 7 pages and may only be used or reproduced in its entirety.

Laboratoire national de métrologie et d'essais

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Barclays Paris Centrale IBAN : FR76 3058 8600 0149 7267 4010 170 BIC : BARCFRPP

4. CLASSEMENT ET DOMAINE D'APPLICATION
CLASSIFICATION AND FIELD OF APPLICATION

4.1. REFERENCE DE CLASSEMENT
REFERENCE OF CLASSIFICATION

Le présent classement a été effectué conformément à la NF EN 13501-1+A1 : 2013.
This classification has been carried out in accordance with NF EN 13501-1+A1 : 2013.

4.2. CLASSEMENT
CLASSIFICATION

Le produit, PixBOARD Plâtre, a été classé en fonction de son comportement au feu :
The product, PixBOARD Plâtre, in relation to its reaction to fire behaviour is classified:

B

Le classement supplémentaire en relation avec la production de fumée est :
The additional classification in relation to smoke production is:

s1

Le classement supplémentaire en relation avec les gouttelettes/particules enflammées est :
The additional classification in relation to flaming droplets particles is:

d0

Le format du classement de réaction au feu pour les produits de construction, à l'exception des revêtements de sol et des produits d'isolation thermique pour conduites linéaires est :
The format of the reaction to fire classification for construction products excluding flooring and linear pipe thermal insulation products is :

Comportement au feu <i>Fire behaviour</i>	Production de fumées <i>Smoke production</i>	Gouttes enflammées <i>Flaming droplets</i>
B	s1	d0

C'est-à-dire, B-s1,d0
i.e.

Classement de réaction au feu : <i>Reaction to fire Classification :</i>	B-s1,d0
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Pour déclarer le classement, il n'a pas été tenu explicitement compte de l'incertitude associée au résultat.
To state the classification, the uncertainty associated with the result has not been explicitly taken into account.

