IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No. :	**IECEx LCI 04.0018**	Issue No.: **2**
Status :	**Current**	Page **1** of **6**
Date of Issue :	**2006-10-11**	
Applicant :	**A.T.X.** E.N.I. rue André DUROUCHEZ 80084 AMIENS Cedex 02 **France**	
Electrical Apparatus :	**Tubular Floodlight - FLd**	
Optional accessory :		
Type of Protection :	**Flameproof 'd'**	
Marking:	**ATX** **Noisy Le Sec - France** **FLd...** **Ex d IIB / IIC T4 to T6** **IP66/67** **Ex tD A21 IP66/67 T*** **IECEx LCI 04.0018** *** : See temperature table**	

Approved for issue on behalf of the IECEx Certification Body : Marc GILLAUX

Position : Manager of the Certification body

Signature :
(for printed version)

Date : 2006-10-11

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by :

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du Général Leclerc
FR-92260 Fontenay-aux-Roses
France

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Manufacturer: **A.T.X.**
E.N.I. rue André DUROUCHEZ
80084 AMIENS Cedex 02
France

Manufacturing location(s):

A.T.X.
Z. rue André DUROUCHEZ
80084 AMIENS Cedex 02
France

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS :
The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosure "tD"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEx ATR :	File Reference :
IECEx Test Report	**LCIE 60022699-516373 – issue 0**
IECEx Test Report	**FR/LCI/ExTR06.0019/00 – issue 2**

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Schedule

EQUIPMENT :
Equipment and systems covered by this certificate are as follows :

DESCRIPTION

Glass tubular floodlight declined in 4 lengths (FLd 335, FLd 600, FLd 1200 and FLd 1500), which can be equipped with one or two incandescent lamps (40W max), or one or two fluorescent lamps (65W max)
The apparatus, with suitable Ex d cable glands of Ex d blanking elements, maintain an IP66/67 degree of protection.

The apparatus may be equipped in variant with careenage, reflectors or protective grid.

FLd 335 models can also be used as optical signaling and lighting column.

MARKING

ATX
Noisy Le Sec – France
FLd...
Serial number
Ex d IIB or IIC T4, T5 or T6 (depending on models and contents, see following table)
IP66/67
Ex tD A21 IP66/67 T*
IECEx LCI 04.0018
Tamb. : ... (if Tamb. > +40°C, see following table)
DO NOT OPEN WHEN ENERGIZED
*: See temperature table for dust
When necessary:
TIME DELAY BEFORE OPENING: ... min (depending on models and contents, see following table)

For 15J optical signaling:
Working 1 hour - Stopping 10 min

CONDITIONS OF CERTIFICATION: NO

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EQUIPMENT(continued):

TABLE OF TEMPERATURE CLASSES AND TIME DELAYS BEFORE OPENING

Models	Contents	Gas group	Temperature classes and time delays before opening			
			Without careenage or external reflectors		With careenage or external reflectors	
			Ta. = +40°C	Ta. = +55°C	Ta. = +40°C	Ta. = +55°C
FLd 335	- Incandescent lamps 40W	IIC	T5 . 30 min	T5 . 30 min	T5 . 30 min	T5 . 30 min
	- Fluo lamps 26W	IIC	T6 . 50 min	T5 . 50 min	T5 . 30 min	T4 . 30 min
	- Fluo lamps 18W (G5-G23)	IIC	T6 . 50 min	T5 . 50 min	T6 . 50 min	T5 . 30 min
	- Fluo lamps 18W (2 G11)	IIC	T6 . 50 min	T5 . 50 min	T5 . 30 min	T4 . 30 min
	- Optical signalling:					
	5J < E < 11J	IIC	T6 . 20 min	T6 . 20 min	T6 . 20 min	T6 . 20 min
	E = 15J	IIC	T6 . 90 min (1)	T5 . 90 min (1)	T6 . 90 min (1)	T5 . 90 min (1)
	- Lighting column 10W	IIC	T6	T6	T6	T6
	- Sodium vapor lamp 70W	IIC	T4 . 10 min	T4 . 10 min (2)	-	-
FLd 600	- Fluo lamps G13					
	1 x 18W	IIC	T6 . 50 min	T6 . 50 min	T6 . 50 min	T5 . 30 min
	2 x 18W	IIC	T6 . 50 min	T6 . 50 min	T6 . 50 min	T5 . 30 min
	- Fluo lamps (2 G11)					
	1 x 36W	IIC	T6 . 50 min	T5 . 30 min	T6 . 50 min	T4 . 30 min
	2 x 36W	IIC	T6 . 50 min	T5 . 30 min	T5 . 30 min	T4 . 30 min
	1 x 55W	IIC	T6 . 50 min (*)	T5 . 50 min	T5 . 30 min	T4 . 50 min
	2 x 55W	IIC	T6 . 50 min (*)	T5 . 50 min	T5 . 30 min	T4 . 30 min
FLd 1200	- Fluo lamps 40W	IIB	T6 . 30 min	T6 . 30 min	T6 . 30 min	T6 . 30 min
FLd 1500	- Fluo lamps 65W	IIB	T6 . 30 min	T6 . 30 min	T6 . 30 min	T5 . 30 min

(1) With mention : "Working 1 hour - Stopping 10 min
(2) Tamb. max +50°C for FLd 335 HP 70 W mode
(*) 25 min with Magnetek ballast BBT 158 and 258

ROUTINE TESTS

Each single enclosure must be submitted to overpressure test in accordance with paragraph 16 of IEC 60079-1, for at least 10 seconds, and without exceeding 1 minute, and with the following values:

Models	Overpressure value
FLd 335	11,3 bar
FLd 600	20 bar
FLd 1200	11,3 bar
FLd 1500	9,3 bar

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EQUIPMENT(continued):

TABLE OF TEMPERATURE FOR DUST

Models	Contents	Gas group and subdiv.	T° classes, surface T° and delay before opening					
			Without fairing or external reflectors			With fairing or external reflectors		
			Ta. = +40°C	Ta. = +55°C	Surface T°	Ta. = +40°C	Ta. = +55°C	Surface T°
FLd 335	- Inc. lamps 40W	IIC	T5 . 30min	T5 . 30 min	95°C	T5 . 30 min	T5 . 30 min	95°C
	- Fluo lamps 26W	IIC	T6 . 50min	T5 . 50 min	95°C	T5 . 30 min	T4 . 30 min	130°C
	- Fluo lamps 18W (G5-G23)	IIC	T6 . 50min	T5 . 50 min	95°C	T6 . 50 min	T5 . 50 min	130°C
	- Fluo lamps 18W (2 G11)	IIC	T6 . 50min	T5 . 50 min	95°C	T5 . 30 min	T4 . 30 min	130°C
	- Optical signalling: 5J < E < 11J	IIC IIC	T6 . 20min T6 . 90min (1)	T6 . 20 min T5 . 90 min (1)	95°C 95°C	T6 . 20 min T6 . 90 min (1)	T6 . 20 min T5 . 90 min (1)	95°C 95°C
	E = 15J	IIC	T6	T6	80°C	T6	T6	80°C
	- Lighting column 10W - 70W HP	IIC	T4 . 10min	T4 until 10 min	122°C	-		-
FLd 600	- Fluo lamps G13							
	1 x 18W	IIC	T6 . 50 min	T6 . 50 min	80°C	T6 . 50 min	T5 . 30 min	95°C
	2 x 18W	IIC	T6 . 50 min	T6 . 50 min	80°C	T6 . 50 min	T5 . 30 min	95°C
	- Fluo lamps (2 G11)							
	1 x 36W	IIC	T6 . 50 min	T5 . 30 min	95°C	T6 . 50 min	T4 . 30 min	130°C
	2 x 36W	IIC	T6 . 50 min	T5 . 30 min	95°C	T5 . 30 min	T4 . 30 min	130°C
	1 x 55W	IIC	T6 . 50 min	T5 . 50 min	95°C	T5 . 30 min	T4 . 50 min	130°C
	2 x 55W	IIC	T6 . 50 min	T5 . 50 min	95°C	T5 . 30 min	T4 . 30 min	130°C
FLd 1200	- Fluo lamps 40W	IIB	T6 . 30 min	T6 . 30 min	80°C	T6 . 30 min	T6 . 30 min	80°C
FLd 1500	- Fluo lamps 65W	IIB	T6 . 30 min	T6 . 30 min	80°C	T6 . 30 min	T5 . 30 min	95°C

(1) With mention : "Working 1 hour - Stopping 10 min

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DETAILS OF CERTIFICATE CHANGES (for issue 1 and above) :

Issue 1 : ATR n°LCIE 60031241 529472 / 09
Modification of address of the applicant which becomes:
A.T.X.
E.N.I. rue André DUROUCHEZ
80084 AMIENS CEDEX 2, FRANCE

Issue 2 : ExTR n° FR/LCI/ExTR06.0019/00
Possibility to use the apparatus in the presence of combustible dust