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Codice fiscale e numero
iscrizione CCIAA 00793580150

Registro Imprese di Milano
Sezione Ordinaria
N. R.E.A. 429222
P.I. IT00793580150

Schema di certificazione CESI ATEX

Il CESI è stato autorizzato dal governo italiano ad operare quale organismo di certificazione di apparecchi e sistemi destinati a essere utilizzati in atmosfera potenzialmente esplosiva con D.M. 1/3/1983, D.M. 19/6/1990, D.M. 20/7/1998 e D.M. 27/9/2000

CERTIFICATE

[1] **TYPE EXAMINATION CERTIFICATE**

[2] **Category 3 Equipment intended for use in potentially explosive atmospheres Directive 94/9/EC**

[3] Type Examination Certificate number:

CESI 04 ATEX 042

[4] Equipment: Luminaires series EXEN

[5] Manufacturer: **COR.TEM S.p.A.**

[6] Address: Via Aquileia 10, Villesse (Gorizia), Italy

[7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CESI certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential report n. EX-A4/006989.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50021: 1999 EN 50281-1-1: 1998

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

[12] The marking of the equipment shall include the following:

Ex **II 3 G D EEx nA II T5 IP 66 T 80°C**

Ex **II 3 D IP 66 T 80°C**

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date March 4th, 2004 translation issued on March 4th, 2004

Prepared	**Verified**	**Approved**
Sergio Mezzetti	Mirko Balaz	Ulisse Colombo

CESI
CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
Business Unit Certificazione
Il Responsabile

[13] **Schedule**

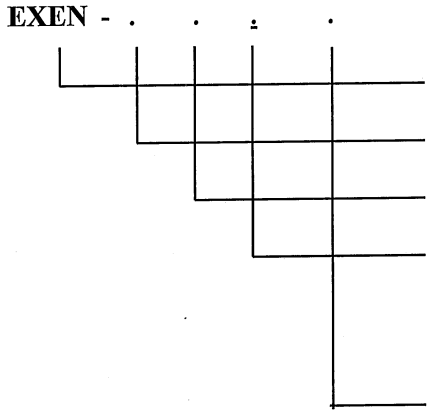
[14] **TYPE EXAMINATION CERTIFICATE n. CESI 04 ATEX 042**

[15] **Description of equipment**

The luminaires series EXEN are made by a body in polyester resin reinforced by glass fibre and by a transparent part in polycarbonate.
They are made in two versions:
- for normal service
- for normal service and/or emergency service

The luminaires series EXEN are suitable for use of tubolar fluorescent lamps with bi-pin cap G13.

The luminaires series EXEN subject of this certificate are identified by the following codes for the different models:



code of the series

1, 2 (number of lamps)

18, 36 (lamp power [W])

-code omitted (luminaires for normal service with electronic ballast)
EE (luminaires for emergency service only)
EF (luminaires for normal + emergency service)

4, 7 (capacity of the battery in Ah)

Electrical characteristics

Rated voltage	110 V / 230 V / 277 V
Rated power	18 W; 36 W; 2x18 W; 2x36 W
Rated frequency	50/60 Hz
Degree of protection	IP 66 (EN 60529-1991)
Ambient temperature	- 40 ÷ + 50 °C

NiCd battery:	
- rated voltage	6 V
- capacity	4 or 7 Ah

Temperature class of the luminaires of category 3 GD: T5.
Maximum surface temperature T of the luminaires of category 3 GD or 3 D: T 80°C.

The accessories used for cable entry shall guarantee a degree of protection at least IP 66 and be certified according to the standards EN 50021 and EN 50281-1-1.

The mounting and/or substitution of tubular fluorescent lamps shall be made with de-energized circuits.

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[13] **Schedule**

[14] **TYPE EXAMINATION CERTIFICATE n. CESI 04 ATEX 042**

Warning label

"ATTENTION TO ELECTROSTATIC CHARGES"
Clean only with wet cloth or antistatic product.

Warning label – refer to emergency lighting

"DO NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE MAY BE PRESENT"

[16] **Report n. EX-A4/006989**

Routine tests

The routine dielectric test with applied voltage shall be carried out at 1500 V.

Descriptive documents (prot. EX-A4/006990)

- Technical Note n° A4-4574 Rev. 0 (2 p.)	dated	10.12.2003
- Drawing n° A1-4573 Rev. 0 (2 sheets)	dated	10.12.2003
- Drawing n° A2-4896 Rev. 0	dated	10.12.2003
- Technical Description MAGNETEK (5 pag.)	dated	01.10.2003
- Technical Description Peters (6 pag.)	dated	01.10.2003
- Technical Description TELECTRONICS (8 pag.)	dated	01.10.2003
- Technical Description VARTA (24 pag.)	dated	01.10.2003
- Technical Description TELECTRONICS Sintesi RS (2pg.)	dated	10.12.2003
- Safety instructions F-286 (7 p.)	dated	10.12.2003
- EC Declaration of Conformity n° 0046	dated	10.12.2003

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use**

None.

[18] **Essential Health and Safety Requirements**

The Health and Safety Requirements are assured by compliance with the following Standards:

• EN 50021 : 1999	Electrical apparatus for explosive gas atmospheres. Type of protection "n"
• EN 50281-1-1 : 1998	Electrical apparatus for use in the presence of combustible dust. Protection by enclosures

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EXTENSION n. 01/08

to EC-Type Examination Certificate CESI 04ATEX042

Equipment: Luminaries series EXEN

Manufacturer: **COR.TEM S.p.A.**

Address: Via Aquileia 10, Villesse (Gorizia) - Italy

Admitted variation

- Updating to new standards EN 60079-0 (2006), EN 60079-15 (2005), EN 61241-0 (2006), EN 61241-1 (2004)
- Updating of nameplate
- New maximum ambient temperature of + 55 °C
- New model with battery pack installed in separate junction box

Equipment identification

The equipment series shall include the following markings:

II 3GD Ex nA II T... ; Ex tD A22 IP66 T ... °C

II 3 Ex tD A22 IP66 T ... °C

Cable entries

The accessories used for cable entries shall be certified in compliance with the following standards:
- *Luminaries of Cat. 3GD*: EN 60079-0, EN 60079-15, EN 61241-0 and EN 61241-1.
- *Luminaries of Cat. 3D*: EN 61241-0 and EN 61241-1

In both cases, a minimum degree of protection IP66 shall be guaranteed in compliance with EN 60529 Standard

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 04ATEX042.

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date	28/08/2008 - translation issued the 28/08/2008
prepared	Sergio Mezzetti
verified	Mirko Balaz
approved	Fiorenzo Bregani

CESI S.p.A.
Divisione Energia
"Area Tecnica Certificazione"
Il Responsabile

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EXTENSION n. 01/08

to EC-Type Examination Certificate CESI 04ATEX042

Equipment identification (follows)

Electrical characteristics

Degree of protection (EN 60529)	IP 66
Ambient temperature	- 40 ÷ + 40 °C
	- 40 ÷ + 50 °C
	- 40 ÷ + 55 °C

The Temperature Class and the max. surface temperature T of the luminaries is a function of the component assembling conditions and of the ambient temperature as specified in the following tables:.

For all sizes of luminaries with electronic ballast inside (EXEN-...)

Classe di temperatura	Max. temperatura superficiale	Temperatura ambiente
T5	**T 65 °C**	**– 40 °C ÷ + 40 °C**
T5	**T 80 °C**	**– 40 °C ÷ + 50 °C**
T4	**T 85 °C**	**– 40 °C ÷ + 55 °C**

For all sizes of luminaries with electronic ballast, inverter and battery pack inside (EXEN-...EF..) or without ballast (EXEN-...EE..)

Classe di temperatura	Max. temperatura superficiale	Temperatura ambiente
T5	**T 65 °C**	**– 40 °C ÷ + 40 °C**
T5	**T 80 °C**	**– 40 °C ÷ + 50 °C**

For all sizes of luminaries with electronic ballast and inverter inside and battery pack installed on separate junction box (EXEN-...EF.., or without ballast EXEN-...EE..)

Temperature Class	Max. Surface Temperature	Ambiente Temperature
T4	**T 85 °C**	**– 25 °C ÷ + 55 °C**

Warning label

for the models with temperature class T5:	"Use cables for a minimum service temperature 95°C
for the models with temperature class T4:	"Use cables for a minimum service temperature 105 °C

No warning for the lamps with temperature class T6.

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EXTENSION n. 01/08

to EC-Type Examination Certificate CESI 04ATEX042

Report n. EX-A8024077

Routine tests
For the Luminaries Cat. 3GD, the manufacturer shall carry out the routine tests prescribed at paragraph 27 of the EN 60079-0 and at par. 24 of the EN 61241-0 Standard.
For the Luminaries Cat. 3D, the manufacturer shall carry out the routine tests prescribed at paragraph 24 of the EN 61241-0 Standard.

Descriptive documents (prot. EX-A8024081)

- Technical note A4-4964 (4 pg.)	Rev. 0	dated	25/06/2007
- Dwg. n. A3-5003	Rev. 0	dated	25/06/2007
- Safety instructions F-286 (7 pg.)	Rev. 1	dated	25/06/2007
- EC declaration of conformity n. CE 0046		dated	25/06/2007

One copy of all documents is kept in CESI files.

Essential Health and Safety Requirements

Compliance with the Health and Safety Requirements has been assured by compliance with the following standards:

- EN 60079-0: 2006 - Electrical apparatus for explosive gas atmospheres. Part 0: General requirements
- EN 60079-15: 2004 - Protection mode "n"
- EN 61241- 0: 2006 - Electrical apparatus for use in the presence of combustible dust.
- EN 61241-1: 2004 - Electrical apparatus for use in the presence of combustible dust. Part 1: Protection by enclosures "tD"

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