Statutory Signage (TNA Electrical Ltd)

Contents

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Scope of Works

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Emergency Lighting Maintenance Strategy

Scope of works

Emergency lighting has been installed to provide a safe means for occupants to navigate their way to a safe exit in the event of an emergency.

The exit signage has been designed inline with the fire and safe access/egress strategies.

The lights feature a long- lasting battery that automatically turns on when the power is lost and should stay illuminated for a minimum of 180 minutes. All safe exit routes will be illuminated including, change of directions and change in levels clearly showing the direction of the nearest final exit.

All fittings are illuminated using LED lighting meaning they are longer lasting and less maintenance for the user.

A minimum illuminance level will be achieved in line with the CIBSE lighting guide. All illuminance levels will be recorded at the time of installation and detailed on a drawing.

Certificates/Warranties/Guarantees

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EMERGENCY LIGHTING SYSTEM - LOG BOOK (SELF CONTAINED)

NAME AND ADDRESS OF PREMISES	NAME AND ADDRESS OF SYSTEM INSTALLER
Trefioil House 2 Ellis St Birmingham West Midlands B1 1HL	TNA Unit 13 Heritage Park Hayes Way Cannock Staffordshire WS11 7LT

CLASSIFICATION OF EMERGENCY LIGHTING SYSTEM LUMINAIRES

(As defined in BS EN 60598-2-22:1999, Annex B)

Type	Mode of operation	Facilities	Duration of emergency mode (in minutes) for a self contained system
X - self-contained	0 - non-maintained	A - including test device	10 - 10 minute duration
Z - central supply	1 - maintained	B - including remote rest mode	60 - 1 hour duration
	2 - combined non-maintained	C - including inhibiting mode	120 - 2 hour duration
	3 - combined maintained	D - high risk task area luminaire	180 - 3 hour duration
	4 - compound non-maintained	* * * * - None of the above	
	5 - compound maintained		
	6 - satellite		

Systems as above installed on this project

Type	Mode of operation	Facilities	Duration of emergency mode (in minutes) for a self contained system
X	1	*	180

DETAILS OF DRAWINGS INDICATING EMERGENCY LIGHTING SYSTEM LUMINAIRES

Drawing No.	Drawing Title
TNA-CD-LG-DR-E-6300-AI	Block CD Lower Ground floor Lighting Layout
TNA-CD-LG-DR-E-6301-AI	Block CD Mezzanine Lighting Layout

INSPECTION AND TESTS

BS EN 50172: 2004 / BS 5266-8: 2004 states that the following minimum prescribed inspection and testing is carried out at the following intervals:

Daily

1. Any fault recorded in the log book has been actioned
2. Visually check that all maintained lamps are operating
3. Visually inspect that LED's on all emergency luminaires are illuminated
4. If there are any failures, record these on page 4 of this document.

Note: This is a visual inspection only, to identify that the system is in a ready condition and does not require a test of operation.

Monthly

1. Switch on in the emergency mode each luminaire and each internally illuminated exit sign from its battery by simulation of a failure of the supply to the normal lighting for a period sufficient to ensure that each lamp is illuminated.
2. Check all luminaires and other emergency lighting equipment is in good condition, all lamps and luminaires are clean, undamaged and functioning correctly.
3. At the end of the test period, the supply to the normal lighting should be restored and any indicator LED should be checked to ensure that it is showing that the normal supply has been restored.
4. Record test on page 3 and if there are any failures, record these on page 4 of this document.

Annually

1. Switch on in the emergency mode each luminaire and each internally illuminated exit sign from its battery by simulation of a failure of the supply to the normal lighting for its full rated duration in accordance with the manufacturer's information.
2. Check all luminaires and other emergency lighting equipment is in good condition, all lamps and luminaires are clean, undamaged and functioning correctly.
3. At the end of the test period, the supply to the normal lighting should be restored and any indicator LED should be checked to ensure that it is showing that the normal supply has been restored. The charging arrangements should be checked for proper functioning.
4. Ensure that the emergency lighting batteries are fully recharged prior to re-occupation of the building.
5. Record test on page 3 and if there are any failures, record these on page 4 of this document.

EMERGENCY LIGHTING INSPECTION AND TEST RECORD	**SHEET NUMBER:**

TEST TYPES : C = Commissioning test
M = Monthly
A = Annual test

Date of test	Test type	Result -	Result - Test Failed	
		Test Passed	Need for repair of	Need for safeguarding
		No action needed	system notified	of premises notified
		Sign below*	Sign below*	Sign below*
20.12.22	Commissioning	S Wright		

EMERGENCY LIGHTING FAULT ACTION RECORD				SHEET NUMBER		
Contact references		Contact name		Phone number		
Maintenance Engineer:					Competent engineer	
Responsible person:					Site control	
Date of failure	Action taken to safeguard the premises (Details and signature)			Action taken to rectify the system (Details and signature)		Date System repaired

Cleaning and Maintenance Regimes

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About Maintenance

Correctly selecting and properly installing all necessary exit signs and emergency lighting is not the end. Testing and maintenance are also required. Egress pathways need to be kept clear. Any clutter which can hide or impede the proper operation of exit signs and emergency lighting need to be removed. Equipment may have become physically damaged, over time batteries lose the ability to hold charge, LEDs may go dimmer over time and stop working.

- visual inspection of the equipment once every 30 days
- A 30 second illumination test under battery-backup power performed once every 30 days.
- 180 minute illumination test under battery-backup power performed once every year.
- written records of visual inspections and tests to be kept for inspection by the authority having jurisdiction.

Maintenance Tips

Visual Inspection

- Look for exposed or loose wiring (frayed wiring is itself a *fire hazard* and loose wiring can be accidentally snagged and lead to further damage). Any loose or exposed wiring should be secured.
- Is the unit securely mounted to the wall or ceiling? If not, this could easily lead to further damage.
- Look for cracks or blemishes in the housing. These could be considered cosmetic, but outdoor units with cracks may need to be replaced because of water seepage issues. Consider purchasing and installing protective guards & shields to protect your exit signs, emergency lights, and exit light combos from physical damage if mounted in area exposed to higher risk of damage.

30 Second Battery Test

- **"Manual Testing"** - find the "push-to-test" button which is usually a distinctive button on the fitting itself. Depressing this button will interrupt AC power and engage the back-up battery. Exit signs should stay illuminated, and emergency lightings should turn on. Hold the button down for 30 seconds, noting that the illumination also stays on for the full 30 seconds. For facilities with large number of units, consider switching the emergency key switch into test mode.
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180 Minute Battery Test -

- **"Manual Testing"** – Kill the power to the emergency battery pack by switching the emergency key switch into test. This will put the relevant fittings into emergency mode. All

other standard fittings may stay on. Alternatively, the power can be disconnected at the circuit breaker. This will ensure all lighting is killed, making it easier to identify the emergency lights.

- Make sure to re-energise after the test is complete.

After Testing

The emergency log book records should be updated following the annual 180min test. For units that are in need of repair, the Exit Light company details as well as the specification of each fitting can be found in the O&M manual.

Any faults should be rectified immediately.

Data Sheets

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EXIT

START eco Emergency Exit

START eco Emergency Exit Surface Manual Test Maintained 3h

Part code 003200 Manual test Part code 0041748 Self test

Product features

- Surface mounted Exit Sign supplied with 7 ISO7010 Legends Left, Right, 2 x Up, 2 x Down and Blank.

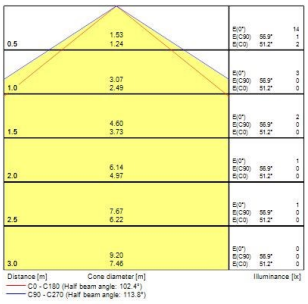
PRODUCT OVERVIEW

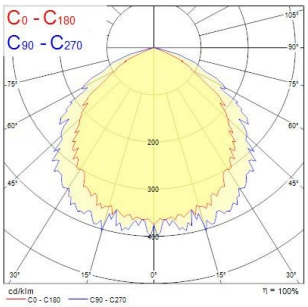
Product name	START eco Emergency Exit Surface Manual Test Maintained 3h
Technology	LED
Type	LED
Housing	PC Polycarbonate
Mount	Ceiling surface mounting
General application	Logistics & Industry
ETIM Class	EC001957
Warranty	3 years
Fixture luminous flux (lm)	24
Luminaire efficacy (lm/W)	12
Colour temperature (K)	6500
CRI (Ra)	70
Photobiological Risk Group	RG0
Luminous flux (emergency) (lm)	24
Electrical protection	Class II
Dimmable	No
LED Flickering Rate	Ultra low (5% or less)
Housing colour	RAL 9003 - Signal white
IP rating	IP20
IK rating	IK02
Product EAN number	5410288320007

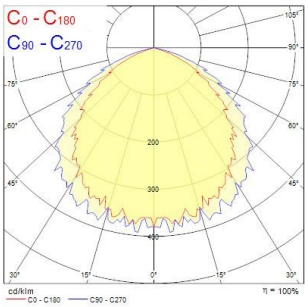
PHOTOMETRY

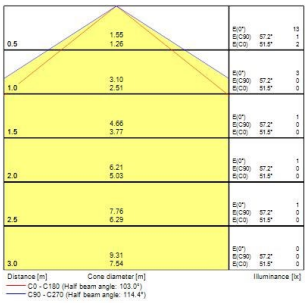
START eco Emergency Exit

START eco Emergency Exit Surface Manual Test Maintained 3h









TECHNICAL DRAWINGS