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EMERGENCY LIGHTING STANDARD IS3217:2013

ABOUT THIS PRESENTATION

- Review of significant changes to the standard.
- Highlight some of often missed parts of old standard.

Transitional Arrangements:

- ⦿ Published 27th December 2013.
- ⦿ Old standard revoked on that date.
 - All new systems to be designed/installed to IS3217:2013
 - Works “in progress” with fire certificate already granted may continue with old standard but new certificates must be used stating the revision (1989/2008) of the standard used for the design and installation.
 - Where reasonably practicable new standard should be used.
- ⦿ All existing systems should be Serviced/Maintained in accordance with IS3217:2013 standard.

Need for emergency Lighting:

IS3217:2013 Clause 6.2

6.2 Emergency escape lighting

- ◎ ... emergency escape lighting shall be provided to:
 - a) indicate clearly and unambiguously the escape routes,
 - b) provide illumination along such routes to allow safe movement towards and through the emergency exits provided,
 - c) ensure that fire alarm panels, call points and fire fighting equipment provided along escape routes can be readily located.



Need for emergency Lighting:

- ◎ The clause has been removed stating a “need” to provide escape lighting for:

- emergency Services for search and rescue
- or building reoccupation

◎ *IS3217:2008 Clause 5.2 ...*

◎ ~~d) to provide sufficient lighting to enable the emergency services to conduct a search and rescue in the event of an incident,~~

◎ ~~e) to provide lighting for building re-occupation.~~



Escape Route Lighting

- Defined Escape Route up to 2m in width illuminated as before:
 - 1 lux minimum along the central band
 - $\frac{1}{2}$ Width of corridor shall be 0.5 Lux

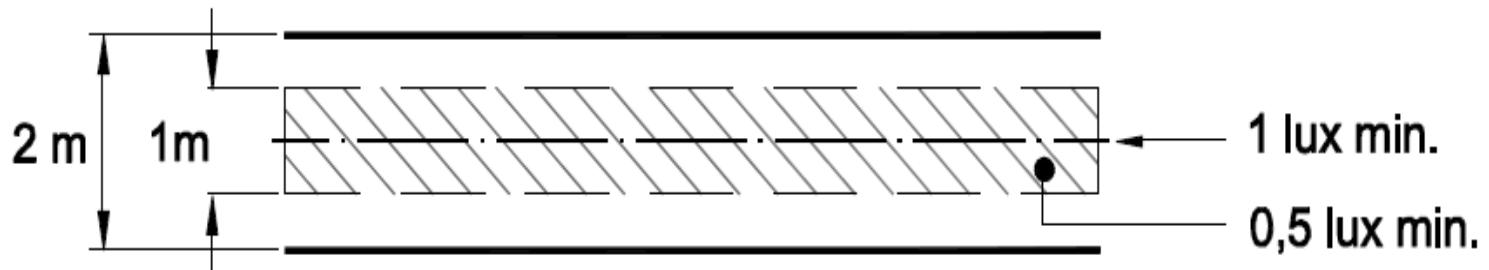


Figure 2 — 2 m wide defined escape route

IS3217 Clause 7.2.1

Wide Escape Routes

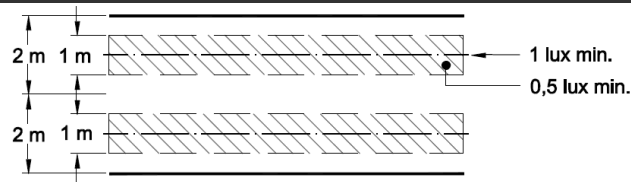


Figure 3 — 4 m wide defined escape route treated as two 2 m wide strips

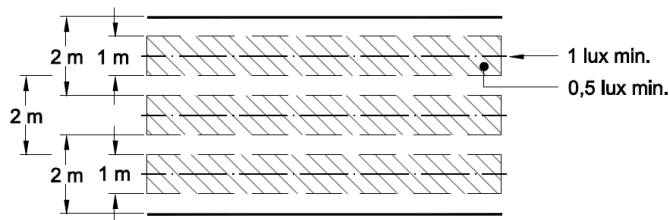


Figure 4 — 5 m wide defined escape route treated as three 2 m wide overlapping strips

IS3217 Clause 7.2.1

**Treat as series of 2m
Corridors**

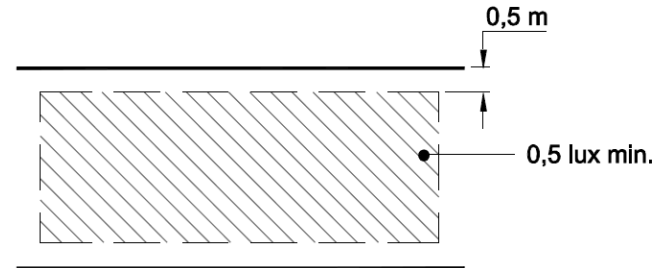


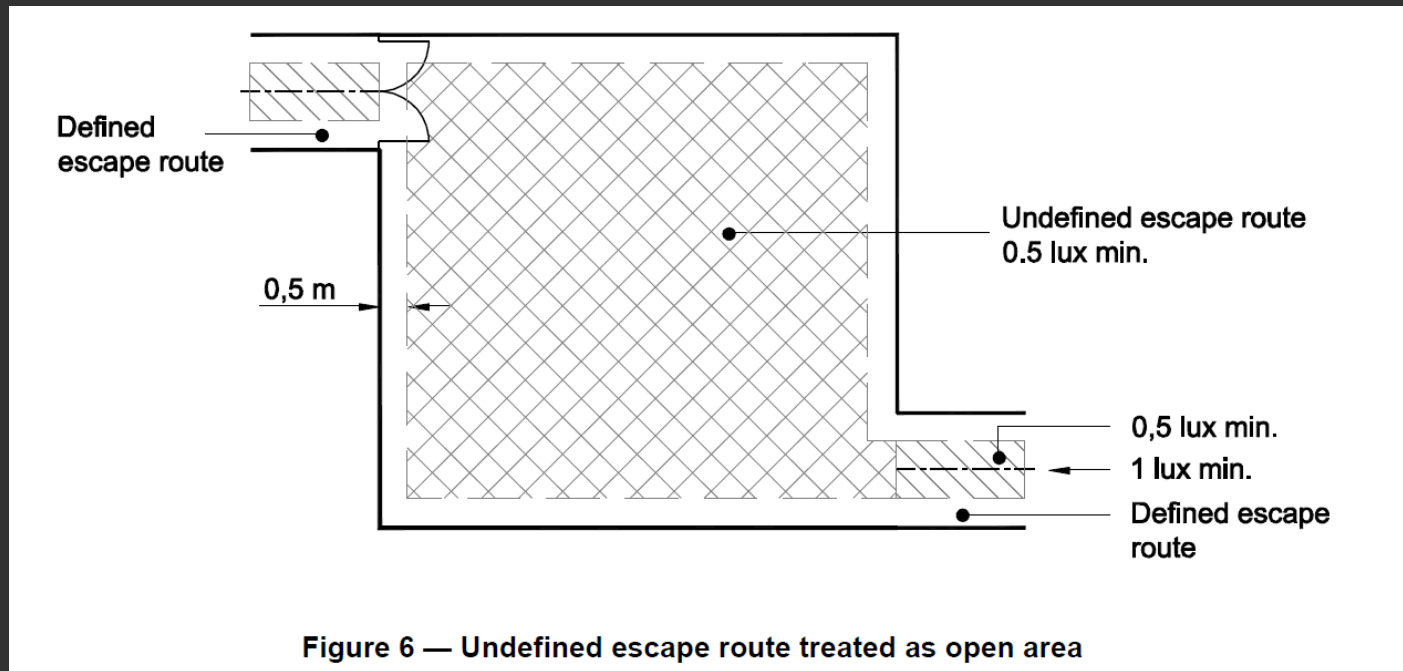
Figure 5 — Defined escape route >2m treated as open area

IS3217 Clause 7.2.1

**Or treat as open area lighting
with 0.5 lux minimum
throughout**

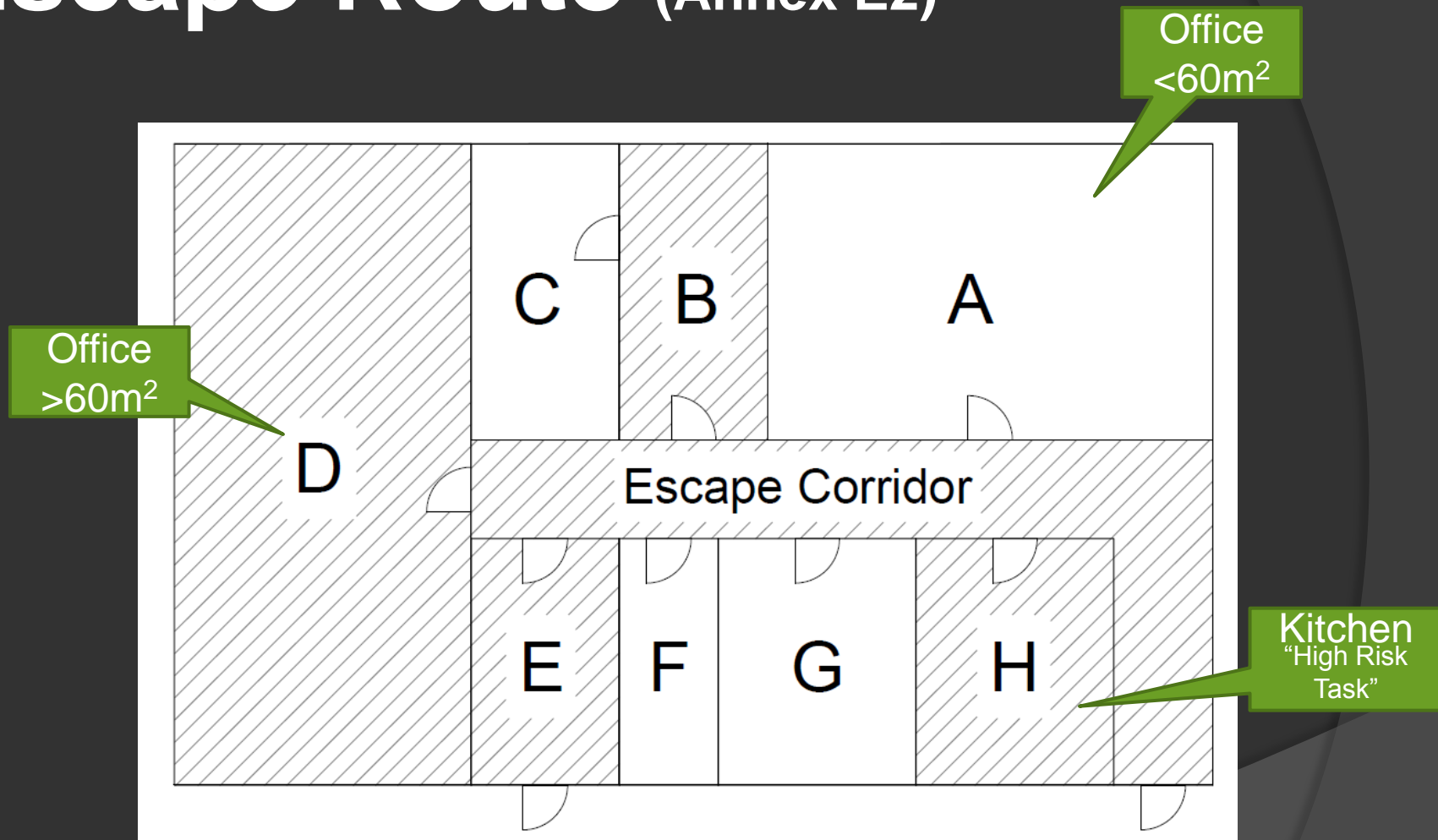
Undefined Escape Routes / Open areas (anti-panic) lighting

Open Areas are larger than 60 m² floor area or smaller areas if there is additional hazard such as use by a large number of people . (Clause 8.5.2.7)



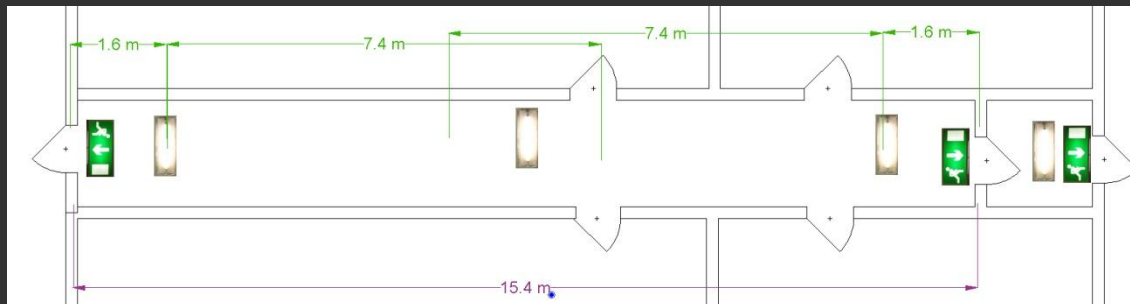
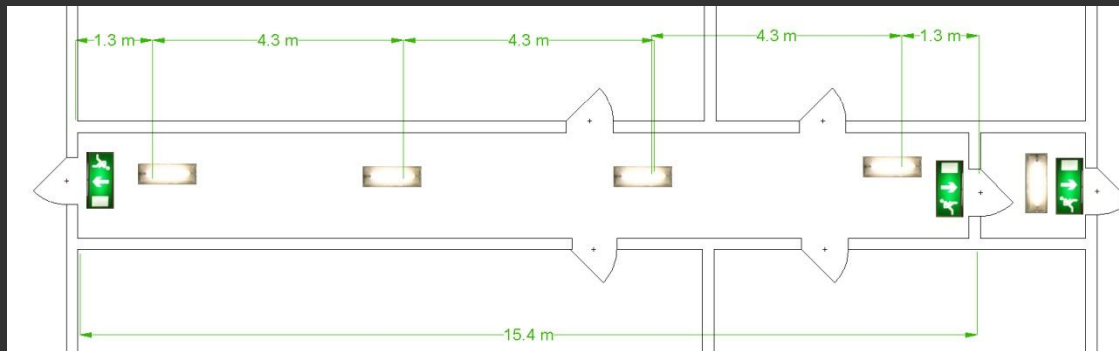
IS3217 Clause 7.2.2 Undefined escape routes -
IS3217 Clause 7.3 Open Areas

Escape Route (Annex E2)





Example From Annex E2 - Hatched Areas require Escape Lighting









Achieving 1 Lux: 8W Bulkhead Example



Photometric Data

		Escape route 2m wide 1 lux min					Open (anti-panic) area 0.5 lux min			
Mode	Mounting height (m)	Lux level directly under								
Self-contained - Atlantic Plus										
NM	2.5	3.05	3.5	10.3	5.8	2.1	3.6	10.9	6.7	2.0
	4.0	1.19	1.6	8.8	5.6	1.1	3.0	13.4	7.7	1.9
	6.0	0.53	-	-	-	-	1.1	11.1	5.0	0.7
M	2.5	2.59	3.0	9.6	5.4	1.9	3.3	10.0	6.1	1.8
	4.0	1.01	0.8	7.2	5.0	0.3	2.5	12.8	7.2	1.7
	6.0	0.45	-	-	-	-	-	-	-	-
Self-contained - Atlantic										
NM	2.5	1.66	1.6	7.4	4.3	1.3	2.5	9.1	5.3	1.4
	4.0	0.65	-	-	-	-	0.7	9.6	5.8	0.4
	6.0	0.29	-	-	-	-	-	-	-	-
M	2.5	1.40	1.2	6.6	3.9	1.0	2.3	8.8	5.0	1.4
	4.0	0.55	-	-	-	-	0.9	8.0	5.0	0.6
	6.0	0.25	-	-	-	-	-	-	-	-

Photometric Data

		Escape route 2m wide 1 lux min						Open (anti-panic) area 0.5 lux min			
Mode	Mounting height (m)	Lux level directly under									
NM Self contained	2.8	3.0	3.9	11.6	5.7	1.9	3.8	11.1	6.4	1.9	
	4.0	1.5	2.0	11.8	5.7	1.5	3.8	13.8	7.4	1.9	
	6.0	0.65	-	-	-	-	1.7	16.4	8.0	1.4	
Mid Self contained	2.8	2.5	3.3	10.8	5.2	1.7	3.7	10.8	6.1	1.8	
	4.0	1.1	1.5	9.8	5.0	1.1	3.3	13.3	6.8	1.6	
	6.0	0.55	-	-	-	-	1.0	15.4	7.1	1.0	

Photometric Data from Cooper Ls
(<http://cooper-ls.com>)

- Even with typical 8w bulkhead there is a big variation on light output from different manufacturers and different fittings.
- Spacing tables or photometric data not always available.
- Even bigger variance with LED fittings.

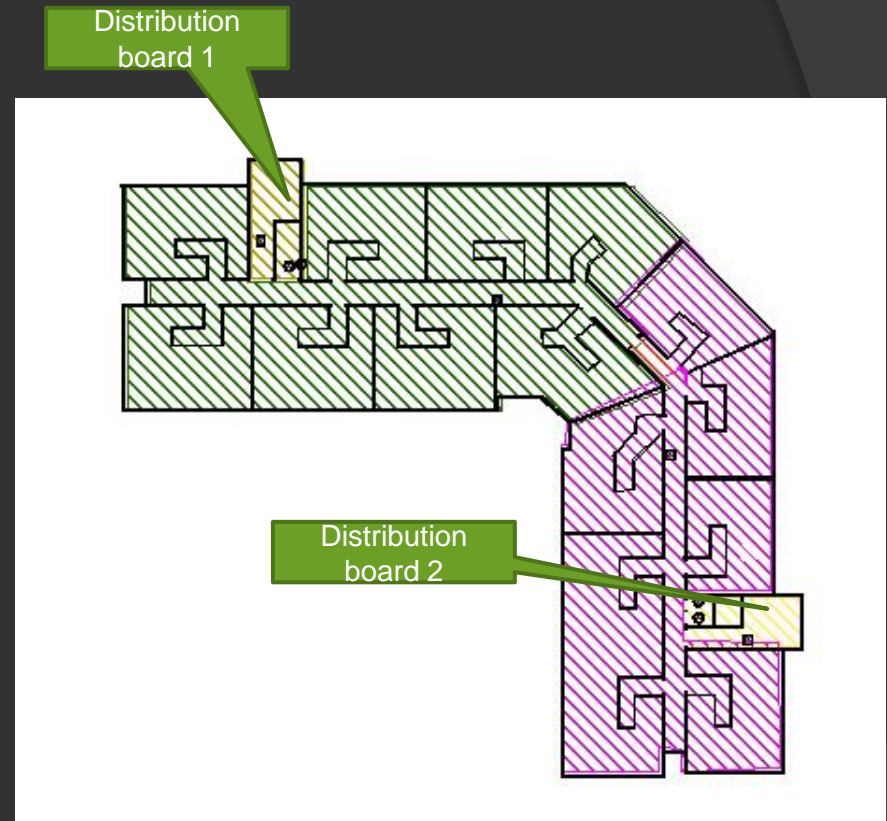
Disability Glare:



- The brightness of the luminaires can dazzle and prevent obstructions or signs being seen.
- *Clause 7.2.4.1
Disability glare shall be contained to an acceptable level by limiting the luminous intensity of the luminaires within the field of view (see Table 1).*

Local Circuit Monitoring:

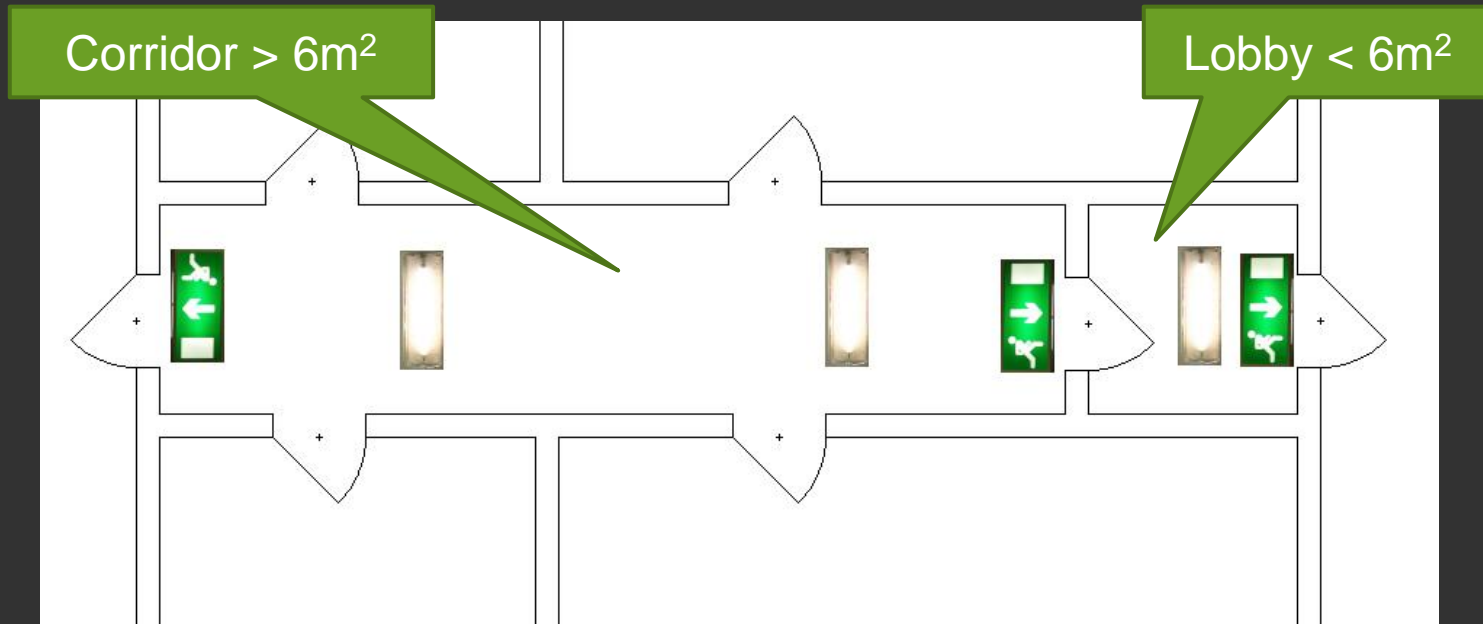
- Clause 8.1
... local emergency escape lighting will operate in the event of failure of the normal supply to the corresponding local circuit.
- 2013 Standard adds a note urging caution when using local circuit monitoring devices, to prevent unintended discharge in unaffected areas .



Example: Apartment Block incorrectly wired.

- 4 normal lighting circuits (hatched areas)
- 1 Emergency lighting circuit.
- Lights only illuminate when stair lights fail.

System Integrity



- Minimum of two lights in escape route compartment:
- If less than 6m² internally illuminated exit may form this function.

(Clause 8.2)

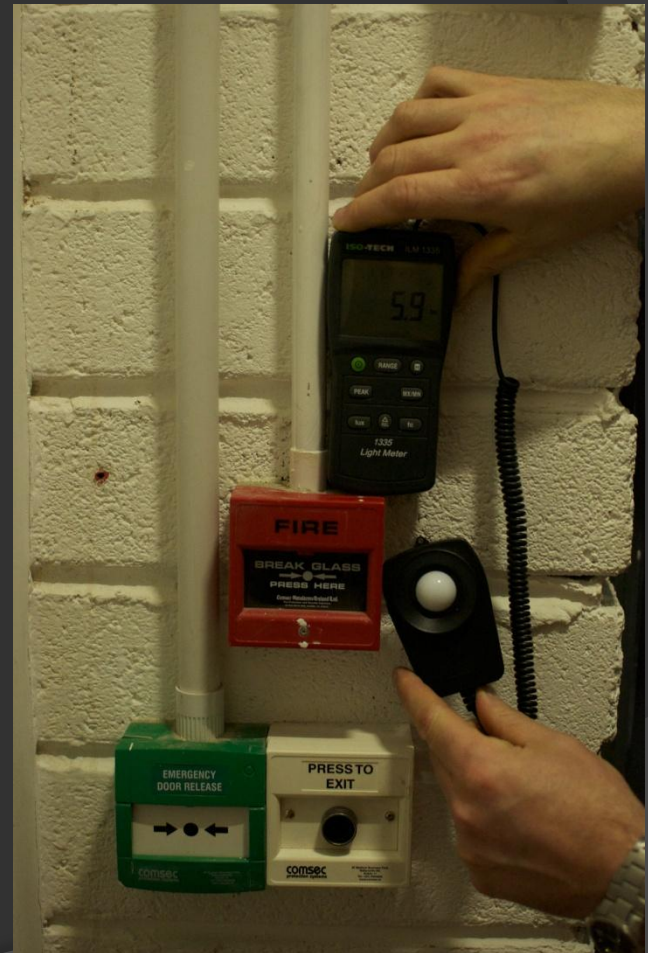
Points of Emphasis

- *Key Changes underlined below:*
- *Clause 8.5.1. The points of emphasis when placing emergency luminaires are:*
 - a) Near each emergency exit door,*
 - b) near stairs so that each flight of stairs receives direct light,*
 - c) near any other change in level,*
 - d) externally illuminated escape route safety signs, escape route direction signs and other safety signs needing to be illuminated under emergency lighting conditions,*
 - e) at each change of direction,*
 - f) at each intersection of corridors,*
 - g) near to each final exit and outside the building to a place of safety,*

Points of Emphasis

Note increased Lux levels:

- h) near each first aid post, so that 5 lux vertical illuminance is provided at the first aid box,*
- i) near each piece of firefighting equipment, fire alarm panel and call point to provide 5 lux vertical illuminance,*
- j) near escape equipment provided for the disabled,*
- k) near disabled refuges, disabled refuge panel and call point. Also to include disabled refuge two way communication systems including disabled toilet alarm call position.*



Plant / Switch Rooms

● Motor generator, control, switch and plant rooms

- shall be not less than 1 lux at the floor level.
- control equipment and switchboards shall be not less than 5 lux



Clause 8.5.2.5

Roof Plant and Plant Rooms

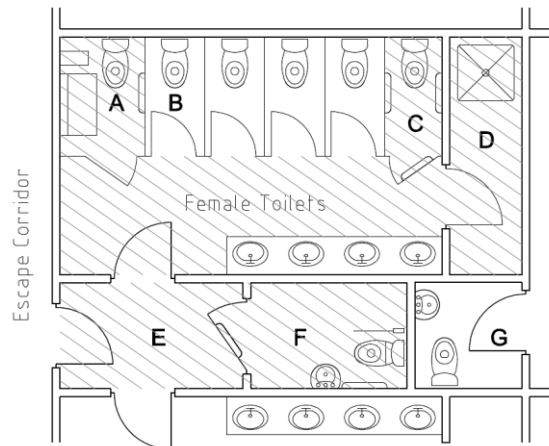
- Where access is required to roof for maintenance of plant and equipment then escape route lighting is to be provided.
- If exit route is not obvious then signage should also be provided.


Clause 8.5.2.10 / Clause 8.6.2 (b)



Toilets:

Emergency escape lighting for toilet areas – typical arrangements

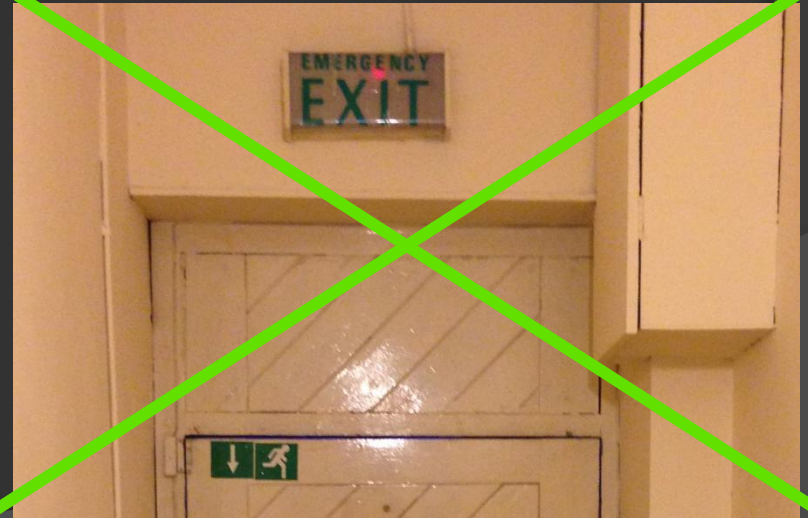


Key	Function & relevant considerations
	Denotes areas requiring emergency escape lighting.
Female Toilets	Female Toilets 22 m ² gross floor area. Emergency escape lighting required, 0.5 lux min. An emergency exit sign is required to avoid possible confusion with shower cubicle door.
A	Enlarged WC with baby changing facilities. Emergency escape lighting required, 1 lux min.
B	Standard WC. No emergency lighting required.
C	Ambulant Disabled WC. Emergency escape lighting required, 1 lux min.
D	Shower Cubicle. Emergency escape lighting required, 1 lux minimum
E	Toilet Lobby 3.9 m ² . Emergency escape lighting required, as per escape routes. Emergency exit sign is required to avoid possible confusion with other doors from the lobby. The emergency exit sign may contribute to meeting the system integrity requirements in 7.2.
F	Disabled Accessible Toilet. Emergency escape lighting required, 1 lux min.
G	Single Occupancy (able-bodied) Toilet. No emergency lighting required.

IS3217:2013 Annex E1

Emergency Escape Signs (Clause 8.6)

- Must Comply with signs directive:
- Location of Emergency exit signs requirement greatly expanded and clarified in clause 8.6.2.
 - a) at least one escape route or doorway leading to an escape route should be visible from any point within every room or enclosure....



Central Battery Systems, Cabling Requirements: (Clause 10)

- For 3 Hour Systems:
- Large Cables > 20mm must comply with BS8491
- Small Cables <20mm must comply
BS8519:2010 Annex B Cat 3 120 Mins*
- For 1 Hour Systems
- Large Cables > 20mm must comply with BS8491
- Small Cables <20mm must comply EN50200 PH60 including Annex E

(BS 8519:2010 Selection and installation of fire-resistant power and control cable systems for life safety and fire-fighting applications. Code of practice

Note on BS8519*

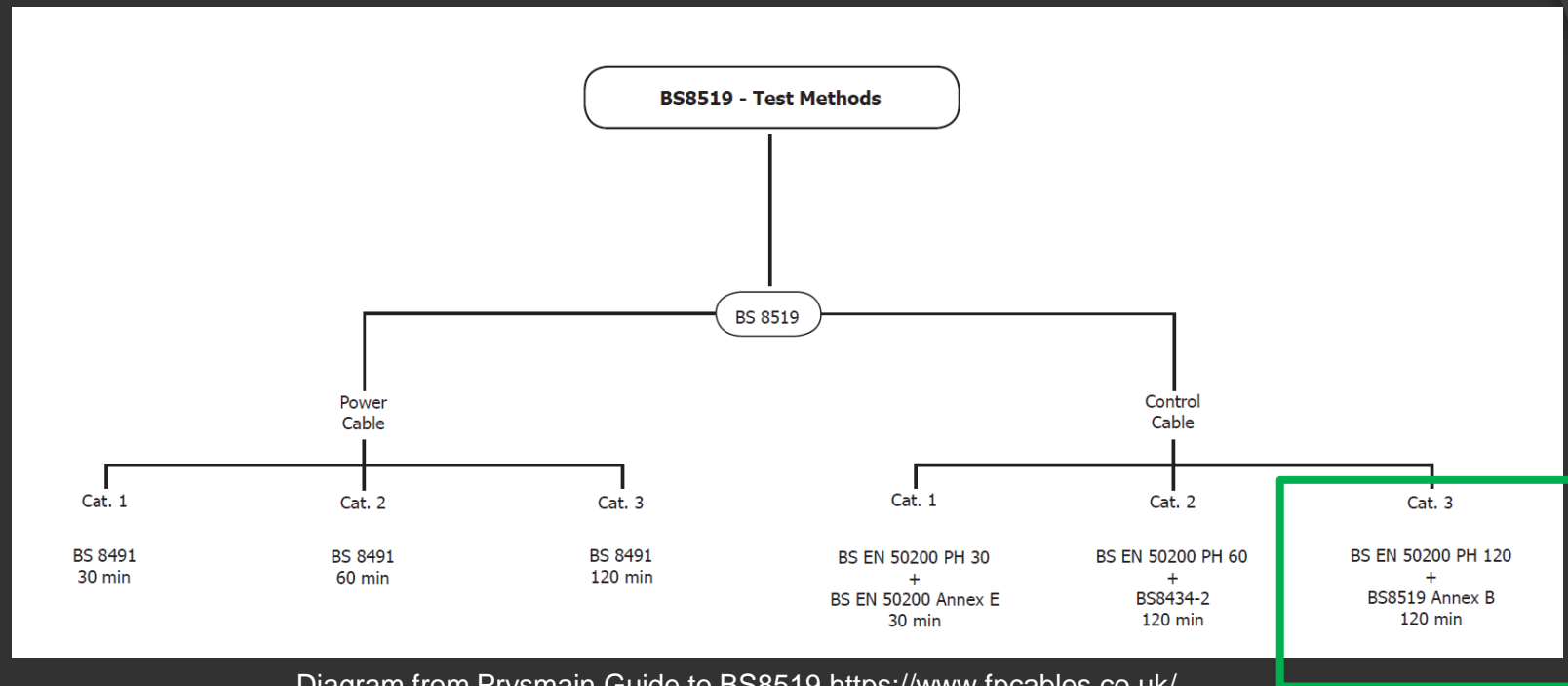


Diagram from Prysmian Guide to BS8519 <https://www.fpcables.co.uk/>

- BS8519 Annex B – additional burning time and water shock test above requirements En50200 Ph120 / BS8434-2 (e.g Enhanced fire alarm cable)
- BS8519 not applicable to UK equivalent Emergency Lighting standard BS5266-1:2011

**(BS 8519:2010 Selection and installation of fire-resistant power and control cable systems for life safety and fire-fighting applications. Code of practice)*

Cable Joints and Support

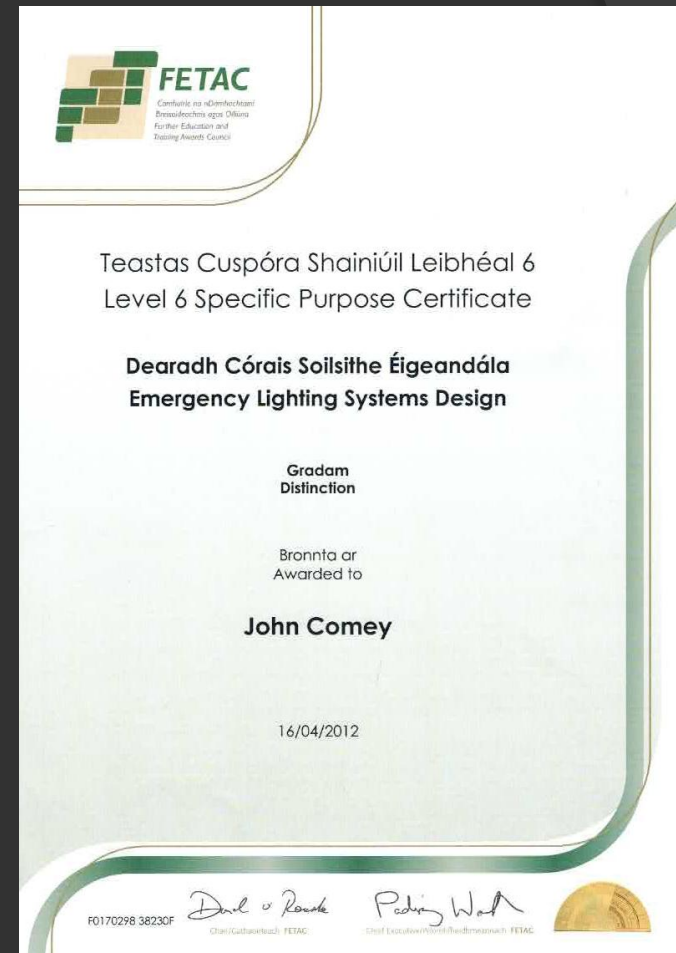
- Separate from all other non-fire resistive cables:
- Mechanically Protected.
- Cable Support Fire Resistance equal to that of Cable
- Fire Resistive Glands
- Ceramic Connectors, fuse holders and Junction Boxes



Competency:

Designers:

- *Clause 13.1 ... chartered engineer who is experienced and competent in emergency lighting design,*
- *or a professional engineer experienced and competent in emergency lighting design who holds qualification in emergency lighting design of at least a Level 6 Award ...*
- *or other competent person.*
- Responsibility of designer to demonstrate competence



Competency:

Commissioners / Inspection & Testing

- *Clause 16.1 It is the responsibility of the individual to demonstrate that they are competent to carry out inspection, testing and commissioning of emergency lighting systems. An appropriate qualification in emergency lighting under the National Framework of Qualifications could assist in demonstrating competence.*



NSAI

I.S. 3217:2008
Designer & Commissioner/Inspector

Name: John Comey

NSAI Registration Number: DC022012/0017

John Comey has successfully completed the NSAI
'Certificate in Emergency Lighting' course for
designers & commissioners/inspectors and is
deemed to comply with Annex B.2 (C) and B.4 (C)
of I.S. 3217:2008

Signed: Kieran Cox

Kieran Cox
NSAI Training Coordinator

Date: 13th MARCH 2012

Competency:

Installation:

- *Clause 9.1 The electrical installation of emergency lighting systems shall be carried out to comply with ET 101.*
- *Suitably qualified persons shall be a registered electrical contractor (REC) as recognised by the CER.*



Design-Certificate

- For new systems:
 - Issued on designers headed paper
 - List Justified Variations
 - Confirm their Competency
 - Confirm no adverse impact on existing system

I.S. 3217:2013

Annex C2
(normative)

Emergency Lighting System Certificate of Design

This certificate shall be printed on paper clearly showing the design company's details

Certificate Number:.....

New System: ☐ Modification, Extension Or Alteration To Existing System: ☐ (tick appropriate box):

Building Name Owner and/or Occupier:.....

Description of Works:.....

Address of Building:.....

Designer's Name:.....

Reference Drawing(s):.....

Justifiable Variations/Items/Areas Excluded: [tick appropriate box(es)]

Justifiable Variations to I.S. 3217:2013 and/or the Specification: No ☐ Yes ☐ (listed as attached)

Items/Areas Excluded From This Certificate: No ☐ Yes ☐ (listed as attached)

I/We hereby certify that, to the best of my/our ability, knowledge and belief, the Emergency Lighting System at the above building as set out on the listed drawings has been designed by me/us in accordance with the requirements and recommendations of I.S. 3217:2013 except as stated on the attached justifiable variations (if any).

I/We confirm our competence to carry out this design.

I/We further confirm that, where the works are limited to modification, extension or alteration to an existing system, that I/we have given due consideration to the impact on the original system and I/we have taken adequate precautions to the best of my/our ability, knowledge and belief to ensure that there is no adverse impact on either the original system or the modifications.

Comment:.....

.....

Details and signature of authorised person responsible for the design of the system:

Name:..... Position:.....

Signed:..... Date:...../...../.....

For and on behalf of (company):.....

Installer-Certificate

- For new system
 - Confirm installed in compliance designer specification and drawings
 - Confirm competence
 - Confirm compliance with IS3217
 - Confirm no adverse effect on existing system.
 - Confirm as installed drawings and other records provided.
 - Issue ECTI Certificate.

I.S. 3217:2013

Annex C3
(normative)

Emergency Lighting System Certificate of Installation

This certificate shall be printed on paper clearly showing the installation company's details

Certificate Number.....

New System: ☐ Modification, Extension Or Alteration To Existing System: ☐ (tick appropriate box)

Building Name Owner and/or Occupier

Address of building

Description of Works.....

Installers Name

Reference Drawing(s).....

I/We hereby certify that the Emergency Lighting System at the above building has been installed by me/us in accordance with the System Designer's specification and the System Designers' drawings above and in accordance with the requirements of I.S. 3217:2013.

I/We confirm my/our competence to undertake this work and to the best of my/our ability, knowledge and belief, the installation works comply with I.S. 3217:2013.

I/We confirm that, where work has been undertaken to add to or modify an existing system, that due consideration has been given to the impact of this work on the existing system and to the best of my/our ability, knowledge and belief there will be no adverse affect(s) brought about by my/our work.

I/We also certify that, in accordance with the Designers' specification and I.S. 3217:2013, all record drawings and installation certificates required have been provided, testing/inspecting has been carried out and the certification issued.

Record Drawing(s).....

Electrical Certification issued as required by ET101: ETCI Certificate number.....

Comment.....

Details and signature of authorised person responsible for the installation of the system:

Name..... Position.....

Signed..... Date:...../...../.....

For and on behalf of (company).....

Commissioning Certificate

- For new systems
 - Issued on commissioner's headed paper
 - Confirm compliance with IS3217
 - Confirm competence
 - List excluded areas. (e.g. Limited to new extension.)

Annex C4
(normative)

Emergency Lighting System Final Certificate of Commissioning

*This certificate shall be printed on paper clearly showing the commissioning company's details.
A copy of this certificate shall be retained by the person/company responsible for issuing it.*

Certificate Number.....

Commissioning New System: ☐

Commissioning for Modification, Extension or Alteration to Existing System: ☐ (tick appropriate box)

Building Name Owner and/or Occupier.....

Address of Building

.....

Description of Works

.....

Reference Drawing(s)

Justifiable Variations / Areas/Items Excluded: [tick appropriate box(es)]

Justifiable Variations to I.S. 3217:2013 and/or the Specification: No ☐ Yes ☐ (listed as attached)

Areas/Items Excluded From This Certificate: No ☐ Yes ☐ (listed as attached)

I/We hereby certify that the Emergency Lighting System at the above building, and as detailed above, has been inspected, tested and commissioned by me/us in accordance with the requirements of I.S. 3217:2013.

I/We confirm my/our competence to undertake this work and to the best of my/our ability, knowledge and belief the commissioned works outlined above comply with the standard except as outlined on the attached justifiable variations (if any)

Comment.....

.....

Details and signature of authorised person responsible for the commissioning of the system

Name..... Position

Signed..... Date:...../...../.....

For and on behalf of (company)

Handover Certificate

- Signed by owner occupier to confirm receipt of documentation
- Also confirm they have been informed about user responsibilities.
 - Clause 14 – log books and records
 - Clause 15 – *“It is the responsibility of the owner/occupier/management of the building to ensure that the emergency lighting system is maintained in accordance with Clauses 14 and 16.”*
 - Clause 16 – Maintenance requirements:

Annex C5 (normative)

Emergency Lighting System Certificate of Handover

This certificate shall be printed on paper clearly showing the commissioning company's details.

Certificate Number

New System: ☐ Modification, Extension or Alteration to Existing System: ☐ (tick appropriate box)

Address of Building

Extent of system covered by this certificate

The following information has been received by the owner/occupier

	Y/N	Initials
Certificate of Design		
Certificate of Installation		
Final Certificate of Commissioning		
Complete operation and maintenance manuals specific to the installed system		
As installed drawings of the system indicating the positions and locations of all parts of the system		
Proposal for a Service Contract Agreement for the system		
System Logbook (Refer to 14.1)		

My/Our attention has been drawn to my/our responsibilities under Clauses 14, 15 and 16 of I.S. 3217:2013.

I/We being the person(s) responsible for the acceptance of the Emergency Lighting System, confirm receipt of the Handover Documentation as detailed above, and accept the system on behalf of:

Name..... Position

Signed..... Date:...../...../.....

For and on behalf of (owner /occupier).....

Comments.....

Maintenance & Testing

- No longer a requirement to do a light level (lux) test every 4 years.
- Service providers now required to provide an “opinion” annually that illuminance requirements are adequate instead.
- Table D1.(j) It is the opinion of the persons(s) undertaking the Annual Inspection and Testing that the illuminance requirements of the applicable version(s) of I.S. 3217 are complied with and that emergency lighting is provided in all locations as required by the applicable version(s) of I.S. 3217.



Inspection and Test Frequency:

◎ 2008 Standard

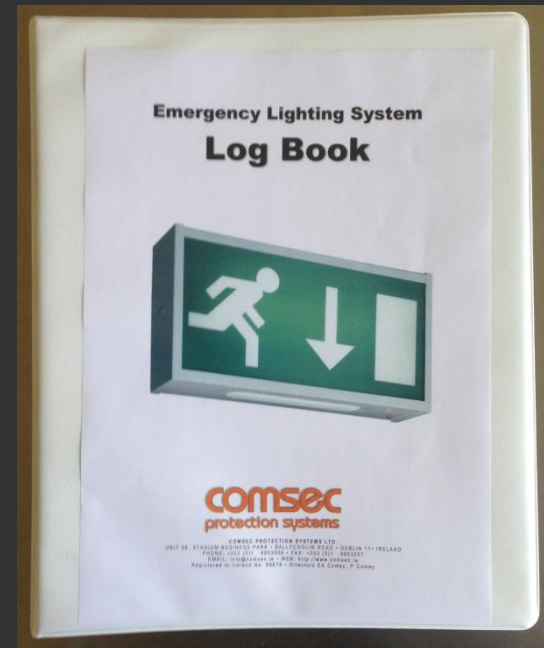
- weekly,
- three-monthly,
- and annually.

◎ 2013 Standard

- daily,
- weekly,
- three monthly
- and annually

Daily- inspection by user.

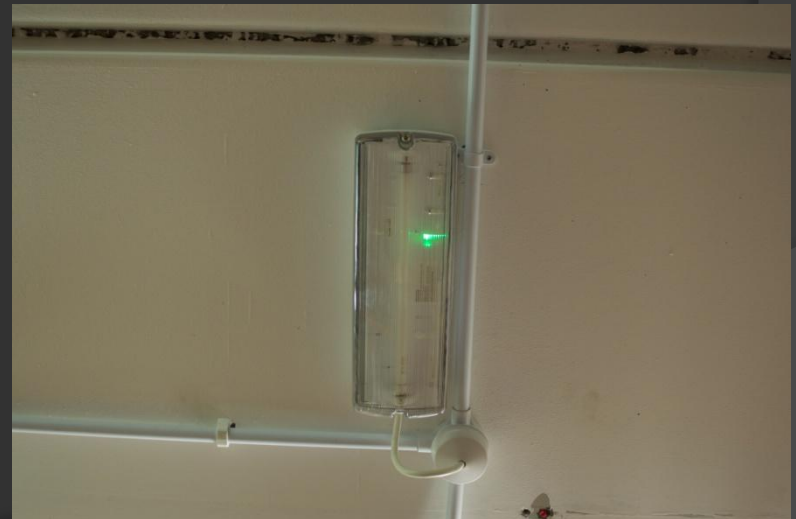
- Check Logbook to confirm previous repairs complete.
- Check indicators on central battery system.
- Check indicators on automatic test systems
- Record any deficiencies in Logbook.



Clause 6.2.1

Weekly – inspection

- Check the following on at least 25% of system:
 - Visual check each lamp in maintained/sustained system.
 - Check status LED on self contained or stand alone self-test systems
 - Ensure lamps are replaced.
- 100% should be tested over 4 week period.
- (note in 2008 100% inspected weekly)



Quarterly - Report

- Carried out 4 times a year.
Every 3 months (+/- 30 days)
- On Standalone System:
 - Simulate Power Failure (30 minutes for 3h system)
 - Verify lamps are illuminating at end of test period.
 - Additional checks for CBS/ATS listed in the standard or recommended by manufacturers e.g. Batteries.
 - Issue Report Annex C7 (no longer called a quarterly certificate).

Clause 16.4

comsec
protection systems

Emergency Lighting System Report for inspection, testing & servicing
This is not a certificate for annual inspection and testing or a final certificate of commissioning.
This report shall be printed on paper clearly showing the inspection, testing or servicing company's details.

Applicable standard to which the Emergency Lighting System was installed [tick appropriate box(es)]
I.S. 3217:1989 ☐ I.S. 3217:2008 ☐ I.S. 3217:2013 ☐

Evidence Of Commissioning Available Yes ☐ No ☐ (tick appropriate box)

Building Name Owner and/or Occupier

Address of Building

Description of Works

Record Drawing(s)

The Inspection, Testing and Servicing work covered by this report is set out below (tick appropriate box):
☐ Quarterly Inspection and Test
☐ Special Servicing following a fault
☐ Other non-routine attention

I/We hereby declare that the Emergency Lighting System at the above building, and as detailed above, has been inspected, tested and/or serviced by means in accordance with the requirements of 16.2.4 (quarterly inspection) of I.S. 3217:2013 and with reference to the applicable standard(s) to which the emergency lighting system was installed, that all relevant details have been recorded in the logbook in accordance with Clause 14 and the schedule for periodic inspections & tests due dates has been updated.

I/We hereby declare that were this report relates to a special servicing following a fault(s) and/or other non-routine attention that the details of any deficiencies, defects and/or faults otherwise discovered and any necessary corrective action(s) required or carried out have been recorded in the logbook.


Comments/Recommendations


I/We confirm my/our competence to undertake this work

Name Position

Signed: Date: / /

For and on behalf of (company) Comsec Protection Systems Ltd.

 **COMSEC PROTECTION SYSTEMS LTD.**
FIRE PROTECTION AND SECURITY ENGINEERS
UNIT 26, STADIUM BUSINESS PARK, • BALLYDOOLIN ROAD, • DUBLIN 11
PHONE: (01) 8853008 • FAX: (01) 8853007
EMAIL: info@comsec.ie • WEB: http://www.comsec.ie
Registered in Ireland No. 59878 • •PSA 00654WEEE ED1115W•
Directors EA Comey, P Comey, J Comey, B Comey, E Comey•
FM-EL-06 (00)

 **IAS-1402**

2008 Quarterly Check List Removed.

I.S. 3217:2008

SCHEDULE TO EMERGENCY LIGHTING PERIODIC INSPECTION AND TEST CERTIFICATION

Results of inspection and tests:	Delete as Applicable
a) Are correct entries made in the log book?	YES/NO
b) Are record drawings available?	YES/NO
c) Are record drawings correct?	YES/NO
d) Signs:	
1) Are the signs correctly positioned?	YES/NO
2) Are details of the signs correct?	YES/NO
e) Luminaires: Are luminaires correctly positioned?	YES/NO
f) Illumination for safe movement:	
1) Are the correct lamps installed in the luminaires?	YES/NO
2) Is the installation in a generally satisfactory condition?	YES/NO
g) Marking:	
1) Is the category and nominal operating voltage of the system clearly marked or readily identifiable?	YES/NO
2) Is information available to ensure correct battery and lamp replacement?	YES/NO
h) Central battery systems including backup batteries:	
1) Are the charging arrangements for secondary batteries satisfactory?	YES/NO
2) Do changeover devices operate satisfactorily upon simulation of failure of the normal supply?	YES/NO
3) After operation for the rated duration:	
i) Do all luminaires operate?	YES/NO
ii) Are all signs illuminated and visible?	YES/NO
iii) Following the restoration of the system to normal, is the battery charger functioning?	YES/NO
iv) Are the levels and the specific gravities of the battery electrolytes satisfactory, where applicable?	YES/NO
i) Engine driven generating plant:	
After a period of operation of at least 1h:	
1) Do all luminaires and operate?	YES/NO
2) Are all signs illuminated and visible?	YES/NO
3) Does the back-up battery where installed operate satisfactorily? (See (h) above)	YES/NO
4) Following the restoration of the system to normal:	
i) Is the battery charger for the engine starter battery functioning?	YES/NO

I.S. 3217:2008

ii) Are the levels and the specific gravities of the battery electrolytes satisfactory?	YES/NO
iii) Are the fuel coolant and lubricating oil levels correct?	YES/NO
j) Self-contained luminaires and signs:	
After operation for the 3h duration:	
1) Does each self-contained luminaire and sign operate?	YES/NO
2) Following restoration of the system to normal supply is the battery charger functioning?	YES/NO
Comment and variation from the Standard:	
<p>Owing to the possibility of a failure of the supply to the normal lighting occurring shortly after a period of testing all tests shall be undertaken at times of minimum risk. Alternatively, suitable temporary arrangements shall be made until the batteries have been recharged.</p>	

New quarterly test significantly reduces the checks required by 2008 Annex C.

Most items from old periodic check-list now contained in new annual checklist.

Annual Report / Certificate

- Annual Certificate only issued if no defects found. i.e. no longer possible to issue cert with variations .
- Requires 100% compliance with requirements set out in Annex D.
- Compliance with Annex D is a check list of key parts and does not mean a system is fully compliant with Is3217 (any revision).

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Emergency Lighting System Certificate for Annual Inspection & Testing

This is not a final certificate of commissioning

This certificate shall be printed on paper clearly showing the inspection, testing or servicing company's details

A copy of this certificate shall be retained by the person/company responsible for issuing it.

Certificate Number.....

Applicable standard to which the Emergency Lighting System was installed and is now being certified against [tick appropriate box(es)]

I.S. 3217 1989 ☐ I.S. 3217 2008 ☐ I.S. 3217 2013 ☐

Is commissioning certificate available Yes ☐ No ☐ [tick appropriate box]

Building Name, Owner and/or Occupier

Address of Building

Description of Works and area being certified.....

Record Drawing(s).....

System type: [tick appropriate box(es)]

☐ Self-contained ☐ Central Powered System ☐ ATS

Comments on system type:

I/We hereby certify that the Emergency Lighting System at the above building, and as detailed above, has been inspected & tested by me in accordance with the relevant requirements of 16.2.5. of I.S. 3217:2013 and with reference to the applicable standard(s) to which the emergency lighting system was installed, confirm that there are no deviations or faults with the system as of the date of this declaration.


I/We confirm our competence to carry out this work.


Name..... Position.....

Signed..... Date:...../...../.....

For and on behalf of (company).....

Comments:

 **COMSEC PROTECTION SYSTEMS LTD.**
FIRE PROTECTION AND SECURITY ENGINEERS
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Directors EA Comey, P Comey, J Comey, B Comey, E Comey

 **IAS-1402**

P.M.-EL.-95 (00)

Annual Report

- Issued when system fails to meet one of the requirements Annex D.

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Emergency Lighting System Report following annual inspection & testing

This is not a certificate for annual inspection and testing or a final certificate of commissioning
This report shall be printed on paper clearly showing the inspection, testing or servicing company's details

Applicable standard to which the Emergency Lighting System was installed [tick appropriate box(es)]
I.S. 3217 1989 ☐ I.S. 3217 2008 ☐ I.S. 3217 2013 ☐

Premises Name Owner and/or Occupier

Address of Premises

Record Drawing(s)

Reasons for withholding Certificate for Annual Inspection & Testing	Reference Annex D I.S.3217:2013	Annex D Item Number(s) (if applicable)
	a	
	b	
	c	
	d	
	e	
	f	
	g	
	h	
	i	
Details of other deviations/deficiencies/faults found during Annual Inspection & Testing	Clause(s) Reference of applicable standard(s)	

I/We hereby declare that the Emergency Lighting System at the above premises, and as detailed above, has been inspected, tested and/or serviced by me in accordance with the requirements 15.2.6 of I.S. 3217:2013 and with reference to the applicable standard(s) to which the emergency lighting system was installed, that all relevant details relating to faults, deficiencies or deviations and system maintenance have been recorded in the log book and the schedule for periodic inspections & tests due dates has been updated.


Comments/Recommendations:.....

I/We confirm my/our competence to undertake this work

Name..... Position


Signed..... Date:...../...../.....

For and on behalf of (company) Comsec Protection Systems Ltd



1.76.002

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1.76.002

FM-EL-06 (00)

Annual Test Annex D.

ITEM	REQUIREMENT	Requirements Applicable to the relevant version of I.S. 3217.		
		1989	2008	2013
a	Mode of operation for emergency exit signs is maintained (2)	Yes	Yes	Yes
b	There is evidence that the system is being adequately maintained	Yes	Yes	Yes
c	Emergency exit signs clearly and unambiguously indicate direction of escape	Yes	Yes	Yes
d	All emergency luminaires and signs are operational and meet the full durational test requirements	Yes	Yes	Yes
e	Following the completion of the full duration test all emergency lighting indicators show healthy status	Yes	Yes	Yes

Annual Test Annex D.

ITEM	REQUIREMENT	Requirements Applicable to the relevant version of I.S. 3217.		
		1989	2008	2013
f	The following points of emphasis have emergency luminaire(s) (4)			
	1) each staircase	Yes	Yes	Yes
	2) each change in floor level	Yes	Yes	Yes
	3) each change of direction	Yes	Yes	Yes
	4) each fire alarm call point	Yes	Yes	Yes
	5) fire fighting equipment	Yes	Yes	Yes
	6) each emergency exit door	Yes	Yes	Yes
	7.1) Outside each final exit and outside the building to a place of safety	N/A	N/A	Yes
	7.2) Outside each final exit and close to it (1)	Yes	Yes	N/A
	8) each change of direction	Yes	Yes	Yes
	9) emergency exit and safety signs required by the enforcing authority	Yes	Yes	Yes
	10) each first aid post	N/A	Yes	Yes
	11) each intersection of corridors	Yes	Yes	Yes
	12) Near escape equipment provided for the disabled	N/A	Yes	Yes

Annual Test Annex D.

ITEM	REQUIREMENT	Requirements Applicable to the relevant version of I.S. 3217.		
		1989	2008	2013
h	There is a suitable test facility for simulating failure of supply	Yes	Yes	Yes
i	In the event of circuit failures on emergency escape stairwells, emergency escape lighting is present and functions (3)	Yes	Yes	Yes
j	It is the opinion of the persons(s) undertaking the Annual Inspection & Testing that the illuminance requirements of the applicable version(s) of I.S. 3217 are complied with and that emergency lighting is provided in all locations as required by the applicable version(s) of I.S. 3217.	Yes	Yes	Yes
	<p>(1) I.S. 3217 1989 - may rely on local authority lighting if adequate.</p> <p>(2) I.S.3217 1989 - Please refer to Annex F of this standard for exceptions: In particular F2, F3, F4, F6, F8.2.</p> <p>(3) The person(s) carrying out the annual inspection & testing shall ensure that suitable measures and precautions are taken to safeguard the building occupants.</p> <p>(4) For specific requirements of items listed in "f", please refer to the applicable standards.</p>			



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