

John Comey

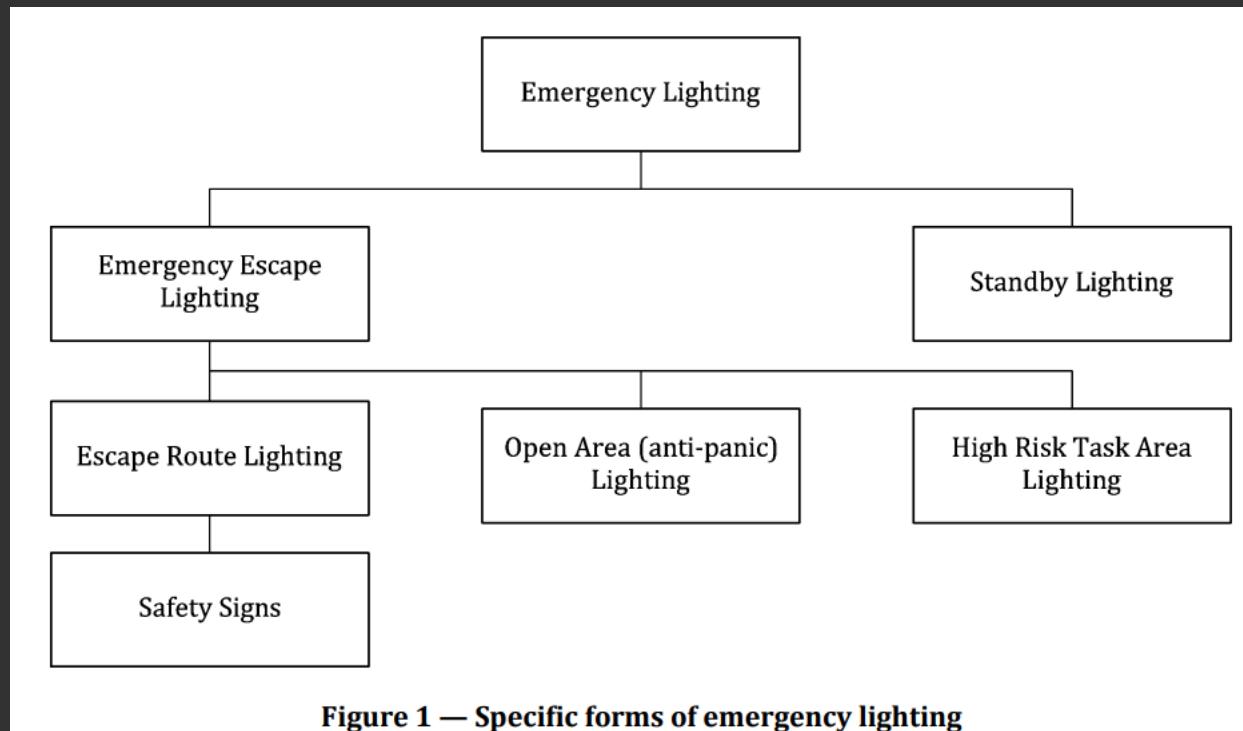
B.Eng. M.Eng.(Electronic Systems) M.Sc.(Fire Safety) MIEI

EMERGENCY LIGHTING DESIGN TO IS3217:2023

ABOUT THIS PRESENTATION

- Brief review of significant changes to the standard.
- Highlight some of often missed design requirements of old standard.
- Discuss relationship to Technical Guidance Document B Vol 1 2024

Types of Emergency Lighting



I.S.3217:2023 Figure 1

Need for emergency Lighting:

TGD B 2024 1.9.8.3 Provision of Emergency Lighting Emergency escape lighting should be provided to:

(a) clearly and unambiguously indicate the escape routes so that the means of escape can be safely and effectively used; and

(b) provide illumination along such routes to allow safe movement towards and through the exits provided; and

(c) ensure that fire-alarm call points, and fixed hose reels (see Para 1.9.15), where provided, can be readily located.

- *Emergency escape lighting should be provided in accordance with the provisions indicated in Table 11 and should be designed and installed in accordance with the relevant recommendations of I.S. 3217 or equivalent*

(a, b and c) Reiterated in IS3217:2023 Clause 5.1.1.



TGD B Table 11

Table 11 Provision of Emergency Escape Lighting		Para 1.9.8.3
Use of building or part of building	Purpose Group ⁽¹⁾	Parts requiring emergency escape lighting
Flats	1(c)	Defined escape routes, other than within dwellings. Ancillary accommodation, including rooftop amenities
Residential (care facility)	2(a)	Defined escape routes, wards, treatment rooms, communal rooms, bathrooms and toilet areas, kitchens, other rooms over 30 m ² in area
Residential (other)	2(b)	Defined escape routes, dormitories, common rooms, kitchens, other rooms over 30 m ² in area
Offices	3	Defined escape routes and undefined escape routes over 60 m ² in area
Shops	4(a)	Defined and undefined escape routes ⁽²⁾
Shopping Centre	4(b)	Defined and undefined escape routes within individual shop units and in mall and concourse areas.
Assembly and recreation	5	Defined and undefined escape routes ⁽³⁾
Industrial	6	Defined escape routes and undefined escape routes over 60 m ² in area
Storage	7	Defined escape routes and undefined escape routes over 60 m ² in area
Other non-residential	8	Defined escape routes, common areas, rooms over 30 m ² in area
Any use other than dwelling houses	1(c), 2 to 8	Emergency generator room, switch room, plant room, battery room for emergency lighting system.
Any use other than dwelling houses	1(c), 2 to 8	External escape routes as required ⁽⁴⁾
Notes:		
(1) See Table 1 .		
(2) Except a shop at ground floor with a sales area less than 100 m ² and maximum travel distance of 15 m to a final exit to a public area.		
(3) Except in accommodation open on one side, with naturally lit escape routes, to view sport or entertainment during normal daylight hours; and except toilet accommodation having a floor area of not more than 8 m ² .		
(4) Except where there is sufficient external lighting from a public or other independent power supply.		

Note: IS3217 no longer specifies these provision requirements for different building types: (Formally Annex G in IS3217+A12017)

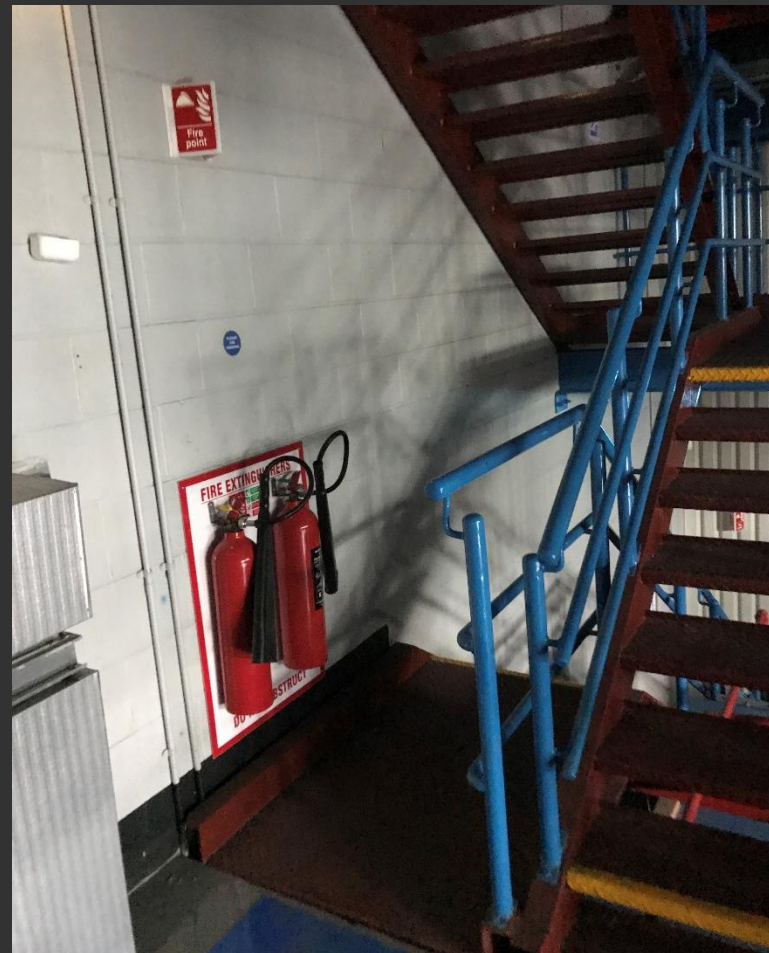
Need for emergency Lighting:

- IS3217 :2023 does not give guidance on escape lighting for:
 - emergency Services for search and rescue
 - or building reoccupation
(Removed in 2013 Revision)
- 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.~~
- However : TGD B 2024 5.5.6.8 requires Emergency Lighting for Firefighting Shafts



Emergency Lighting for fire fighting shaft (TGD B Vol 1: 5.5.6.8)

- TGD B Vol 1: 5.5.6.8
Emergency Lighting for
- *...., each firefighting shaft should have emergency lighting luminaries at the following locations:*
 - (a) at each final exit and outside the building; and*
 - (b) in any access corridor at ground floor (where provided) constructed as part of the firefighting shaft leading to the firefighting stairs (see Diagram 76); and*
 - (c) at each flight of stairs; and*
 - (d) at each landing; and*
 - (e) near each piece of firefighting equipment; and*
 - (f) near signs provided for firefighting purposes; and*
 - (g) in each firefighting lobby; and*
 - (h) in any corridor providing access to a firefighting stairs.*



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

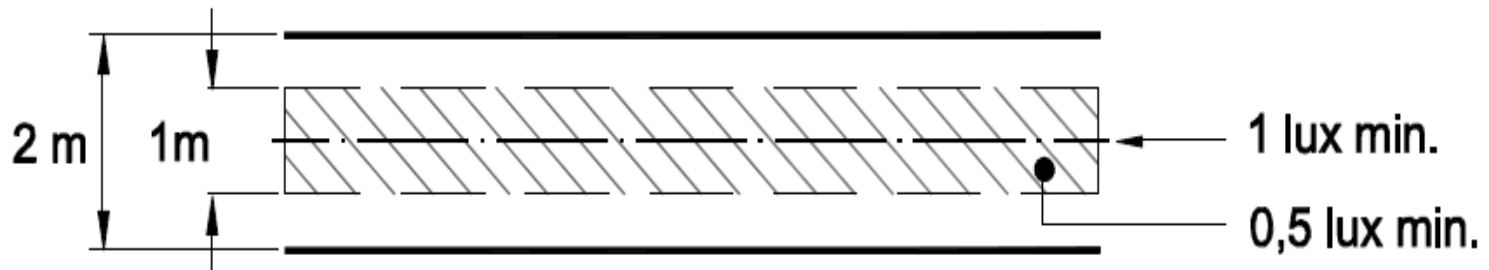
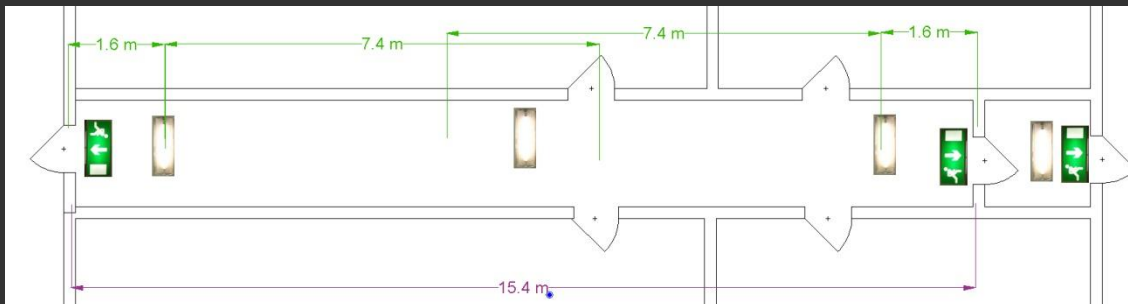
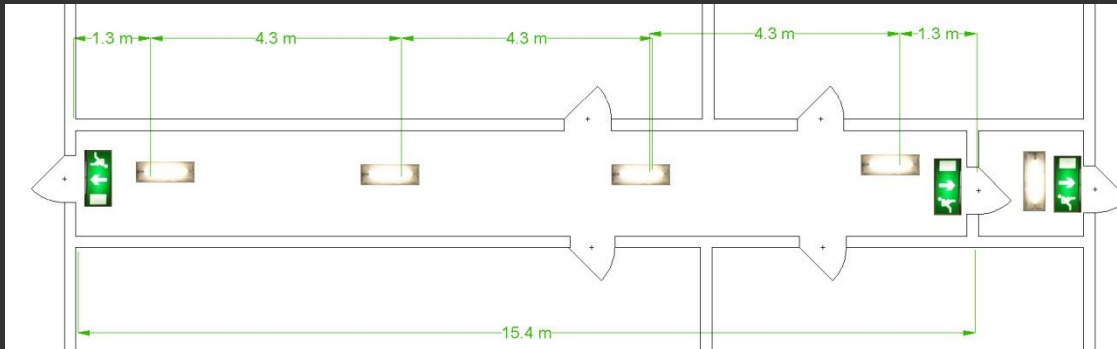


Figure 2 — 2 m wide defined escape route

IS3217 Clause 5.3.6 Defined escape routes

Achieving 1 Lux: Bulkhead Example



Photometric Data

Mode	Mounting height (m)	Lux level directly under	Escape route 2m wide 1 lux min					Open (anti-panic) area 0.5 lux min						
			↔	↔	↔	↔	↔	↔	↔	↔				
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

Mode	Mounting height (m)	Lux level directly under	Escape route 2m wide 1 lux min					Open (anti-panic) area 0.5 lux min						
			↔	↔	↔	↔	↔	↔	↔	↔				
NM Self contained														
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														
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 LED bulkhead there is a big variation on light output from different manufacturers and different fittings.
- Spacing tables or photometric data not always available.
- Ratio of the minimum to the maximum illuminance shall not be less than 1:40 along the centre line of the escape route. (clause 5.3.2)

Wide Escape Routes

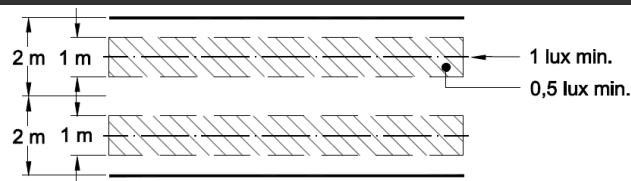


Figure 3 — 4 m wide defined escape route treated as two 2 m wide strips

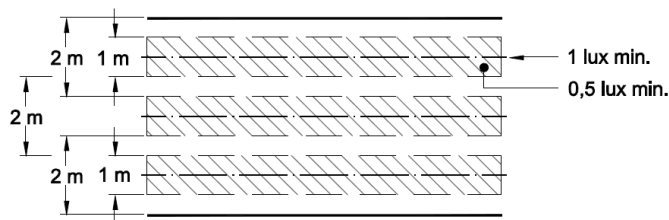


Figure 4 — 5 m wide defined escape route treated as three 2 m wide overlapping strips

IS3217 Clause 5.3.6

**Treat as series of 2m
Corridors**

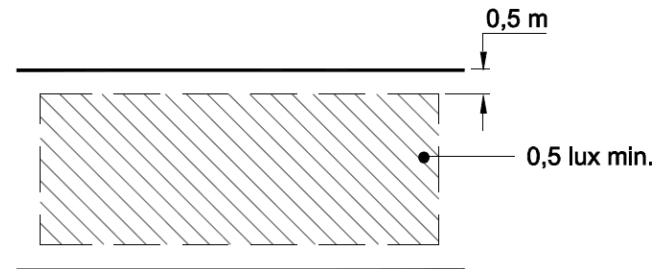


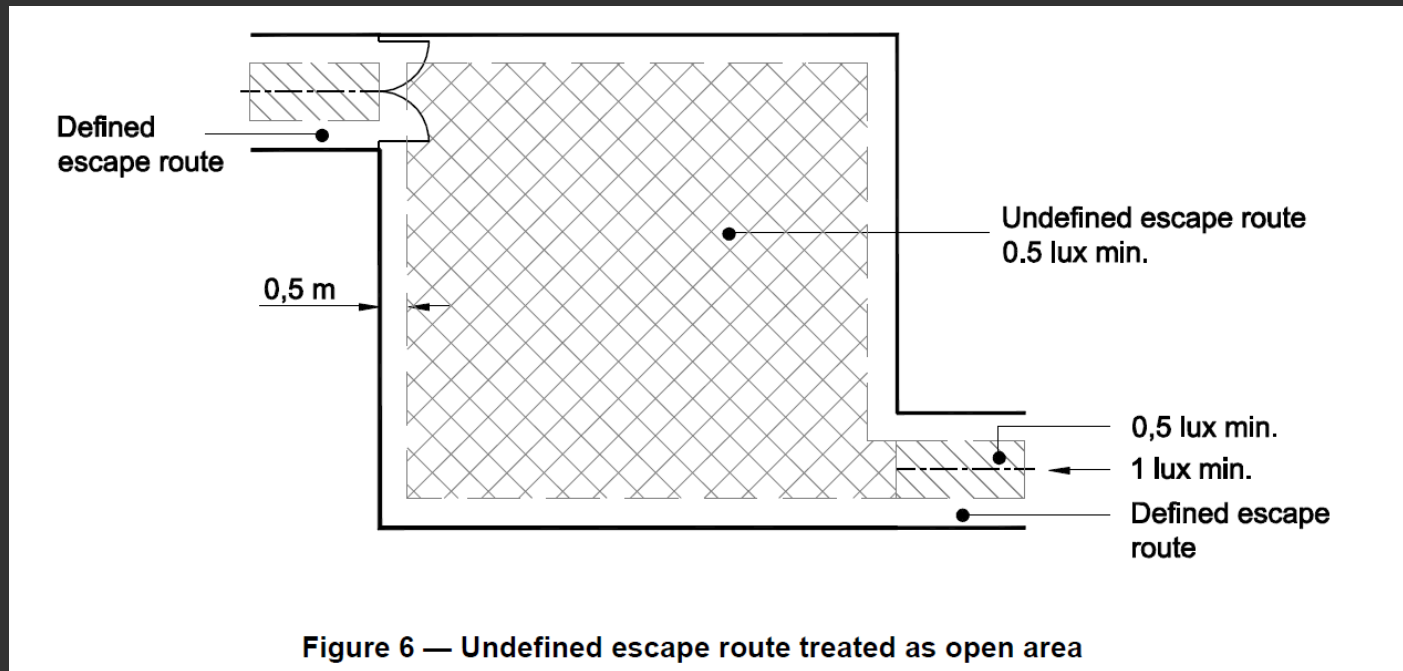
Figure 5 — Defined escape route >2m treated as open area

IS3217 Clause 5.3.6

**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 5.3.7 Undefined escape routes -
IS3217 Clause 5.4 Open Areas

Escape Route (Annex E2)

Annex E2 (informative)

Example of areas requiring emergency escape lighting

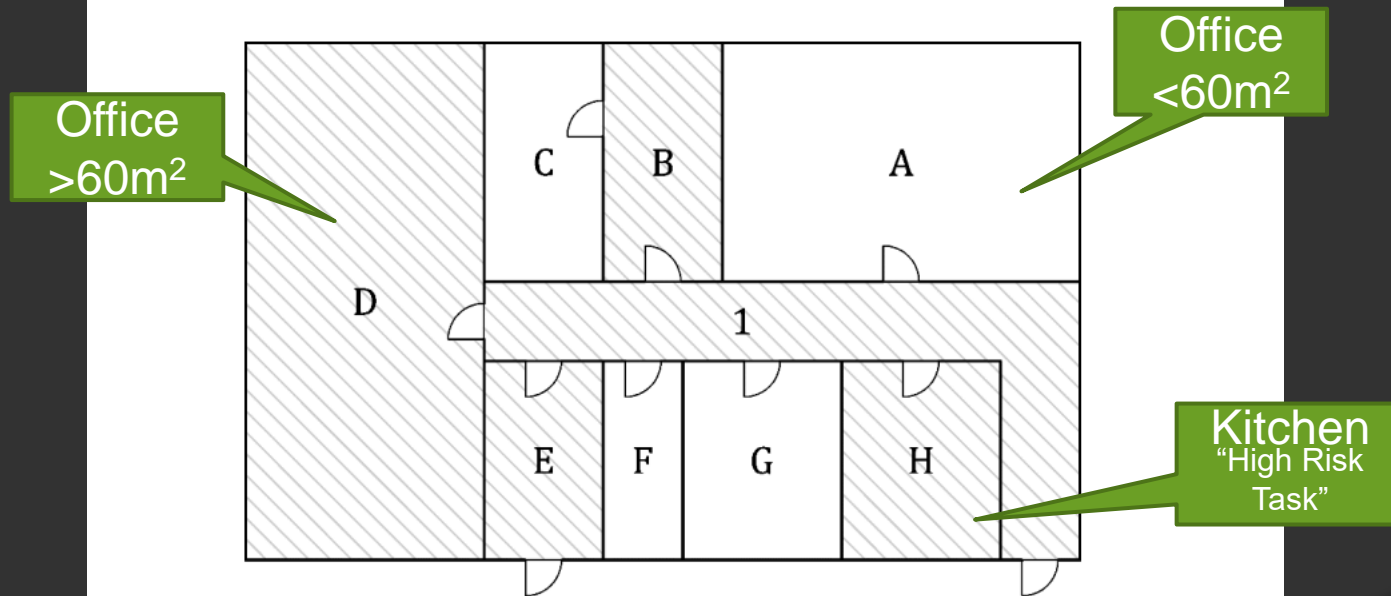


Figure 11 — Room layouts

Example From Annex E2 - Hatched Areas require Escape Lighting

Escape Routes (Definitions):

- defined escape routes, such as exits, escape corridors and escape stairways, through which or along which, persons may be required to travel to reach a final exit from a building
- undefined escape routes open areas in a building where the escape routes are not fixed or defined by the elements of construction

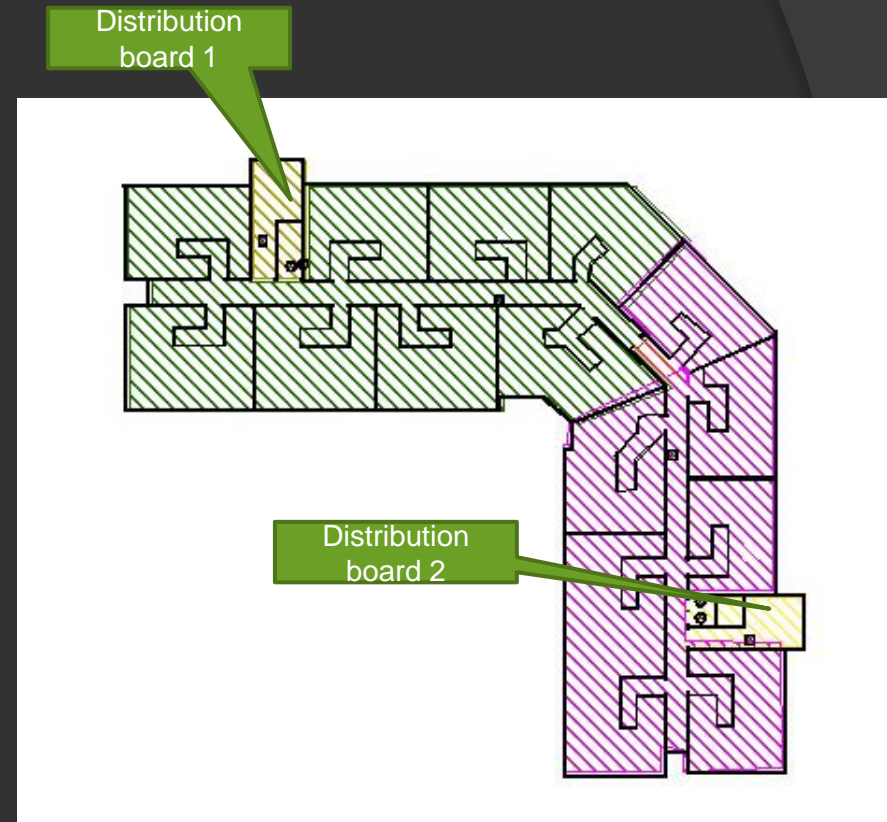
Glare :



- The brightness of the luminaires can dazzle and prevent obstructions or signs being seen.
- *5.3.3 Glare ...
Disability glare shall be contained to an acceptable level by limiting the luminous intensity of the luminaires within the field of view (see Table 2).*

Local Circuit Monitoring:

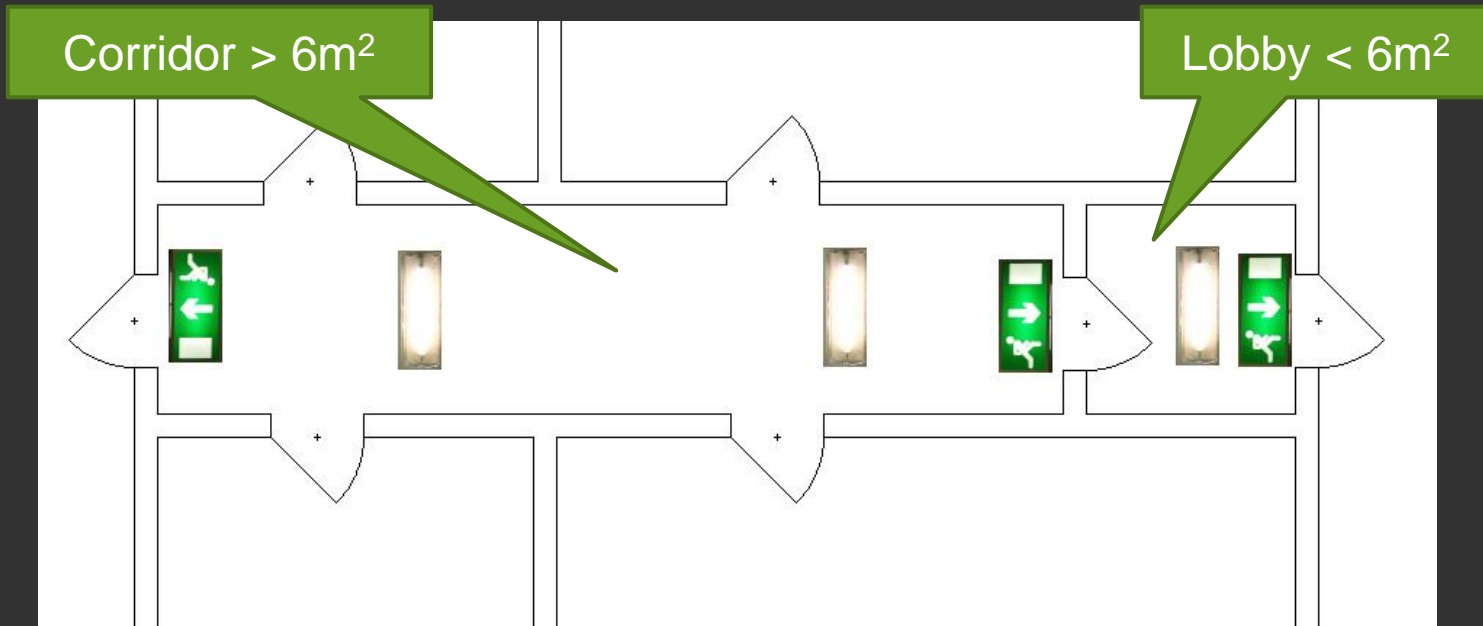
- 3217:2023 Clause 5.1.1
... Arrangements shall be made to ensure that local emergency escape lighting will operate in the event of failure of the normal supply to the corresponding local circuit.
- TGD B Vol 1 2024 - 1.9.8.2
... Emergency escape lighting is required:
(a) on complete failure of the power supplies to the normal lighting in the building; or
(b) on a localised failure of the normal lighting.
- Note: 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.
- Individually fused or similar so single light failure does not affect whole circuit

(Clause 5.6)

Emergency Escape Signs (Clause 5.8.2)

Location of Emergency exit signs requirement expanded and clarified in clause 5.8.2

- a) at least one escape route or doorway leading to an escape route should be visible from any point within every room or enclosure....



Emergency Escape Signs (Clause 5.8.2)

- All new Systems Must Comply with I.S. EN ISO 7010. (Type 1)
- Type 2 (signs Directive) Acceptable only were adding to existing system.
- Non-graphical 'EXIT' type emergency exit signs should be upgraded to Type 1.



Points of emphasis

Clause 5.7.2 Points of emphasis

Is a non-exhaustive list of places requiring emergency luminaires to be installed :

Examples:

- near (within 2m) final exits, change of direction, corridor intersections,
- each flight of stairs receives direct light,

Achieve 5 lux at

- first aid post
- firefighting equipment,
- fire alarm panel and call point



External Escape Routes

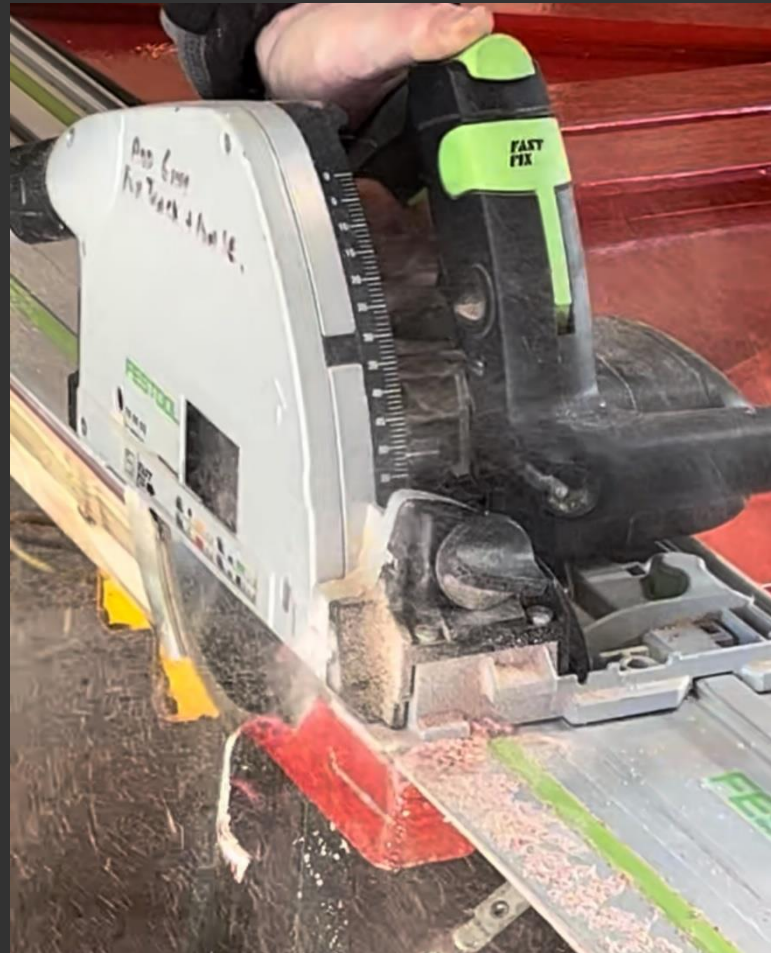
- IS3217 Clause 5.7.2
- ...
 - g) near to each final exit and outside the building to a place of safety,
- TGD B Table 11 : All Purpose groups “External escape routes as required (4)”
(4) Except where there is sufficient external lighting from a public or other independent power supply



High Risk Task (Clause 5.5)

- Areas where high risk area task lighting is required shall be determined by a competent person.

the maintained illuminance > 10 % of that required for task, and it shall not be less than 15 lx.



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 5.7.7 Motor generator, control, switch and plant rooms

System Types

Self-contained systems

- All elements are such as battery and control circuits are contained within the luminaire (or adjacent to within 1 m cable length)
- Various automatic or manual testing options are possible and should be clearly specified at design stage.



System Types

Central Battery Systems

- *Distributed system where emergency electrical supply is from a central battery unit.*
- Cable required to be fire and water resistant and mechanically protected.
- Cables must be fire and water resistive to appropriate standard (clause 8.2.2)
- Separate from all other non-fire resistive cables:
- Mechanically Protected.
- Cable Support Fire Resistance equal to that of Cable



Confirmation Docs.& Reports

Certificates from earlier standards replaced with confirmation of compliance documents

- Confirmation of design to I.S. 3217:2023 (see Annex C2),
- Confirmation of installation to I.S. 3217:2023 (see Annex C3),
- Confirmation of commissioning to I.S. 3217:2023 (see Annex C4),
- Confirmation of handover (see Annex C5),
- Confirmation of annual inspection and testing (see Annex C6),

- Report for inspection, testing and servicing (see Annex C7),
- Report following annual inspection and testing (see Annex C8).

Competency:

competent person

“person having regard to the task he or she is required to perform and taking account of the size or hazards (or both of them) of the undertaking or establishment in which he or she undertakes work, possessing sufficient training, experience and knowledge appropriate to the nature of the work to be undertaken

[SOURCE: Safety, Health and Welfare at Work Act 2005]

~~**Removed** . A chartered engineer ... and holds a qualification in emergency lighting design at leosat level 6 Award 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

Design- Confirmation Doc.

- For new systems or modifications:
 - Confirm compliance with 3217
 - List Justified Variations

I.S. 3217:2023 V4.00
I.S. 3217:2023

Annex C2
(normative)

Emergency lighting system - Confirmation of design to I.S. 3217:2023

Document number:

New system: Modification, extension, or alteration to existing system: (tick appropriate box)

Name of building owner and/or occupier:

Address of building:

Description of works:

Issuing organisation details:

Design documentation:

Justifiable variations from I.S. 3217:2023: No Yes (listed as attached)

Areas excluded from this document: No Yes (listed as attached)

I/We hereby confirm that the emergency lighting system at the above building as set out in the listed design documentation has been designed by me/us in conformance with the requirements of I.S. 3217:2023, except as stated in the attached justifiable variations or areas excluded (if any).

Comment:

.....

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

Name: Position:

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

For and on behalf of (organisation):

Installer- Confirmation Doc.

- For new system
 - Confirm compliance with IS3217
 - List as installed drawings and

comsec
protection systems

Comsec Protection Systems Ltd
Unit 26 Stadium Business Park
Ballycoolin Road
Dublin 11, D11 FY81
Email: info@comsec.ie
Tel: 018853008

I.S. 3217:2023 V4.00
I.S. 3217:2023

Annex C3
(normative)

Emergency lighting system – Confirmation of installation to I.S. 3217:2023

Document number: 14603

New System: Modification, Extension or alteration to existing system:

Name of building owner and/or occupier: ez Management Ltd

Address of Building: ez Management Ltd, Blacklion Enterprise Centre, Balisco Road, Tullam, Enniskillen, County Cavan

Description of works:

Issuing organisation details: Comsec Protection Systems Ltd

Design documentation:

Areas excluded from this document: No Yes (listed as attached)


I/We hereby confirm that the emergency lighting system at the above building and as set out in the listed documentation has been installed by me/us in conformance with the requirements of I.S. 3217:2023, except as stated in the attached areas excluded (if any).

As-installed drawing(s):

Comment:

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

Name: Test Position: Technician
Signed: Date: 08/08/2024



For and on behalf of (organisation): Comsec Protection Systems Ltd

Commissioning - Confirmation Doc.

- For new systems or modifications
 - Confirm compliance with IS3217
 - List excluded areas. (e.g. Limited to new extension.)
 - List Justified Variations

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Comsec Protection Systems Ltd
Unit 26 Stadium Business Park
Ballycoolin Road
Dublin 11, D11 FY81
Email: info@comsec.ie
Tel: 018853008

I.S. 3217:2023 V4.00
I.S. 3217:2023

Annex C4
(normative)

Emergency lighting system - Confirmation of commissioning to I.S. 3217:2023

Document number: 14603

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

Name of building owner and/or occupier: ~~Comsec Protection Systems Ltd~~

Address of building: ~~Unit 26 Stadium Business Park, Ballycoolin Road, Dublin 11, D11 FY81~~

Description of Works:

Issuing organisation details: Comsec Protection Systems Ltd

Design documentation:

Justifiable variations from I.S. 3217:2023: No Yes (listed as attached)


Areas excluded from this document: No Yes (listed as attached)

I/We hereby confirm that the emergency lighting system at the above building and as set out in the listed documentation has been commissioned by me/us and is in conformance with the requirements of I.S. 3217:2023, except as stated in the attached justifiable variations or areas excluded (if any).

Comment:

Details and signature of competent person responsible for the commissioning of the system:

Name: Test Position: Technician
Signed: Date: 08/08/2024



For and behalf of (organisation): Comsec Protection Systems Ltd

Handover - Confirmation Doc.

- Signed by owner occupier to confirm receipt of documentation
- No longer required to confirm they have been informed about user responsibilities. User responsibilities are no longer defined in 3217.
- ~~IS3217 A12017 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.”~~

Annex C5
(normative)

Emergency lighting system - Confirmation of handover

Document number:

New system: Modification, extension, or alteration to existing system: (tick appropriate box)

Name of building owner and/or occupier:

Address of building:

Extent of system covered by this document:
.....
.....

Issuing organisation details:

The following information has been received by the owner/occupier	Y/N	Initials
Confirmation of design		
Confirmation of installation		
Confirmation of commissioning		
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 10.1)		

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.

Comment:

.....

Name: Position:

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

For and on behalf of (owner/ occupier):

Handover contd.

- *TGD B Vol 1 2024 0.9
Requirement to Provide
User Information*

*Regulation B12
requires that the
building owner is
provided with
information, so that
the building can be
operated in a way that
protects the health
and safety of its
occupants.*

- This provision includes
maintenance requirements of
emergency lighting system



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 person(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.



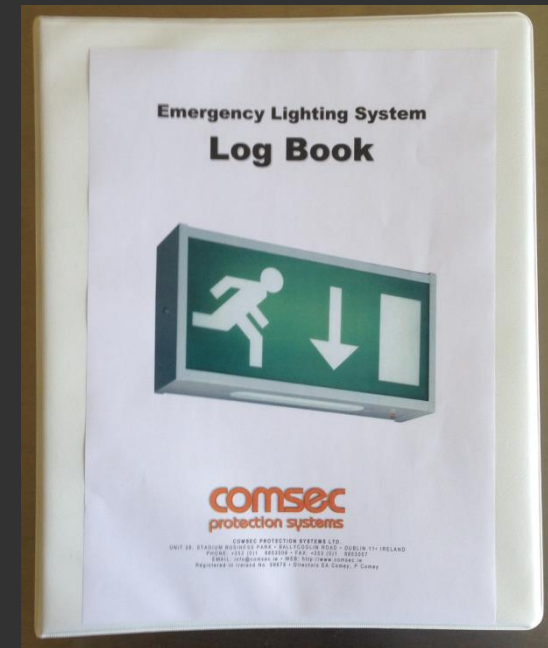
Inspection and Test Frequency:

- 2023 Standard
 - daily, (CBS Only)
 - monthly,
 - three monthly
 - and annually



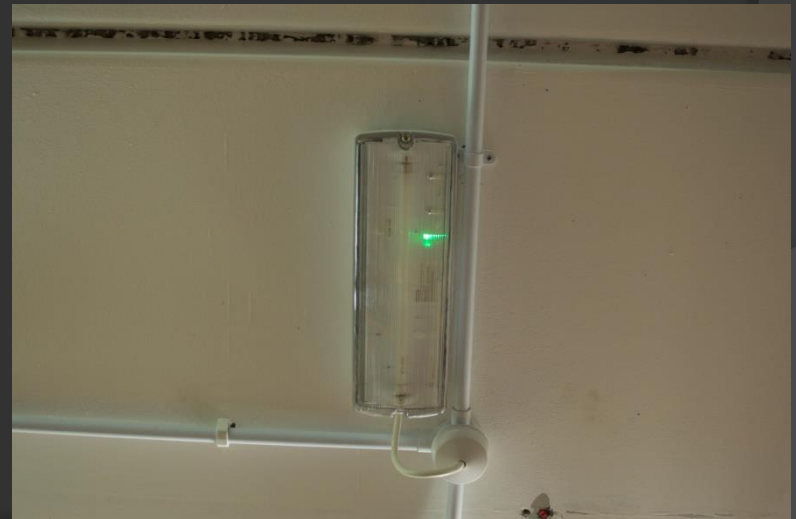
Daily- inspection

- Visual Inspection of Central Battery System Indicators only.



Monthly – inspection

- ◉ Weekly 25% inspection is gone.
- ◉ At least once per month Visually check all maintained (or combined) luminaries
- ◉ Check charge LED on self-contained fittings.
- ◉ Check LED Stand-Alone Automatic Test Systems (ATS) (*Type S*)
- ◉ Check Display on Remote controlled ATS systems.



Three-monthly (Quarterly) - Report

- Carried out 4 times a year. Every 3 months (+/- 30 days)
- On Standalone System:
 - Simulate Power Failure (30 minutes for 3h system / 10min. for 1h 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 11.4

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Comsec Protection Systems Ltd
Unit 26 Stadium Business Park
Ballycoolin Road
Dublin 11, D11 FY81

Annex C7
(normative)
Emergency lighting system - Report for inspection, testing and servicing

Document number: 59795
Name of building owner and/or occupier: [REDACTED]
Address of building: [REDACTED]
Description of works: [REDACTED]
As-installed drawing(s): [REDACTED]

I/We hereby confirm that in conformance with the requirements of 11.4 of I.S. 3217:2023, the emergency lighting system as detailed above has been inspected, tested, and serviced by me/us, that all relevant details have been recorded in the logbook, and that the schedule for periodic inspections and tests due dates has been updated.
Comments: Bg Mmm
Details and signature of competent person responsible for the report for inspection, testing and servicing:

PASS

Name:(Print) [REDACTED] Position: Technician
Signed: [Signature] Date: 17/11/2023

For and on behalf of (organisation): Comsec Protection Systems Ltd

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:	
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.	

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 / Confirmation of Compliance

- Annual Confirmation of Compliance issued if no defects found..
- 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).

I.S. 3217:2023 V4.00
I.S. 3217:2023

Annex C6
(normative)

Emergency lighting system - Confirmation of annual inspection and testing

Document number:

Applicable standard(s) to which the emergency lighting system was installed: [tick appropriate box(s)]

I.S. 3217:1989 I.S. 3217:2008 I.S. 3217:2013 I.S. 3217:2013+A1:2017
I.S. 3217:2023 Unknown

Is confirmation of commissioning available: Yes No [tick appropriate box]

Name of building owner and/or occupier:

Address of building:

Description of works:

As-installed drawing(s):

System type: Self-contained CPS System ATS [tick appropriate box(s)]

Comments on system type:

I/We hereby confirm that the emergency lighting system as detailed above has been inspected and tested by me/us in conformance with the requirements of 11.5.2 of I.S. 3217:2023.

Comments:
.....
.....

Details and signature of competent person responsible for the annual inspection and testing:

Name: Position:

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

For and on behalf of (organisation):

Annual Report

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

I.S. 3217:2023

**Annex C8
(normative)**

Emergency lighting system - Report following annual inspection and testing

Applicable standard to which the emergency lighting system was installed [tick appropriate box(s)]:
 I.S. 3217:1989 I.S. 3217:2008 I.S. 3217:2013 I.S. 3217:2013 I.S. 3217:2023
 +A1:2017

Unknown

Name of building owner and/or occupier:

Address of building:

As-installed drawing(s):

Reasons for withholding confirmation of annual inspection and testing	Annex D, I.S. 3217:2023	
	Item	
Details of other deviations/deficiencies/faults found during annual inspection and testing	Clause(s) reference of applicable standard(s)	
% of installed fittings that function for the full duration	Luminaires %	Signs %

I/We hereby confirm that the emergency lighting system as detailed above has been inspected and tested by me/us in accordance with the requirements of 11.5 of I.S. 3217:2023, and that all relevant details relating to deviations, deficiencies, or faults, have been recorded in the logbook, and that the schedule for periodic inspections and tests due dates has been updated.

Comments:

Name: Position:

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

For and on behalf of (organisation):

Annual Test Annex D.

Table 5 — Requirements for confirmation of annual inspection and testing

ITEM	REQUIREMENT	Required by the relevant edition of I.S. 3217		
		1989	2008	Since 2013
A	Mode of operation for emergency exit signs is maintained ^a	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
F	The following points of emphasis have an emergency luminaire(s)			
	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) each fire alarm panel	N/A	N/A	Yes
	6) firefighting equipment	Yes	Yes	Yes
	7) each emergency exit door	Yes	Yes	Yes
	8.1) Outside each final exit and outside the building to a place of safety	N/A	N/A	Yes
	8.2) Outside each final exit and close to it ^b	Yes	Yes	N/A
	9) emergency exit and safety signs required	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 persons with disabilities	N/A	Yes	Yes
G	The following locations have emergency escape lighting provided			
	1) Lift cars	Yes	Yes	Yes

Annual Test Annex D.

ITEM	REQUIREMENT	Required by the relevant edition of I.S. 3217		
		1989	2008	Since 2013
	2) Moving stairways and walkways	Yes	Yes	Yes
	3) Toilets and toilet lobbies	Yes	Yes	Yes
	4) Accessible toilets	Yes	Yes	Yes
	5) Refuges	N/A	Yes	Yes
	6) Motor generator, control, switch and plant rooms	Yes	Yes	Yes
	7) Covered car parks (pedestrian escape routes)	Yes	Yes	Yes
	8) Defined escape routes	Yes	Yes	Yes
	9) Open areas greater than 60 m ²	N/A	Yes	Yes
	10) High risk task areas ^c	N/A	Yes	Yes
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 ^d	Yes	Yes	Yes
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.	Yes	Yes	Yes

^a I.S.3217:1989 - refer to Annexes F, F2, F3, F4, -6 and F8.2, of I.S. 3217:1989 for exceptions.

^b I.S. 3217:1989 - may rely on local authority lighting if adequate.

^c Where it is not possible to determine if an area is a high risk task area, this should be noted on the confirmation document or report as appropriate.

^d The person(s) carrying out the annual inspection & testing shall ensure that suitable measures and precautions are taken to safeguard the building occupants.

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