

Our Ref : APPBCA-2021-09

Building Plan & Management Group

Date : 1 June 2021

See Distribution List

Dear Sir/Madam

AMENDMENT NO. 1 TO SINGAPORE STANDARD SS 555:2018 – CODE OF PRACTICE FOR PROTECTION AGAINST LIGHTNING

Objective

1. This circular informs the industry of Amendment No. 1 (“**Amendment No. 1**”) to Singapore Standard SS 555:2018 – Code of Practice for Protection against Lightning (“**Code**”), which will take effect from **1 December 2021**.
2. In December 2020, Enterprise Singapore published Amendment No. 1 to the Code. Project parties who submit plans for building works under Part II of the Building Control Act (Cap. 29) (“**Act**”) on or after **1 December 2021** must comply with the relevant requirements in Amendment No. 1, so as to meet the objective and performance requirement in Section L of the Fifth Schedule of the Building Control Regulations 2003 (“**Regulations**”).

Amendment No. 1

3. Under Amendment No. 1, 5 amendments have been made to the Code, as summarised in Appendix A. The amendments have been made to address industry’s feedback pertaining to local practices in respect of lightning protection.

4. As a general reminder, the Professional Engineer (Electrical) appointed to design and/or supervise building works in respect of lightning protection system(s) in a project is reminded to conduct regular site inspections of the building works to ensure that the Act, Regulations, Amendment No. 1 and the Code are complied with.

Clarification

5. We would appreciate if you could convey the contents of this circular to members of your organisations.
6. For clarification, please submit your enquiry through BCA's Online Feedback Form at <https://www.bca.gov.sg/feedbackform/> or call us at 1800 342 5222.

Yours faithfully



JANE ONG
DIRECTOR
BUILDING PLAN AND POLICY DEPARTMENT
BUILDING PLAN AND MANAGEMENT GROUP
for COMMISSIONER OF BUILDING CONTROL

Appendix A

Singapore Standard SS 555 : Part 3 : 2018

Protection against lightning
– Part 3 : Physical damage to structures and life hazard

AMENDMENT NO. 1

December 2020

1. Page 22, 5.2.2

Replace the Paragraph 1 with:

Air-termination components installed on a structure shall be located not more than 100 mm from the corners, exposed points and edges (especially on the upper level of any facades and parapet wall) in accordance with one or more of the following methods.

2. Page 25, 5.2.5

Replace NOTE 2 with:

NOTE 2 – A 1 mm coating of protective paint or 1 mm asphalt or 0.5 mm PVC is not regarded as an insulator. Detailed information is given in E.5.3.4.1 and E.5.3.4.2.

3. Page 40, 8.1

Add the following item after bullet 2 in Paragraph 3:

– for small structures such as trellis, gazebo, pergola, bus stop, training shade and the likes at ground level shall be adopted in accordance with ZB.9.1.

4. Page 40, 8.2

Add the following new note after bullet 2 in Paragraph 3:

NOTE Bonding by lashing for mesh earth-termination system and structural floor slabs are acceptable means of equipotentialization to reduce step voltage to a tolerable level.

5. Page 132, E.5.4.3.6

Replace text of Paragraph 6 with:

The lower part of an exposed down-conductor should be insulated with tubing giving a 100 kV, 1,2/50 μ s impulse withstand voltage.

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