

27 Dec 2022

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For enquiries, please contact:

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## **SUBMISSION OF CIVIL DEFENCE SHELTER PLANS TOGETHER WITH BUILDING PLANS AND STRUCTURAL PLANS- AMENDED IMPLEMENTATION DATE**

We refer to the circular (APPBCA-2022-07) issued on 01 Jun 2022 where the submission process for CD shelter plans will be revised to have the relevant aspects of CD shelter plans (shown in Annex A) submitted together with BP and ST plans. To recap, with the integration of plans there will not be a separate CD shelter plan submission as it will be subsumed under the BP and ST plans.

### **Amended Implementation Date**

2 Having received feedback from industry that more time is required for adapting to the revised submission process, we will lengthen the period for industry to prepare for implementation by 3 months. Hence, the combined plan submission process will take effect on **01 Apr 2023** instead and shall apply to all projects for which the first set of plans is submitted to the Commissioner of Building Control for approval on or after 01 Apr 2023.

3 Should you need any clarification, please contact either Mr. Ong Teck Soon (Tel. 68044425, email: [ong\\_teck\\_soon@bca.gov.sg](mailto:ong_teck_soon@bca.gov.sg)) or Er. Michael Sien (Tel. 68044427, email: [michael\\_sien@bca.gov.sg](mailto:michael_sien@bca.gov.sg)). To help the industry in this transition, BCA has prepared a list of Frequently Asked Questions and self-help checklists - please refer to QR code below.

Thank you.

Yours faithfully

A handwritten signature in black ink, consisting of a series of fluid, connected strokes that form a stylized representation of the name K Thanabal.

K THANABAL  
GROUP DIRECTOR, BUILDING RESILIENCE  
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FAQs and Checklists

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## **ANNEX A**

### **Drawings to be included in each submission**

#### **Building Plan**

For HS & SS drawings in the Building Plan submission, do note the following drawings are to be submitted:-

- a) Site and location plans showing the locations of HS/ SS and the setback distances (and shielding requirements), HS/ SS wall thicknesses. Locations and details of shielding wall (structural and non-structural walls) shall be included.
- b) Building layout plans with sections & elevations
- c) Layout and sizes of transfer structures (if any) including their direct supporting columns and walls
- d) Computation of the HS/ SS required area and volume, in accordance to the HS/ SS technical references.
- e) Architectural elevations and sections showing the HS/ SS locations and the HS/ SS installation fixtures, e.g. blast doors, ventilation sleeves, lighting and electrical fixtures. For SS, locations of blast rescue hatches and cat ladders shall be shown clearly.
- f) Waiver submission letters and drawings, and decision letter from SCDF (if applicable)

#### **Structural Plan**

For HS & SS submission, drawings and calculations are to be submitted. For HS & SS drawings in the Structural Plan submission, do note the following drawings are to be submitted:-

- a) Structural general arrangements, showing the locations of HS/ SS.
- b) Structural elevations and sections, showing the steel reinforcement detailing of the HS/ SS walls and curtailment around HS/ SS installation fixtures, e.g. blast doors, ventilation sleeves. Concrete grade, steel reinforcement grade and lapping/ anchorage lengths shall be indicated clearly.
- c) Structural general arrangements, elevations and sections shall be developed based on the Architectural set where the setback distances (and shielding requirements) and HS/ SS wall thicknesses are derived. Locations and details of shielding wall (structural and non-structural walls) shall be included.
- d) Details of transfer beam or slab (if applicable)
- e) Footing plans (if footing is integrated with HS / SS slab)
- f) Details of transfer beam or slab (if applicable)
- g) Design calculations comparing moment and shear capacity between cast in-situ HS & precast hollow core HS/SS
- h) Design calculation showing adequacy of shock design provision for cat ladders in SS or handrails on Staircase shelters (if applicable).