

27 Dec 2022

See **Distribution**

For enquiries, please contact:  
Building Resilience Group (#10-01)  
Tel: 1800 3425 222 (1800-DIAL-BCA)  
or use our Online Feedback Form at:  
<https://www.bca.gov.sg/feedbackform/>

## **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 several fluid, connected strokes that form a stylized representation of the name K Thanabal.

K THANABAL  
GROUP DIRECTOR, BUILDING RESILIENCE  
BUILDING AND CONSTRUCTION AUTHORITY



FAQs and Checklists

**DISTRIBUTION (via e-mail):**

PRESIDENT  
INSTITUTION OF ENGINEERS, SINGAPORE (IES)  
70, BUKIT TINGGI ROAD  
SINGAPORE 289758

PRESIDENT  
ASSOCIATION OF CONSULTING ENGINEERS, SINGAPORE (ACES)  
18 SIN MING LANE  
#06-01 MIDVIEW CITY  
SINGAPORE 573960

PRESIDENT  
SINGAPORE CONTRACTORS ASSOCIATION LIMITED (SCAL)  
CONSTRUCTION HOUSE  
1 BUKIT MERAH LANE 2  
SINGAPORE 159760

PRESIDENT  
SINGAPORE INSTITUTE OF ARCHITECTS (SIA)  
79 NEIL ROAD  
SINGAPORE 088904

PRESIDENT  
SOCIETY OF PROJECT MANAGERS (SPM)  
200 Braddell Road, BCA Academy, Block H, Level 2  
SINGAPORE 579700

PRESIDENT  
SINGAPORE INSTITUTE OF BUILDING LIMITED (SIBL)  
20 Maxwell Road,  
#08-06 Maxwell House  
Singapore 069113

PRESIDENT  
REAL ESTATE DEVELOPERS' ASSOCIATION OF SINGAPORE (REDAS)  
190 CLEMENCEAU AVENUE  
#07-01 SINGAPORE SHOPPING CENTRE  
SINGAPORE 239924

PRESIDENT  
SINGAPORE INSTITUTE OF SURVEYORS & VALUERS (SISV)  
110 MIDDLE ROAD #09-00  
CHIAT HONG BUILDING  
SINGAPORE 188968

PRESIDENT  
SINGAPORE STRUCTURAL STEEL SOCIETY (SSSS)  
1 LIANG SEAH STREET  
#02-11/12 LIANG SEAH PLACE  
SINGAPORE 189022

PRESIDENT  
GEOTECHNICAL SOCIETY OF SINGAPORE (GEOSS)  
C/O GLOBEWERKS INTERNATIONAL PTE LTD  
22 SIN MING LANE  
#03-85 MIDVIEW CITY  
SINGAPORE 573969

PRESIDENT  
PROFESSIONAL ENGINEERS BOARD, SINGAPORE (PEB)  
52 JURONG GATEWAY ROAD, #07-03  
SINGAPORE 608550

PRESIDENT  
BOARD OF ARCHITECTS (BOA)  
5 MAXWELL ROAD  
1ST STOREY TOWER BLOCK  
MND COMPLEX  
SINGAPORE 069110

DIRECTOR OF INFRASTRUCTURE  
SCHOOL CAMPUS DEPARTMENT  
MINISTRY OF EDUCATION  
1 NORTH BUONA VISTA DRIVE  
SINGAPORE 138675

DIRECTOR  
BEST SOURCING DEPARTMENT  
PUBLIC UTILITIES BOARD  
40 SCOTTS ROAD #18-01  
ENVIRONMENT BUILDING  
SINGAPORE 228231

DEPUTY CHIEF EXECUTIVE  
INFRASTRUCTURE & DEVELOPMENT  
LAND TRANSPORT AUTHORITY  
1 HAMPSHIRE ROAD  
BLOCK 8 LEVEL 1  
SINGAPORE 219428

DEPUTY DIRECTOR  
PROJECT DEVT & MGT SECT 1 (C&S)  
BUILDING QUALITY GROUP  
HOUSING & DEVELOPMENT BOARD  
HDB HUB  
480 LORONG 6 TOA PAYOH  
SINGAPORE 310480

DIRECTOR  
TECHNICAL SERVICES DIVISION  
JTC CORPORATION  
THE JTC SUMMIT  
8 JURONG TOWN HALL ROAD  
SINGAPORE 609434

DIRECTOR  
BUILDING  
PEOPLE'S ASSOCIATION  
9 STADIUM LINK  
SINGAPORE 397750

PRESIDENT  
THE TUNNELLING AND UNDERGROUND  
CONSTRUCTION SOCIETY SINGAPORE (TUCSS)  
C/O CMA INTERNATIONAL CONSULTANTS PTE LTD  
1 LIANG SEAH STREET

#02-12 LIANG SEAH PLACE  
SINGAPORE 189022

PRESIDENT  
SOCIETY OF ROCK MECHANICS AND ENGINEERING GEOLOGY  
1 LIANG SEAH STREET  
#02-12 LIANG SEAH PLACE  
SINGAPORE 189022

DEPUTY CHIEF EXECUTIVE OFFICER  
SENTOSA DEVELOPMENT CORPORATION  
33 ALLANBROOKE ROAD, SENTOSA  
SINGAPORE 099981

HEAD (FIRE SAFETY AND BUILDING CONTROL)  
BUILDING AND INFRASTRUCTURE  
DEFENCE SCIENCE & TECHNOLOGY AGENCY  
1 DEPOT ROAD  
DEFENCE TECHNOLOGY TOWER A  
SINGAPORE 109679

DIRECTOR  
BUILDING AND INFRASTRUCTURE  
DEFENCE SCIENCE & TECHNOLOGY AGENCY  
1 DEPOT ROAD  
DEFENCE TECHNOLOGY TOWER A  
SINGAPORE 109679

PRESIDENT  
Singapore Green Building Council (SGBC)  
200 Braddell Road  
Block H, Level 2 BCA Braddell Campus  
Singapore 579700

PRESIDENT  
Specialists Trade Alliance of Singapore (STAS)  
23 Genting Road  
#07-01 Chevalier House  
Singapore 349481

PRESIDENT  
Singapore International Facility Management Association (SIFMA)  
Blk 201 Kim Tian Road #03-400  
Singapore 160201

PRESIDENT  
Association of Property and Facility Managers (APFM)  
110 Middle Road  
#09-00 Chiat Hong Building  
Singapore 188968

ALL CORENET E-INFO SUBSCRIBERS

## **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).