Your Ref :  
Our Ref: CD/FSSD/12/02/03/01

Date : 1st February 2017

Registrar, Board of Architects  
Registrar, Professional Engineers Board  
President, Singapore Institute of Architects  
President, Institution of Engineers, Singapore  
President, Association of Consulting Engineers, Singapore

Dear Sir/Mdm

ADDENDUM TO CLAUSE 4.2 (B) OF TECHNICAL REQUIREMENTS FOR STOREY SHELTER 2015

SCDF has recently received several waiver applications for the clear distances measured from the ventilation sleeve (VS) openings to the internal structural elements protruding inside the Storey Shelter (SS). Typically, for a normal staircase SS design, such protruding elements e.g. corbel of staircase, staircase waist, etc. would have at least 1000mm clearance from the SS wall where the VS openings are located. However, in some non-typical staircase designs due to the direction and/ or length of the staircase flight at certain floor(s), the protruding elements may come close to the VS openings; hence obstructing the use of the VS openings inside the SS. The purpose of the VS openings is for the installation of a gas filtration unit in a National Emergency.

2. To facilitate the installation of a gas filtration unit, in addition to the existing requirement in clause 4.2 (b), there shall be a minimum unobstructed distance of 700mm from the face of the VS openings to the nearest face of any other internal structural elements, e.g. any protruding parts of a staircase. As such, Clause 4.2 (b) of the TR for SS 2015 is to be amended as shown in Annex A.

3. This circular shall take effect from 1st March 2017.
4. Please convey the contents of this circular to members of your Institution/Association/Board. The circular is also available in CORENET-e-Info: http://www.corenet.gov.sg/einfo. For any inquiry or clarification, please contact the undersigned at 6848 1478.

Yours faithfully,

(transmitted via e-mail)

MAJ Andy Tan
Fire Safety & Shelter Department
for Commissioner
Singapore Civil Defence Force

cc

CEO, BCA
CEO, URA
CEO, HDB
President, IFE
President, SISV
SCDF Fire Safety Standing Committee
Fire Code Review Committee
Shelter Codes Review Committee
Annex A

Addendum to Clause 4.2 (b) of TR SS 2015

<table>
<thead>
<tr>
<th>Existing Clause</th>
<th>Revised Clause</th>
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<tr>
<td>4.2 (b) The ventilation sleeve opening shall be positioned such that there is sufficient clearance from any structural elements and services. The center of the ventilation sleeve opening to the soffit of ceiling slab and the nearest face of the internal SS walls shall be at least 350mm.</td>
<td>4.2 (b) The ventilation sleeve opening shall be positioned such that there is sufficient clearance from any structural elements and services. The center of the ventilation sleeve opening to the soffit of SS ceiling slab and the nearest surface of the internal SS wall shall be at least 350mm. In addition, there shall be a minimum unobstructed distance of at least 700mm from the face of the VS openings to the nearest face of any other internal structural elements within the SS, e.g. any protruding parts of a staircase. (Refer to Figures 1 and 2 in Annex A-2 and A-3 of this circular).</td>
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Annex A

Figure 1. Unobstructed clear distance to any structural elements within the SS (Elevation View)
Figure 2. Unobstructed clear distance to any structural elements within the SS (Plan View)