

**Fire Safety Standards Advisory Group (FSSAG)**  
**Matter Discussed in the 66<sup>th</sup> Meeting held on 7 September 2021**

**1. *Implementation of BS 5839: 2017 “Fire Detection and Fire Alarm Systems for Buildings – Part 1: Code of Practice for Design, Installation, Commissioning and Maintenance of Systems in Non-domestic Premises”***

Subsequent to the endorsement of the Technical Guidance (TG) for BS 5839-1:2017 as well as the revised Testing and Commissioning Checklist, the relevant FSD Circular Letter 6/2021: “Standard for Fire Detection and Fire Alarm Systems for Buildings” was issued on 11 June 2021. The implementation date of the FSD Circular Letter 6/2021 would be 1 January 2022 which meant that the standards with local modification would be applicable for initial submission of building plans received by FSD on or after 1 January 2022.

In view that the relevant FSD Circular Letter 6/2021 had been issued and would take effect on 1 January 2022, the meeting agreed to shelve this item in the next meeting.

**2. *Automatic Operated Total Flooding Systems complying with NFPA Standard 2001***

The proposed local application of clean agent fire extinguishing systems to NFPA 2001:2018 was raised in the Liaison Meeting between FSD & Authorized Persons on 29 July 2021 and the Liaison Meeting between FSD and FSICA on 12 August 2021, with no adverse comments received so far. The draft declaration form (the form) signed by system owner(s) / occupier(s) for verifying maintenance of the related enclosure integrity was prepared by FSICA.

As members had different views on the content of the declaration form in the meeting, members should forward their views to FSD, through the secretary of the meeting. FSD would then consider the comment and consolidate/fine tune the form for the secretary to circulate the revised form to members for final comment. [Post-meeting Note: The revised form was forwarded to all FSSAG members for final comment on 15 October 2021.]

The issue would also be brought up for discussion at the Property Management Association Liaison Meeting and the High Level Liaison Meeting with HD. If everything was fine, a FSD Circular Letter in this regard would be issued with a view to putting the practice on trial for a period to see whether its implementation was effective.

3. ***Inspection, Maintenance, Modification and Repair of Fire Service Installations and Equipment with Moving Parts***

The AI checklist for water supplies was promulgated via FSD Circular Letter No. 7/2021 on 12 August 2021. To allow more time for the trade to acquaint themselves with the new arrangement and practice, the AI checklist for water supplies would take effect on 1 November 2021. Meanwhile, the AI checklist for FH/HR system and Supplies Tank were under review and comments from FSICA had been received and incorporated. Revised version would be issued in Q4, 2021. FSD took the opportunity to thank all parties concerned for their comments/contribution on the AI checklist for FH/HR system and Supplies Tank.

4. ***FSI Provisions for Car Parking Facilities with Automated Parking System (APS)***

Comment on the Information Paper from Buildings Department (BD) was still pending. Since BD expressed that they need more time to study the proposals, the meeting agree to shelf this item until there was further development to report.

5. ***Demarcation and Extent of Fire Resisting Cables for FSI and interfacing with other Building Services Installations***

The cables requirements for FSI systems including VAC control had been discussed and agreed in the last meeting and no more issues related to this topic would be discussed, the meeting agree to delete this item in the next meeting.

6. ***Spacing of Smoke Detectors (Actuation Devices) and Cross Zone Arrangement for Gas Flooding System***

Cross zone arrangement for gas flooding system had been discussed thoroughly in the last meeting. The typo observed in last meeting had been corrected and as shown in Appendix V for reference. As no more enquires had been received from members, the corrected Appendix V was agreed by the meeting.

Since no further discussion was required on the issue, the meeting agreed to delete this item in the next meeting.

7. ***FSICA's views and clarifications on PRV By-pass provisions as per FSD Circular Letter No. 9/2020***

Since FSICA's views had been clarified in the last meeting and no further comments had been received, the meeting agreed to delete this item in the next meeting.

**8. *Promotion of Wider Use of Standalone Fire Detectors (SFDs)***

The legislative amendments to the relevant provisions of the Fire Service (Installations and Equipment) Regulations, Cap. 95B had been completed on 18 August 2021 and took effect on 1 September 2021. As a result of the amendments, the public was no longer required to engage registered contractors for the installation, inspection, repair and maintenance of stand-alone fire detectors (SFDs).

To cope with the legislative amendments, the FSD had embarked on the promotion on the voluntary use of SFDs including the publication of guidelines/leaflets and production of videos on the selection of appropriate stand-alone fire detectors which met established international/national standards. In these guidelines and videos, FSD would also advise on the tips and procedures for maintaining the effectiveness of the SFDs by the owners themselves.

Besides, the FSD had held a press conference on 26 August 2021 for announcing the legislative amendments and introducing the SFDs to the public for promoting a wider-use. The feedback was very supportive. Also, the use of SFDs was promoted in a series of TV programmes in September 2021.

The FSD had also planned to launch a pilot scheme in selected districts under which volunteer teams would reach out to persons in need, such as the elderly living alone and ethnic minorities, and help them install SFDs through paying home fire safety visits.

FSD thanked all parties concerned for their support in making the issue a success. Since the legislative amendments had been completed, the meeting agreed to delete this item in the next meeting.

**9. *FSD CoP for Minimum Fire Services Installations and Equipment, 2012 –5.10 Exit Sign***

As explained in the last meeting and clearly described in FS Cop Clause 5.10, the power supply for Exit Sign should be connected to Emergency Generator if the building was equipped with an emergency generator in order to provide the reliable emergency lighting to means of escape in case of fire.

As no further comment on the issue had been received, the meeting agreed to delete this item in the next meeting.

**10. Requirement for Staircase Pressurization System with Notices/Indicating Lamps**

The draft FSD Circular Letter for staircase pressurization system with Notices/Indicating lamps had been prepared and would be issued soon. The main requirement was the installation of the indicating lamp representing the operation status of supply fan.

As all members had shown support to the additional requirement for staircase pressurization system and no further discussion on the issue was required, a relevant FSD Circular Letter would be issued accordingly.

**11. Zoning Arrangement for Sprinkler Installation in Staircases of Domestic Floors (Appendix III) (SFPE- HK Chapter)**

With reference to Appendix III, Representative of SFPD-HK Chapter briefed members on the background of the issue.

The design intended for Clause 4.16(ii) of FSD CoP was to prevent the fire from spreading from the non-domestic provision to domestic portion. The design requirements, such as hazard level, installation details for those extended areas should follow the same requirement as non-domestic areas, regardless whether or not sprinklers were provided in domestic portion.

Since hazard level for domestic portion even with open kitchen was normally lower than that for non-domestic portion, therefore, design option A was considered acceptable.

**12. Zoning Arrangement for Sprinkler Installation in Staircases of Domestic Floors (Appendix III) (SFPE- HK Chapter)**

With reference to Appendix IV, representative of FSICA presented to members the conceptual proposals suggested by FSICA regarding system design provisions for testing intermediate booster pump set.

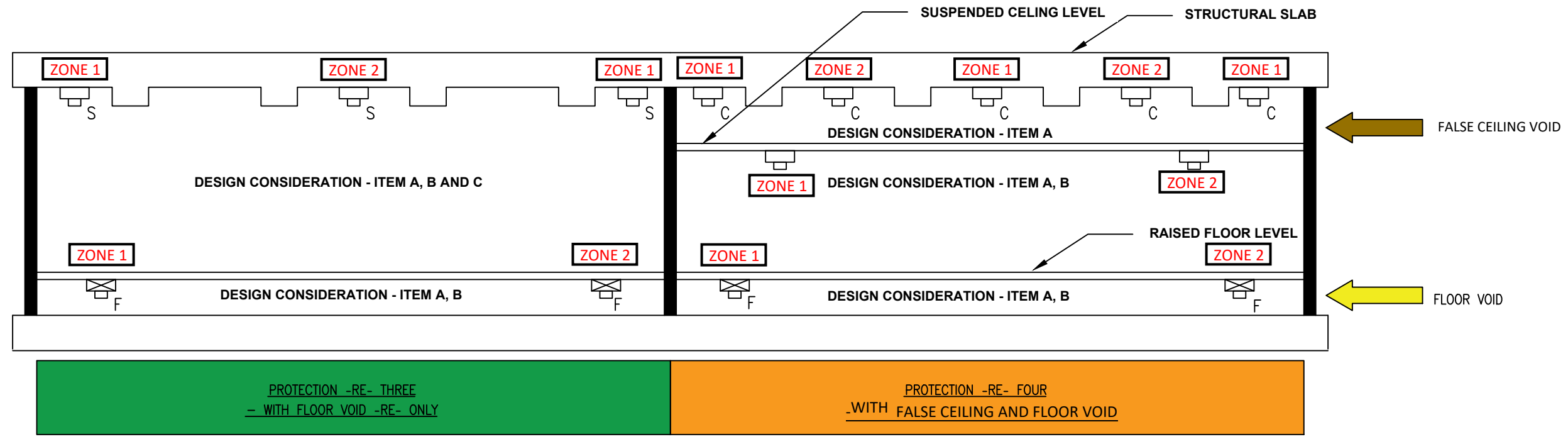
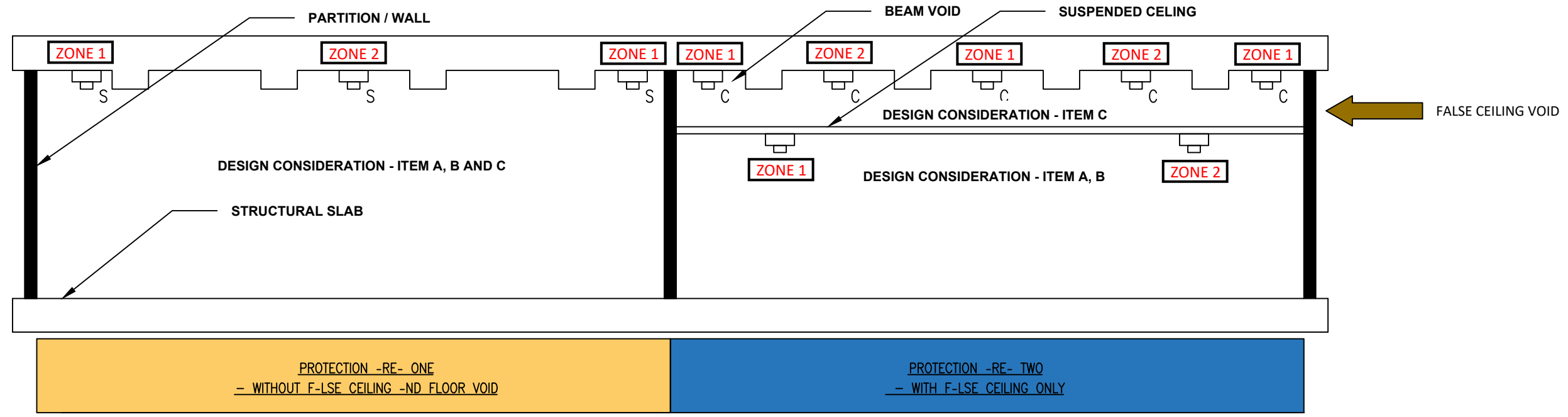
FSI systems should conform with the relevant requirement. In general, any testing arrangement should not affect the conformance of the operational and performance requirement of the FSI systems. Also, during servicing or testing for maintenance, disruption to the normal operation of the FSI caused by its shutdown should be kept to

the minimum. Under the proposals on Case I, Case II, Case III & Case V, **section(s) of pipes and related valves**, monitoring devices etc. had to be fixed and connected to the system, in addition to modification to the FS system and/or sprinkler installation. For existing FSI system, the proposals involved alternation and addition work. As such, agreement between FSI owner and RFSIC should be reached and consent / approval from relevant authorities, such as WSD, should be required before carrying out such works. In addition, other considerations should be given to spatial availability/feasibility for such alternation, building structural issues (e.g. pipes travelling across various floors/compartments), water supply issues and monetary issues for the work, etc.





Due to technicalities and complexities of the proposals and the number of interested parties involved, not to mention that the schematic diagrams might not be able to totally reflect the true picture of all the problems encountered, FSICA might conduct a sample study based on a real and simple case for further discussion.

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DESIGN CONSIDERATION FOR CROSS ZONE SMOKE DETECTORS ARRANGEMENT (serving as automatic actuating devices) FOR GAS EXTINGUISHING SYSTEM



LEGEND

-  SMOKE DETECTOR INSIDE CEILING VOID
-  SMOKE DETECTOR UNDER FALSE CEILING
-  SMOKE DETECTOR INSIDE FLOOR VOID
-  SMOKE DETECTOR UNDER STRUCTURAL SLAB

DESIGN CONSIDERATION

- A. The siting of smoke detectors should follow Clauses 22.2 and 22.3 of BS 5839-1 and relevant FSD Circular Letter.
- B. Minimum two detectors in each system or space void (either entire suspended ceiling void, room void or floor void.)
- C. The siting of smoke detectors should follow Clause 22.2 of BS 5839-1 and relevant FSD Circular Letter and honeycomb ceiling obstruction should be applied.