

**SINGAPORE CIVIL DEFENCE FORCE
FIRE SAFETY & SHELTER DEPARTMENT
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25 Sep 2007

President, Singapore Institute of Architects (SIA)
President, Institution of Engineers, Singapore (IES)
President, Association of Consulting Engineers, Singapore (ACES)
President, Real Estates Development Association of Singapore (REDAS)
Registrar, Board of Architects (BOA)
Registrar, Professional Engineers Board (PEB)

Dear Sir/Mdm,

**TECHNICAL REQUIREMENTS OF TRANSFER STRUCTURE SUPPORTING
HOUSEHOLD SHELTER (HS) TOWER**

A circular pertaining to the above was issued on 27 May 2003.

2 Recently, we have received feedback from building professionals on the various designs of transfer structure to support the HS tower if it cannot be connected to the foundation and the provision of shielding elements for the transfer structure.

3 A review has been conducted by SCDF and BCA on the above technical requirements for HS, taking into account the transfer structure against different load combinations, partial safety factors for loads to be used, the collapse load, in addition to dead, imposed and any other loads, where applicable. For greater clarity on the technical requirements to be complied with, please note the following conditions in the HS tower design supported by transfer structure:

- a The provision of trellis and use of adjacent building structure will not be considered as shielding element for the transfer structure of HS.
- b Multiple transfers in the same HS tower will not be considered. Only one transfer of HS loads in each tower is allowed.

4 We would appreciate it if you could disseminate the contents of this circular to members of your Institution or Association.



5 Please contact undersigned at 68481470 or Mr. Leonard Ong of BCA at 63258906, should you require further clarifications.

Yours faithfully,

CPT LEE GEOK SENG RAYMOND
SSO SHELTER DEVELOPMENT
FOR COMMISSIONER, SINGAPORE CIVIL DEFENCE FORCE

cc

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