

**SINGAPORE CIVIL DEFENCE FORCE**  
**Fire Safety Bureau**

25A Paterson Road Singapore 238511 Fax no. 8386427  
Website: <http://www.scdf.gov.sg>



Please quote our ref. No in all future correspondences

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FAX: 8386427

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

Dear Sirs

**TESTING OF WET RISING MAIN SYSTEM IN BUILDINGS**

At the FSB Standing Committee meeting held on 13 Nov 2000, a proposal was made to improve the method of testing the flow rate and pressure of wet rising main system in buildings. It was considered that the conventional method of testing, which involves the discharging of water out of the building, had caused inconvenience to passers-by on the road below the building and sometimes caused flooding at upper floors of the building, resulting in the lift mechanism and ceilings being damaged.

2 Two alternatives methods that can be used to conduct the testing of wet rising main system in buildings were deliberated upon and accepted by members of the FSB Standing Committee. They are :

- a) Provide a shunt pipe (with flow meter) to divert the water back to the wet riser tank; or
- b) Provide a shunt pipe (with flow meter) to divert the water to the existing drain pipe of the building. The drain pipe shall have a diameter of minimum 150mm and be open-ended.

3 The schematic drawings for alternatives (1) and (2) showing how testing of wet rising main system can be carried out are given in Annexes A and B respectively. Please note that the flow rate meters as depicted in the drawings are installed on the shunt pipe and the pressure gauges downstream of the pump.

4 Either alternative (1) or (2) method of testing wet rising main system in buildings shall be applicable to fire protection plans submission made to FSB on or after the date of this circular. We would appreciate it if you could convey the contents of this letter and Annexes A and B to members of your Institution/Association/Board. FSB's circulars can also be found in the FSB website: <http://www.scdf.gov.sg>.

5 For further clarification, please contact Maj Choy Marn Koon at Tel 8386470.

Teo Lim Teck  
Secretary  
FSB Standing Committee  
for Commissioner  
Singapore Civil Defence Force

cc  
CEO, BCA  
All members of FSB Standing Committee  
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CEO, JTC  
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CE, PSB (Attn: Mr Tan Chiew Wan/Mr Lau Keong Ong)



