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消防安全總區
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消防總部大廈七樓北翼



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FIRE SAFETY COMMAND
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6 September 2016

To: Recipients of FSD Circular Letters

Dear Sirs/Madams,

FSD Circular Letter No. 2/2016
Improvised Hose Reel System
in Connection with the Enforcement of
the Fire Safety (Buildings) Ordinance (Cap. 572), Laws of Hong Kong

This Circular Letter serves to announce the acceptance of improvised hose reel system with direct water supply from the Government Mains [here-in-after as 'improvised hose reel system (direct-feed type)']. This Circular Letter should be read in conjunction with FSD Circular Letter No. 3/2007.

In accordance with Fire Safety (Buildings) Ordinance (Cap. 572) (here-in-after as 'the Ordinance'), owners of composite buildings (here-in-after as 'target composite buildings') are required to comply with the requirement in the Fire Safety Direction(s) issued by the Fire Services Department (FSD) by providing fire service installations or equipment (FSI). Owing to spatial/structural constraints, some building owners may encounter difficulties in complying with the requirement, inter alia, the installation of water tank for the hose reel system.

For the purpose of facilitating building owners to upgrade the fire safety standard of their buildings, the FSD hitherto has been adopting flexible and pragmatic approaches on imposing fire safety requirements. In this regard, FSD and Water Supplies Department (WSD) have carried out a pilot scheme on adopting improvised hose reel system (direct-feed type) for non-domestic portion of the target composite buildings of 3 storeys or below regulated under the Ordinance. In the design of the aforesaid system, the installations of water tank and fixed fire pumps are not required.

Following the successful trial in July this year, FSD will accept improvised hose reel system (direct-feed type) to be installed at non-domestic portion of target composite buildings of 3 storeys or below regulated under the Ordinance as an alternative of the conventional hose reel system (i.e. the hose reel system with the installation of a supply tank and fixed fire pumps). The authorised consultants and Registered Fire Service Installation Contractors (here-in-after as 'RFSIC') can propose using improvised hose reel system (direct-feed type) for the mentioned non-domestic portion.

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Reference Number and date should be quoted in reference to this letter
凡提及本信時請引述編號及日期

The design and specifications of improvised hose reel system (direct-feed type) are illustrated in *Appendix A*. Particular attention is drawn to the followings:

General Design

- Apart from the specifications as stipulated in the 'Code of Practice for Minimum Fire Service Installations and Equipment (1994 version)' which shall be complied with (except the requirements of the installations of water tank and fixed fire pumps), the installations of a backflow preventer and a flow switch with alarm bell/sounder in the mentioned system are also required.

Backflow Preventer

- The backflow preventer is a water supply fitting which must be approved by the Water Authority prior to the construction of the improvised hose reel system (direct-feed type).
- The installation, maintenance, repair or inspection of the backflow preventer in the improvised hose reel system (direct-feed type) shall conform to WSD's requirements.
- Additionally, the testing and inspection of the backflow preventer shall be carried out in accordance with manufacturer's recommended procedure at the acceptance inspection and annual inspection.

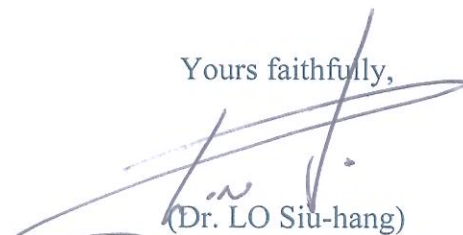
FSI drawing submission

- The following shall be included in the submission of FSI drawing: -
 - the specification of the backflow preventer which may be provided in the form of product catalogue; and
 - the hydraulic calculation for the improvised hose reel system (direct-feed type).

The owner(s) of the FSI is(are) required to keep such FSI in efficient working order at all times and have such FSI inspected by a RFSIC at least once in every 12 months. The requirements for inspection and maintenance of improvised hose reel system (direct-feed type) are similar to the conventional hose reel system. Nonetheless, relevant information regarding the inspection and work done for the improvised hose reel system (direct-feed type) shall be provided at Part 1, Part 2 and Part 3 of the Certificate of Fire Service Installation and Equipment (FS 251) where appropriate. Examples are shown at *Appendix B*.

Should you need further clarification on this matter, please do not hesitate to contact officers of the Building Improvement Division 1 or 2 at 2807 9126 or 2272 9112 respectively.

Yours faithfully,



(Dr. LO Siu-hang)
for Director of Fire Services

Encl.

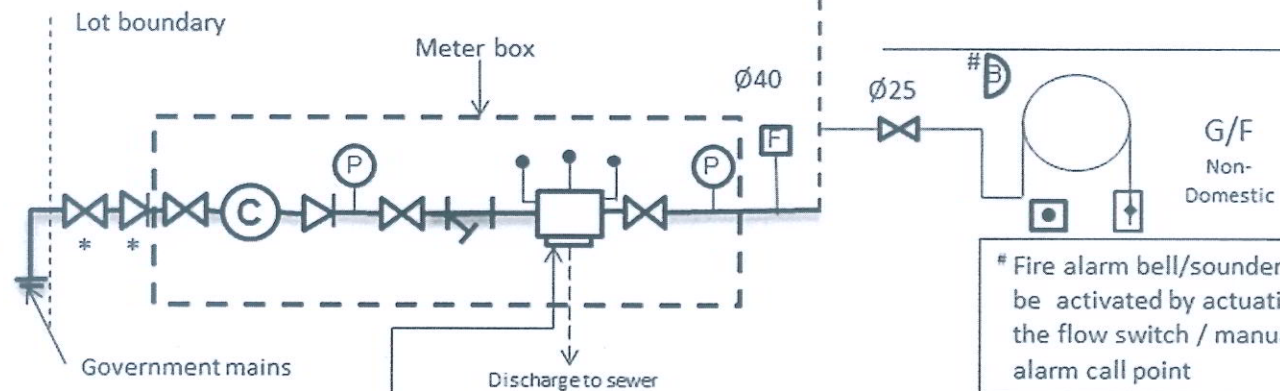
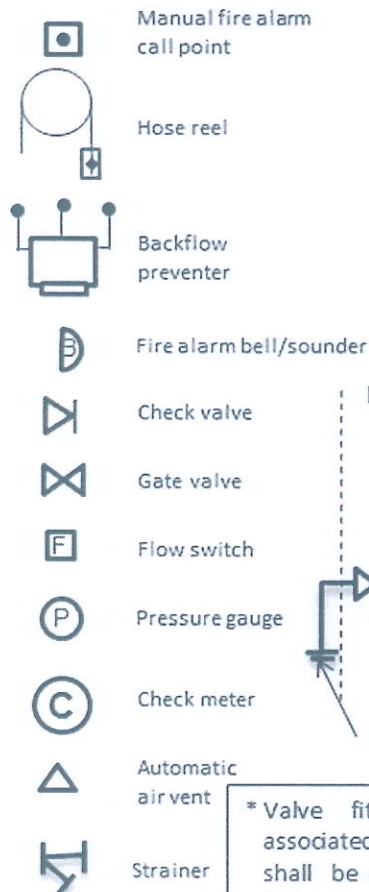
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Design and specifications of improvised hose reel system (direct-feed type) to be installed at non-domestic portion of target composite buildings of 3 storeys or below regulated under the Fire Safety (Buildings) Ordinance (Cap. 572)

1. Specifications as stipulated in respective section in Paragraphs 5.11 and 5.14 of the '*Code of Practice for Minimum Fire Service Installations and Equipment (1994 Version)*' should be conformed to with the following modifications:
 - (a) Supply tank is not required; and
 - (b) Fixed fire pumps are not required
2. Secondary source of electricity supply shall be provided for the system.
3. The gate valve of the water supply shall be properly secured and locked in an open position at all times to prevent unauthorized tampering.
4. A backflow preventer complying with BS EN 12729:2002 - '*Devices to prevent pollution by backflow of potable water- Controllable backflow preventer with reduced pressure zone - Family B-Type A*' or its latest revised edition/replacement; or other standard/certification accepted by the Water Authority shall be fitted as per Schematic Piping Diagram in this Appendix to prevent contamination of the Government fresh water supply system. The backflow preventer shall be approved by the Water Authority prior to construction of the improvised hose reel system (direct-feed type).
5. A flow switch shall be fitted to the system. In case a flow is detected through the flow switch, a visual indication shall be shown on the fire alarm panel and the alarm bell/sounder should be actuated. The flow signal as indicated on the fire alarm panel shall be independent from the fire alarm signal actuated by manual fire alarm call point(s).

Schematic Piping Diagram For Improvised Hose Reel System (Direct-feed type)

Legend



* Valve fittings and associated pipework shall be exposed or laid in a proper service trench

Backflow preventer complying with BS EN 12729 : 2002- Family B – Type A or its latest revised edition/ replacement; or other standard/certification accepted by the Water Authority

Options for Secondary Source of Electricity Supply:

1. Fed from Power Company's cut-out; or
2. Provided by batteries to maintain a fire alarm system in operation for 72 hours and operate all fire alarm devices for at least 30 minutes.

Fire alarm bell/sounder shall be activated by actuation of the flow switch / manual fire alarm call point

EXAMPLE

Appendix B

FIRE SERVICE (INSTALLATIONS AND EQUIPMENT) REGULATIONS

消防（裝置及設備）規例

(Regulation 9(1))

(第九條(1)款)

CERTIFICATE OF FIRE SERVICE INSTALLATION AND EQUIPMENT

消防裝置及設備證書

FSD Ref.: _____
消防處編號

A 0000000

Name of Client: _____
顧客姓名

Name of Building: _____
樓宇名稱

Street No./Town Lot: _____ Street/Road/Estate Name: _____
門牌號數/市地段 街道/屋苑名稱

Block: _____ District: _____ Area: ☐ HK ☐ K ☐ NT
座 分區 地區 香港 九龍 新界

Type of Building 樓宇類型: ☐ Industrial 工業 ☐ Commercial 商業 ☐ Domestic 住宅 ☐ Composite 混合 ☐ Licensed premises 持牌處所 ☐ Institutional 社團

Part 1 Annual Inspection ONLY 第一部 只適用於年檢事項					
Code/編號 (1-35)	Type of FSI 裝置類型	Location(s) 位置	Comment on Condition 狀況評述	Completion Date 完成日期(DD/MM/YYYY)	Next Due Date 下次到期日(DD/MM/YYYY)
16	Improvised Hose Reel System (Direct-feed type) (including the backflow preventer)	G/F	Conform to FSD's requirements	DD/MM/YYYY	DD/MM/YYYY

Example of entries for the case of Annual Inspection ONLY

Part 2 第二部 Installation / Modification / Repair / Inspection work 裝置/改裝/修理/檢查工作					
Code/編號 (1-35)	Type of FSI 裝置類型	Location(s) 位置	Nature of Work Carried out 完成之工作內容	Comment on Condition 狀況評述	Completion Date 完成日期(DD/MM/YYYY)
16	Improvised Hose Reel System (Direct-feed type)	G/F	Installation/ Modification/ Repair/Inspection of Improvised Hose Reel System (Direct-feed type)	Conform to FSD's requirements	DD/MM/YYYY

Example of entries for the case of Installation/ Modification/ Repair/ Inspection work

Part 3 第三部 Defects 損壞事項				
Code/編號 (1-35)	Type of FSI 裝置類型	Location(s) 位置	Outstanding Defects 未修缺點	Comment on Defects 缺點評述
16	Improvised Hose Reel System (Direct-feed type)	G/F	Periodic testing of backflow preventer in accordance with manufacturer's recommended procedure is outstanding	Periodic testing of backflow preventer in accordance with manufacturer's recommended procedure is required

Example of entries for the case of Defects

I/We hereby certify that the above installations/equipment have been tested and found to be in efficient working order in accordance with the Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment published from time to time by the Director of Fire Services. Defects are listed in Part 3.

本人/我們證明以上之消防裝置及設備經試驗，證明性能良好，符合消防處處長不時公佈的最低限度之消防裝置及設備守則與裝置及設備之檢查測試及保養守則的規格。損壞事項列於第三部。

如證書涉及年檢事項，應張貼於大廈或處所當眼處以供消防處人員查核

This certificate should be displayed at prominent location of the building or premises for FSD's inspection if any annual maintenance work is involved.

F.S. 251 (Rev. 1/2016)

Authorized Signature: _____
受權人簽署

Name: _____
姓名

FSD/RC No.: _____
消防處註冊號碼

Company Name: _____
公司名稱

Telephone: _____
聯絡電話

Date: _____
日期

For FSD use only

Inspected: _____

Key-in: _____

Verified: _____

EXAMPLE