

消防處
防火總區

香港九龍尖沙咀東部康莊道 1 號 5 樓
消防總部大廈



**FIRE SERVICES DEPARTMENT
FIRE PROTECTION COMMAND**

FIRE SERVICES HEADQUARTERS BUILDING,
No. 1 Hong Chong Road, 5/F.,
Tsim Sha Tsui East, Kowloon,
Hong Kong

本處檔號 Our Ref.: (36) in FP 314/06 III

來函檔號 Your Ref.:

電訊掛號 Telex: 39607 HKFSD

HX



(24 小時 Hours)

圖文傳真 Fax: 852-2723 2197

電話 Tel. No.:

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FSD Circular Letter No. 4/98

**List of Fire Service Installations and Equipment
requiring approval from FSD**

----- A list of fire service installations and equipment requiring approval from FSD has been prepared and is attached herewith for your information and reference.

Signed
(CHU Man-chun)
for Director of Fire Services

Fire Service Installations and Equipment requiring FSD approval

System/Component	Discussion
<p>1. Automatic Actuating Device ⁽¹⁾</p> <p style="margin-left: 40px;">i. Emergency Exit Device and Electromagnetic Door Releasing Device to be used in conjunction with Automatic Fire Alarm System</p>	<ul style="list-style-type: none"> - Equipment / Device approval is based on FSD recognised testing organisations, circular letter and current Code of Practice. - Standard for Exit device for emergency route, detail as : <ul style="list-style-type: none"> BS5725 - Emergency Exit Devices BS5839 - Fire Detection and Alarm System in Building or Equipment UL 305 - Panic Hardware
<p>2. Automatic Fixed Installation other than Water</p> <p style="margin-left: 40px;">i. Fixed Carbon Dioxide Installation ii. Fixed Halon Installation iii. Fixed Clean Agent Installation iv. Fixed Dry Chemical Installation</p>	<ul style="list-style-type: none"> - System / component approval is based on FSD recognised testing organisations, circular letter and current Code of Practice. - Contractor to ensure the compatibility of the control panel & actuation device of the system. - HKFSD accepts manufacturer to confirm the compatibility with other different manufacturers for the non-package system. - Approval of Fixed Dry Chemical Installation is based on NFPA 17.
<p>3. Automatic Fire Alarm System</p> <p style="margin-left: 40px;">i. Fire Alarm Control Panel ii. Heat Detector iii. Smoke Detector iv. Beam Detector v. Smoke Detector with Integration Device vi. Flame Detector vii. Intrinsically Safe/Explosion Proof Detector Alarm/Sounder Integrated with Strobe viii. Light for use in conjunction with Automatic Fire Alarm System</p>	<ul style="list-style-type: none"> - System / component approval is based on FSD recognised testing organisations, circular letter and current Code of Practice. - Contractor should ensure the compatibility of the fire alarm control panel & associated device. HKFSD accepts manufacturer to confirm the compatibility with other different manufacturers for the non-package system. - For Hazardous Area, contractor should ensure the devices are : <ul style="list-style-type: none"> a. suitable to be installed in hazardous area (e.g. BASEEFA, SIRA, UL approved type) b. approved type sensing/detection alarm device Alarm/Sounder integrated with strobe light requires FSD approval. Strobe light on its own does not require FSD approval.

System/Component	Discussion
<p>4. Manual Fire Alarm System</p> <ul style="list-style-type: none"> i. Manual Call Point ii. Alarm Bell 	<ul style="list-style-type: none"> - System / component approval is based on FSD recognised testing organisations, circular letter and current Code of Practice.
<p>5. Automatic Fixed Installation</p> <ul style="list-style-type: none"> i. Deluge System <ul style="list-style-type: none"> a. Deluge Valve b. Sprinkler Head c. Alarm Valve ii. Drencher System iii. Water Spray System <ul style="list-style-type: none"> a. Water Spray Nozzle b. Deluge Valve iv. Sprinkler System <ul style="list-style-type: none"> a. Sprinkler Head b. Alarm Valve c. Accelerator d. Butterfly Valve (motorised) ⁽²⁾ e. Flow Switch f. Ratio Flow Controller g. Piping and associated fittings <ul style="list-style-type: none"> e.g. CPVC Piping/Fittings UPVC Piping/Fittings h. Vortex Inhibitor 	<ul style="list-style-type: none"> - System / component approval is based on FSD recognised testing organisations, circular letter and current Code of Practice. - Sprinkler installations should conform to Loss Prevention Council Rules for Automatic Sprinkler Installations. - System / component approval is based on FSD recognised testing organisations, circular letter and current Code of Practice. - System / component approval is based on FSD recognised testing organisations, circular letter and current Code of Practice. - System / component approval is based on FSD recognised testing organisations, circular letter and current Code of Practice. - Accelerator device is applied to dry piping valve. Approval is required to ensure the performance of system using the device. - Test valve and drain valve are components for alarm valve and separate approval is not required. The control and actuation device of butterfly valve do not require FSD approval - Ratio Flow Controller is a special device applied to sprinkler system. Contractor shall ensure the device is up to relevant standard and design application. - Gate Valve Supervisory Switch is a micro switch installed on gate valve for monitoring of on/off status. FSD approval is not required provided that it functions properly. - Piping and associate fittings other than steel pipe to BS1387/BS3601, BS4772 requiring FSD approval - Sprinkler installations should conform to Loss

	<ul style="list-style-type: none"> - Prevention Council Rules for Automatic Sprinkler Installations.
System/Component	Discussion
<p>6. Fire Hydrant/Hose Reel System</p> <ul style="list-style-type: none"> i. Hose Reel Unit (incl. Hose Reel Tubing, Nozzle and drum) ii. Hydrant Inlet/Outlet Valve iii. Check Valve iv. Pressure Reducing Valve v. FS Inlet/Fireboat Inlet ⁽³⁾ 	<ul style="list-style-type: none"> - System / component approval is based on FSD recognised testing organisations, circular letter and current Code of Practice. - FSD approval is not required for check valve and pressure reducing valve. However, Contractor should ensure those valves are under WSD approval. Equipment selection should cope with design requirement.
<p>7. Fixed Automatically Operated Approved Appliance (Wall/Ceiling Mounted Type)</p> <ul style="list-style-type: none"> i. Halogenated Fire Extinguisher ii. Clean Agent Fire Extinguisher 	<ul style="list-style-type: none"> - Approval is based on FSD recognised testing organisations, circular letter and current Code of Practice. - Requirement of approval refers to latest circular 1/96 dated 6 March 1996.
<p>8. Fixed Foam System/Equipment</p> <ul style="list-style-type: none"> i. Foam Monitor ii. Foam Proportioner/Maker iii. Foam Nozzle iv. Foam Water Nozzle v. Bladder Tank 	<ul style="list-style-type: none"> - System / component approval based on FSD recognised testing organisations, circular letter and current Code of Practice. - Contractor should ensure the equipment to be used are suitable for the concentration of the foam concentrate and cope with the proportioning device.
<p>9. Gas Detection System</p> <ul style="list-style-type: none"> i. Chlorine Gas ii. Hydrogen Gas iii. Ammonia Gas iv. Electronic Gases v. Methane Gas ⁽⁴⁾ 	<ul style="list-style-type: none"> - System / component approval based on FSD recognised testing organisations circular letter and current Code of Practice. - Detector should be selected according to the nature/type of flammable/toxic gas generated in the protected area. Contractor is responsible for selection of suitable gas sensor to protect the area. Contractor is required to clarify with FSD regarding the type of gas detector used to suit with

licensing requirement

System/Component	Discussion
10. Fire Blanket	- Fire Blanket should be submitted for FSD approval and will be gazetted at least once a year.
11. Fire Extinguisher i. Portable Fire Extinguisher a. Carbon Dioxide Fire Extinguisher b. Foam Fire Extinguisher c. Water Type Fire Extinguisher d. Halogenated Fire Extinguisher e. Dry Chemical Fire Extinguisher f. Clean Agent Fire Extinguisher ii. Wheeled Type Fire Extinguisher	- Portable Fire Extinguisher should be submitted for FSD approval and will be gazetted at least once a year.
12. Fire Retardant Solutions i. For wall and ceiling linings in accordance with Class 1 or 2 of BS 476 : part 7 : 1987 For Curtains and Drapes in accordance ii. with Type B requirements of BS 5867 : Part 2 : 1980	- Approval is based on FSD recognised testing organisations, circular letter and code of practice.
13. Flammable Liquid Dispensing Device for Petrol Filling Station	- System / component approval based on FSD recognised testing organisations, circular letter and current Code of Practice. - Contractor is required to clarify with FSD for required system for individual application.
14. Flammable Liquid Storage Tank for Petrol Filling Station	- System / component approval based on FSD recognised testing organisations, circular letter and current Code of Practice. - Contractor is required to clarify with FSD for required system for individual application.
15. Other 1. Sprinkler water storage tank other than concrete	- FSD concerns on the water storage tank other than concrete, especially for sprinkler system. The LPC Rules for such tank should be followed.

- Remarks :
- (1) The responsibility of approval of fire resisting rolling shutter had been transferred to Buildings Department w.e.f. 1.8.1996.
 - (2) Motorised type was added.
 - (3) FS Inlet/Fireboat inlet was added to the Fire Hydrant/Hose Reel System.
 - (4) Methane Gas was added.

This list is by no means exhaustive, contractors have the responsibilities to check with the Fire Service Installations Division or the Investigation and Research Division of Fire Protection Command to see whether or not the equipment/installation requires prior approval before use.