



# Fire Services Department

Fire Safety (Buildings) Ordinance  
(Cap. 572)

# Enforcement Authority



## Buildings Department

Responsible for buildings planning,  
design and construction



## Fire Services Department

Responsible for fire service installation or  
equipment

## An Introduction to the Fire Safety (Buildings) Ordinance Cap.572



- Extensive public consultation in 1998
- The Ordinance has come into operation since 1.7.2007
- This Ordinance applies to composite building or domestic building constructed on or before 1 March 1987

# Requirements for Fire Service Installations and Equipment



**Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment**  
[March 1994 revision]

# Requirements for Fire Service Installations and Equipment



Automatic sprinkler system

Fire hydrant and hose reel system



Manual fire alarm system

Emergency lighting

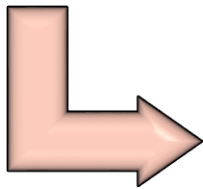


Automatic cut-off device for the mechanical ventilating system

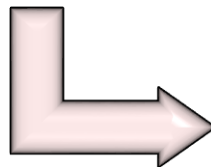


# Implementation process

**Buildings  
Department  
arrange Inspection  
to target buildings**



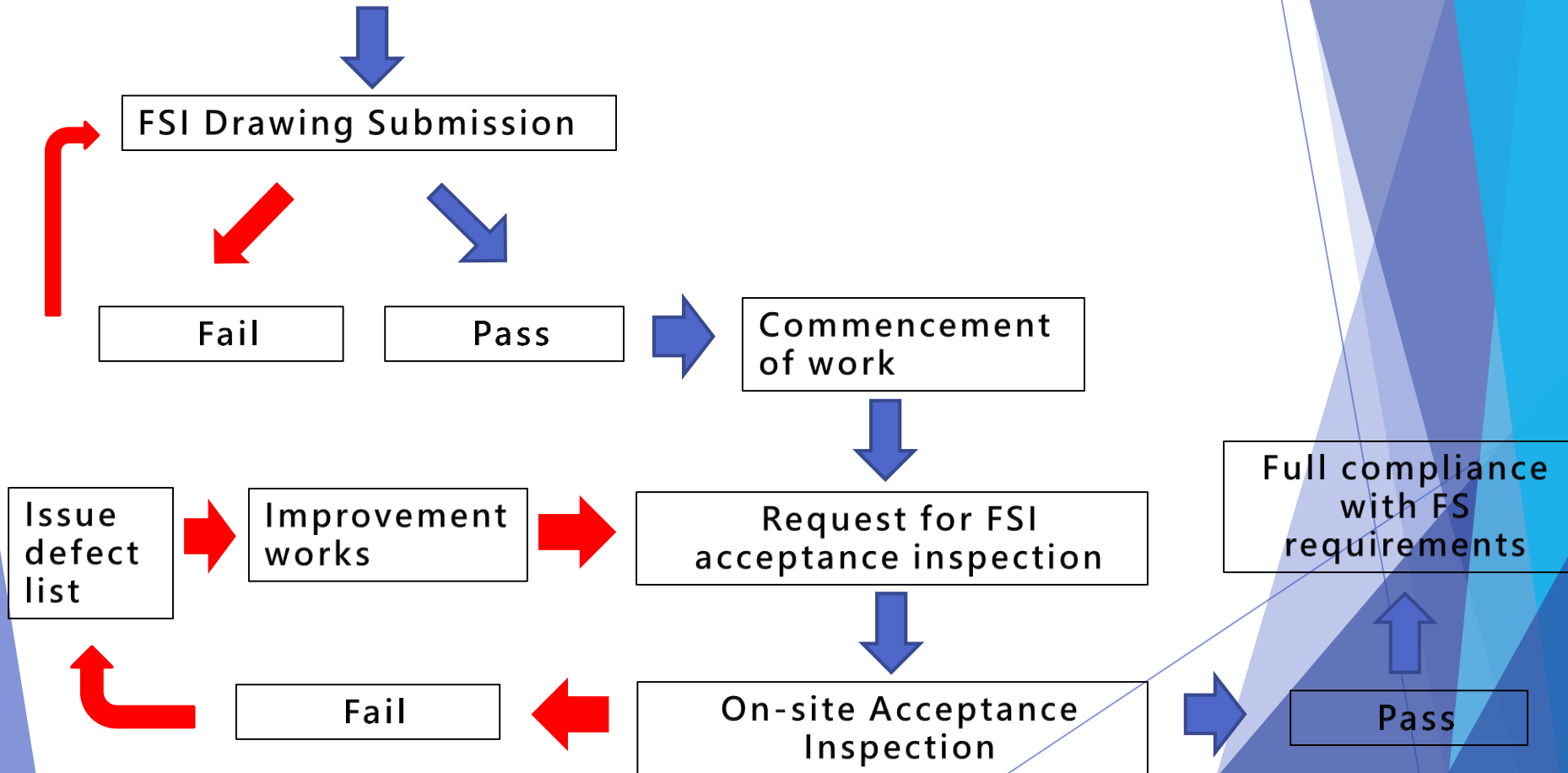
**Inspection to  
target buildings  
within the scope of  
the Ordinance**



**Authorities will  
issue Fire Safety  
Directions**

# How to Comply Fire Safety Directions

Appoint an Authorized Person and/or Registered Structural Engineer and Registered Contractor



# Common Questions Encountered by Owners



1. Target Buildings without Establishment of Owners' Corporation(OC)
2. Financial Difficulties
3. Spatial or Structural Constraints in Buildings



# Spatial or Structural Constraints in Buildings

- **Adopt a Flexible and Pragmatic Approach**
- **Reduced Supply Tank Capacity Requirement for the Fire Hydrant/Hose Reel System**
  - i. Three storeys or below
  - ii. Six storeys or below or less than 20 metres
  - iii. Seven storeys or above or over 20 metres

# Flexible and Pragmatic Approach Improvised Sprinkler System (Direct-feed type)



**Improvised Sprinkler System with a direct towns main water connection  
(not exceeding 15m in height)**

# Flexible and Pragmatic Approach

## Exempt installation of Fire Hydrant system



1. Target buildings of six storeys or below or less than 20 metres
2. One major facades accessible by fire appliances

# Flexible and Pragmatic Approach



Target Building	Revised Requirement	FSD Circular Letter
Three storeys or below	Stage I Improvised Hose Reel System (Direct-feed type)	FSD Circular Letter No. 2/2016
Six storeys or below or less than 20 metres	Stage II Revised Supply Tank Requirement for Hose Reel System	FSD Circular Letter No. 5/2016
Seven storeys or above or over 20 metres	Stage III Reduced Supply Tank Capacity Requirement for the Fire Hydrant/Hose Reel System	FSD Circular Letter No. 3/2017

# Six storeys or below or less than 20 metres

## Stage II - Revised Supply Tank Requirement for Hose Reel System



1. Six storeys or below or less than 20 metres
2. One major facades accessible by fire appliances
3. Spatial or Structural Constraints in Buildings



# Six storeys or below or less than 20 metres

## Stage II - Revised Supply Tank Requirement for Hose Reel System

For Buildings within	Requirement for the Effective Supply Tank Capacity of the Hose Reel System (in litres)
Built-up Areas	500
Dispersed Risks and Isolated Developments Areas	750 - 1,500

# Successful case of 500-litre Supply Tank



**Supply Tank installed inside  
Roof-floor Staircase**



**Supply Tank  
installed on  
Roof-floor**

Source:

[https://www.hkfsd.gov.hk/eng//source/safety/Revised\\_Supply\\_Tank\\_Capacity\\_Requirement\\_eng.pdf](https://www.hkfsd.gov.hk/eng//source/safety/Revised_Supply_Tank_Capacity_Requirement_eng.pdf)

# Seven storeys or above or over 20 metres

## Stage III - Reduced Supply Tank Capacity Requirement for the Fire Hydrant/Hose Reel System



1. One major facades accessible by fire appliances
2. Street fire hydrant is provided within 50 metres of the building
3. Spatial or Structural Constraints in Buildings

# Seven storeys or above or over 20 metres

## Stage III - Reduced Supply Tank Capacity Requirement for the Fire Hydrant/Hose Reel System



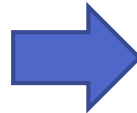
FSD Circular Letter No. 3/2017	Content
Part I	Reduced Supply Tank Capacity Requirement for the Fire Hydrant/Hose Reel System (in litres)  9,000 ➡ 4,500
Part II	Pilot Scheme on the Incorporation of the Fresh Water Supply System into the Fire Hydrant/Hose Reel System

# Seven storeys or above or over 20 metres

Stage III - Reduced Supply Tank Capacity Requirement for the Fire Hydrant/Hose Reel System



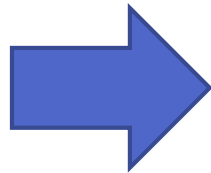
**Original Supply Tank  
Capacity 9,000 litres**



**Reduced Supply Tank  
Capacity 4,500 litres**

# Seven storeys or above or over 20 metres

Stage III - Reduced Supply Tank Capacity Requirement  
for the Fire Hydrant/Hose Reel System



水務署

Water Supplies Department



# Latest Stage

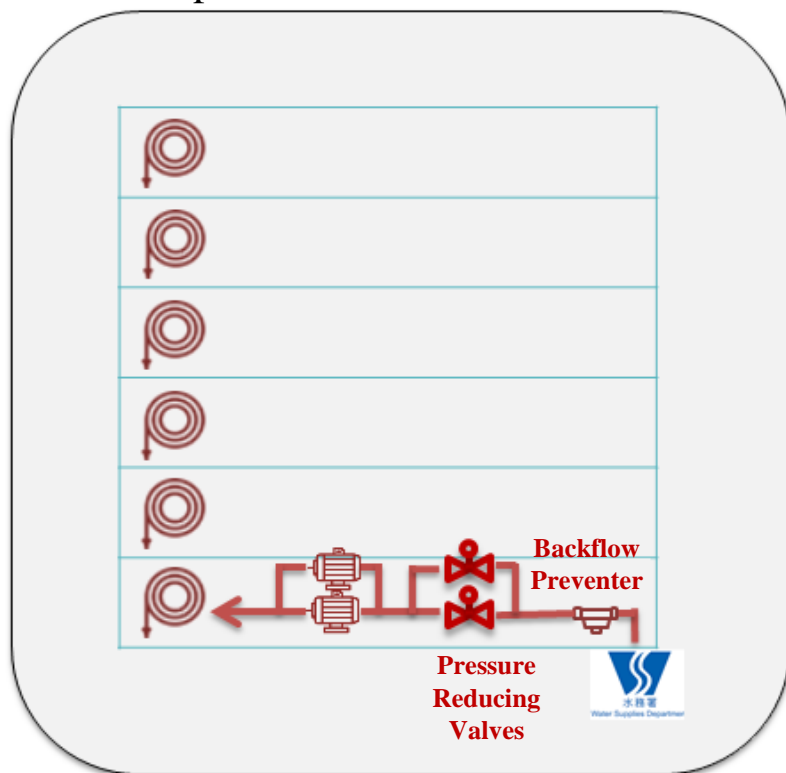


FSD Circular Letter No. 4/2023	Content
Part I	Accept the incorporation of the fresh water supply system into the FH/HR system with immediate effect (over 20 meters in height or seven storeys or above)
Part II	Improvised HR System (Direct Pumping Design) and Improvised FH/HR System (Direct Pumping Design) (four to twelve storeys)

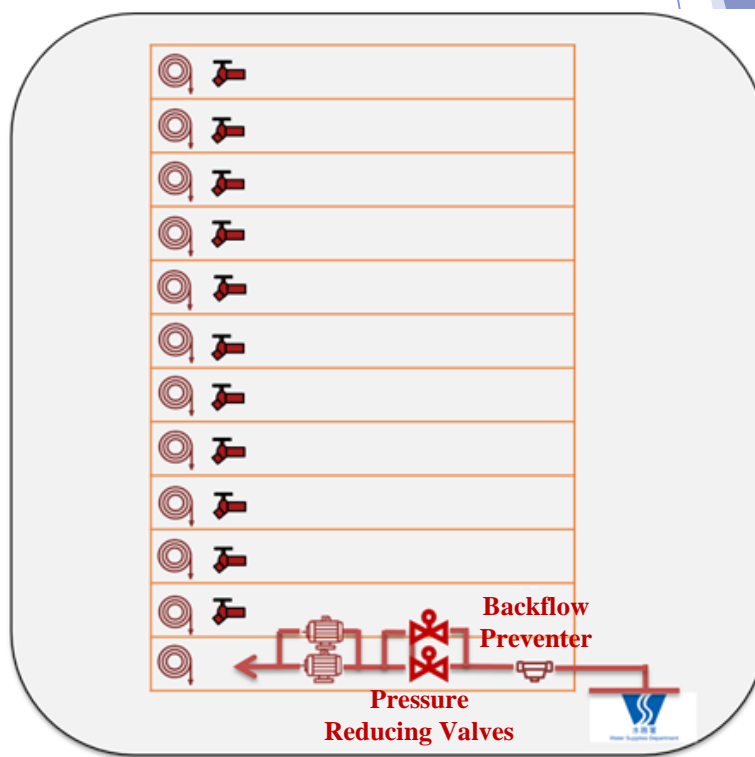
# Four to twelve storeys

## Improvised HR System (Direct Pumping Design) and Improvised FH/HR System (Direct Pumping Design)

expand the use of improvised HR systems (direct-feed type) to buildings where installation of fire service water tank is unfeasible due to structural or spatial constraints



Four to six storeys



Seven to twelve storeys

# Spatial or Structural Constraints in Buildings



FSD case officers will offer technical advice to the owners and their appointed representatives when necessary. If you need more information, please contact FSD at 2272 9112.



**Thank you**