

Colombo Municipal Council

FIRE SERVICE DEPARTMENT

Mandatory Active Fire Protection Requirements to be Included in Proposed Building Plans.

Provision of Manual Call Points, Automatic Fire Detection, Voice Evacuation and Fireman Communication systems According to Purpose Group, Height and Size of the building.

Purpose Group	Height (Ground – Highest Habitable Floor Level)	Manual Call Points	Fire Detection	Voice Examination	Fireman Communication
1. Residential (Dwellings)	Height up to 18m & floor area less than 800m ²		Not Relevant		
	Height up to 18m & floor area more than 800m ²	R	NR	NR	NR
	Height between 18m – 30m	R	R	NR	NR
	Height more than 30m	R	R	R	R
1 (a)					
1 (b)	Height up to 18m		Not Relevant		
1 (c)			Not Relevant		
2. Residential	Height up to 18m & floor area less than 800m ²		Not Relevant		
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	R	R
	Height more than 30m	R	R	R	R
2 (a)(Industrial)					
	Height up to 18m & floor area less than 800m ²		Not Relevant		
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	NR	NR
2 (b) (Hotels)	Height more than 30m	R	R	R	R
	Height up to 18m & floor area less than 800m ²		Not Relevant		
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	NR	NR
2 (c) (Hotels)	Height more than 30m	R	R	R	R
	Height up to 18m & floor area less than 800m ²		Not Relevant		
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	NR	NR

	Height more than 30m	R	R	R	R
2 (d) Detention	Height up to 18m & floor area less than 800m ²	Not Relevant			
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
3 Office	Height up to 18m & floor area less than 800m ²	Not Relevant			
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	NR	NR
	Height more than 30m	R	R	R	R
4. Commercial	Height up to 18m	R	R	NR	NR
4(a) > 800m ²	Height between 18m – 30m	R	R	NR	NR
	Height more than 30m	R	R	R	R
4(b) <800m ²		Not Relevant			
5. Assembly & Recreation	Height up to 18m & floor area less than 800m ²	Not Relevant			
5(a) Underground)	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	NR	NR
	Height more than 30m	R	R	R	R
6. Industrial	floor area less than 800m ²	Not Relevant			
6(a) (Flammable)	floor area more than 800m ²	R	R	R	NR*
6(b)(Power Gene)		NR	R	R	NR*
6(c) (Elect. Plant rooms)		R	R	R	NR*
6(d)(IT facility)		R	R	NR	NR
7. Storage		Not Relevant			
7(a), 7(b), 7(c)	floor area less than 800m ²	Not Relevant			
	floor area more than 800m ²	R	R	R	NR*

8. Car Parks						
8(a)	Underground	R	R	R	R	
8(b)	Automated Mechanized car park	NR	R	R	R*	
8(c)	Parking structures above ground/naturally ventilate	R	R	NR	NR	

Note:

1. If an automatic detection system exceed 100 or more detectors addressable system shall be applicable.
2. The above are guidelines only. These shall be enhanced after Fire Risk Assessment is carried out on the building. AHJ reserves the right to revise the above requirements base on the risk assessment.

* NR – Not Relevant

R - Relevant

Provision of Portable Fire Extinguishers, Hose Reel, Landing Valve, Sprinkler according to Purpose Group, Height and Size of the Building

Purpose Group	Height (Ground – Highest Habitable Floor Level)	Portable Fire Extinguishers	Hose Reels	Landing Valves	Sprinklers
1. Residential (Dwellings)	Height up to 18m & floor area less than 800m ²	R	NR	NR	NR
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	R	NR
	Height more than 30m	R	R	R	R
1 (a)					
1 (b)	Height up to 18m	R	NR	NR	NR
1 (c)	Floor area less than 300m ²	Not Relevant			
2. Residential 2(a)(Industrial)	Height up to 18m & floor area less than 800m ²	R	NR	NR	NR
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	R	NR
	Height more than 30m	R	R	R	R
2 (b) (Hotels)	Height up to 18m & floor area less than 800m ²	R	NR	NR	NR
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	R	NR
	Height more than 30m	R	R	R	R
2 (c) (Hotels)	Height up to 18m & floor area less than 800m ²	R	NR	NR	NR
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	R	NR
	Height more than 30m	R	R	R	R
2 (d) Detention	Height up to 18m & floor area less than 800m ²	Not Relevant			
	Height up to 18m & floor area more than 800m ²	R	R	R	NR

3 Office	Height up to 18m & floor area less than 800m ²	R	NR	NR	NR
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	R	NR
	Height more than 30m	R	R	R	R
4. Commercial 4(a) > 800m ²	Height up to 18m	R	R	NR	NR
	Height between 18m – 30m	R	R	R	NR
	Height more than 30m	R	R	R	R
4(b) < 800m ²		R	NR	NR	NR
5. Assembly & Recreation 5(a) Underground)	Height up to 18m & floor area less than 800m ²	R	NR	NR	NR
	Height up to 18m & floor area more than 800m ²	R	R	NR	NR
	Height between 18m – 30m	R	R	R	NR
	Height more than 30m	R	R	R	R
5(c)(Pas. Termal)	Open Buildings	R	NR	NR	NR
	Enclosed above ground more than 800m ²	R	R	NR	NR
	Underground more than 400m ²	R	R	R	R
5(D)College	Naturally ventilated buildings less than 800m ²	R	NR	NR	NR
	Naturally ventilated buildings more than 800m ² Or more than 18m height	R	R	R	NR
	Enclosed Building less than 800m ²	R	NR	NR	NR
	Enclosed Building more than 800m ² or more than 18m height	R	R	R	NR
5(e) Conf. Halls	floor area less than 800m ²	R	NR	NR	NR
	floor area more than 800m ² or more than 18m height	R	R	R	NR*
6. Industrial	floor area less than 800m ²	R	NR	NR	NR
6(a) (Flammable)	floor area more than 800m ²	R	R	R	NR*
6(b)(Power Gene)		R	R	R	NR*

6(c) (Elect. Plant rooms)		R	R	R	NR*
6(d)(IT facility)		R	R	NR	NR
7. Storage					
7(a), 7(b), 7(c)	floor area less than 800m ²	R	NR	NR	NR
	floor area more than 800m ²	R	R	R	NR*
8. Car Parks					
8(a)	Underground	R	R	R	R
8(b)	Automated Mechanized car park	R	R	R	R*
8(c)	Parking structures above ground/naturally ventilate	R	R	NR	R

Note:

1. The above are guidelines only. These shall be enhanced after Fire Risk Assessment is carried out on the building. AHJ reserves the right to revise the above requirements base on the risk assessment.

* Designer should take into account the Potential Fire Risk and fire spread and decide on the type of protection system.

* NR – Not Relevant

R - Relevant