

# Overview of Egress System Codes and Standards According to Pakistan Building Codes - Fire and Safety Provisions



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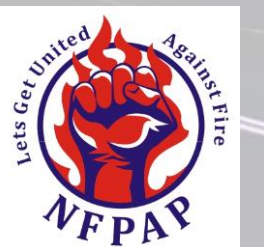
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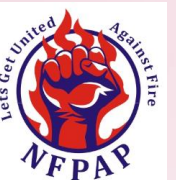


# 01

## Chapter 10 Means of Egress

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# Application

Means of egress in new and existing buildings shall comply with these provisions and referenced sections of NFPA 101 or any approved code/standard.

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# Definitions

## Means of Egress

- A continuous and unobstructed way of travel from any point in a building or structure to a public way consisting of three separate and distinct parts: (1) the exit access, (2) the exit, and (3) the exit discharge.

## Exit Discharge

- That portion of a means of egress between the termination of an exit and a public way.

## Exit Access

- That portion of a means of egress, such as corridors, hallways, passageways, portions of intervening room, doors, elevators, balconies, lobbies and ramps, that leads to an exit.

## Exit

- That portion of a means of egress that is separated from all other spaces of a building or structure by construction, location, or equipment is required to provide a protected way of travel to the exit discharge.





# Separation of Means of Egress

## Exit Access Corridors

Corridors used as exit access and serving an area having an occupant load exceeding 30 shall be separated from other parts of the building by walls having not less than a 1-hour fire resistance rating in accordance with Section 8.6 unless otherwise permitted.

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# Separation of Means of Egress

## Exit Enclosure

### Separation Requirements

- Where these provisions require an exit to be separated from other parts of the building, the separating construction shall meet the requirements of Section 8.6.

### Path of Travel

- An exit enclosure shall provide a continuous protected path of travel to an exit discharge.

### Usage Restrictions

- An exit enclosure shall not be used for any purpose that has the potential to interfere with its use as an exit.

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# Interior Wall, Ceiling and Floor Finish in Exit Enclosures

## 1 Finish Materials

- In exit enclosures, interior wall and ceiling finish materials complying with Section 8.4.4 shall be Class A or Class B.

## 2 Floor Finish

- New interior floor finish in exit enclosures, including stair treads and risers, shall be not less than Class II.

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# Head room

## Minimum Headroom Requirements

Means of egress shall provide headroom not less than 7 ft 6 in. (2285 mm).

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# Walking Surfaces in the Means of Egress



## Approved Surfaces

- Approved existing walking surfaces shall be permitted.



## Changes in Elevation

- Abrupt changes in elevation of walking surfaces shall not exceed 1/4 in. (6.3 mm).



# Impediments to Egress

## Restrictions on Devices

Any device or alarm installed to restrict the improper use of a means of egress shall be designed and installed so that it cannot impede or prevent emergency use.

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# Means of Egress Reliability

## 1 Maintenance

- Means of egress shall be continuously maintained free of all obstructions or impediments.

## 2 Furnishings and Decorations

- No furnishings, decorations, or other objects shall obstruct exits or their access.

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# Means of Egress Components

## Door Openings

### General Requirements

- Section 7.2.1 of NFPA 101 or any approved code/standard shall be followed.

### Occupied Building Definition

- A building shall be considered occupied if it is open for general occupancy, open to the public, or occupied by more than 10 persons.

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The total capacity of the means of egress for any story shall be sufficient for the occupant load determined.





# Number of Means of Egress

## Sufficient Means of Egress

The number of means of egress shall accommodate the occupant load determined according to Table 10.10.2.1.

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# Arrangement of Means of Egress

## 1 General Arrangement

- Exits shall be readily accessible at all times.

## 2 Travel Distance to Exits

- Exits shall be so located that the travel distance on the floor shall not exceed the specified distances.



# Discharge from Exits

## Exit Termination

Exits shall terminate directly at a public way or at an exterior exit discharge.

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# Illumination of Means of Egress

## Emergency and Escape Lighting

Emergency lighting shall be powered from a source independent of that supplying the normal lighting.

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# Marking of Means of Egress

## Exits

Exits shall be marked by an approved sign that is readily visible from any direction of exit access.

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# Internal Staircases

## Construction Requirements

Internal stairs shall be constructed of non-combustible materials throughout.

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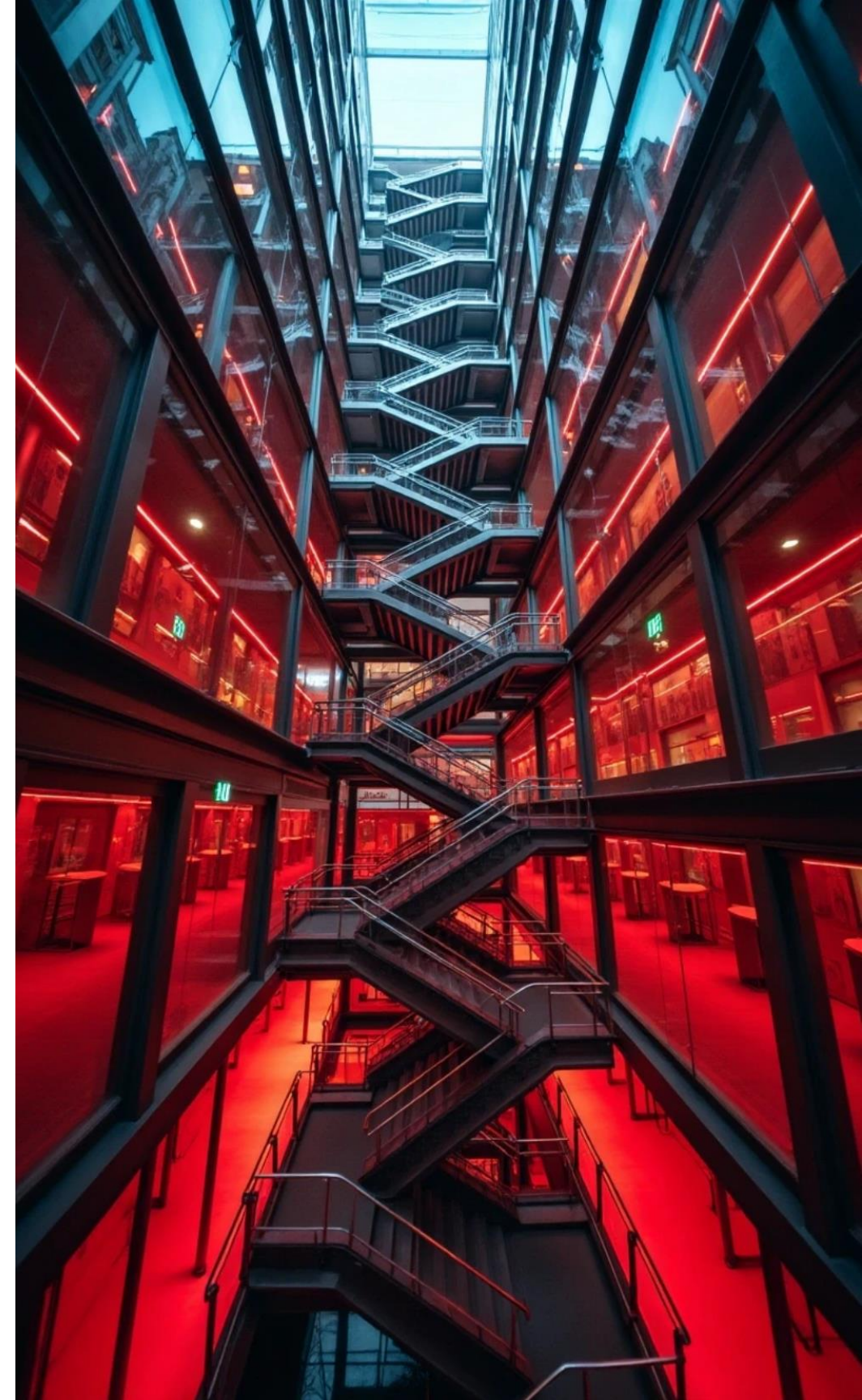
# Pressurization of Staircases

## High- Rise Buildings

The pressurization of staircases shall be adopted for high-rise buildings and multiplexes.



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# External Stairs

## Construction Standards

An external staircase shall be provided for high-rise buildings.

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# Horizontal Exits

## Width Requirements

The width of horizontal exit shall be the same as for the exit doorways.

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# Fire Tower

## Preferred Escape Route

Fire towers are the preferred type of escape route for storied buildings.

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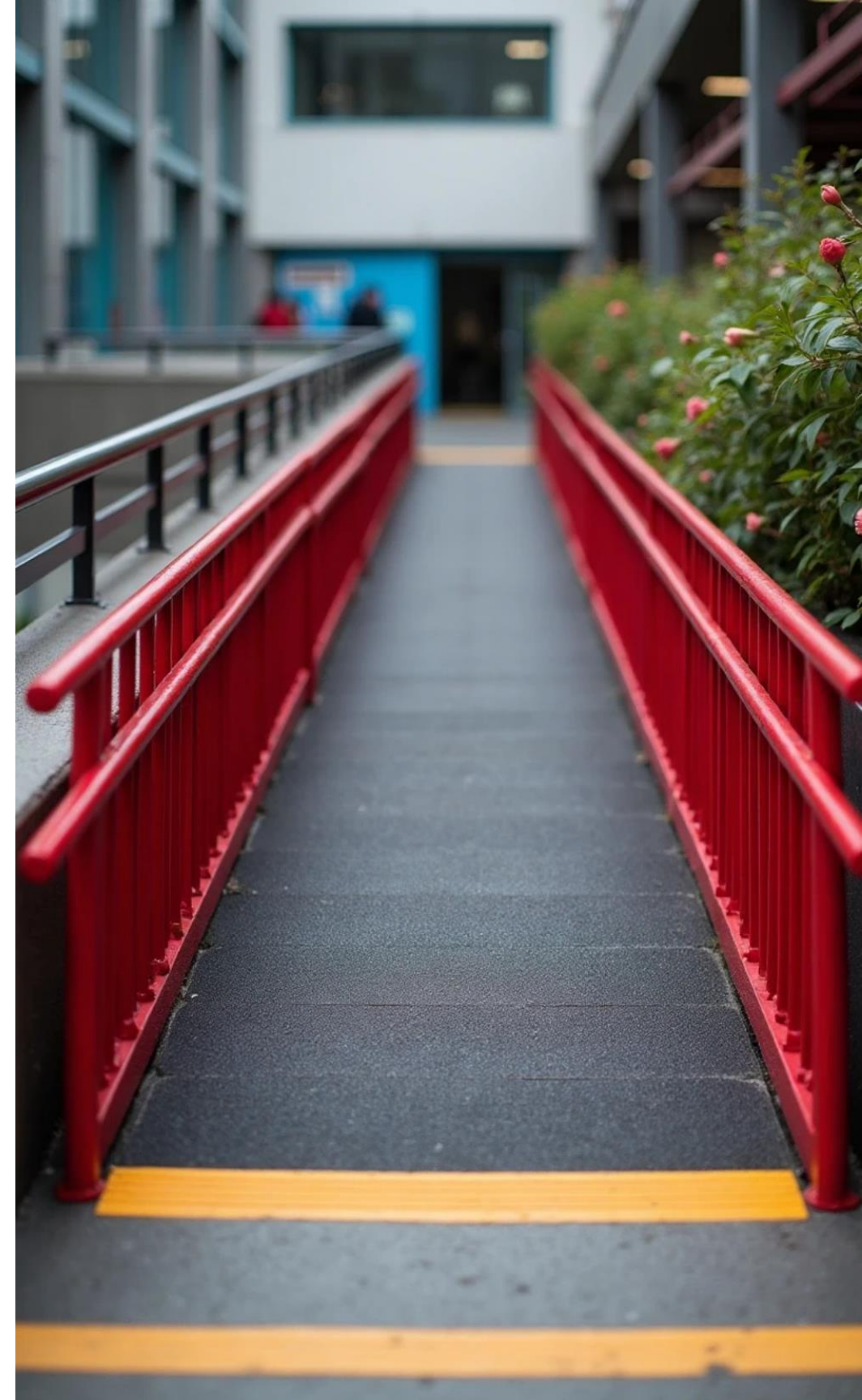
# Ramps

## Compliance Requirements

Ramps shall comply with all applicable requirements for stairways.



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# Fire Lifts

## Provision Requirements

Fire lifts shall be provided with a minimum capacity for 8 passengers and fully automated with emergency switches.

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# Thank You



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