



List Of Requirements

Conditions

| | | | |
|--|-------|----------------------------|----------------------|
| Scope Of Company | Décor | Status of project | New |
| Type of Occupancy | | largest floor area | |
| No of Floors | | Largest Basement Area | |
| No of Basements | | largest Podium Area | |
| No of Podiums | | LPG Tank | |
| Diesel Tank | | Capacity of LPG | |
| Total Occupant Load | | Storage Height | |
| Helipad | | Type of Industry | |
| Material Stored | | Process Involved | |
| Storage Arrangement | | Nature of Occupancy | Mercantile |
| Type Of The System | | Total Area of Decor | More than 900 Sq mts |
| Type of Storage building | | Type of LPG Usage | |
| Total Area of warehouses | | | |
| Total Height of the building including basements | | | |
| Height of the building from fire access level | | | |

Requirements List

5. MEANS OF EGRESS REQUIREMENTS

5.1. GENERAL

- 5.1.1. Minimum 2 means of egress are required.
- 5.1.2. Minimum 2 means of egress are required, for Balconies, Mezzanine or Story.
- 5.1.3. In any part of the means of egress (Doors/ Corridors/ Stairs/ Ramps etc), Width should not be less than 36 in. (91 cm)
- 5.1.4. Head room in any part of means of egress should be not less than 7' 6" (2.3 m)
- 5.1.5. If there is elevation difference in the means of egress and the difference exceeds 21 in., the change in elevation shall be established by Ramps or Stairs.
- 5.1.6. If Egress path exceeds 30 in.(800 mm) above finished floor level, Guards and Handrail shall be provided.
- 5.1.7. Penetrations into and openings through an exit enclosure shall be prohibited except Fire doors, Electrical conduits, Ductwork and Equipment for stair pressurization, water & steam piping, Sprinkler piping and Standpipes.
- 5.1.8. Exterior Ways of Exit Access, where provided, shall be permitted by means of exterior balcony, porch, gallery, or roof that is at least 50 percent open and arranged to restrict the accumulation of smoke.
- 5.1.9. There shall be no fuel dispensing devices in parking structures. If such devices exist, the occupancy shall be evaluated in accordance with the requirements of "parking structure"
- 5.1.10. Any Room larger than 3000 sq ft (280 sq m) in total floor space shall have 2 exit access doors, except for Storage and Industrial occupancies.

5.2. DOORS

- 5.2.1. Clear width of a Door in means of egress should not be less than 36 in. (915 mm)
- 5.2.2. Clear width of a single door serving a stairway should be 2/3 of Stairway width.
- 5.2.3. Minimum Clear width of a door can be 28 in. (710 mm) if room is less than 70 Sq ft (6.5 Sq m)
- 5.2.4. Minimum clear width of a door can be 24 in. (610 mm) if the room is Bathroom.
- 5.2.5. Minimum height of a door should not be less than 6 ft 8 in. (2030 mm)
- 5.2.6. Doors in exit enclosure should swing in the direction of egress.
- 5.2.7. Doors in High Hazard areas should swing in the direction of egress.
- 5.2.8. Force to open door shall not exceed 133 N.
- 5.2.9. Force to operate latch shall not exceed 67 N.
- 5.2.10. HORIZONTAL SLIDING DOORS are Not Allowed in corridors.

- 5.2.11. HORIZONTAL SLIDING DOORS, if any, shall be self closing if located in Fire rated walls.
- 5.2.12. HORIZONTAL SLIDING DOORS are allowed on main entrance and exit only if occupant load is less than 300.
- 5.2.13. REVOLVING DOORS are not allowed as the sole means of egress.
- 5.2.14. REVOLVING DOORS are not allowed within 10 ft (3 m) from Stairs and Escalators.
- 5.2.15. REVOLVING DOORS where provided, shall be accompanied always with hinged standard door within 10 ft (3 m) in the same wall.
- 5.2.16. Doors shall not open directly onto a stair without landing of the size not less than door width size.
- 5.2.17. Doors of RUBBISH CHUTES AND LAUNDRY CHUTES, if any, shall open only to a room that is designed and used exclusively for accessing the chute opening.
- 5.2.18. Every bathroom door lock shall be designed to allow opening of the locked door from the outside in an emergency. The opening device shall be readily accessible.
- 5.2.19. ACCESS CONTROLLED DOORS Shall unlock upon loss of power.
- 5.2.20. ACCESS CONTROLLED DOORS are allowed only if building is Sprinklered.
- 5.2.21. For STAIRS if any, door assembly shall be 90 minutes Fire rated, Smokeproof, Self closing, with Wired Glass Panel, with Push Bar at Ground floor, without latches and with appropriate floor/ Area Label.
- 5.2.22. For CORRIDORS, door assembly shall be 90 minutes Fire rated, Smokeproof, Self closing, with Wired Glass Panel, with Push Bar at Ground floor and with appropriate floor/ Area Label.
- 5.2.23. For SERVICE DOORS if any, door assembly shall be 90 minutes Fire rated, Smokeproof, Self closing, with Wired Glass Panel, with Push Bar at Ground floor, latches and with appropriate floor/ Area Label.
- 5.2.24. For ACCESS PANEL DOORS if any, door assembly shall be 90 minutes Fire rated, Smokeproof, latches and with appropriate floor/ Area Label.
- 5.2.25. For ELEVATOR LOBBY DOORS if any, door assembly shall be 60 minutes Fire rated, Smokeproof, Self closing, with Wired Glass and labeled.
- 5.2.26. HORIZONTAL OR VERTICAL ROLLING SECURITY GRILLES OR DOORS if any, shall remain secured in the full open position during the period of occupancy by the general public.
- 5.2.27. HORIZONTAL OR VERTICAL ROLLING SECURITY GRILLES OR DOORS if any, shall be operable from within the space without the use of any special knowledge or effort.
- 5.2.28. If HORIZONTAL OR VERTICAL ROLLING SECURITY GRILLES OR DOORS or horizontal-sliding or vertical-rolling grilles are provided, not more than half of the means of egress shall be equipped with such exit means.

5.3. STAIRS, IF ANY

- 5.3.1. Stair Riser should be 4 in. (100 mm) to 7 in. (180 mm)
- 5.3.2. Minimum stair Tread Depth is 11 in. (280 mm)
- 5.3.3. Maximum height between landings 12 ft (3660 mm)

5.3.4. Decrease in the width of neither stairs nor landings not allowed in egress direction.

5.3.5. All doors at the stairs shall swing in direction of egress.

5.3.6. Minimum head room in the stairs should be 6 ft 8 in. (2030 mm)

5.3.7. Non-emergency equipment such as fan coil unit or AC equipment for stair enclosure cooling is not allowed to be installed in the stair enclosure.

5.3.8. Stairs from basements if any, and Stairs from typical floors intersecting at ground floor shall be separated fully with wall having same fire rating as of stairs.

5.3.9. Windows in the Stair enclosure shall be fixed and non-operable.

5.3.10. In CURVED STAIR, if any, Tread width shall be 11 in.(280 mm) at 12 in.(30.5 cm) from narrow edge.

5.3.11. WINDERS are not Allowed.

5.4. HORIZONTAL EXITS, IF ANY

5.4.1. Every bridge or balcony serving as horizontal exit shall not be less than the width of the door to which it leads and shall be not less than 47 in.(1200 mm)

5.4.2. Doors in horizontal exit shall be self closing.

5.4.3. Ducts shall not penetrate the walls housing the horizontal exits.

5.4.4. Horizontal exits, if any, shall be housed in Fire barriers having a 2-hour fire resistance rating.

5.4.5. Floor area on either side of horizontal exit, if any, shall be minimum of 3 Sq ft (0.28 Sq m) per person and shall be sufficient for the occupants of both floor areas.

5.5. RAMPS, IF ANY

5.5.1. Ramps, if any, shall be of Minimum width 44 in. (1220 mm), Maximum slope of 1 in 12 and Maximum Rise of 30 in. (760 mm)

5.5.2. Maximum height between the landings of ramps, if any, shall be 12 ft (3.7m)

5.5.3. Ramps are not allowed as means of egress unless for stages, nonpublic and ramped aisles.

5.5.4. In Parking areas if any, Ramps not subject to normal vehicular traffic where used as an exit are acceptable.

5.6. EXIT ACCESS CORRIDOR/EXIT PASSAGEWAYS

5.6.1. Exit access corridor or exit passageways shall provide access to not less than 2 approved exits without passing through any intervening rooms.

5.6.2. Transoms, louvers, or transfer grilles in walls or doors of exit access corridor or exit passageways are not Allowed.

5.6.3. Penetrations in exit access corridor or exit passageways should be limited to Exit Doors, Electrical Conduits Ductwork, Water Piping, Sprinkler Piping and Standpipes.

5.6.4. Access to an exit shall not be through kitchens/ storerooms/restrooms/ workrooms/ closets/ bedrooms/ Rooms subject to locking.

5.6.5. If means of egress above and a story below if any, converge at intermediate story, the capacity of means of egress shall not be less than the sum of capacity of two means of egress.

5.7. EGRESS CAPACITY

5.7.1. Egress capacity for STAIRS, if any, shall not be less than 0.3 in. (7.6 mm) per person.

5.7.2. Egress capacity for RAMPS, if any, shall not be less than 0.2 in. (5 mm) per person.

5.8. DISCHARGE FROM EXITS

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

5.8.2. The exit discharge shall be arranged and marked to make clear the direction of egress to a public way.

5.8.3. At least 50% of the Exit Discharge shall be directly outside the building through the corridor, protected with same Fire rating as of the building.

5.8.4. Not more than 50% of the required number of exits allowed through the level of Discharge.

5.8.5. Not more than 50% of the required egress capacity allowed through the level of Discharge.

5.8.6. If design demands, Discharge through roof is permitted if roof construction has fire resistance rating of 1 Hr and continuous & safe means of egress from roof are provided.

10.11. MERCANTILE OCCUPANCY REQUIREMENTS

10.11.2. OCCUPANT LOAD FACTORS (SQ M/PERSON)

10.11.2.1. For sales area below or on street floor, if any, 2.8.

10.11.2.2. For Sales area on floors above street floor, if any, 5.6.

10.11.2.3. For floors or portions used only for storage and not for public 27.9

10.11.3. SPECIAL REQUIREMENTS

10.11.3.1. Internal open stairway or inside open ramp of Sales, Showroom areas are not permitted to serve as a component of the required means of egress system.

10.11.3.2. In Mercantile facilities, AISLE width shall not be less than 36 in. (915 mm).

10.11.3.3. COMMON PATH shall be 30 m if building is sprinklered. And 23 m if building is not sprinklered.

10.11.3.4. DEAD END shall be 15 m if building is sprinklered. And 6.1 m if building is not sprinklered.

10.11.3.5. TRAVEL DISTANCE to exits shall be 76 m if building is sprinklered. And 45 m if building is not sprinklered.

10.11.4. SINGLE EXIT PERMISSION

10.11.4.1. In Mercantile, Shops and Showroom facilities, Single Exit is acceptable if the total travel distance, including the distance travelled within internal stairs, to the outside or to the Mall does not exceed 30 m.

47. DECOR REQUIREMENTS

47.1. GENERAL

47.1.1. 'Decor scope of work' shall be limited to Gypsum, Plywood, Soft walls, Interior Decoration, Textile, Ceiling, Flooring, Tiling, Painting, Lighting etc. If the project scope involves Block work or RCC or Load bearing Structural Elements etc., then Decor companies can not submit the project as 'Decor Job'. Such jobs shall be submitted through 'Consultant' for Civil Defence Approval.

47.1.2. Layout of Furniture, Décor items, equipments should be such that the egress path is not obstructed. Layout of furniture shall be shown in the drawing to demonstrate this.

47.1.3. Seating arrangement, Table arrangement etc shall be shown on the drawings for approval.

47.1.4. Material, Textile used for Interior Décor, partitions and walls shall be Dubai Civil Defence approved.

47.1.5. Material and doors used for establishing exit corridors, if any, or separation between different tenant spaces, if any, shall be of fire rating as per the building requirement and mentioned in Table 1.10a, Chapter 1, UAE FIRE AND LIFE SAFETY CODE OF PRACTICE.

47.1.6. 'Mezzanine', if any, located within a room, shall not exceed one-third the open area of the room. If crosses one-third area, then it shall be considered as floor. And if mezzanine, if any, is not 'open' to the room in which it is located, then mezzanine shall have two exits.

47.1.7. Minimum SEPARATION DISTANCE between 2 EXITS shall not be less than half (1/2) the length of maximum overall diagonal dimension of the building, if the building is not sprinklered.

47.1.8. Minimum SEPARATION DISTANCE between 2 EXITS shall not be less than ONE-THIRD (1/3) the length of maximum overall diagonal dimension of the building measured as a STRAIGHT LINE between the exits (Not the travel path), if the building is highrise and is sprinklered.

47.1.9. Minimum SEPARATION DISTANCE between 2 EXITS shall not be less than ONE-THIRD (1/3) the length of maximum overall diagonal dimension of the building if the building is non-highrise and is sprinklered.

47.2. FIRE FIGHTING REQUIREMENTS

47.2.1. In this Decor job, the Provision/Acceptance of Fire Hose Reel (Or Rack) System shall be as per entire building Fire Fighting provisions. If the Fire Hose Reel is provided, Hose Stations can be either with 25 mm diameter Fire Hose Reel OR 40 mm diameter Fire Hose Rack. Hose stations shall be located beside each exit/exit stairs. And additional Hose Stations shall be provided at corridors, interior spaces such that maximum 'Travel distance' to any Hose Station shall not exceed 30 m throughout the area. The Design and Installation of Fire Hose Reel System shall comply with UAE FIRE & LIFE SAFETY CODE OF PRACTICE (Chapter 9) and Manufacturer's recommendations.

47.2.2. In this Decor job, the Provision/Acceptance of Dry Riser System shall be based on building Fire Fighting provisions. If the building has Dry Riser System, Landing Valves shall be located beside each exitway/ exit stairs. And additional Landing Valves shall be provided at corridors, interior spaces such that maximum 'Travel distance' to any Landing Valve shall not exceed 30 m throughout the area. The Design and Installation of Dry Riser System shall comply with UAE FIRE & LIFE SAFETY CODE OF PRACTICE (Chapter 9) and Manufacturer's recommendations.

47.2.3. In this Decor job, the Provision/Acceptance of Wet Riser System shall be based on building Fire Fighting provisions. If the building/facility has Wet Riser System, the same shall be provided by tapping from the existing Wet Riser System. Wet Landing Valves with Fire Hose (Hose Station) shall be located beside each exitway/exit stairs. And additional Wet Landing Valves shall be provided at corridors, interior spaces such that maximum 'Travel distance' to any Landing Valve shall not exceed 30 m throughout the area. The Design and Installation of Wet Riser System shall comply with UAE FIRE & LIFE SAFETY CODE OF PRACTICE (Chapter 9) and Manufacturer's recommendations.

47.2.4. In this Decor job, the Provision/Acceptance of Automatic Sprinkler System shall be based on building Fire Fighting provisions. If the building/facility has Automatic Sprinkler System, the same shall be provided by tapping from the existing Sprinkler Risers. The Design and Installation of Automatic Sprinkler System shall comply with UAE FIRE & LIFE SAFETY CODE OF PRACTICE (CHAPTER 9) and Manufacturer's recommendations.

47.2.5. If Sprinkler System is required and provided, the number of sprinkler heads allowed per pipe size shall be in accordance with Table 9.6. of UAE FIRE & LIFE SAFETY CODE OF PRACTICE.

47.2.6. If Sprinkler System is required and provided and if the ceiling void above the false ceiling, if any, is more than 80 cm and the floor void spaces, if any, with combustible materials, sprinkler heads shall be provided.

47.2.7. If Foam system is required in this Decor job, it shall be submitted through the Contractor for Approval.

47.2.8. If Clean Agent system is required in this Decor job, it shall be submitted through the Contractor for Approval.

47.2.9. If Wet Chemical system is required in this Decor job, it shall be submitted through the Contractor for Approval.

47.2.10. If pre-action/water spray/water mist system is required in this Decor job, it shall be submitted through the Contractor for Approval.

47.2.10. If the Automatic Sprinkler System is already available in the facility, the sprinkler heads shall be relocated and rearranged to comply with coverage, distance from obstructions, spacing and 'sprinkler installation' requirements as per UAE FIRE & LIFE SAFETY CODE OF PRACTICE, Chapter 9.

47.4. FIRE DETECTION AND ALARM SYSTEM

47.4.1. Addressable Automatic Fire Detection and Alarm System shall be provided.

47.4.2. If the Automatic Fire Detection System is already available in the facility, the detectors shall be relocated and rearranged to comply with coverage, distance from obstructions, spacing and 'Detector installation' requirements as per UAE FIRE & LIFE SAFETY CODE OF PRACTICE, Chapter 8.

47.4.3. Above false ceiling spaces with height more than 800 mm (2.6 ft) and Below raised floor spaces with height 350 mm (1.1 ft) shall be provided with optical smoke detectors, complete with remote response indicators.

47.4.4. Where partitions, if any, within rooms are of height more than 85% of the room ceiling height, areas separated by such partitions shall be considered as separate rooms and provided with detectors.

47.4.5. For ceilings having beams more than 350 mm (1.1 ft) depth, each beam pocket shall be provided with detectors as per spacing requirements.

47.4.6. For ceiling heights more than 12 m. (39.5 ft) and where spot type smoke detectors are not suitable because of ceiling height limitations or complex beam structures, Beam type smoke detectors shall be provided.

47.4.7. Air Sampling type smoke detectors, where installed, shall be designed as per manufacturer's approved software based calculations (Fluid Dynamic Calculations). However, the maximum smoke transport time from the farthest sampling point shall not exceed 120 seconds. The Air Sampling Piping network throughout the area shall be identified with clear signage as "Smoke Detection Piping-Do not tamper".

47.4.8. Closed (Enclosed) Kitchen and Pantries, if any, shall be provided with Heat Detectors. Open Kitchen, Pantries (like in Studios), if any, shall be provided with Multi-Sensors.

47.4.9. Sounder based Detectors shall be provided for the bedrooms and sleeping areas, if any.

47.4.10. Manual fire alarm boxes (Manual Pull Stations) shall be installed at 200 ft (60 m) intervals on the travel path, natural exit paths near exit stairs and exit doors.

47.4.11. Main Fire Alarm Control Panel (FACP), if any, shall be located at manned areas under continuous supervision such as control rooms, security rooms, reception areas, BMS areas etc. and shall be interfaced with building FACP, unless the provision of Fire Alarm System is by tapping the existing building Fire Alarm System.

47.4.12. Fire Alarm interfaced operations such as release of hold-open devices for doors, pressurization of Stairwell / Elevator, Smoke management, unlocking of doors, Elevator recall, 24x7 relays & shutdown of equipment, shutdown of fuel supply etc. shall be arranged to be accomplished automatically without delay.

47.4.13. Design and Installation of Fire Detection and Alarm System shall comply with UAE FIRE & LIFE SAFETY CODE OF PRACTICE (Chapter 8), NFPA 70, NFPA 72 and Manufacturer's recommendations.

47.5. EMERGENCY LIGHTING SYSTEM

47.5.1. Emergency Lighting System shall be provided throughout the facility.

47.5.2. If the Emergency Lighting System is already available in the facility, the luminaries shall be relocated and rearranged to comply with location, lux level and 'Emergency lighting installation' requirements as per UAE FIRE & LIFE SAFETY CODE OF PRACTICE, Chapter 6.

47.5.3. Stand alone Self Contained Emergency Lighting Luminaries are not allowed, unless the Main building has existing, approved Self Contained Emergency Lighting System.

47.5.4. Emergency Lighting System shall be with control panel for monitoring of each luminaries for Low battery, Fault etc.

47.5.5. Emergency Lighting shall be capable of functioning for not less than 3 hours in the event of Interruption of normal lighting, public utility and outside electrical power supply.

47.5.6. Emergency Lighting shall serve in case of Manual or accidental opening of a circuit breaker or fuse.

47.5.7. Emergency Lighting shall provide initial illumination that is not less than an average of 1 ft-candle (10.8 lux) and at any point not less than 0.1 ft-candle (1.1 lux), measured along the path of egress at floor level.

47.5.8. Wires shall be fire rated. Unit equipment and battery systems for emergency luminaires shall be listed and approved by international testing laboratories and Civil Defence.

47.5.9. If Central Battery Emergency Lighting is provided, System shall be in a cross-zoned arrangement with atleast two separate circuits overlapping in each area.

47.5.10. The Design, Material requirement and Installation of Emergency Lighting System shall comply with UAE FIRE & LIFE SAFETY CODE OF PRACTICE (Chapter 6). and Manufacturer's instructions.

47.5.11. Emergency Lighting Luminaries shall be dedicated. (Convertible Lighting Fixtures are not acceptable)

47.6. ILLUMINATION (NORMAL LIGHTING) OF MEANS OF EGRESS

47.6.1. Continuous illumination shall be provided for exits, exit corridors, exit stairs, ramps, aisles, escalators, walkways leading to publicways.

47.6.2. Automatic, motion sensor-type lighting switches permitted, if switch controllers are fail safe and set for minimum of 15 minutes operation.

47.6.3. Minimum illumination shall be of of 1 ft-candle (10.8 lux) for floor and walking surfaces. And minimum illumination shall be of 10 ft-candle (108 lux) for stairs.

47.6.4. Photoluminescent marking of Means of Egress' equipment & units are permitted to serve the function of illumination.

47.6.5. Battery operated electric lights & portable lamps/ lanterns shall not be used for primary illumination of means of egress.

47.7. EXIT SIGNS (MARKING OF MEANS OF EGRESS)

47.7.1. Approved Exit Signs and directional signs with a directional indicator showing the direction of travel shall be installed throughout the facility.

47.7.2. Exit Signs shall be easily visible from any direction of exit access.

47.7.3. Tactile signage shall be located at each exit door requiring an exit sign.

47.7.4. Access to exits shall be marked by approved signs.

47.7.5. Sign placement shall be within rated viewing distance of 100 ft (30 m).

47.7.6. Externally illuminated or internally illuminated floor proximity signs (Photoluminescent) shall be installed for floor proximity egress path marking.

47.7.7. Signs shall be located at a vertical distance of not more than 6 ft 8 in. (2030 mm) from above the egress opening to the bottom of the sign.

47.7.8. No decorations, furnishings, or equipment that impairs the visibility of a sign shall be permitted.

47.7.9. The Design, Material requirements and Installation of Exit Signs shall comply with UAE FIRE & LIFE SAFETY CODE OF PRACTICE, Chapter 5.

47.8. PORTABLE FIRE EXTINGUISHERS

47.8.1. Portable Fire Extinguishers shall be provided throughout the facility, in compliance with UAE FIRE & LIFE SAFETY CODE OF PRACTICE (CHAPTER 4, TABLE 4.3).

47.8.2. Portable Fire extinguishers shall be located along normal paths of travel, including exits from areas.

47.8.3. Gross weight of the Portable Extinguishers not exceeding 40 lb (18.14 kg) shall be installed such that the top of the fire extinguisher is not more than 5 ft (1.53 m) above the finished floor.

47.8.4. Gross weight of the Portable Extinguishers exceeding 40 lb (18.14 kg), except Wheeled types, shall be installed such that the top of the fire extinguisher is not more than 3.5 ft (1.07 m) above the finished floor.

47.8.5. All the Portable Fire Extinguishers shall be fully charged and ready for use in case of an emergency.

47.9. PROTECTION OF VARIOUS ROOMS AND HAZARDOUS AREAS, IF ANY

47.9.4. LV Room, Main Telephone Room, BMS Room, Server Room, Control Room, if any, shall be protected with Clean Agent Suppression System.

47.9.11. Generator Room, Paint Storage Room, Paint booth, Flammable & Combustible Liquid Storage Room, if any in a fully sprinklered facility, shall be protected with Foam Suppression System.

47.10. INTERIOR WALL AND CEILING FINISH

47.10.1. Interior wall and ceiling finish shall be either Class A or Class B.

47.11. INTERIOR FLOOR FINISH

47.11.1. Floor Finish shall be either Class I or Class II.

47.12. SMOKE CONTROL SYSTEM, IF ANY

47.12.1. In this Decor job, the Provision/Acceptance of Smoke Control System shall be based on building Smoke Control provisions. The Design and Installation of Smoke Control System shall comply with UAE FIRE & LIFE SAFETY CODE OF PRACTICE (CHAPTER 10) and Manufacturer's recommendations.

47.12.2. If smoke extraction is part of the Smoke Control strategy, Smoke extraction shall be initiated only in the Exit corridor and only when alarm is triggered by the Exit corridor fire detectors. While, alarm initiation is not from exit corridor but from interior spaces (such as Dwelling units, Tenant spaces, inside office spaces etc.), Smoke extraction shall not be triggered automatically.

47.12.3. In Zone smoke control (sandwich type pressurization) system, if any, pressure difference shall be established, where if the alarm initiation is from the Exit corridor, then floor above and floor below the fire floor shall be pressurized. While, if the alarm initiation is not from Exit corridor but from inside spaces (such as Dwelling units, Tenant spaces, inside office spaces etc.), then floor above, floor below and the fire floor corridors shall be pressurized.

47.12.4. In a smoke purging strategy, if any, minimum of 9 air changes per hour shall be established.

47.12.5. Smoke removal system, for fire fighters, shall be provided where there are no natural ventilation openings or operable panels or windows.

47.13. EMERGENCY VOICE EVACUATION SYSTEM, IF ANY

47.13.1. In this Decor job, the Provision/Acceptance of Emergency Voice Evacuation System shall be based on building Voice Evacuation System provisions. The Design and Installation of Emergency Voice Evacuation System shall comply with UAE FIRE & LIFE SAFETY CODE OF PRACTICE (Chapter 7) and Manufacturer's recommendations.

47.13.2. Voice evacuation, if provided, shall be by means of clearly visible and audible signals and voice announcements, either live or prerecorded as per the building evacuation strategy.

47.14. GUARDS AND HANDRAILS

47.14.1. Guards shall be provided at the open sides of means of egress which exceeds 760 mm above the floor or grade below.

47.14.2. Height of the guards/handrails, if any, shall be not less than 1200 mm from the base surface to the top of guard.

47.14.3. Handrails, if any, should be within 865 mm - 965 mm from the surface of the tread.

47.14.4. Handrails shall be provided on both sides of Stairs, Spiral Stairs, Ramps, Bridges etc., if any.

47.15. LIFTS/ELEVATORS, IF ANY

47.15.1. 100% egress capacity shall be independent of elevators, if any.

47.15.2. On every floor, if there is an elevator, there shall be an elevator lobby which should be arranged as a smoke barrier, having not less than 1 hour fire rating.

47.15.3. Elevator lobbies, if any, shall have access to at least one exit.

47.16. MIXED AND INTERMINGLED OCCUPANCIES, IF ANY

47.16.1. If there are mixed, multiple, intermingled occupancies in this Decor job, the Occupant Load, Commonpath, Dead-ends, Travel Distances in these sub occupancies shall be as per Table 3.6A &

70. OTHER CIVIL DEFENCE REQUIREMENTS

70.1. All the Companies and their employees engaged in Designing, Procuring, Executing, Testing and Commissioning this project with respect to Life Safety, Fire Safety and Emergency Services shall be Approved and Registered by Dubai Civil Defence.

70.2. All the Materials, Systems, Assemblies, equipment, Products and Accessories, with respect to Life Safety, Fire Safety and Emergency Services shall be Listed, Approved and Registered by Dubai Civil Defence Material Approval Department.

70.3. Fire Safety during the construction and execution of this project shall be in accordance with CHAPTER 12, UAE FIRE & LIFE SAFETY CODE OF PRACTICE.

70.4. Fire water system piping, if any, shall be painted with DCD approved red colour.

70.5. LPG system piping, if any, shall be painted with DCD approved yellow colour.

70.6. If any structure/Special structure/Equipment/Installation to be qualified as 'Temporary' or 'Temporary arrangement', shall be occupied, used or demonstrated for a period less than 6 months from the date of erection or construction.

70.7. ONLINE DRAWING SUBMISSION REQUIREMENTS

70.7.1. All drawings attached for review shall be in PDF FORMAT. PDF file name shall be only English and numeric characters WITHOUT SPACE, clearly mentioning the last digits of application number, floor number, Type of System etc. for example, 10049xFirst floorxAxFaxFFxVxEMxSM (Depicting clearly the last digits of APPLICATION NUMBER and it is First Floor, Architecture, Fire Alarm, Fire Fighting, Voice Alarm, Emergency Lighting and Smoke Control Layout)

70.7.2. All the PDF floor plans, system drawings floorwise shall be rotated for straight view and combined into a single PDF file with multiple pages to enable scrolling (MERGED into a single file with file name as in clause 70.7.1.)

70.7.3. Submissions not complying to clauses 70.7.1. and 70.7.2. shall not be reviewed. (Please refer to e-ENGINEERING USER MANUAL for more details.)