Australian Elevator Association

October 2023

Industry Position Paper IPP08

Subject: Emergency Lifts - Defined

There are various references with regards to 'Emergency Lifts,' contained in the National Construction Code 2022 and other relevant standards and below are some of the reference documents and specific clauses.

NCC requirements (NCC 2022 Volume 1)

Refer to NCC 2022 – E3D5 Emergency lifts (NCC 2019 – E3.4) for full details but in part it requires the following:

- Any building which has an effective height =/> 25 m requires at least one (1) 'emergency lift'
- Class 9a building require an 'emergency lift' if the patient care area does not have direct egress to a road or open space.
- All storeys of a building requiring an 'emergency lift' must be served by an 'emergency lift'
- Where two (2) or more passenger lifts are installed, and they serve the same storeys at least two (2) lifts are required to be 'emergency lifts' and if located in different shafts at least one (1) in each shaft, examples below.

BASIC EXAMPLES – (X indicates levels served**)**

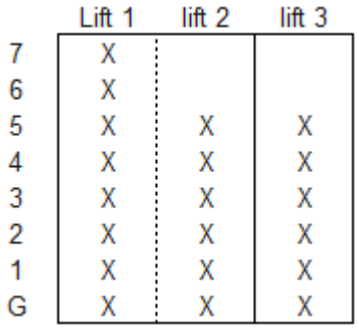
1. – a triplex installation in this configuration would require that ***all*** 3 lifts would need to be classified as '***emergency lifts***'

	Lift 1	lift 2	lift 3
6	X		
5	X	X	
4	X	X	
3	X	X	
2		X	
1			X
G	X	X	X
B	X	X	X

2. a triplex installation in this configuration would require that Lift 1 and ***either*** Lift 2 or 3 would need to be classified as '***emergency lifts***.

	Lift 1	lift 2	lift 3
7	X		
6	X	X	X
5	X	X	X
4	X	X	X
3	X	X	X
2	X	X	X
1	X	X	X
G	X	X	X

3. – a triplex installation in this configuration would require that Lift 1 ***and*** Lift 3 would need to be classified as '***emergency lifts***



	Lift 1	lift 2	lift 3
7	X		
6	X		
5	X	X	X
4	X	X	X
3	X	X	X
2	X	X	X
1	X	X	X
G	X	X	X

- Emergency lift/s must be contained in a fire-resisting shaft (120/120/120)
- In Class 9a buildings where the lifts serve a patient care area,
  - Have minimum internal dimensions of 2280 mm Deep x 1600mm Wide x 2300 High (clear of all obstructions including handrails) as per Table E3D5
  - Have minimum door width =/> 1300 mm
  - Be connected to standby power system if installed.
- If the building has an effective height of =/> 75 m
  - Have a minimum load of 600 kg (if not stretcher compliant)
  - Have a minimum load of 900 kg (if stretcher compliant)

Electrical requirements (ASNZS 3000)

Refer to ASNZS 3000:2018 Incl. Amdt. 1&2 Clause 7.2:

- In the previous editions of ASNZS 3000 Safety Services were noted as Emergency Systems
- Clause 7.2 Safety Services is comprehensive and should be read and conditions of compliance understood.
- Clause 7.2 Safety Services – refers to the requirements of safety for persons using lifts,
- Escalators and moving walks do not need to comply with ASNZS 3000 Clause 7.2 Safety Services
- Lifts in private residences do not need to comply with ASNZS 3000 Clause 7.2 Safety Services
- The WS (wiring system) shall be capable of maintaining supply when exposed to fire or mechanical damage.
- Conductors supplying 'safety services' shall be physically separated from all other WS by at least 50 mm or by suitable barriers this includes other 'safety services' WS.

General Comments

- Emergency lifts are not labelled or required to be labelled, so just by standing in the foyer/lift lobby you would not be able to identify which lift/s are the emergency lifts.
- Located within emergency lift/s is a Warden Intercom Phone (WIP).
- Emergency lifts and fire service requirements are not uniquely related in the NCC.

RECOMMENDATIONS

- The AEA recommends that a label like the examples below be placed on or adjacent to the 'Fire Alarm Panel' indicating which lifts are 'Emergency Lifts' and what 'levels' they serve.

  These are examples of a label that relates to scenario 2 above – (details & size of lettering as per NCC Vol 1 - E3D4 (3) (a) & (b) 'Warning sign for passenger lifts).

Emergency Lift 1
Serves Floors G/1/2/3/4/5/6/7.

Emergency Lift 2
Serves Floors G/1/2/3/4/5/6.

or

Emergency Lifts
Lift 1
Serves Floors G/1/2/3/4/5/6/7.

Lift 2
Serves Floors G/1/2/3/4/5/6.

Clarifications

- Consult the AEA, lift OEM or lift maintenance provider for further information or clarification.

Version Control

Version	Description	Author	Date
V1.0	Draft	ML/AEA	1/08/2023
V1.1	Final for Publication	ML/NS	25/10/2023