



# MALAYSIAN STANDARD

MS 1184:2014,  
AMD. 1:2017

**Universal design and accessibility in the built  
environment - Code of practice  
(Second revision)**

**AMENDMENT 1**

**ICS: 25.060.10**

Descriptors: universal design, disabled persons, ambulant disabled, access, landscape, signs and symbols, facilities, lifts, requirement

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**DEPARTMENT OF STANDARDS MALAYSIA**

## AMENDMENT OF MALAYSIAN STANDARD

## MALAYSIAN STANDARD

## MS 1184:2014

## UNIVERSAL DESIGN AND ACCESSIBILITY IN THE BUILT ENVIRONMENT - CODE OF PRACTICE (SECOND REVISION)

(1) **Clause 15, Lifts, page 58**

For Clause 15, it shall be read as follows;

**15 Lifts****15.1 General comments**

All accessible levels of a building shall be accessible with ramps or lifts. Lifts are preferable, and shall be accessible for all people, including people with disabilities.

At least one lift car, adjacent to a building entrance that is accessible for disabled persons, shall be designed as a lift for wheelchair users.

**15.2 Inner dimensions of cars**

**15.2.1** The inner dimensions of car shall fulfil the minimum accessibility requirements. The minimum inner dimensions of cars which are accessible for a wheelchair user are given in Table 7 and Figure 34.

**Table 7. Type of lifts**

Type of lift	Minimum car dimensions	Minimum entrance width	Accessibility level
Type 1	1 000 mm (w) x 1 250 mm (d)	900 mm	This car accommodates one wheelchair user
Type 2	1 100 mm (w) x 1 400 mm (d)	900 mm	This car accommodates one wheelchair user and one accompanying person
Type 3	2 000 mm (w) x 1 400 mm (d)	1 100 mm	This car accommodates one wheelchair user and several other users. It also allows a wheelchair to be rotated in the car

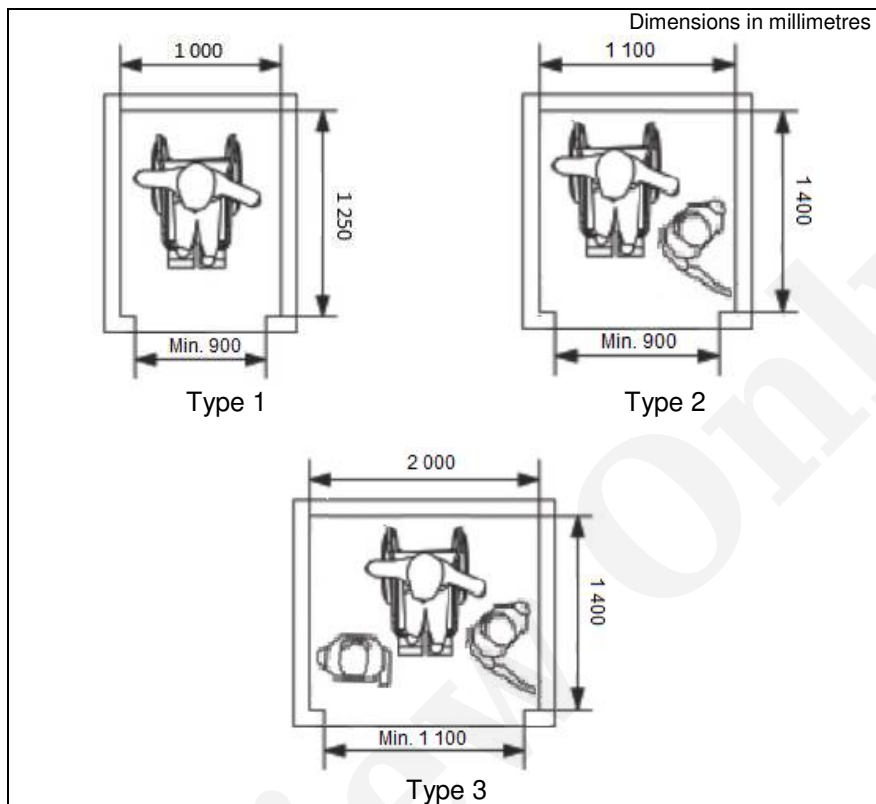


Figure 34. Examples of lifts

**15.2.2** If a trolley with a stretcher is considered, the minimum inner dimensions of cars shall be 1 100 mm x 2 100 mm. A minimum unobstructed entrance width of 900 mm shall be provided on the narrow side of the car (see Figure 35).

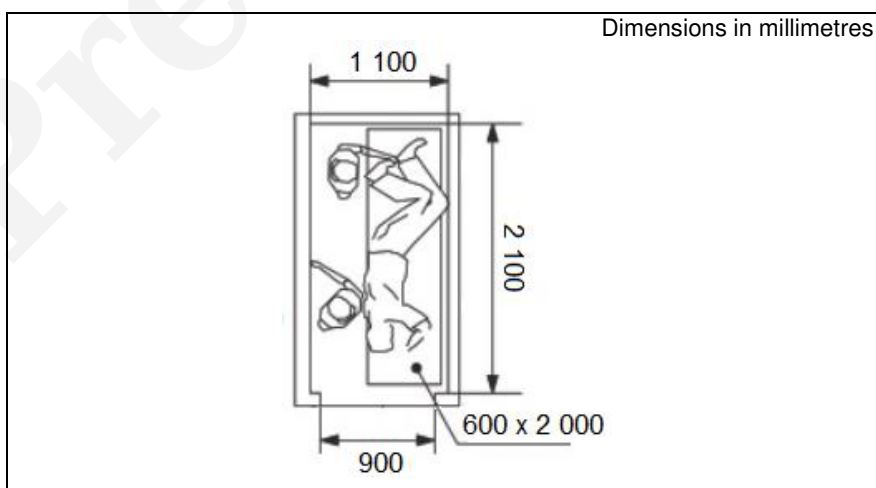


Figure 35. Example of stretcher lift

**15.2.3** If healthcare lift car is to be considered, the minimum inner dimensions of car shall be as follows;

- a) 1 200 mm x 2 300 mm to be considered for bed dimensions of 900 mm x 2 000 mm with minimum door width of 1 100 mm;
- b) 1 500 mm x 2 700 mm to be considered for bed dimensions of 1 000 mm x 2 300 mm with minimum door width of 1 300 mm; and
- c) 1 800 mm x 2 700 mm to be considered for additional instruments bed dimensions of 1 000 mm x 2 300 mm with minimum door width of 1 300 mm.

### **15.3 Lift entrances**

**15.3.1** Accessibility of the landing is required on all eligible floors.

**15.3.2** The unobstructed entrance width<sup>1)</sup> shall be in accordance with 15.2.

**15.3.3** The car and landing doors shall be constructed as automatic power operated horizontally sliding doors.

**15.3.4** The colour and tone of the lift entrances should contrast with the surrounding wall finishes (see Clause 33).

**15.3.5** The door dwell time shall be adjustable to suit the conditions where the lift is installed (normally between 2 s and 20 s). A mechanism to increase this time shall be installed to be customised by a user with mobility impairments (e.g. by means of a button outside the car to call the lift to the floor for it to arrive with extended door opening time, and a button marked with a wheelchair symbol inside the car with the same purpose). There should not be any obstruction to the call button e.g. dustbin.

**15.3.6** A presence sensor device shall cover the opening over the distance between at least 25 mm and 1 800 mm above the car door sill (e.g. light curtain). The device shall be a sensor which minimises the likelihood of physical contact between the user and the leading edges of the closing panel(s).

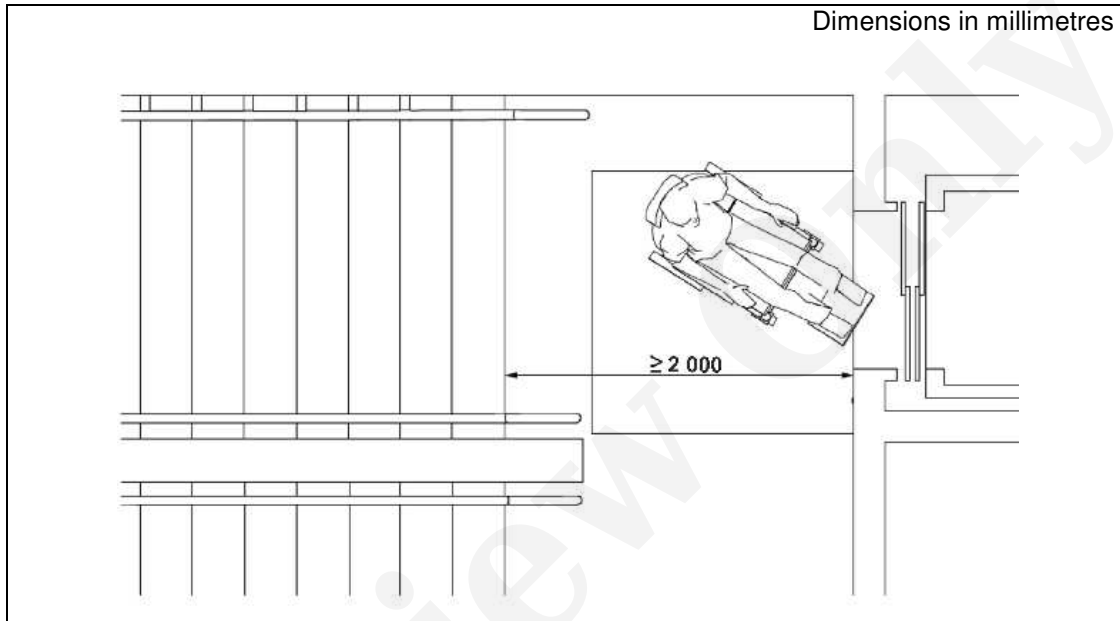
**15.3.7** Sufficient manoeuvring space outside the lift entrance shall be provided according to 19.3 and B.6.1. The manoeuvring space should not be in any circulation route nor directly opposite to any stair circulation. If a stair is situated opposite the entrance, the distance to the stair shall be at least 2 000 mm to allow safe manoeuvring (see Figure 36).

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<sup>1)</sup> Entrance width shall also refer to door width

**15.3.8** The manoeuvring area shall be adequately lit with a minimum illumination of 100 lux.

**15.3.9** In order to aid in location of the lift entrance, a distinguishable floor surface of approximately 1 500 mm x 1 500 mm should be installed outside the doors. This could be obtained by means of a change of colour or floor finish. Changes in floor finish should be flush.



**Figure 36. Manoeuvring space outside the car door opposite a stair**

#### **15.4 Equipment in the car**

##### **15.4.1 Handrail**

Refer to 14.3.

##### **15.4.2 Seat**

Where a fold-up seat is provided, it shall have:

- a top height from the floor of  $500\text{ mm} \pm 20\text{ mm}$ ;
- a depth of 300 mm to 400 mm;
- a width of 400 mm to 500 mm; and
- an ability to support a minimum load of 150 kg; where 200 kg is recommended, considering the increasing number of obese people in the worldwide population.