IS 14665 (Part 1): 2000

Table 1 Recommended Dimensions of Passenger Lifts as per IS14665
(Clauses 5.3 and 6.1)
All dimensions in millimetres

Person	Load (kg)	Car inside Width(mm) - A	Car inside Depth(mm) - B	Lift well width(mm) - C	Lift well depth(mm)- D	Entrance (door size in mm)- E
4	272	1100	700	1900	1300	700 (minimum)
6	408	1100	1000	1900	1700	700 (minimum)
8	544	1300	1100	1900	1900	800
10	680	1300	1350	1900	2100	800
13	884	2000	1100	2500	1900	900
16	1088	2000	1300	2500	2100	1000
20	1360	2000	1500	2500	2400	1000

NOTES

1. In case of manually operated doors, clear entrance will be reduced by the amount of projection of handle on the landing door.
2. All dimensions given above for lifts having centre opening power operated doors with counterweight at rear, are recommended dimensions primarily for architects and building planners. Any variations mutually agreed between manufacturer and purchaser are permitted. However, variation in:
   i) Car inside dimensions shall be within the maximum area limits specified in ‘5 of IS 14665 (Part 3/See 1).
   ii) Entrance width on higher side is permitted.
   iii) Entrance width on lower side is permitted up to 100mm subject to minimum of 700 mm.

Table 1A Recommended Dimensions of Pit, Overhead and Machine-Room for Passenger Lifts as per IS14665
(Clauses 5.3 and 6.1)
All dimensions in millimetres

Speed in m/s	Up to 0.70	>0.70<=1.00	>1.00<=1.50	>1.50<=1.75	>1.75<=2.00	>2.00<=2.5
Pit depth	1350	1500	1600	2150	2200	2500
Overhead	4200	4250	4800	4800	5200	5400
Machine room Depth	D + 2000			D + 2500		
Machine room Width	C + 1000		C + 1200		C + 1500	

NOTES

1. The total overhead dimension has been calculated on the basis of car height of 2.3m
2. In case of manually operated doors, clear entrance will be reduced by the amount of projection of handle on the landing door.
3. All dimensions given above for lifts having centre opening power operated doors with counterweight at rear, are recommended dimensions primarily for architects and building

planners. Any variations mutually agreed between manufacturer and purchaser are permitted. However, variation in:

i) Car inside dimensions shall be within the maximum area limits specified in ‘5 of IS 14665 (Part 3/See 1).
ii) Entrance width on higher side is permitted.
iii) Entrance width on lower side is permitted up to 100mm subject to minimum of 700 mm.

4. Dimensions of pit depth and overhead may differ in practice as per individual manufacturer’s design depending upon load, speed and drive. Recommended dimensions for pit depth, overhead and machine-room for different lift speeds are given in Table 1A. However, the pit depth and overhead shall be such as to conform to the requirements of bottom clearance and top clearance as per 4.5 of the IS 14665 (Part 2/See 1)

Table 2 Recommended Dimensions of Goods Lift as per IS14665
(For Speeds Up to 0.5 m/s)
(Foreword, Clauses 5.3 and 6.1)
All dimensions in millimetres

Load (kg)	**Car inside Width(mm) - A**	**Car inside Depth(mm) - B**	**Lift well width(mm) - C**	**Lift well depth(mm)- D**	**Entrance (door size in mm)- E**
500	1100	1200	1900	1500	1100
1000	1400	1800	2300	2100	1400
1500	1700	2000	2600	2300	1700
2000	1700	2500	2600	2800	1700
2500	2000	2500	2900	2800	2000
3000	2000	3000	2900	3300	2000
4000	2500	3000	3400	3300	2500
5000	2500	3600	3400	3900	2500

NOTES

5. The width of machine-room shall be equal to the lift well width ‘C’ subject to minimum of 2500 mm.
6. The total headroom has been calculated on the basis of a car height of 2.2 m.
7. Clear entrance width ‘E’ is based on vertical lifting car-door and vertical biparting landing doors. For collapsible mid-bar doors the clear entrance width will be reduced by 200 mm (maximum 1800 mm).
8. All dimensions given above are recommended dimensions primarily for architects and building planners. Any variations mutually agreed between manufacturer and purchaser are permitted. However variation in car inside dimensions shall be within the maximum area limits specified in IS 14665 (Part 3/See 1).
9. Dimensions of pit depth and overhead may differ in practice as per individual manufacturer’s design depending upon load, speed and drive. However, the pit depth and overhead shall be such as to conform to the requirements of bottom clearance and top clearance of 1S 14665 (Part 2/See 1)

Table 3 Recommended Dimensions of Hospital Lifts as per IS14665
(For Speeds Up to 1.5 M/s)
(Clauses 5.3 and 6.1)
All dimensions in millimetres

Person	Load (kg)	Car Inside Width(mm) - A	Car Inside Depth(mm) - B	Lift well width(mm) - C	Lift well depth(mm)- D	Entrance (door size in mm)-E
15	1020	1000	2400	1800	3000	800
20	1360	1300	2400	2200	3000	1200
26	1768	1600	2400	2400	3000	1200

NOTE

1. The total headroom has been calculated on basis of car height of 2.2 m.
2. In the case of manually-operated doors, clear entrance will be reduced by the amount of projection of handle on the landing door.
3. Although 15 persons capacity lift is not standard one, this is included to cover lifts of smaller capacity which can be used in small hospitals.
4. All dimensions given above are recommended dimensions primarily for architects and building planners. Any variations mutually agreed between manufacturer and purchaser are permitted. However, variation in car inside dimensions shall be within the maximum area limits specified in 1S 14665 (Part 3/See 1).
5. Dimensions of pit depth and overhead may differ in practice as per individual manufacturer's design depending upon load, speed and drive. However, the pit depth and overhead shall be such as to conform to the requirements of bottom clearance and top clearance of IS 14665 (Part 2/See 1).

Table 4 Recommended Dimensions of Service Lifts as per IS14665
(For Speeds Up to 0.5 m/s)
(Clauses 5.3 and 6. 1)
All dimensions in millimetres.

Load		Car inside		Lift well		Entrance
kg (1)	A (2)	B (3)	H (4)	C (5)	D (6)	E (7)
100	700	700	800	1200	900	700
150	800	800	900	1300	1000	800
200	900	900	1000	1400	1100	900
250	1000	1000	1200	1500	1200	1000

NOTE

1. Entrance width 'E' is based on assumption of provision of vertical biparting doors (no car door is normally provided)
2. Caution: There seems to be an error in the dimension table for service lift provided in IS14665