

Table 1.1

Rated load, mass kg	Maximum available car area m ²	Rated load, mass kg	Maximum available car area m ²
100 ¹⁾	0,37	900	2,20
180 ²⁾	0,58	975	2,35
225	0,70	1000	2,40
300	0,90	1050	2,50
375	1,10	1125	2,65
400	1,17	1200	2,80
450	1,30	1250	2,90
525	1,45	1275	2,95
600	1,60	1350	3,10
630	1,66	1425	3,25
675	1,75	1500	3,40
750	1,90	1600	3,56
800	2,00	2000	4,20
825	2,05	2500 ³⁾	5,00

1) Minimum for 1 person lift.
2) Minimum for 2 persons lift.
3) Beyond 2500 kg add 0,16 m² for each extra 100 kg.
For intermediate loads the area is determined by linear interpolation.

8.2.2 Goods passenger lifts

The requirements of 8.2.1 shall be applied and, in addition, design calculations shall take into account not only the rated load but also the weight of handling devices, which may enter the car.

8.2.3 Number of passengers

The number of passengers shall be obtained from:

- a) either, the formula, $\frac{\text{rated load}}{75}$, and the result rounded down to the nearest whole number, or
- b) **table 1.2** which gives the smaller value.

Table 1.2

Number of passengers	Minimum available car area m ²	Number of passengers	Minimum available car area m ²
1	0,28	11	1,87
2	0,49	12	2,01
3	0,60	13	2,15
4	0,79	14	2,29
5	0,98	15	2,43
6	1,17	16	2,57
7	1,31	17	2,71
8	1,45	18	2,85
9	1,59	19	2,99
10	1,73	20	3,13

Beyond 20 passengers add 0,115 m² for each extra passenger.

8.3 Walls, floor and roof of the car

8.3.1 The car shall be completely enclosed by walls, floor and roof, the only permissible openings being as follows:

- a) entrances for the normal access of users;
- b) emergency trap doors and doors;
- c) ventilation apertures.

8.3.2 The walls, floor and roof shall have sufficient mechanical strength. The assembly comprising the sling, guide shoes, walls, floor and roof of the car shall have sufficient mechanical strength to resist the forces which will be applied in normal lift operation, in safety gear operation or impact of the car on its buffers.

8.3.2.1 Each wall of the car shall have a mechanical strength such that when a force of 300 N, being evenly distributed over an area of 5 cm² in round or square section, is applied at right angles to the wall at any point from the inside of the car towards the outside, it shall:

- a) resist without any permanent deformation;
- b) resist without elastic deformation greater than 15 mm.

8.3.2.2 Walls with glass shall use laminated glass and, additionally withstand the pendulum shock tests, described in **annex J**.

After the tests the safety function of the wall shall not be affected.

Car walls with glass placed lower than 1,10 m from the floor shall have a handrail at a height between 0,90 m and 1,10 m. This handrail shall be fastened independently from the glass.