



Guidance on sizing lifts to suit the movement of furniture and goods

This guide offers advice on the size of lifts for the movement of goods and furniture in residential developments. At least one passenger lift in a core of lifts is usually identified for the purpose of moving goods and/or furniture to upper levels.

Lift sizes

Outlined in Table 1 below are the standard internal sizes of a range of lift car and the maximum lift door opening size available for the lift.

Lift capacity	Lift Car width	Lift Car depth	Lift Car height	Door opening
8 Person 630kg	1100	1400	2300	900w x 2100h
10 Person 800kg	1350	1400	2300	1000w x 2100h
13 Person 1000kg Wide Car	1600	1400	2300	1100w x 2100h
13 Person 1000kg Deep Car	1100	2100	2300	900w x 2100h
17 Person 1275kg Wide Car	2000	1400	2300	1100w x 2100h
17 Person 1275kg Deep Car	1200	2300	2300	1100w x 2100h
21 Person 1600kg Wide Car	2100	1600	2300	1300w x 2100h
21 Person 1600kg Deep Car	1400	2400	2300	1300w x 2100h

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Furniture sizes

The London Housing Guide Appendix 2 (Page 94) gives some guidance on typical furniture sizes.

The sizes provided in the guidelines are plan sizes only so the heights have been estimated for the purposes of this document.

As furniture sizes can differ widely, this information is provided as a guide only. There will be items that are larger or smaller than the details below.

Cundall's vertical transportation team offers a full range of lift and escalator consultancy services. The Cundall team has in excess of 100 years of combined knowledge and experience in lift and escalator traffic analysis, design, installation, refurbishment, modernisation, replacement and maintenance covering all types of lifts, escalators and moving walkways.

Notes for Guidance

Whilst the movement of many pieces of furniture is possible, the requirement to manhandle the furniture into some of the smaller lifts and to have to stand it on end may not be desirable.

Heavy pieces of furniture, which are larger than the door width, would be difficult to manoeuvre into the lift.

It should be considered that when moving of large pieces of furniture within a small lift car, there is a higher likelihood of the furniture coming into contact with the lift car interior and causing damage.

Cycles if stood vertically on their rear wheel would be able to fit within any of the lift sizes above, though this may lead to inadvertent contact with, and damage, of the lift car interior.

The table below outlines a range of typical items of furniture and their sizes and identifies which size of lift could accommodate those items.

Item of furniture	Dimensions (w x d x h)	8 Person Car	10 Person Car	13 Person Wide Car	13 Person Deep Car	17 Person Wide Car	17 Person Deep Car	21 Person Wide Car	21 Person Deep Car
Armchair	850 x 850 x 1000	✓	✓	✓	✓	✓	✓	✓	✓
2 Seater sofa	1300 x 850 x 1000		✓	✓	✓	✓	✓	✓	✓
3 Seater sofa	1850 x 850 x 1000				✓		✓	✓	✓
Single bed	900 x 2000 x 800				✓		✓	✓	✓
Double bed	1500 x 2000 x 800				✓		✓	✓	✓
Double wardrobe	1200 x 600 x 2000		✓	✓	✓	✓	✓	✓	✓
Small fridge	600 x 600 x 800	✓	✓	✓	✓	✓	✓	✓	✓
Tall fridge	600 x 600 x 2000	✓	✓	✓	✓	✓	✓	✓	✓
Bicycle	700 x 1800 x 1000				✓		✓		✓

All dimensions are in mm. w = width, d = depth, h = height

Cundall Vertical Transportation Services

- Surveys, audits & inspections – maintenance, dilapidation, accessibility, building sale, acquisition, installation progress and installation acceptance
- Statutory compliance assessment and reporting
- Traffic analysis studies and reports - new build, building refurbishment, and change of use
- Concept and detailed design for new lift or escalator installations
- Technical and performance specifications
- Assessment and specification of refurbishment and modernisation of existing lifts or escalators
- Energy use and environmental impact - assessment, report and recommendations (including BREEAM / LEED)
- Project management of lift or escalator works
- Installation acceptance witness testing
- Development of client-specific maintenance contracts
- Maintenance management

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