

SECTION 13—SERVICE LIFTS

13.1 COMPLIANCE

Service lifts shall comply with the foregoing rules except where instructions to the contrary are given in the rules that follow.

13.2 CONTRACT LOAD

The machine, supporting structure, car and all parts and equipment of a lift shall be designed and constructed to safely carry a contract load of not less than 220 kilograms per square metre based on the car floor area.

A load plate bearing the contract load in kilogrammes shall be fitted at each landing in a conspicuous position.

Refer to NZBC F8 Signs.

13.3 WINDING MACHINE

13.3.1 Position

The winding machine, together with its control mechanism and ancillary equipment, may be placed in the area of the liftwell above the limits of the car travel provided suitable access is provided.

Note: No lift machine shall be hung from the overhead supporting beams.

13.3.2 Lifting Beam

A beam for lift machine parts need not be provided.

13.4 CLEARANCES

13.4.1 Car Bottom Clearance

The car bottom clearance shall be such that when the car rests on completely compressed buffers the distance between the underside of the car (guide shoes or rollers, safety gear, toe guards and other equipment round the perimeter of the car excluded) and the bottom of the pit shall be at least 150 mm.

13.4.2 Car Top Clearance For Lifts With Counterweights

The car top clearance for lifts with counterweights shall be not less than the sum of the following dimensions:

- the bottom counterweight runby.
- 1.5 times the stroke of the counterweight buffer.
- 75 mm ^{plus} above the projection of any part of the car or its equipment above the car roof.

13.4.3 Car Top Clearance For Lifts Without Counterweights

Car top clearance for lifts without counterweights shall be not less than either of the following:

- 0.5 metres ~~from the car top.~~ plus car top runby
- the projection of any part of the car or its equipment above the car plus 150 mm. plus car top runby.

13.4.4 Counterweight Top Clearance

Counterweight top clearance shall not be less than the sum of the following dimensions:

- (a) the bottom car runby.
- (b) 1.5 times the stroke of the car buffer.
- (c) 150 mm.

13.5 BUFFERS

Buffers of service lifts may be of rubber or timber for lift speeds up to the maximum permitted by these rules.

13.6 ENCLOSURE DOORS

Enclosure doors shall have a maximum height of 1.25 m and need not be fitted with vision panels.

13.7 ROPES

A single rope may be used for the cars and counterweights of service lifts. The rope factor of safety based on maximum static load for car and counterweight ropes shall be not less than 10. The minimum diameter of ropes shall be 6 mm.

13.8 DRUMS, SHEAVES AND PULLEYS

The diameter of drums, sheaves or pulleys shall be not less than 30 times the rope diameter.

13.9 LIFT CAR SERVICES

Lift cars need not be provided with either normal or emergency lighting, nor opening for ventilation purposes.

13.10 CAR ENTRANCES

Provided there is only one car entrance, gates or doors need not be fitted to the car. Where there are two entrances, they should both be provided with means of preventing goods projecting outside the car.

Where car gates or doors are fitted electrical interlocks need not be provided.

13.11 EMERGENCY SIGNALS AND ALARMS

Emergency signalling devices and alarms need not be fitted.

13.12 ENCLOSURE DOORS

Where enclosure doors are more than 0.75 m above floor level, mechanical door locks need not be fitted.

13.13 EMERGENCY STOP

An emergency stop button need not be provided.

13.14 FINAL TERMINAL STOPPING DEVICE

Final terminal stopping devices need not be fitted.

13.15 SAFETY GEAR

The fitting of safety gears to cars and counterweights is not required.

13.16 GOVERNOR

Speed governors are not required.

Rule 13.4.5 Clearances and safety for maintenance personnel:

Clearances at the top and the bottom of the car need not be provided for service lifts.

Provision shall be made to prevent trapping of maintenance personnel under the lift car. This shall be provided by a manually positioned prop, or other equally effective device, capable of holding the lift car with its contract load, in a raised position.