

Annex

Safety precautions cited in Article 1

Safety measure		ITC MIE-AEM 1, Royal Decree 1314/1997 or UNE standards:	
		Articles or sections applicable (*)	
		Electrical lifts	Hydraulic lifts
1	Install an on/off switch, a pit lighting switch and a power supply outlet for the use of maintenance staff.	5.7.3.4 UNE-EN 81-1:1999	5.7.2.5 UNE-EN 81-2:1999
2	Modify the skirt below the car threshold, such that it is as high as possible yet compatible with the depth of the well, but not exceeding 75 cm.	8.4	8.4
3	Fit doors to the cars, together with a floor level indicator that is visible inside the car itself	8.5/8.6	8.5/8.6
4	Install emergency lighting and an alarm in the car.	8.17.3 / 8.17.4	8.17.3 / 8.17.4
5	Provide protection for the suspension guide pulleys, diverters, compensating pulleys and drive pulleys.	9.7 / 12.9	9.4 / 12.11
6	Install a release safety contact for the end-of-travel cable.	9.9.11.3	9.10.2.10.3
7	Fit an on/off device that is activated when the lift fails to start or the cables slip.	10.6.2	---
8	Provide an easy means of controlling the car from the machine room if it should stop in a clearance area.	12.5.1.2	12.9.3
9	On motors powered directly from the utility supply, it must be possible to isolate the input power using two independent contactors.	12.7.1	---
10	Install an intercom system in the car allowing continuous two-way communication with a rapid call-out service in buildings occupied temporarily in the daytime (public buildings or offices), holiday homes or short-stay dwellings, or similar situations to be decided by the competent body of the Autonomous Community.	4.5 in Annex I R.D. 1314/1997	4.5 in Annex I R.D. 1314/1997
11	Install a safety rail on the ceiling of the car when the free space between edge of the ceiling and the cavity sidewall is greater than 30 cm.	8.13.3 UNE-EN 81-1:1999	8.13.3 UNE-EN 81-2:1999

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		Electrical lifts	Hydraulic lifts
12	When braking devices are replaced, all asbestos must be removed.	0.3.1 UNE-EN 81-1:1999	---
13	When the traction gear is replaced, a setting accuracy of ± 2 cm must be allowed between the car stopping level and the level of the floor.	---	---
14	When a pump is replaced in the hydraulic gear, the new equipment must incorporate a hand-operated pump to move the car upwards.	---	12.9.2
15	When the car is replaced, control units that are comprehensible to the disabled must be fitted in the car and on the landing; the car must also be equipped with an overload device.	1.2 Annex I R.D. 1314/1997 and 14.2.5 UNE-EN 81-1:1999	1.2 Annex I R.D. 1314/1997 and 14.2.5 UNE-EN 81-2:1999
16	When the drive gear is replaced at the same time as the car or hoist, a device that prevents uncontrolled upward movement must be fitted.	9.10 UNE-EN 81-1:1999	---

(*) When no standard is cited specifically, reference must be made either to ITC MIE-AEM 1, or standard UNE 58717:1989, depending on the respective indicator in the electrical lifts or hydraulic lifts column.