



SPF Economie, P.M.E., Classes moyennes et Energie

Quality Management Systems
Requirements
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INSTRUCTIONS FOR USE BY INTERVENING BODIES THAT PERFORM THE 1ST INSPECTION OF A CAR LIFT

DOCUMENT HISTORY

Version and approval date	Reason for revision	Scope of the revision
1 24/11/2022	New document	Complete document
2 19/12/2022	Correction	Point 3 (height) and Table 1 (sufficient safety level of the working coefficient)

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1. PURPOSE AND SCOPE

This document lays down the requirements that must be checked as a minimum according to the FPS Economy (in agreement with the FPS Employment) during a first thorough inspection of a car lift by an intervening body. It concerns car lifts (see definition) that have been placed on the market in accordance with the Machinery Directive 2006/42/EC. This document does not apply to vehicle lifts that fall within the scope of the EN 1493 standard.

These instructions have been drawn up within the framework of article 2 §2 2° of the Royal Decree of 27 April 2007 determining the operating criteria and the modalities for monitoring the functioning of intervening bodies.

Car lifts are becoming increasingly popular due to the pursuit of a more efficient use of limited space, especially in apartment buildings. With this increasing popularity, the number of complaints about and/or problems with these installations is also rising.

For car lifts that are marketed under the scope of the Lifts Directive, The Royal Decree on the safety of lifts applies. For car lifts installed in a working environment, the requirements of the codex on well-being at work and the General Regulations on Occupational Safety (ARAB) apply.

2. DEFINITIONS AND REFERENCE TO OTHER DOCUMENTS

Legal basis:

- Royal Decree of 12 August 2008 concerning the placing on the market of machinery (RDM) machines). This is the Belgian transposition of the European Machinery Directive 2006/42/EC
- Royal Decree of 27 April 2007 determining operating criteria and modalities for monitoring the functioning of intervening bodies
- Book IX of the Code of Economic Law concerning the safety of products and services and its definitions (Book I, Chapter 7)

Definition:

Intervening body (art. I.10 13°) :

- a) any body operating under Book IX or its executive decrees for drawing up a risk analysis, determining preventive measures, carrying out installation inspections, carrying out maintenance inspections, drawing up inspection or maintenance schedules, performing periodic checks or carrying out periodic inspections;
- b) any body designated under Book IX or its executive decrees as a notified or recognized body for carrying out conformity assessment procedures;
- c) any body acting under Book IX or its executive decrees to otherwise monitor the safety of a product or service.

Car lift: lifting platform with semi-rising walls for cars

3. INSTRUCTIONS

Through this instruction, the FPS Economy aims to clarify/specify the minimum requirements that must be met during a first thorough inspection (see checklist in table 1). The basis for drawing up this checklist is the Royal Decree on machinery (and the harmonized standards under the Machinery Directive).

Such an inspection is not yet mandatory (unless included in the manufacturer's instructions), but highly recommended before commissioning, as well as further inspections, namely 2 times a year for car lifts with a lifting height > 3 m (every 6 months) and annually in case of a lifting height ≤ 3 m (every 12 months).

In addition to the date and time of the start and end of the inspection, the report of the intervening body must also clearly state the points that were checked and where any problems were found. Preferably, these problems should be clarified with photos. If the minimum requirements from the checklist are not met, use of the car lift should be discontinued until the problem has been resolved, in order to guarantee the safety of the users.

Table 1 – List of minimum requirements to be checked during a first thorough inspection of a car lift placed on the market under the Machinery Directive (Limited to platforms with semi-rising walls. Not applicable to vehicle lifts (EN 1493)).

Documents and inscriptions	
EC declaration of conformity is present for the product as a whole (2006/42/EG, Annex II 1a)	<input type="checkbox"/>
Manufacturing plate/data is present (2006/42/EC, Annex I 1.7.3)	<input type="checkbox"/>
CE marking is present (2006/42/EC, Annex I 1.7.3 + Annex III)	<input type="checkbox"/>
Marking 'maximum load' is present on the platform (2006/42/EC, Annex I 4.3.2 and 6.5)	<input type="checkbox"/>
Indication 'maximum number of persons' is present (2006/42/EC, Annex I 6.5)	<input type="checkbox"/>
Instruction 'passengers shall remain in the vehicle' is present (2006/42/EC, Annex I 1.7)	<input type="checkbox"/>
Instruction 'prohibited for use by cyclists, motorcyclists, pedestrians and such' is present (2006/42/EC, Annex I 1.7)	<input type="checkbox"/>
Instructions for use (manual and posted instructions for use) are available (also for any remote control) (2006/42/EC, Annex I 1.7)	<input type="checkbox"/>
Platform	
Dead man's control is present (if no cage doors) (2006/42/EC, Annex I 1.2.2, 4.1.2.6, 4.2.1 and 6.2)	<input type="checkbox"/>
Emergency stop is present at control station (if no car doors) (2006/42/EC, Annex I 1.2.4.1 and 1.2.4.3) (EN 1570-2, 5.8.4)	<input type="checkbox"/>
Remote control is hold to run (when active on platform) (2006/42/EC, Annex I 4.2.1 and 6.2) (EN 60204-32, 9.2.5.2)	<input type="checkbox"/>
Bi-directional emergency communication is present and functional in the absence of a system to raise the platform to the floor level in the event of a power failure (2006/42/EC, Annex I 1.2.1 and 1.5.14)	<input type="checkbox"/>
Sufficient lighting, minimum 100 lux, is present at the level of the driver controls (2006/42/EC, Annex I 1.1.4)	<input type="checkbox"/>
Emergency lighting is present (2006/42/EC, Annex I 1.1.4)	<input type="checkbox"/>
Safety curtains with a min height equal to the height of the vehicles that have access (min 1.1 m) are present on the walls on the access sides (2006/42/EC, Annex I 6.4.3)	<input type="checkbox"/>
Safety system (sensitive board type) is present on the semi-rising walls in case of a distance < 12 cm between wall and shaft wall (to prevent entrapment of body parts) (2006/42/EC, Annex I 6.4.1) (EN 1570- 2, 5.10.2) (EN ISO 13857, 4.2.4)	<input type="checkbox"/>
The platform may not start automatically after an emergency stop (reset procedure + manual) (2006/42/EC, Annex I 1.2.4.3)	<input type="checkbox"/>
Landing doors (roller shutters/sectional doors)	
An interlocking device operated by the position of the carrier is present (2006/42/EC, Annex I 4.1.2.8.5) (This may be achieved via an electrical contact. The electrical interlock must be a safety component. The combination of the electrical contact and the interlock must be a safety circuit.)	<input type="checkbox"/>
Emergency release + manual are present	<input type="checkbox"/>
Depth of the recess in which the landing door is located < 12 cm Or a protection of this recess is present if the depth is > 12 cm (e.g. by the use a photo cell) (EN 1570-2, 5.4.8)	<input type="checkbox"/>
Shaft	
Distance < 30 mm between carrier and shaft wall (threshold) (EN 1570-2, 5.6 b)	<input type="checkbox"/>
Distance < 120 mm between carrier and gate (EN 1570-2, 5.4.8) (EN 81-31, 5.5.1.3)	<input type="checkbox"/>
Emergency stop is present in the pit (EN 1570-2, 5.8.6)	<input type="checkbox"/>
Access ladder is present in the pit if pit depth > 0.5 m	<input type="checkbox"/>
Clamp system + instructions are available in case of limited safety space in the pit (0.5 m x 0.6 m x 1 m)	<input type="checkbox"/>

Pit lighting is present (min 100 lux)	<input type="checkbox"/>
End of range contacts are present in case of chains or cables + slackness contact	<input type="checkbox"/>
Sufficiently large shaft ventilation min. 1% is present (RD Basic Fire Standards ¹ , Annex 4/1 (tall buildings) point 6.1.3.2) (2006/42/EC, Annex I 1.1.7)	<input type="checkbox"/>
Evidence of a sufficient safety level of the working coefficient of cables (\geq factor 10) or chains (\geq factor 8) is present (e.g. manufacturer's certificate) (2006/42/EG, Annex I 4.1.2.4 and 6.1.1)	<input type="checkbox"/>
Machine/hydraulic group	
Overloading detection is present (2006/42/EC, Annex I 4.2.2 and 6.1.2) (EN 1570-2, 5.7.2.10)	<input type="checkbox"/>
Line rupture valve/safety catch device is present (2006/42/EC, Annex I 6.4.1)	<input type="checkbox"/>
Oil collection system is present in case of a hydraulic group	<input type="checkbox"/>
Temperature protection of the oil is present in case of a hydraulic group	<input type="checkbox"/>
Motor run time limiter is present (EN 81-31, 5.10.2.8.)	<input type="checkbox"/>

¹ Royal Decree on fundamental fire standards: Royal Decree of 7 July 1994 establishing basic standards for the prevention of fire and explosion with which [...] buildings must comply and its amendments.