



170002280708



(2017)国认监认字(134)号



中国认可
国际互认
检测
TESTING
CNAS L0454

Type Test Certificate for Special Equipment (Lift)

Certificate No. TSX 312001420170370

Applicant:	Otis Electric Elevator Co., Ltd.
Registered address of applicant:	No.28 Jiuhuan Road, Jianggan District, Hangzhou, Zhejiang
Manufacturer:	Otis Electric Elevator Co., Ltd.
Registered address of manufacturer:	No.28 Jiuhuan Road, Jianggan District, Hangzhou, Zhejiang
Category of equipment:	Traction and positive drive lift
Type of equipment:	Traction drive goods lift
Name of product	Vehicle lift
Model of product	TQJ
Type test report No.:	T14-3120-17-369, T3-324-11-006

After type test, this product is accord with TSG T7007—2016 *Regulation for type tests of lifts*, GB 7588—2003+XG1—2015 and EN 81-1:1998.

Applicable product model of the certificate: TQJ.

See appendix for application product parameters and configuration of the certificate.

Issue date: 2017-11-29



NETEC

National Elevator Inspection and Testing Center

Note: The applicant has responsibilities to ensure that the products conform to the requirements of the safety technical specifications and relative standards, and to ensure that the products are consistent with the tested sample mentioned above.

Certificate No. TSX 312001420170370

Appendix

Configuration of Traction drive goods lift

Rated speed	≤0.50m/s	Rated load	≤5000kg
Speed control mode	Variable frequency speed control	Manufacturer of speed control device	Hangzhou Optimax Tech Co., Ltd.
Drive mode	Traction drive	Manufacturer of control system	Hangzhou Optimax Tech Co., Ltd.
Arrangement mode of driving machine	In upper machine room	Manufacturer of driving machine	Suzhou Torin Drive Equipment Co., Ltd.
Suspension ratio	4:1	Mode of wrapping	Single
Suspension way of car	Top lift type	Number of car guide rail	≥4 columns
Number of car	Single	Location of control cabinet	In machine room
Mode of lift ascending car overspeed protection means	Rope clip	Mode of unintended car movement protection means	Rope clip
Applicable environment	Indoor	Connection mode of several cars	/
Equipment protection level	/	Special purpose product	/
Model of PESSRAL	/	Manufacturer of PESSRAL	/
Function of PESSRAL	/		

Issue date: 2017-11-29





170002280708



(2017)国认监认字(134)号



中国认可
国际互认
检测
TESTING
CNAS L0454

Report No. T14-3120-17-369

Special Equipment Type Test Supplementary Report (Lift)

Category of equipment: Traction and positive drive lift

Type of equipment: Traction drive goods lift

Name of product: Goods lift

Model of product: FOVF

Applicant: Otis Electric Elevator Co., Ltd.

Manufacturer: Otis Electric Elevator Co., Ltd.

Category of type test: Supplementary test

Test date: 2017-11-15



National Elevator Inspection and Testing Center

NOTICE

1. Type test report is according to TSG T7007-2016 *Regulation for type tests of lifts*. It should be printed by the computer or filled out with pens and is invalid if altered.
2. Type test report is invalid without signatures of test, verification and approval. It is also invalid without stamping the *Test Report Specialized Stamp* or paging seal.
3. Each type test certificate issued by National Elevator Inspection and Testing Center (abbreviation NETEC) is corresponding to one type test report at least. And in the type test report, test conclusion is *The type test is certificated*.
4. Type test certificate is invalid without stamping the *Test Report Specialized Stamp* or issue date.
5. Type test report or certificate can not be reproduced except in full, without written approval of NETEC.
6. Type test report is only responsible for the test items and test conclusions of the sample. Applicant is responsible for the authenticity of the information and technical documents of the sample.
7. Different opinions about type test conclusion should be reported to NETEC within 15 workdays since receiving of type test report and certificate. NETEC will refuse after the time.
8. It should be subject to the Chinese version, while the English version is for reference only.

NETEC National Elevator Inspection and Testing Center

Add.: 61 Jinguang Ave., Langfang, Hebei 065000, P.R.China

Tel.: 0316-2311414, 2311412

Fax: 0316-2057334

Email: netec@chinaelevators.org

Web site: www.chinaelevators.org/center

Contents

Lift type test supplementary report Page 1

1 Technical parameter and configuration of supplementary sample
..... Page 2



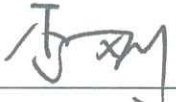

2 Check supplementary technical document Page 5

3 Check supplementary sample and test Page 7

4 Change information of type test report Page 8



Lift type test supplementary report

Category of equipment	Traction and positive drive lift		
Type of equipment	Traction drive goods lift		
Name of product	Goods lift		
Model of product	FOVF		
Product number	SIT0813	Manufacturing date	2017-08
Unified social credit code of applicant	913301006091386249		
Applicant	Otis Electric Elevator Co., Ltd.		
Registered address of applicant	No.28 Jiujuan Road, Jianggan District, Hangzhou, Zhejiang		
Manufacturer	Otis Electric Elevator Co., Ltd.		
Registered address of manufacturer	No.28 Jiujuan Road, Jianggan District, Hangzhou, Zhejiang		
Manufacturing address	No.28 Jiujuan Road, Jianggan District, Hangzhou, Zhejiang		
Test place	Otis Electric Elevator Co., Ltd.		
Sample state	No abnormal	Category of type test	Supplementary test
Test date	2017-11-15		
Test condition	Ambient temperature:13.6℃, relative humidity:46.9%,voltage: AC 399V		
Test basis	TSG T7007—2016 <i>Regulation for type tests of lifts</i> GB 7588—2003+XG1—2015 <i>Safety rules for the construction and installation of electric lifts</i> EN 81-1:1998 <i>Safety rules for the construction and installation of lifts-Part 1: Electric Lifts</i>		
Test conclusion	The type test of supplementary test items is certificated.		
Reported by:		Type test agency accreditation No. TS7610014-2021  Issue date: 2017-11-29	
Verified by:			
Issued by:			

1 Technical parameter and configuration of supplementary sample

Type of equipment	Traction drive goods lift	
Name of product	Goods lift	
Model of product	FOVF	
Rated speed	Up:0.50m/s, Down: 0.50m/s	
Rated load	6400kg	
Applicable environment	Indoor	
Number of passengers	/	
Explosion protection grade	/	
Explosion protection type	/	
Precautions against free fall, descent with excessive speed of car	/	
Precautions against creeping of car	/	
Equipment protection level	/	
Self-rescue modes of trapped firefighters from inside the car	/	
Additional firefighters car key switch	/	
Mode of priority recall	/	
Special purpose product	/	
Mode of landing door	Center opening two speed door	
Mode of car door	Center opening two speed door	
Car dimension	2500mm×3800mm×2500mm	
Well dimension	3950mm×4160mm×36300mm	
Number of car	Single	
Connection mode of several cars	/	
Landings/stops/doors	4/4/4	
Traveling height	30.0m	
Working areas	Drive machine	In machine room
	Control cabinet	In machine room
	Emergency operations	/
	Test operations	/

1 Technical parameter and configuration of supplementary sample (continued)

Driving machine	Drive mode	Traction drive
	Structure type	Three-phase asynchronous gear
	Model	YJ245D
	Manufacturer	Suzhou Torin Drive Equipment Co., Ltd.
	Arrangement mode and location	In upper machine room
	Mode of releasing brakes for emergency operation	Manual
	Pitch diameter of traction sheave	φ650mm
	Reduction gear ratio	49:2
	Model of motor	YTDD225TVF2-4
	Manufacturer of motor	Suzhou Torin Drive Equipment Co., Ltd.
	Rated power	30kW
	Rated rotate speed	1440r/min
	Rated voltage	380V
	Rated current	57A
	Rated frequency	50Hz
	Insulation grade	F
Suspension system	Number of ropes	8
	Suspension ratio	4:1
	Suspension way of car	Top lift type
	Model of rope	13NAT8×19S+NF
	Mode of wrapping	Single
Drive and control system	Model of control cabinet	OH-CON
	Manufacturer of control cabinet	Otis Electric Elevator Co., Ltd.
	Location of control cabinet	In machine room
	Location of emergency and test operation panel(s)	/
	Model of drive device	CON8003Z550-4
	Manufacturer of drive device	Hangzhou Optimax Tech Co., Ltd.
	Model of controller	ALMCB

1 Technical parameter and configuration of supplementary sample (continued)

Drive and control system	Manufacturer of controller	Hangzhou Optimax Tech Co., Ltd.
	Control device	Micro-computer
	Speed control mode	Variable frequency speed control
	Control mode	Selective collective control
	Communication mode	Serial
Landing door locking devices	Model	XTA-3A
	Manufacturer	Hangzhou Optimax Tech Co., Ltd.
	Specification	AC 110V, AC 0.8A
Car door locking devices	Model	XTA-CS02
	Manufacturer	Hangzhou Optimax Tech Co., Ltd.
	Specification	AC 110V, AC 0.8A
Overspeed governor	Model	XSQ115-12
	Manufacturer	Ningbo Shenling Lift Accessories Co., Ltd.
	Specification	Rated Speed $\leq 0.63\text{m/s}$
Safety gear	Model	QS12
	Manufacturer	Hangzhou Huning Elevator Parts Co., Ltd.
	Specification	Rated speed $\leq 0.63\text{m/s}$, allowable mass $\leq 15000\text{kg}$
Safety circuits	Model	UCM-A
	Manufacturer	Hangzhou Optimax Tech Co., Ltd.
	Function	Control of leveling and re-leveling with doors open; unintended car movement protection means(Detecting subsystem)
Lift ascending car overspeed protection means	Model	ARB-B
	Mode	Rope clip
	Manufacturer	Hangzhou Huning Elevator Parts Co., Ltd.
Unintended car movement protection means	Model	HIC-UCMP01
	Mode	Rope clip
	Manufacturer	Zhejiang Xizi Heavy Industry Co., Ltd.

1 Technical parameter and configuration of supplementary sample (continued)

Car buffer	Model	FAA320R4
	Number	2 sets
	Mode	Nonlinear Energy Storage Type
	Manufacturer	Germany ACLA
	Specification	Rated speed $\leq 0.63\text{m/s}$, allowable mass range: 855kg~6056kg
Counter weight buffer	Model	FAA320R4
	Number	2 sets
	Mode	Nonlinear Energy Storage Type
	Manufacturer	Germany ACLA
	Specification	Rated speed $\leq 0.63\text{m/s}$, allowable mass range: 855kg~6056kg
Car guide rail	Model	T127-2/B
	Number	4 columns
	Manufacturer	Hangzhou Sanhang Monteferro Elevator Parts Co., Ltd.
Counter weight guide rail	Model	TK5
	Number	2 columns
	Manufacturer	Hangzhou Sanhang Monteferro Elevator Parts Co., Ltd.

2 Check supplementary technical document

No.	Items No.	Check items	Check results	Conclusion
1	H5.1	Product quality qualification certificate	Comply with requirements	Pass
		Install self-check report	Comply with requirements	Pass
		Install and use maintenance manuals	Comply with requirements	Pass
		Brake clearance adjustment and maintenance instructions	Comply with requirements	Pass
		The rescue program when the lift is outside of the unlocking region	Comply with requirements	Pass
		Design specifications with fire alarm detection system	Comply with requirements	Pass
		Equipment layout diagram, electrical principle diagram, installation and maintenance manuals of IC card system	/	/

No.	Items No.	Check items	Check results	Conclusion
1	H5.1	Electrical control explanation for firefighters service	/	/
2	H5.2	Selection and calculations of unintended car movement protection means	Comply with requirements	Pass
		Selection and calculations of driving machine	Comply with requirements	Pass
		Selection and calculations of control cabinet	Comply with requirements	Pass
		The kinetic energy of horizontally sliding doors	Comply with requirements	Pass
3	H5.3	General design diagrams and contents, Design diagrams of components	Comply with requirements	Pass
		Electric schematic diagrams, terminal connection chart and symbol description	Comply with requirements	Pass
4	H5.4	H5.4.1 Type test reports and certificates	Comply with requirements	Pass
		H5.4.2 Other demonstrate documents	Comply with requirements	Pass
5	H5.7	Diagram of car suspension mode	Comply with requirements	Pass
6	H5.8	Measure for preventing dragging glass door	/	/
		Diagram of panel suspension, retainers and guides	Comply with requirements	Pass
		Schematic structure and installation of Car door locking devices	Comply with requirements	Pass
		Schematic structure and installation of protection device for opening the car door	/	/
7	H5.9	Additional requirements for firefighter lift	/	/

3 Check supplementary sample and test

No.	Items No.	Check and Test items	Check and Test results	Conclusion
1	H6.1	H6.1.8.3 Safety circuits	/	/
2	H6.2	H6.2.5 Landing door and car door bypass device	Comply with requirements	Pass
		H6.2.7 Emergency rescue	Comply with requirements	Pass
3	H6.3	H6.3.8 Unintended car movement protection means	Comply with requirements	Pass
		H6.3.12.14 The product brand	Comply with requirements	Pass
4	H6.5	H6.5.8 Locking and closed landing door check	Comply with requirements	Pass
		H6.5.9 Locking and closed car door check	Comply with requirements	Pass
5	H6.9	H6.9.1 Input signals	Comply with requirements	Pass
		H6.9.2 Stopped position of the lift	Comply with requirements	Pass
		H6.9.3 Prohibition sign	Comply with requirements	Pass
		H6.9.4 Interface requirements between the fire alarm system and the lift control system	Comply with requirements	Pass
		H6.9.5 Behaviour of the lift on the receipt of a fire detection signal	Comply with requirements	Pass
		H6.9.6 Designated landing	Comply with requirements	Pass
6	H6.12	H6.12.1 Power supply control	/	/
		H6.12.2 Automatic exit function	/	/
		H6.12.3 Use and prevent operation function	/	/
		H6.12.4 Marking	/	/
7	H6.21	H6.21.1 Traction and positive drive lift	/	/
8	H6.22	Overload operation test	Comply with requirements	Pass



2014000708Z (2014)国认监认字(134)号



检测
CNAS L0454

Special Equipment Type Test Report

Report No. T3-324-11-006

Category of Equipment: Goods Lifts
Type of Equipment: Vehicle Lifts
Name of Product: Vehicle Lifts
Model of Produce: TQJ
Applicant: Xizi Otis Elevator Co., Ltd.
Manufacturer: Xizi Otis Elevator Co., Ltd.



National Elevator Inspection and Testing Center

NOTICE

1. Each type test certificate issued by National Elevator Inspection and Testing Center (abbreviation NETEC) is corresponding to one type test report. The issue of type test certificate is based on the test conclusions of type test report.
2. Type test report is invalid without stamping the *Test Report Specialized Stamp* or issue date.
3. Type test certificate is invalid without stamping the *Test Report Specialized Stamp* or issue date.
4. Type test report is invalid without signatures of chief test, verification and approval.
5. Type test report or certificate can not be reproduced except in full, without written approval of NETEC.
6. Type test report or certificate including annex is invalid if altered.
7. NETEC is only responsible for the test items and test conclusions of the sample. The test results and test conclusions just indicate sample statue at the time of test. Applicant is responsible for the authenticity of the information and technical documents of the sample.
8. Different opinions about type test report or certificate should be reported to NETEC within 15 days since receiving of type test report and certificate. NETEC will refuse after the time.
9. Type test report and certificate are invalid from the issue date. The term of validity is according to *TSG T7001 Rules for Type Test of Elevators(tryout)* promulgated by *General Administration of Quality Supervision Inspection and Quarantine of the People's Republic of China*.
10. It should be subject to the Chinese version, while the English version is for reference only.


Addr.: 61 Jinguang Avenue, Langfang City, 065000 Hebei, P. R. China

Tel.: 0316-2311414, 2311411, 2311412

Fax: 0316-2057334

Email: netec@chinaelevators.org

Web site: www.chinaelevators.org/center

Name of product		Vehicle Lifts	
Model of product		TQJ	
Serial No. of sample		2011070383	Production date 2006-06-30
Main technical parameter		Rated speed	0.50m/s
		Rated load	5000kg
Applicant	Name	Xizi Otis Elevator Co., Ltd.	
	Address	No.28 Jiujuan Road, Jianggan District, Hangzhou	
Manufacturer	Name	Xizi Otis Elevator Co., Ltd.	
	Address	No.28 Jiujuan Road, Jianggan District, Hangzhou	
Installation place	Zhejiang YOTRIO group Co., Ltd.		
Test place	Zhejiang YOTRIO group Co., Ltd.		
Sample state	No abnormal		
Test date	2011-08-10, 2011-08-19	Test category	Type test
Test condition	Comply with requirement	Test item	All application items
Test basis	<i>Rules for Type Test of Elevators (tryout)</i> <i>Rule for Type Test of Machine Roomless Lifts (tryout)</i> GB 7588—2003(eqv EN 81-1:1998)		
Test conclusion	The type test is certificated. <div style="text-align: right;">  <p>Issue date: 2014-10-08</p> </div>		
Note	Issued date of the Chinese version: Aug. 30, 2011		

Reported by:  Verified by:  Issued by: 

LIFT SAMPLE'S TECHNICAL PARAMETERS AND CONFIGURATION

Model and name	TQJ Vehicle Lifts		Applicable environment		Indoor
Rated speed	0.50m/s	Rated load	5000kg	Passenger	/
Traction machine	Machine type	60HT	Manufacture	Xizi Otis Elevator Co., Ltd.	
	Structure type	Three-phase asynchronous gear	Arrangement of drive machine	Upper machine room	
	Pitch diameter	650mm	Reduction ratio	49:2	
	Motor model	YTTD225TVP2-4	Manufacture	Xizi Otis Elevator Co., Ltd.	
	Rated power	30kW	Rated speed	1440r/min	
	Rated voltage	380V	Rated current	62A	
	Rated frequency	50Hz	Insulation class	F	
Suspension system	Number of ropes	8	Suspension Ratio	4:1	
	Structure and model of suspension ropes		φ13 8×19S+FC		
	Wrapping mode		Single		
Drive and control system	Control cabinet installation position		Upper machine room		
	Control cabinet model	OH-CON8501	Manufacture	Xizi Otis Elevator Co., Ltd.	
	Drive device model	CON8003Z370-4	Manufacture	Hangzhou Optimax Tech Co., Ltd.	
	Controller model	LMCB	Manufacture		
	Control device	Micro-computer	Speed control mode	AC variable frequency control	
	Control mode	Collective selective	Communication mode	Serial	
Locking devices	Model	MKG161-01	Manufacture	Ningbo Shenling Lift Accessories Co., Ltd.	
Overspeed governor	Model	TAC20602A401	Manufacture	SPAIN OTIS	
Safety gear	Model	QS8	Manufacture	Hangzhou Huning Elevator Accessories Co., Ltd.	
Ascending car overspeed protection	Model	RB106A-D	Manufacture	Accessories Co., Ltd.	
	Acting mode	Acting on the suspension ropes			
Buffers	Model	Car	FAA320R4 2set	Manufacture	GERMANY ACLA
		Cwt.	FAA320R4 1set	Manufacture	
Guide rails	Model	Car	T127-1/B, TK5A	Manufacture	Hangzhou Sanhang Monteferro Elevator Parts Co., Ltd.
		Cwt.	TK5	Manufacture	
Landing doors	Four-panel center opening door		Car doors	Four-panel center opening door	
Clear Car dimension	A×B×H 3400mm×5580mm×2900mm		Well dimension	C×D×H 4980mm×6300mm×21900mm	
Landing/stop	3/3/4		Traveling height	13.8m	

No.	Items No.	Test items	Test results	Conclusions
1	1.1	Mounting of main switches	Comply with requirements	Pass
2	1.2	Model, markings, install position of main switches	Comply with requirements	Pass
3	1.3	Safeguard of main switches in the open position, to ensure no inadvertent operation	Comply with requirements	Pass
4	1.4	(In the case of a group of lifts)After the opening of the main switcher, parts of circuits remain live	/	/
5	1.5	Connection of any capacitors to correct the power factor	/	/
6	2.1	The electric lighting supplies to the car, the well, the machine and pulley rooms	Comply with requirements	Pass
7	2.2	The supply and type to socket outlets required on the car roof, in the machine and pulley rooms and in the pit	/	/
8	2.3	A switch for lighting and socket outlets of the lift car	Comply with requirements	Pass
9	2.4	Lighting switches in the machine or pulley rooms	Comply with requirements	Pass
10	2.5	Lighting switch in the well	Comply with requirements	Pass
11	2.6	Short circuit protection of each circuit controlled by the switches laid down in 2.3~2.5	Comply with requirements	Pass
12	3.1	Phase break and reversal protection device	Comply with requirements	Pass
13	3.2	Stopping device	Comply with requirements	Pass
14	3.3	Stopping device in the car(in the car of lifts with docking operation)	/	/
15	3.4	Type of stopping device	Comply with requirements	Pass
16	4.1	Motor supplied and controlled directly from a.c or d.c. mains	/	/
17	4.2	A.c. or d.c. motor supplied and controlled by static elements	Comply with requirements	Pass
18	4.3	Motor supplied and controlled using a "Ward-Leonard" system	/	/
19	4.4	Check device of drive machine stopping state	Comply with requirements	Pass
20	5.1	Working state of the brake	Comply with requirements	Pass
21	5.2	Controlling of the brake	Comply with requirements	Pass
22	5.3	Brake without supplementary delay	Comply with requirements	Pass
23	5.4	When the motor of the lift is likely to function as a generator, protecting against electric device operating the brake to be fed by the driving motor	Comply with requirements	Pass
24	6.1	Protecting against overloads of motors (directly connected to the mains)	/	/
25	6.2	Protecting against overloads of motors basis of increase of the temperature of the motor windings	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
26	6.3	Protecting against overloads of motors has windings supplied by different circuits	/	/
27	6.4	Protecting against overloads of motors supplied from d.c. generators driven by motors	/	/
28	6.5	Protecting against short-circuiting of motors (directly connected to the mains)	/	/
29	6.6	Motor run time limiter of traction drive lifts	Comply with requirements	Pass
30	6.7	Function of motor run time limiter	Comply with requirements	Pass
31	6.8	Resetting of motor run time limiter	Comply with requirements	Pass
32	6.9	Relation of motor run time limiter and the inspection operation or the emergency electrical operation	Comply with requirements	Pass
33	7.1	Protection against electrical faults	Comply with requirements	Pass
34	7.2	Protection measure of the ear thing to the metalwork or the earth of a circuit containing an electric safety device	Comply with requirements	Pass
35	8.1	Electric safety devices	Comply with requirements	Pass
36	8.2	Parallel of electric device and electric safety device	Comply with requirements	Pass
37	8.3	Request to gathering information device connected electric safety chain	/	/
38	8.4	Dependability of signal emanating from an electric safety device	Comply with requirements	Pass
39	8.5	Circuits of record or delay signals	/	/
40	8.6	Function of electric safety device	Comply with requirements	Pass
41	8.7	Operation of electric safety device	Comply with requirements	Pass
42	8.8	Transmitter elements of safety circuits	/	/
43	9.1	Positive separation of safety contacts	Comply with requirements	Pass
44	9.2	Categories of safety contacts or the degree of protection of the enclosure	Comply with requirements	Pass
45	9.3	Clearances or creepage distances of safety contacts	Comply with requirements	Pass
46	9.4	Distance after separation between the contacts in the case of multiple breaks	/	/
47	9.5	Type test of safety circuits containing electronic components	/	/
48	9.6	Printed circuit board	/	/
49	10.1	Electromagnetic compatibility of electric installations and appliances	/	/
50	10.2	Protection of electric appliances in the machine and pulley rooms	IP2X	Pass
51	10.3	Insulation resistance between each live conductor and earth	>200MΩ	Pass
52	10.4	Voltage between conductors or between conductors and earth for control and safety circuits	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
53	10.5	Separate of the neutral conductor and the protection conductor	Comply with requirements	Pass
54	10.6	Traveling cables	Comply with requirements	Pass
55	10.7	Cross-sectional area of conductors to electric safety device of doors	0.75mm ²	Pass
56	10.8	Marks of some connection terminals remain live after the opening of the main switch or switches of a lift	Comply with requirements	Pass
57	10.9	Connectors and devices of the plug-in type placed in safety circuits	/	/
58	11.1	Control of lift operations	Comply with requirements	Pass
59	11.2	Type test of lift control cabinets	Comply with requirements	Pass
60	12	Control of leveling and re-leveling with doors open	/	/
61	13.1	Control of inspection operation	Comply with requirements	Pass
62	13.2	Special switches for controlling the mechanism of doors from the car roof	/	/
63	14.1	Control device to prevent overload in the car	Comply with requirements	Pass
64	14.2	State of the lift in the event of overload	Comply with requirements	Pass
65	15.1	Priorities and signal for lifts with manual doors	Automatic doors	/
66	15.2	Priorities of no-collective control	Collective control	/
67	15.3	Landing signal in the case of collective control	Comply with requirements	Pass
68	16.1	Control of docking operation	/	/
69	16.2	Height between the landing door header and the floor of the car or landing door state in the case of docking operation	/	/
70	17.1	Device for manual emergency movement	Comply with requirements	Pass
71	17.2	Mark of device for manual emergency movement	Comply with requirements	Pass
72	17.3	Electric safety device of the removable wheel	Comply with requirements	Pass
73	17.4	Mark checking easily from the machine room whether the car is in an unlocking zone	Comply with requirements	Pass
74	17.5	Control of emergency electrical operation	Comply with requirements	Pass
75	18.1	Emergency alarm device in the car	Comply with requirements	Pass
76	18.2	Power for emergency device	Comply with requirements	Pass
77	18.3	Type of emergency alarm device in the car	Comply with requirements	Pass
78	18.4	An intercom system, or similar device between inside the car and the machine room if the lift travel exceeds 30m	/	/
79	18.5	Alarm device for persons working in the well being trapped	Comply with requirements	Pass
80	19.1	One machine of each lift own	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
81	19.2	Drive methods	Traction drive	Pass
82	19.3	This brake on its own shall be capable of stopping the machine when the car is travelling downward at rated speed and with the rated load plus 25 %	Comply with requirements	Pass
83	19.4	Rated load one set braking action test	Comply with requirements	Pass
84	20.1	Protection of traction sheaves, pulley and sprockets	Comply with requirements	Pass
85	20.2	Request for protection devices	Comply with requirements	Pass
86	20.3	Protection of rotating parts	Comply with requirements	Pass
87	21.1	Suspension of cars and counterweights or balancing weights	Comply with requirements	Pass
88	21.2	Number of ropes or chains	6 ropes	Pass
89	21.3	Diameter or the other characteristics of suspension ropes	16mm	Pass
90	21.4	Ratio between the pitch diameter of traction sheaves, pulley or drum and the nominal diameter of the suspension ropes	Pitch diameter: 725mm Rope diameter: 16mm Ratio: 45.3	Pass
91	21.5	Calculation of safety factor of suspension ropes	Comply with requirements	Pass
92	21.6	Safety factor of suspension chains	Suspension ropes	/
93	22	Traction conditions	Comply with requirements	Pass
94	23.1	Checking of junction between rope and the rope termination	Comply with requirements	Pass
95	23.2	Checking of junction between chain and the chain termination	Rope termination	/
96	23.3	Least breaking load of junction between rope (chain) and the rope (chain) termination	Comply with requirements	Pass
97	23.4	Fixing of the ropes on the drum for positive drive lifts	Traction drive	/
98	23.5	Automatic device for equalizing the tension of suspension ropes or chains	Comply with requirements	Pass
99	23.6	Working state of springs for equalizing the tension	Comply with requirements	Pass
100	23.7	Electric safety device for preventing abnormal relative extension of one rope or chain, in the case of two ropes or two chains suspension of the car	Number of ropes>2	/
101	23.8	Preventing loose measure of the devices for adjusting the length of ropes or chains, an electric safety device to stop the lift in case of abnormal relative extension of one rope or chain	Comply with requirements	Pass
102	23.9	Electric safety device for preventing abnormal relative extension of one rope or chain, in the case of positive drive lifts	Traction drive	/
103	24.1	Drum for positive drive lifts	Traction drive	/

No.	Items No.	Test items	Test results	Conclusions
104	24.2	When the car rests on its fully compressed buffers, length of rope in the grooves of the drum	Traction drive	/
105	24.3	Layer of rope wound on the drum	Traction drive	/
106	24.4	Angle of deflection (fleet angle) of ropes in relation to the grooves	Traction drive	/
107	25.1	Use condition of compensating ropes	/	/
108	25.2	Anti-rebound device of compensating ropes	/	/
109	26.1	Tripping speed of an overspeed governor	Comply with requirements	Pass
110	26.2	Electrical safety device to initiate the stopping of the lift machine before the car speed	Comply with requirements	Pass
111	26.3	Tripping speed of an overspeed governor for a counterweight or balancing weight safety gear	/	/
112	26.4	Tensile force in the overspeed governor rope produced by the governor, when tripped	Comply with requirements	Pass
113	26.5	Tensioning of overspeed governor rope or guiding of tensioning pulley(or its tensioning weight)	Comply with requirements	Pass
114	26.6	Electric safety device for breakage or excessive rope stretch of the governor rope	Comply with requirements	Pass
115	26.7	Seal of adjustable parts or mark of rotation direction on the overspeed governor	Comply with requirements	Pass
116	26.8	Electric safety device for overspeed governor does not automatically reset itself	Comply with requirements	Pass
117	26.9	Accessibility and reachability for overspeed governor	Comply with requirements	Pass
118	26.10	Overspeed governor located in the well	Located in machine room	/
119	26.11	Type test of overspeed governor	Comply with requirements	Pass
120	27.1	Safety gear capable of operating in the car downward direction	Comply with requirements	Pass
121	27.2	Type of safety gear	Instantaneously type	Pass
122	27.3	Type of safety gears, if the car carries several safety gears	/	/
123	27.4	Safety gear of counterweight weight or balance weight	/	/
124	27.5	Control for tripping safety gear of the car, counterweight weight or balance weight	Comply with requirements	Pass
125	27.6	Inclination of the car floor, when the car safety gear operates	Comply with requirements	Pass
126	27.7	Release of safety gear has tripped	Comply with requirements	Pass
127	27.8	Electric safety device of safety gear on the car	Comply with requirements	Pass
128	27.9	Safety gears shall not be used as guide shoes	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
129	27.10	Seal of adjustable safety gear	Comply with requirements	Pass
130	27.11	Matching of parameter between the safety gear and the lift	Comply with requirements	Pass
131	27.12	Type test of safety gear	Comply with requirements	Pass
132	28.1	Position of buffers	Comply with requirements	Pass
133	28.2	Type of buffers	Energy dissipation buffers	Pass
134	28.3	Stroke of reduced buffers	/	/
135	28.4	Monitoring the normal slowdown of the machine in case of reduced buffer stroke	/	/
136	28.5	Matching of parameter between buffer and lift	Comply with requirements	Pass
137	28.6	Type test of buffer	Comply with requirements	Pass
138	29.1	Ascending car overspeed protection means	Comply with requirements	Pass
139	29.2	Action place of ascending car overspeed protection means	Comply with requirements	Pass
140	29.3	Driving of ascending car overspeed protection means	compression spring	/
141	29.4	Controlling of ascending car overspeed protection means	Comply with requirements	Pass
142	29.5	Retardation of the empty car during the stopping phase	Comply with requirements	Pass
143	29.6	Speed monitoring element of the lift to cause the ascending car overspeed protection means to actuate	Overspeed governor	Pass
144	29.7	Electric safety device of ascending car overspeed protection means	Comply with requirements	Pass
145	29.8	Release of ascending car overspeed protection means has been activated	Comply with requirements	Pass
146	29.9	Type test of ascending car overspeed protection means	Comply with requirements	Pass
147	30.1	Setting place of final limit switches	Comply with requirements	Pass
148	30.2	Actuating devices of normal terminal stopping and final limit switches	Comply with requirements	Pass
149	30.3	Actuation control of final limit switches in the case of positive drive lifts	/	/
150	30.4	Actuation control of final limit switches in the case of traction drive lifts	Comply with requirements	Pass
151	30.5	Method of operation of final limit switches	Comply with requirements	Pass
152	30.6	Return to service of the lift after the operation of final limit switches	Comply with requirements	Pass
153	31.1	Clearance between panels, or between panels and uprights, lintels or sills when closed landing doors	Comply with requirements	Pass
154	31.2	Height and width of the landing doors	Height: 2.800m Width: 2.500m	Pass
155	31.3	Height of car entrance	Height: 2.800m	Pass
156	31.4	Setting of car door	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
157	31.5	Type of car door	Imperforate	Pass
158	31.6	Car door and car entrance	Comply with requirements	Pass
159	31.7	Clearance between panels, or between panels and uprights, lintels or sills when closed car door	Comply with requirements	Pass
160	31.8	Horizontal distance between the sill of the car and sill of the landing doors	30mm	Pass
161	31.9	Horizontal distance between the car door and the closed landing doors or the access distance between the doors during the whole of their normal operation	0.035m	Pass
162	31.10	Any gap between the closed doors in the case of the combination of a hinged landing door and a folding car door	/	/
163	32.1	Clearance between panels, or between panels mechanical strength of and uprights, lintels or sills under the application of a manual force of 150N	Comply with requirements	Pass
164	32.2	Mechanical strength of landing doors with their locks	Comply with requirements	Pass
165	32.3	Mechanical strength of car door	Comply with requirements	Pass
166	33.1	Fixing of glass door panels, dimensions of glass, pendulum shock test of glass door	/	/
167	33.2	Fixing of glass in doors	/	/
168	33.3	Type test of glass door	/	/
169	34.1	Request to avoid the risk of shearing during operation in case of automatic power operated sliding doors	Comply with requirements	Pass
170	34.2	Force to prevent the door closing in case of automatic power operated horizontally sliding landing doors or car door	Comply with requirements	Pass
171	34.3	Re-opening protective device of landing doors and car door	Light-screen	Pass
172	34.4	Opening force for folding landing doors and car door of automatic power operated horizontally sliding	/	/
173	34.5	Conditions of power closing of vertically sliding landing doors and car door	/	/
174	34.6	Prevent of other types of doors	/	/
175	34.7	Reversal of closing movement of car door of automatic power operated	Comply with requirements	Pass
176	34.8	Request of landing doors with manual opening	/	/
177	34.9	Striking stops of hinged doors	/	/
178	34.10	Distance between any outer edge of the folding door and the recess	/	/
179	35.1	Operation with landing doors open in normal operation or unlocking zone	unlocking zone: 520m Comply with requirements	Pass
180	35.2	Safety prevention of landing doors open or operation permitted	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
181	35.3	Effective locking of the landing door preceding the movement of the car or electric safety device of proving locking	Comply with requirements	Pass
182	35.4	Engaged length of the locking elements	Comply with requirements	Pass
183	35.5	Element of the electric safety device proving the locked condition of the door panels or connection of locking element	Comply with requirements	Pass
184	35.6	Locking request for hinged doors	No-hinged doors	/
185	35.7	Effect and maintained of the locking action of landing doors	Comply with requirements	Pass
186	35.8	Protection and inspection of lock device	Comply with requirements	Pass
187	35.9	Type request of the fixing screws for the cover in the case where the lock contacts	Comply with requirements	Pass
188	35.10	Open or automatic closing of landing doors locks	Comply with requirements	Pass
189	35.11	Electrical safety device for proving the closed condition of the landing door	Comply with requirements	Pass
190	35.12	Devices for proving the locked condition and the closed condition of the landing door coupled with car door	Comply with requirements	Pass
191	35.13	Place of electrical safety device for proving the closed condition of the hinged landing door	/	/
192	35.14	Devices for proving the locked condition and the closed condition of the landing door	Comply with requirements	Pass
193	35.15	Place of safety and locked devices for sliding landing door comprises several directly mechanically linked panels	/	/
194	35.16	Condition of permit to lock only one panel for sliding landing door comprises several indirectly mechanically linked panels	Comply with requirements	Pass
195	35.17	Closing of automatically operated landing doors	Comply with requirements	Pass
196	35.18	Type test of landing door locking devices	Comply with requirements	Pass
197	36.1	Safety protection or operation when a car door is open	Comply with requirements	Pass
198	36.2	Electrical safety device for proving the closed condition of the car door	Comply with requirements	Pass
199	36.3	Type test and request of car door locking devices	/	/
200	36.4	Place of safety and locked devices for sliding car door comprises several directly mechanically linked panels	/	/
201	36.5	Condition of permit to place the electrical safety device on a single panel for sliding car door comprises several indirectly mechanically linked panels	/	/
202	36.6	To open the car door or landing door by hand with car stopped and the supply to the door operator (if any) disconnected	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
203	36.7	Force necessary to open the car door by hand in the unlocking zone	Comply with requirements	Pass
204	36.8	Force to open the car door with the lift in motion, the rated speed of which exceeds 1m/s	/	/
205	37.1	Fault protection of landing doors and car door	Comply with requirements	Pass
206	37.2	Guides of the landing doors	Comply with requirements	Pass
207	37.3	Fixing for panels of vertically sliding landing door	/	/
208	38	Type test of fire-resistant landing door	/	/
209	39.1	Interior clear height of the car	2.900m	Pass
210	39.2	Number of passengers	Vehicle lifts	/
211	39.3	Rated load and max. available car area of goods lifts and non-commercial auto lifts, effective control of excess area of goods lifts	19.5279m ²	Pass
212	39.4	Rated load and max. available car area of passenger lifts and sickbed lifts	/	/
213	40.1	Enclosed and permissible openings of the car	Comply with requirements	Pass
214	40.2	Mechanical strength of the car walls	Comply with requirements	Pass
215	40.3	Request of walls with glass and handrail	/	/
216	40.4	Fixing of the glass in the wall	/	/
217	40.5	Fitting of apron of car sill	Width: 2540mm Angle: 60° Projection: 100mm Vertical height: 760mm	Pass
218	40.6	In the case of a lift with a docking operation, the height of the vertical portion of apron	/	/
219	41.1	Dimension of an emergency trap door in the car roof	/	/
220	41.2	Dimension of emergency doors in the car	/	/
221	41.3	Request for emergency trap doors or doors	/	/
222	42.1	Request for roof	Comply with requirements	Pass
223	42.2	Clear area for standing	Comply with requirements	Pass
224	42.3	Balustrades of car roof	Comply with requirements	Pass
225	42.4	Composing or height of balustrades	Comply with requirements	Pass
226	42.5	Place of handrail and balustrades	Comply with requirements	Pass
227	42.6	Protection of pulleys fixed to the car	Comply with requirements	Pass
228	42.7	Gap between the car roof and the header of a landing door	/	/
229	43.1	Ventilation area of cars with imperforate doors	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
230	43.2	Place of ventilation apertures	Comply with requirements	Pass
231	43.3	Lighting and light intensity of the car	Comply with requirements	Pass
232	43.4	Request for the incandescent type	/	/
233	43.5	Condition to switch off car lighting	Comply with requirements	Pass
234	43.6	Capacity of emergency lighting supply	Comply with requirements	Pass
235	44.1	Balancing weight	Traction drive	/
236	44.2	Fixing for filler weights	Comply with requirements	Pass
237	44.3	Protection of pulleys fixed to the counterweight	Comply with requirements	Pass
238	44.4	Distance of the car and its associated components and the counterweight (or balancing weight) and its associated components	260mm	Pass
239	45.1	Guidance of car, counterweight or balancing weight	Comply with requirements	Pass
240	45.2	Type of guide rail	Machined type	Pass
241	45.3	Selection of guide rails for counterweight or balancing weight without safety gear	Comply with requirements	Pass
242	45.4	Adjustment of fixing of guide rails to their brackets and to the building, compensation of effects due to normal setting of the building or shrinkage of concrete	Comply with requirements	Pass
243	45.5	Max. calculated permissible deflections for T-profile guide rails	Comply with requirements	Pass
244	45.6	Type test of guide rails	Comply with requirements	Pass
245	46.1	Partition of lift well and around area	Comply with requirements	Pass
246	46.2	Exclusive use of the lift well	Comply with requirements	Pass
247	46.3	Partially enclosed well where the well is not required to contribute against the spread of fire	/	/
248	46.4	Totally enclosed well where the well is required to contribute against the spread of fire	Comply with requirements	Pass
249	47.1	Height of the enclosure of glass well at place normally accessible to persons	/	/
250	47.2	Strength of the pit floor	Comply with requirements	Pass
251	47.3	If accessible spaces do exist below the car, the counterweight or the balancing weight, design requirements for the base of the pit	/	/
252	47.4	Surface of landing doors	Comply with requirements	Pass
253	47.5	Requirements for below each landing door sill the wall of the lift well	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
254	47.6	Horizontal distance between the inner surface of the lift well and the sill, door frame of the car or closing edge of car sliding door	Comply with requirements	Pass
255	48.1	Access door to pit	/	/
256	48.2	Place of inspection and emergency doors, and inspection traps to the well	/	/
257	48.3	Opened-closed or strength of inspection and emergency doors, and inspection traps to the well	/	/
258	48.4	Electrical safety device for proving the closed condition of inspection and emergency doors, and inspection traps to the well	/	/
259	49.1	Rigid screen of the traveling area of the counterweight or the balancing weight	Comply with requirements	Pass
260	49.2	Rigid screen of the well contains several lifts	Single lift	/
261	50.1	Top clearances for traction drive lifts	Comply with requirements	Pass
262	50.2	Guided travel of the counterweight guide rail when the car rests on its fully compressed buffers	Comply with requirements	Pass
263	50.3	Clearance of reduced buffer stroke	/	/
264	50.4	Clearances for lifts which are fitted with compensating ropes having a tensioning pulley equipped with an anti-rebound device	/	/
265	51.1	Guided travel of the car upward from the top floor until it strikes the upper buffers	/	/
266	51.2	Lengths of the balancing weight guide rail when the car rests on its fully compressed buffers	/	/
267	51.3	Top clearances for positive drive lifts	/	/
268	52.1	Setting request for pit	Comply with requirements	Pass
269	52.2	Method to enter pit	Comply with requirements	Pass
270	52.3	Space between the bottom of the pit and car when the car rests on its fully compressed buffers	Comply with requirements	Pass
271	53	Intensity and lighting of the well	Comply with requirements	Pass
272	54.1	Setting for lift machines, their associated equipment and pulleys	Comply with requirements	Pass
273	54.2	Condition for installing traction sheave in the well	/	/
274	54.3	Headroom of the well or diverter pulleys be installed above the car roof	/	/
275	54.4	Temperature of the machine room	Comply with requirements	Pass
276	54.5	Metal supports or hooks in the machine room	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
277	54.6	Temperature of the pulley room, measure for preventing frost or condensation	/	/
278	55.1	Access to the interior of the machine and pulley rooms	Comply with requirements	Pass
279	55.2	Safety access for persons to machine and pulley rooms	Comply with requirements	Pass
280	55.3	Doors and trap doors of machine room	Comply with requirements	Pass
281	55.4	Doors and trap doors of pulley room	/	/
282	55.5	Dimensions of holes in the slab, machine and pulley rooms floor	Comply with requirements	Pass
283	56.1	Clear height at working areas or clear horizontal area for manual emergency operation	Comply with requirements	Pass
284	56.2	Clear height in machine room or width of the access ways	Comply with requirements	Pass
285	56.3	Clear vertical distance above the rotation parts of the machine	Comply with requirements	Pass
286	56.4	Dimensions of pulley room	/	/
287	56.5	Height or working area of pulley room	/	/
288	57.1	Ventilation of machine room	Comply with requirements	Pass
289	57.2	Lighting of machine room	Comply with requirements	Pass
290	57.3	Lighting of pulley room	/	/
291	58.1	Total requests for labels, notices, markings and operating instructions	Comply with requirements	Pass
292	58.2	Labels in the car	Comply with requirements	Pass
293	58.3	Operating directions or display in the car	Comply with requirements	Pass
294	58.4	Permanent markings of walls or doors with glass	/	/
295	58.5	Especial function or instructions in the car	/	/
296	58.6	Operating instructions on the car roof	Comply with requirements	Pass
297	58.7	Notices of the main switch(es) several lifts and light switch (es)	Comply with requirements	Pass
298	58.8	Program or explaining about emergency operation in the machine room	Comply with requirements	Pass
299	58.9	Max. permissible load on the lifting beam or hooks in the machine room	Comply with requirements	Pass
300	58.10	Stopping device in the pulley room	/	/
301	58.11	Stopping device in the pit	Comply with requirements	Pass
302	58.12	Notices fixed to the outside of the machine and pulley rooms or trap-doors	Comply with requirements	Pass
303	58.13	Notice near the inspection doors outside the well	/	/
304	58.14	Symbol or color of the button of the alarm switch	Comply with requirements	Pass
305	58.15	Sign attached unlocking triangle key	Comply with requirements	Pass
306	58.16	Distinguishing landing doors with manual opening and other adjacent doors	/	/

No.	Items No.	Test items	Test results	Conclusions
307	58.17	Sign of rated load on goods lifts	Comply with requirements	Pass
308	58.18	Data plate of overspeed governor	Comply with requirements	Pass
309	58.19	Data plate of buffer other than energy accumulation type buffers	/	/
310	58.20	Data plate of safety gear	Comply with requirements	Pass
311	58.21	Data plate of locking device	Comply with requirements	Pass
312	58.22	Data plate of ascending car overspeed protection means	Comply with requirements	Pass
313	59.1	Car running speed	v: 0.514m/s 102.8% v_{rated} See appendix 1	Pass
314	59.2	Machine room noise	Average value: 76.5dB(A) See appendix 2	Pass
315	59.3	Noise of opening or closing doors course for passenger lift	/	/
316	59.4	Running noise in car for passenger lift	/	/
317	59.5	Balancing coefficient	Testing value: 0.46 See appendix 1	Pass
318	59.6	Over loading running test	Comply with requirements	Pass
319	59.7	Acceleration and retardation for passenger lift	/	/
320	59.8	Average acceleration and retardation for passenger lift	/	/
321	59.9	Time of opening or closing doors for passenger lift	/	/
322	59.10	Acceleration of vertical librating or horizontal librating for passenger lift	/	/
323	59.11	Leveling precision	Max. deviation: +2.0mm See appendix 2	Pass
324	59.12	Safety gear test for car or counterweight or balancing weight	Comply with requirements	Pass
325	59.13	Accessional test of exceeding area for good lift	/	/
326	59.14	Accessional test of auto lift	Comply with requirements	Pass
327	60.1	Basic requests for the lift in the especial environment or exposing to nature environment	/	/
328	60.2	Risk estimate for the lift in the especial environment or exposing to nature environment	/	/

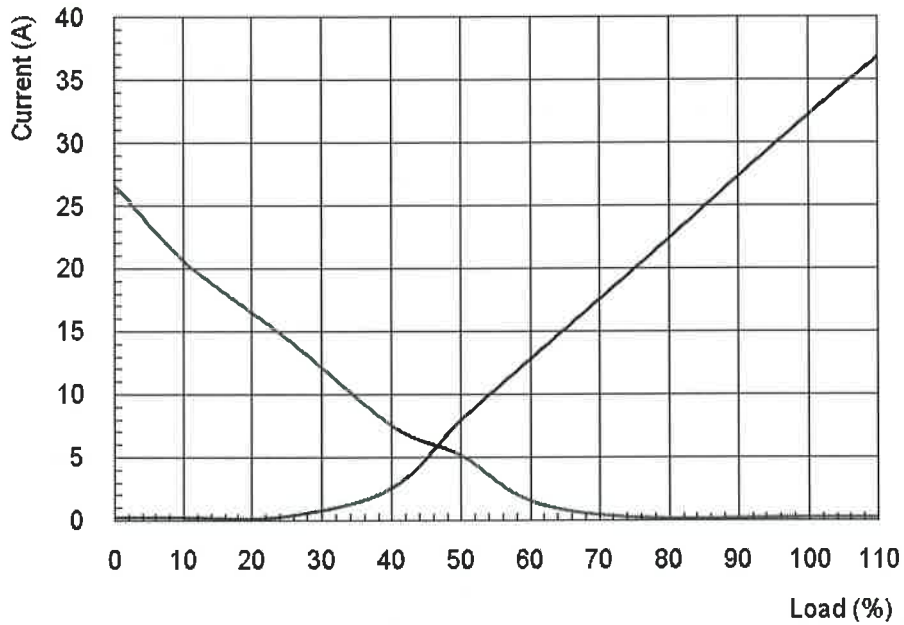
Appendix 1 Test data of running speed and balancing coefficient

1.1 Running speed

Direction Items		Up		Down		Up		Down		Up		Down		Up		Down	
		Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down		
Load	%	0		25		40		50		75		100		110			
	kg	0		1250		2000		2500		3750		5000		5500			
Current A		0.2	26.6	0.3	14.4	2.6	7.5	8.0	5.1	19.9	0.2	32.2	0.2	36.8	0.2		

1.2 Balancing coefficient

Balancing coefficient: 0.46



Appendix 2 Test data of noise, leveling precision.

2.1 Noise

Unit: dB (A)

Landing station	Car doors		Landing doors		Background	Running noise in car			Machine room	Background
	Opening	Closing	Opening	Closing		Up	Down	Background		
/	/	/	/	/	/				F: 76.5	50.3
/	/	/	/	/	/	/	/	/	R: 75.1	
/	/	/	/	/	/				U: 70.8	
Standard	/					/			≤80	
Note	/									

2.2 Leveling precision

Unit: mm

Stopping	Direction	No load	Rated load
1—3 3—1	Up	+1.0	+1.0
	Down	-2.0	-1.0
1—2 2—1	Up	+2.0	+2.0
	Down	-2.0	-2.0
Standard	±15		
Note	/		

