

C5469

GRENFELL TOWER

COMPLETED

ORDER PROGRESS SHEET

SITE	grenfell tower								
CUSTOMER O/N									
DATE ORDER RECEIVED									
CUSTOMER	kensington and chelsea								
JOB N/O									
Materials	Order To	Order N/O	T&C	Order Date	Quote Req	Required On	Revised Date	Date Received	Quality
DRAWINGS			✓		*				
LABOUR			✓		*				
LIFT REMOVAL			✓		*				
TESTER			✓		*				
SHAFT PAINTING			✓		*				
MAKING GOOD			✓		*				
SPECIALIST WORKS			✓		*				
CRANE			✓		*				
Controller	TVC	62381				* 1-3-05			
Controller fixings									
Controller isolation									
Controller channels									
Rubber mat(s)									
Gear unit	SABSI	62380		151107		* 1-3-05			
Brake switch									
Divertor						*			
Gear oil									

Motor oil									
Bed plate									
Bed plate fixing									
Bed plate isolation									
Isolating mounting channels									
Hand winding control	TJC	62381							
Emergency trickle charger									
Gear isolation switch									
Elevator Monitoring Unit									
Overspeed governor	Booe	62608	61204		10205				
Overspeed governor baseplate									
Governor guard	APEX								
Vee guard	APEX								
Winding Wheel Guard	APEX								
Rope hole guard plates									
Rope hold guard felt									
Motor room plinth ladder									
Motor room hand rail									
Lifting beam						*			
Lifting beam test						*			
Consumer unit									
Consumer unit main switch									
M.C.B.s									
Motor room emer. light test switch									
Socket 13amp									
Motor room light switch(Engraved)									
Lift car light switch(Engraved)									
Motor room lights									
Motor room emgcy lights									
Motor room heaters									
Thermostat									
Spares cabinet									
Tool cabinet									
Tool board									

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Encapsulated drawings								
Encapsulated drawings storage								
Motor room access notice								
Electric shock notice								
Hand winding instructions								
Shaft light notice								
Motor room light notice								
Gear oil notice								
Hand winding buzzer notice								
Equipment Paint								
Fire Extinguisher								
CWT guard	APEX							
CWT guard brackets								
Division screens								
Division screen brackets								
Shaft screening								
Shaft screen brackets								
Pit toe-guard								
Fascias								
Fascia brackets								
CWT frame								
CWT fillers								
CWT Filler retaining angle								
CWT Guide shoe brackets								
CWT guide shoes	LITEX	62569	1-12-04		15	05		
CWT Guide shoe liners								
CWT Guide shoe oilers								
Main lifting ropes	CERTEX	KA064216	19/4/05		21	4/05		
Rope clips & thimbles								
Governor gear rope	CERTEX	KA064216	19/4/05		21	4/05		
Governor rope clips								
Rope anchorages car								
Rope anchorages counterweight								
Governor gear torpedo								

APX0000
APX00000094/5

Car Guides									
Car Guide Clips									
Car Guide Brackets									
Car Guide Sole Plate									
Car Guide Keeper Plates									
Car Guide F/Plate									
Car F/Plate bolt									
Car Guide wall Fixings									
Car Guide Extensions									
Counterweight Guides									
C/wt Guide Clips									
C/wt Guide Brackets									
C/wt Guide Soie Plate									
C/wt Guide Keeper Plate									
C/wt Guide F/plate									
C/wt F/plate Bolt									
C/wt Guide wall Fixings									
C/wt Guide Extensions									
Drip trays (plastic)									
Car buffer(s) spring - hydraulic									
Car buffer stool(s)									
CWT buffer spring - hydraulic									
CWT buffer stool									
sill + frame									
Door frame fixings									
Sill angles	PROP	62602		61204			FEB 05		
Door frame brackets	"	"		"					
Bottom track steels	"	"		"					
Architraves	"	"		"					
Architrave fixings	"	"		"					
Landing doors	"	"		"					
Landing door vision frame	"	"		"					
Landing door vision frame glass	"	"		"					
Landing door vision frame makrolon	"	"		"					
Door spuds	"	"		"					

Door baffles								
Spring closer plates								
Lock adapter plates								
Hanger adapters								
Lock release pivots								
Door buffers								
Door shims								
Landing hangers	GAL	62608	61204		20.2.05			
Landing locks	CAL	'						
Top tracks	CAL	'						
Spring closers	GAL	'						
Landing safety edges								
Lock releases								
Top track fixings								
Landing door fixings								
Pushes	LIFT	61367	221-05		28.2.05			
Push trays								
oasys								
Indicator pins FCUMES	STANT	63543	17-205		30.3.05			
Hall lanterns and gongs								
Direction arrows								
Firemans switch								
Pit switch	ATA							
Alarm bells	ATA							
Governor tension pulley frame	APEX							
Shaft switches								
Shaft switch brackets								
Shaft switch guide clips								
Shaft Switch Uni-Strut								
Vanes								
Vane brackets								
Vane guide clips								
Vane fixings								
Tape head tape (per metre)								
Tape head fixing brackets								
Trailers (metres)								

Trailing anchorage								
Trailer halfway clamp								
Compensating chains/ropes								
Pit ladder								
Pit ladder hand rail								
Shaft lighting	ATA							
Pit socket outlet	ATA							
Electrical list	ATA							
Lift Car base	PROP	62602	6 1204			20 205		
Slings	"	"						
Guide shoe brackets	"							
Buffer plates	"							
Sling fixings set	"							
Safety gear	112	62603	6 1204			20 205		
Safety gear switch	"	"	"			"		
Safety gear linkage	"	"	"			"		
Safety gear strap								
Roller guide shoes	LIFTEL	62564	1-1204			15 105		
Slipper guide shoes								
Guide shoe liners								
Guide shoe oilers								
Guide shoe fixings								
Lift car Enclosure	PROP	62602	6 1204			20 205		
Lift car handrail(s)								
Lift car toe guard								
Lift car flooring								
Lift car protective drapes								
Lift car isolation								
Car stabilisers								
Operator back support								
Door gear foot plate								
Car door								
Car door vision frame								
Car door vision frame glass								
Car door vision frame makrolon								

APX000C APX00000094/8

Car door spuds									
Car door baffles									
Slampost buffers									
Car door track									
Car sill support									
Car door hanger assembly	GAL	62602	61204	20.2.05					
Car door operator	GAL	"	"	"					
Car gate contact	GAL	"	"	7					
Safety edge	F	"							
Detector edge	MERCO								
Coupler									
Photoelectric cell									
Photocell bracket									
Cubic reflector									
Inductors									
Inductor mounting box									
Inductor Connecting Strip									
Tape head unit	TVC	062381							
Tape head magnets									
Car light									
Emergency light unit									
Car top control									
Load weighing device									
Retiring ramp									
Telephone cabinet									
Telephone handset									
Telephone AutoDial	WIND	64716	25.5.05						
Car pusnes	LIFS								
Car keyswitches		63153							
Car position indicator	STENT	63433							
Car position indicator encoder	STENT	14 ANUL							
Speech synthesiser	STENT	"							
Overload indicator	STENT	"							
Fire control indicator									
Door closing buzzer									
Fixed ramp									

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Trailer anchorage									
Halfway box									
Terminal connectors									
End caps for trailers									
Load plate									
Cross head data plate	Apex								
Rope gatherer									
Lanyards									
Car Top Guard Rail									
Extras									
Hoardings			✓						
Scaffolding			✓			*			
Capstone/upstand breakout			✓			*			
Architrave breakout			✓			*			
Paint motor room			✓			*			
Paint lift shaft			✓			*			
Cut-out pushes			✓			*			
Cut-out indicators			✓			*			
Build-in architraves			✓			*			
Form new upstands			✓			*			
Enlarge rope holes			✓			*			
Cut new governor holes			✓			*			
New motor room door			✓			*			
New motor room trap-door			✓			*			
New motor room trap-door guarding			✓			*			
3 Phase mains supply			✓			*			
1 Phase Ancillary supply			✓			*			
NICEIC testing			✓			*			
SPRAYING ENTRANCES			✓						
LOHER REGULATOR IF TVLC									
ASTRAGALS									
EXPRESS RELEASE KEY									

ORDER PROGRESS SHEET

SITE	grenfell tower								
CUSTOMER O/N									
DATE ORDER RECEIVED									
CUSTOMER	butler and young								
JOB N/O	c5471								
Materials	Order To	Order N/O	T&C	Order Date	Quote Req	Required On	Revised Date	Date Received	Quality
DRAWINGS			✓		*				
LABOUR			✓		*				
LIFT REMOVAL			✓		*				
TESTER			✓		*				
SHAFT PAINTING			✓		*				
MAKING GOOD			✓		*				
SPECIALIST WORKS			✓		*				
CRANE			✓		*				
Controller	TULC	65425		11-7-05	*		10-9-05		
Controller fixings									
Controller isolation									
Controller channels									
Rubber mat(s)									
Gear unit					*				
Brake switch									
Diverter					*				
Gear oil									

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Motor oil										
Bed plate										
Bed plate fixing										
Bed plate isolation										
isolating mounting channels										
Hand winding control										
Emergency trickle charger										
Gear isolation switch										
Elevator Monitoring Unit	EMU									
Overspeed governor	BUCHER									
Overspeed governor baseplate										
Governor guard	ARK									
Vee guard										
Winding Wheel Guard										
Rope hole guard plates										
Rope hold guard felt										
Motor room plinth ladder										
Motor room hand rail										
Lifting beam							*			
Lifting beam test							*			
Consumer unit										
Consumer unit main switch										
M.C.B.s										
Motor room emer. light test switch										
Socket 13amp										
Motor room light switch(Engraved)	A+A									
Lift ear light switch(Engraved)	A+A									
Motor room lights	A+A									
Motor room emgcy lights										
Motor room heaters	A+A									
Thermostat										
Spares cabinet										
Tool cabinet										
Tool board										

Encapsulated drawings									
Encapsulated drawings storage									
Motor room access notice									
Electric shock notice	A-1A								
Hand winding instructions									
Shaft light notice									
Motor room light notice									
Gear oil notice									
Hand winding buzzer notice	INPWE								
Equipment Paint									
Fire Extinguisher									
CWT guard	HYDRO PACKAGE BUCHAR								
CWT guard brackets	GUP 055287								
Division screens									
Division screen brackets									
Shaft screening									
Shaft screen brackets									
Pit toe-guard									
Fascias									
Fascia brackets									
CWT frame									
CWT filters									
CWT Filler retaining angle									
CWT Guide shoe brackets									
CWT guide shoes									
CWT Guide shoe liners									
CWT Guide shoe oilers									
Main lifting ropes									
Rope clips & thimbles									
Governor gear rope									
Governor rope clips									
Rope anchorages car									
Rope anchorages counterweight									

Governor gear torpedo									
Car Guides									
Car Guide Clips									
Car Guide Brackets									
Car Guide Sole Plate									
Car Guide Keeper Plates									
Car Guide F/Plate									
Car F/Plate bolt									
Car Guide wail Fixings									
Car Guide Extensions									
Counterweight Guides									
C/wt Guide Clips									
C/wt Guide Brackets									
C/wt Guide Sole Plate									
C/wt Guide Keeper Plate									
C/wt Guide F/plate									
C/wt F/plate Bolt									
C/wt Guide wall Fixings									
C/wt Guide Extensions									
Drip trays (plastic)									
Car buffer(s) spring - hydraulic									
Car buffer stool(s)									
CWT buffer spring - hydraulic									
CWT buffer stool									
sill + frame									
Door frame fixings									
Sill angles		PROP 65193		1.7.05		9.9.05			
Door frame brackets		"							
Bottom track steels		"							
Architraves		"	TO BE MEASURED?						
Architrave fixings		"							
Landing doors		"							
Landing door vision frame									
Landing door vision frame glass									
Landing door vision frame makrolon									

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Door spuds									
Door baffles									
Spring closer plates									
Lock adapter plates									
Hanger adapters									
Lock release pivots									
Door buffers									
Door shims									
Landing hangers	1LF	65203	1-7-05			1-9-05			
Landing locks	"	"							
Top tracks	"	"							
Spring closers	"	"							
Landing safety edges									
Lock releases	PROP	65193	1-7-05			1-9-05			
Top track fixings									
Landing door fixings									
Pushes	LIFERUNE	65205	1-7-05			1-9-05			
Push trays									
oasys									
Indicator trays									
Hall lanterns and gongs									
Direction arrows									
Firemans switch									
Pit switch	ATA								
Alarm bells	ATA								
Governor tension pulley frame	BUCAR								
Shaft switches	ATA								
Shaft switch brackets									
Shaft switch guide clips									
Shaft Switch Uni-Strut									
Vanes									
Vane brackets									
Vane guide clips									
Vane fixings									
Tape head tape (per metre)									

Tape head fixing brackets	TUL								
Trailers (metres)	ATA								
Trailing anchorage									
Trailer halfway clamp									
Compensating chains/ropes									
Pit ladder									
Pit ladder hand rail									
Shaft lighting	ATA								
Pit socket outlet	ATA								
Electrical list	ATA								
Lift Car base	PROP	65193		1-7-05		9-9-05			
Sling	Bucner	65287		1-7-05		9-9-05			
Guide shoe brackets									
Buffer plates									
Sling fixings set									
Safety gear									
Safety gear switch									
Safety gear linkage									
Safety gear strap									
Roller guide shoes									
Slipper guide shoes									
Guide shoe liners									
Guide shoe oilers									
Guide shoe fixings									
Lift car Enclosure									
Lift car handrail(s)									
Lift car toe guard									
Lift car flooring									
Lift car protective drapes									
Lift car isolation									
Car stabilisers									
Operator back support	PROP	65193		1-7-05		9-9-05			
Door gear foot plate	PROP	"		"		"			
Car door	PROP	"		"		"			
Car door vision frame									

Car door vision frame glass									
Car door vision frame makrolon									
Car door spuds									
Car door baffles									
Slampost buffers									
Car door track									
Car sill support									
Car door hanger assembly									
Car door operator									
Car gate contact									
Safety edge									
Detector edge		RENCO							
Coupler									
Photoelectric cell									
Photocell bracket									
Cubic reflector									
Inductors									
Inductor mounting box									
Inductor Connecting Strip									
Tape head unit		TULC							
Tape head magnets		TULC							
Car light		Red							
Emergency light unit									
Car top control		ILC							
Load weighing device	Backbone	WA							
Retiring ramp									
Telephone cabinet									
Telephone handset									
Telephone AutoDial		WINDCRST							
Car pushes		LIFESAVE	6S205	1-7-05			9-9-05		
Car keyswitches									
Car position indicator		STENT	6S204	1-7-05			9-9-05		
Car position indicator encoder		INPAVEL							
Speech synthesiser		STENT	6S204	1-7-05			9-9-05		
Overload indicator		STENT	6S204	1-7-05			9-9-05		
Fire control indicator									

Door closing buzzer									
Fixed ramp									
Trailer anchorage									
Halfway box									
Terminal connectors									
End caps for trailers									
Load plate									
Cross head data plate									
Rope gatherer									
Lanyards									
Car Top Guard Rail									
Extras									
Hoardings	?		✓						
Scaffolding			✓			*			
Capstone/upstand breakout			✓			*			
Architrave breakout			✓			*			
Paint motor room			✓			*			
Paint lift shaft			✓			*			
Cut-out pushes			✓			*			
Cut-out indicators			✓			*			
Build-in architraves			✓			*			
Form new upstands			✓			*			
Enlarge rope holes			✓			*			
Cut new governor holes			✓			*			
New motor room door			✓			*			
New motor room trap-door			✓			*			
New motor room trap-door guarding			✓			*			
3 Phase mains supply			✓			*			
1 Phase Ancillary supply			✓			*			
NICEiC testing			✓			*			
SPRAYING ENTRANCES			✓			*			

APX000 APX00000094/18

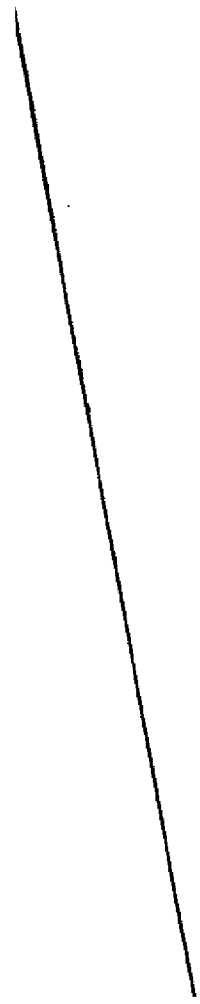
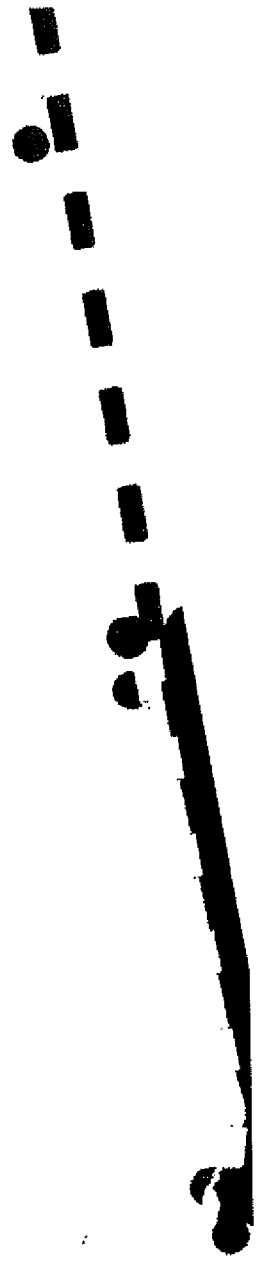
Table 1. Certificate of test and examination for electric passenger and goods lifts

Notes for the completion of this certificate

- The references quoted below in association with a part number refer to clauses, figures, tables or annexes of the stated part of BS 6855. Other clause numbers relate to this subsection of BS 6855.
- Statements and replies to all relevant questions should be entered in the appropriate boxes. Where multiple choice questions are posed, only one of the alternative boxes should be ticked.
- Boxes marked with an asterisk (*) should be completed by the vendors design office.
- Italic type is used where reference is made to a requirement of BS 6855: Part 1: 1996.

1 Description of installation

<p>Location GRENFELL TOWER *</p>	<p>Vendor APEX *</p>																					
<p>Length Of Travel 63.209 m</p>	<p>Vendors Identification No C5470 *</p>																					
<p>Number of levels served:</p> <p style="margin-left: 20px;">Total 22 *</p> <p style="margin-left: 20px;">Front 22 *</p> <p style="margin-left: 20px;">Rear 1 *</p> <p style="margin-left: 20px;">Side 1 *</p>	<p>Purchasers identification No H091 H091 *</p>																					
<p>Rated Load 900 kg * 12 Persons *</p> <p>Rated Speed 2.0 m/s *</p>	<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Specified</th> <th style="text-align: center;">Actual at time of test</th> </tr> </thead> <tbody> <tr> <td>Voltage</td> <td style="text-align: center;">415 *</td> <td style="text-align: center;">413</td> </tr> <tr> <td>Phase</td> <td style="text-align: center;">3 *</td> <td style="text-align: center;">3</td> </tr> <tr> <td>Frequency</td> <td style="text-align: center;">50Hz *</td> <td style="text-align: center;">50Hz</td> </tr> <tr> <td>Wire(3or4)</td> <td style="text-align: center;">3 *</td> <td style="text-align: center;">3</td> </tr> <tr> <td>Fuse Rating</td> <td style="text-align: center;">*</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Fuse Type</td> <td style="text-align: center;">*</td> <td style="text-align: center;">HRC</td> </tr> </tbody> </table>		Specified	Actual at time of test	Voltage	415 *	413	Phase	3 *	3	Frequency	50Hz *	50Hz	Wire(3or4)	3 *	3	Fuse Rating	*	100	Fuse Type	*	HRC
	Specified	Actual at time of test																				
Voltage	415 *	413																				
Phase	3 *	3																				
Frequency	50Hz *	50Hz																				
Wire(3or4)	3 *	3																				
Fuse Rating	*	100																				
Fuse Type	*	HRC																				
<p>Machine room location</p> <p style="margin-left: 20px;"><input checked="" type="radio"/> Above well *</p> <p style="margin-left: 20px;"><input type="radio"/> Below well *</p> <p style="margin-left: 20px;"><input type="radio"/> At side *</p> <p style="margin-left: 20px;"><input type="radio"/> Within Shaft *</p>	<p>Are the above entries acceptable?</p> <p style="text-align: right;"><input type="radio"/> Yes <input type="radio"/> No</p>																					
<p>Machine room temperature at start of dynamic tests 26 °C</p>	<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Specified *</th> <th style="text-align: center;">Actual</th> </tr> </thead> <tbody> <tr> <td>Main Switch Rating</td> <td style="text-align: center;">100 A</td> <td style="text-align: center;">100 A</td> </tr> <tr> <td>Is the Switch Fused</td> <td style="text-align: center;"><input type="radio"/> Yes <input type="radio"/> No</td> <td style="text-align: center;"><input checked="" type="radio"/> Yes <input type="radio"/> No</td> </tr> <tr> <td>Is it lockable off</td> <td style="text-align: center;"><input type="radio"/> Yes <input type="radio"/> No</td> <td style="text-align: center;"><input checked="" type="radio"/> Yes <input type="radio"/> No</td> </tr> <tr> <td>Number of poles</td> <td></td> <td style="text-align: center;">3</td> </tr> </tbody> </table>		Specified *	Actual	Main Switch Rating	100 A	100 A	Is the Switch Fused	<input type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No	Is it lockable off	<input type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No	Number of poles		3						
	Specified *	Actual																				
Main Switch Rating	100 A	100 A																				
Is the Switch Fused	<input type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No																				
Is it lockable off	<input type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No																				
Number of poles		3																				
<p>Reeving Ratio 1 - 1 *</p>	<p>NOTE. A four-pole switch is necessary if emergency lowering is fitted</p>																					



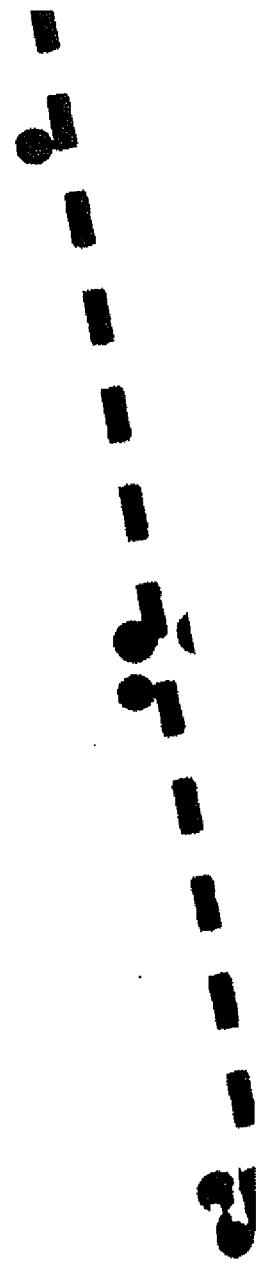


Table 1. Certificate of test and examination for electric passenger and goods lifts (cont)

- 4) Is the chain test certificate available and in order? Yes No *
- 5) Are the anchorages in accordance with 9.2.5 of Part 1? Yea No *
- 6) Do the chains conform to 9.5 of part 1, ensuring distribution of load between chains?
- | | | | |
|--|-----------|--|--|
| | Specified | | Actual |
| <input type="radio"/> Yes <input type="radio"/> No * | | | <input type="radio"/> Yes <input type="radio"/> No |
- d) Eyebolts:
- | | | | |
|---|--|--|--|
| | Specified | | Actual |
| If eyebolts used do they conform to Part 8? | <input type="radio"/> Yes <input type="radio"/> No * | | <input type="radio"/> Yes <input type="radio"/> No |

2.2 Compensation

- a) Is compensation provided? Yes No *

b) If yes what type?

	Specified	Actual
1) Rope:		*
2) Chain:		*
3) Anti Rebound:		*
4) Number:		*
5) Size:		*

2.3 Safety gear, overspeed governor, overspeed governor rope and tension pulley

- a) Has the safety gear been tested in accordance with F.3 of part 1 and certified in accordance with F.3.5 of part 1? Yes No *
- b) If YES, is the data plate fitted in accordance with 15.14 of Part 1? Yes No
- c) Is the safety gear sealed (see 9.8.6.4 of Part 1)? Yes No
- d) Confirm that the governor has been tested in accordance with F.4 of Part 1 and certified in accordance with F.4.3 of part 1: Yes No *
- e) Specify overspeed governor type: **BIDIRECTIONAL - BODE**
- f) State type of overspeed governor fitted: **~~BODE~~ VCB 098/1**
- g) Is the data plate fitted & in accordance with 15.6 of Part 1? Yes No
- h) Confirm that the governor is sealed: Yes

	Specified		Actual	
i) State safety rope nominal diameter:	8	mm	8	mm

- j) Confirm that the safety gear, overspeed governor, overspeed governor rope and the tension pulley operate as a compatible system: Yes *

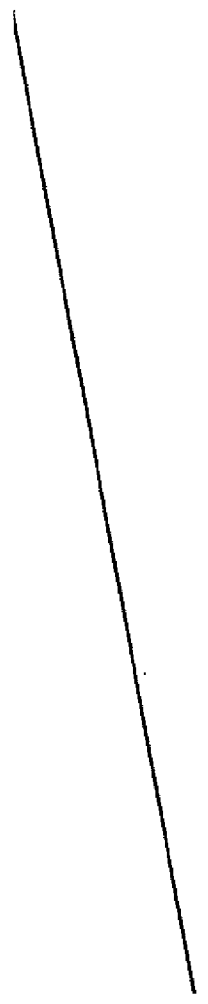
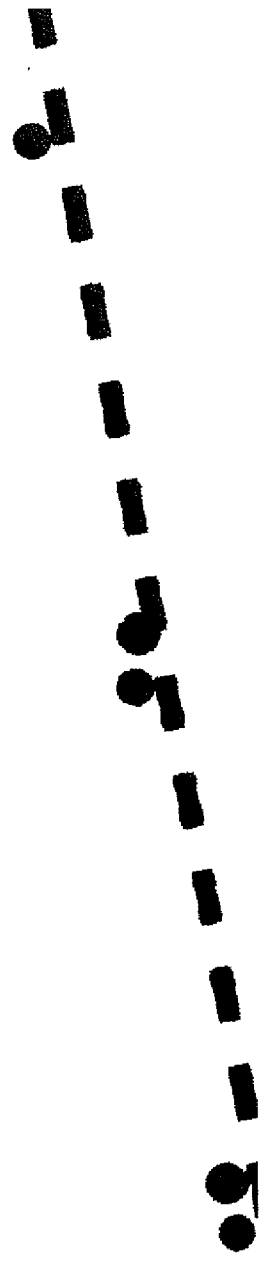


Table 1. Certificate of test and examination for electric passenger and goods lifts (cont)

2.4 Car			
a) Confirm that the available floor area, related to rated load and maximum number of passengers, conforms to 8.2 of Part 1?		<input checked="" type="checkbox"/> Yes *	
b) State the internal width, i.e. wall to wall (without finishes):	Specified	mm*	Actual 1400 mm
c) State the internal depth, i.e. front return to rear wall or front return to rear return (without finishes):		mm*	1400 mm
2.5 Energy accumulation buffers (spring buffers)			
a) Confirm that the buffers conform to 10.4.1 of part 1		<input checked="" type="checkbox"/> N/A *	
b) State number fitted	Specified		Actual *
c) Confirm that the buffers are correctly identified		<input type="checkbox"/> Yes	
2.6 Energy accumulation buffers (polyurethane buffers)			
a) Confirm that the buffers conform to 10.4.1 of part 1		<input checked="" type="checkbox"/> N/A *	
b) State size selected:	Specified		Actual *
c) State number fitted:			*
d) Confirm that the buffers are correctly identified:		<input type="checkbox"/> Yes	
2.7 Energy dissipation buffers (e.g. oil)			
a) Confirm that the buffers have been tested in accordance with F.5 of Part 1 and certified in accordance with F.5.4 of Part 1?		<input checked="" type="checkbox"/> Yes *	
b) Is the data plate in accordance with 15.8 of part 1?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

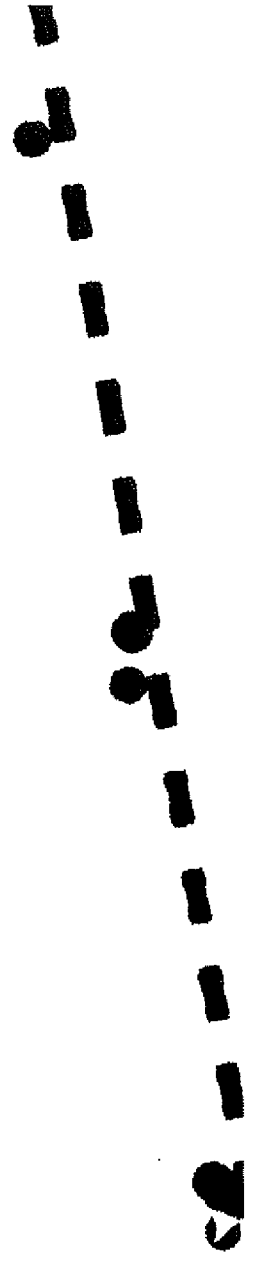


Table 1. Certificate of test and examination for electric passenger and goods lifts (cont)

c) *if No* are they suitable for submission to the test described in 11.3 of this table?

N/A Yes No

d) Are they correctly filled and not leaking?

Yes No

e) Is there reduced stroke buffering (see item 10 of this table)?

Yes No *

f) Is the stroke of each buffer in accordance with 10.4.3 of Part 1?

Yes No

g) State number fitted

Specified
2

Actual
2

2.8 Brake

Confirm that the brake sustains the static car at the lowest level when loaded with 125% of rated load

Yes

2.9 Landing door assemblies

a) Does the contract require the landing door assemblies to be fire-rated

Yes No *

If YES what is the fire-rating requirement

2 Hour*

b) Is the test certificate available and in order

N/A Yes No *

c) If yes and the doors are manually operated is the means of fire prevention a fusible link

N/A Yes No *

d) if NO describe the method used

e) Confirm that the fire rated elements of the door assembly are correctly fitted :

Yes

2.10 Door locks

a) Confirm that all the door locks have been tested in accordance with F1 of Part 1 and certified in accordance with F.1.4 of Part 1:

Yes *

b) Does the data plate conform to 15.13 of Part 1:

Yes No

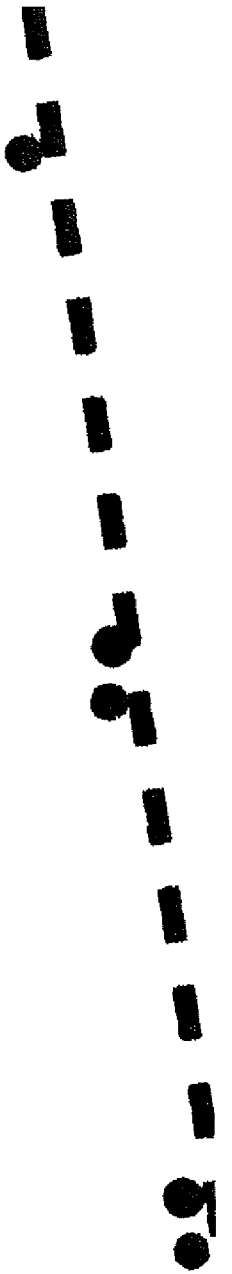


Table 1. Certificate of test and examination for electric passenger and goods lifts (cont)	
3 Static examination (electrical)	
3.1 Electric safety devices	
Confirm that the electric safety devices are in accordance with appendix A of Part 1	<input checked="" type="checkbox"/> Yes
3.2 Insulation resistance to earth (see clause 5)	
a) Lift motor	> 280 M Ohms
b) MG set (if fitted)	
1) Motor	// M Ohms
2) Generator	// M Ohms
c) Power system	> 900 M Ohms
d) Safety devices (state minimum reading)	> 900 M Ohms
3.3 Earthing	
a) Is the maximum continuity resistance to the earth provided less than 0.5 Ohms ? (see clause 7b):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b) Is the car connected to the controller earthing terminal by a separate conductor at least 0.75mm in cross section	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.3 Protection of conductors	
a) Is the fixed wiring in conduits (or trunking, or fittings which ensure equivalent protection) throughout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b) If NO do the cables conform to 13.5.1.2 of Part 1?	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No
3.3 Phase failure device	
Confirm that the phase reversal and phase failure protection operates correctly:	<input checked="" type="checkbox"/> Yes
3.3 Electrical wiring	
Do the electrical conductors, including travelling cables conform to 13.5 of Part 1?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Table 1. Certificate of test and examination for electric passenger and goods lifts (cont)

4 Dynamic tests

4.1 Safety contact/circuits

a) Have the contacts at each landing entrance been proved so that when broken they stop and prevent movement of the car outside the unlocking zone? Yes No

b) Have the mechanical locks at each landing entrance been proved for positive locking? Yes No

c) Have the car door/gate contacts been proved so that when broken there is no car movement outside the unlocking zone? Yes No

d) If separate terminal stopping switches are fitted, do they operate satisfactorily? N/A Yes No

e) Do the final limit switches operate satisfactorily? Yes No

	Nominal		Actual	
f) State the distance beyond terminal floor level at which the final limit switches are set to operate:	Top	150 mm*	100	mm
	Bottom	150 mm*	100	mm

g) Have the stopping devices on the car top and in the pulley room and pit been proved so that when broken they stop and prevent movement of the car? Yes No

h) Have all the other switches/contacts in safety devices been proved so that when broken they stop and prevent movement of the car? Yes No

i) Does the earthing of the most remote contact (lock or push button) operate a fuse or trip a circuit breaker without delay? Yes No

j) Have the stopping devices on the car top and in the pulley room and pit, been proved so that when broken they stop and prevent movement of the car under emergency electrical operation? N/A Yes No

4.2 Car top control station

a) Confirm that the lift speed when under car top control does not exceed 0.63 m/sec: Yes

b) Speed up: 0.25 m/s

c) Speed down: 0.25 m/s

d) Confirm that the design of the car top station conforms to 14.2.1.3 of part 1: Yes

e) Confirm that the operation of the car top station conforms to 14.2.1.3 of Part 1: Yes

* SET MBX3 (TOP FLOOR) 50mm lower
 To Allow For Empty Car

Car to Buffer 130
 Buffer Stroke: 230

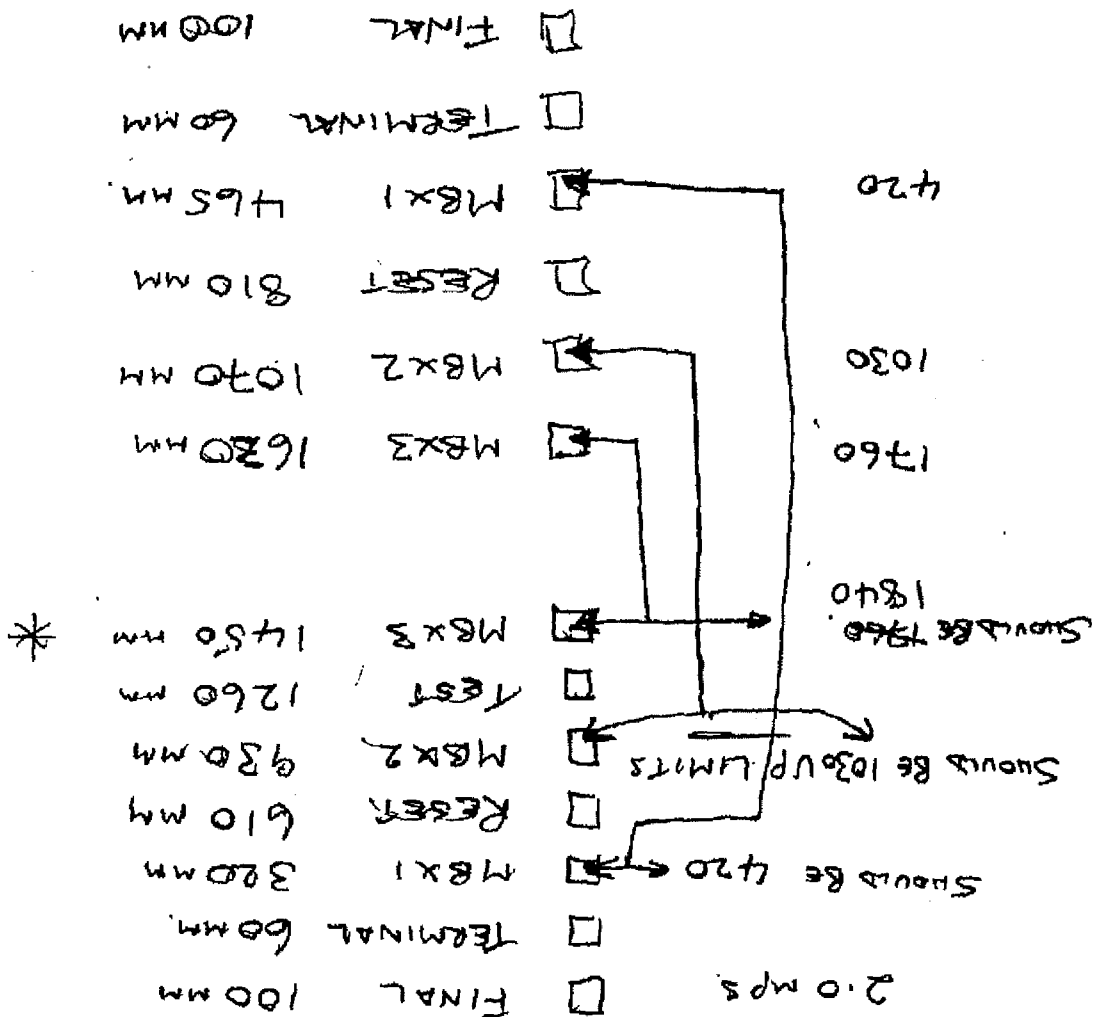


Table 1. Certificate of test and examination for electric passenger and goods lifts (cont)

4.3 Clearance and run-bys

a) Will the car and counterweight clear all obstacles with the car and rated load compressing the car buffers?

Yes No

b) When the counterweight rests on its fully compressed buffers, what is the minimum distance to the first striking point above the car, determined in accordance with 5.7.1.1c of Part 1?

~~440~~ MM 240 MM
m*

c) By how much is the distance in b) exceeded?

m 20 mm

d) When the counterweight rests on its fully compressed buffers, is there a sufficient space to accommodate a rectangular block 0.5 m x 0.6 m x 0.8 m above the car as specified in 5.7.1.1d of Part 1?

Yes No

e) Confirm that the further guided travel of the counterweight, with the car on its fully compressed buffers, exceeds 300mm, as specified in 5.7.1.2 of part 1:

Yes

f) When the car rests on its fully compressed buffers, is there a sufficient space to accommodate a rectangular block 0.5 m x 0.6 m x 1.0 m below the car as specified in 5.7.3.3 of Part 1, and at least 0.5 m between the bottom of the pit and the lowest point of the car

Yes No

NOTE. Attention is drawn to the requirement given in 5.7.3.3.b2 of part 1 that the clear distance between the bottom of the pit and the lowest part of the guide shoes or rollers of safety gear block, toe guards or parts of vertical sliding doors be at least 0.1m

4.4 Entrance clearances

a) Is the horizontal distance between the sill of the car and sill of all the landing doors 35 mm or less?

Yes No

b) Is the running clearance between door panels, and between panels and upright, lintels or sills 6 mm or less?

Yes No

c) Confirm that no recess or projection on the face of the sliding door panels exceeds 3 mm:

Yes

d) Is the distance between the inner surface of the well and the sill or framework of the car entrance or door 0.15 m or less, or 0.2 m if over a height not exceeding 0.5 m?

Yes No

e) If the answer to d) is NO, is the car door mechanically locked when away from the unlocking zone, in accordance with 8.11.1 of Part 1?

N/A Yes No

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Table 1. Certificate of test and examination for electric passenger and goods lifts (cont)

4.5 Door tests

NOTE. Where appropriate, the following tests should be carried out with the car and landing doors coupled

- a) How are the doors operated? Manually Powered If so answer f, b, i, j, k, l, m, n. If so answer all except rn.
- b) Is the measured maximum force to prevent closing, at the mid point of travel, 150 N or less? Yes No
State the figure recorded: 140 N
- c) Is the measured kinetic energy 10 J or less? Yes No
State the figure recorded: 4 J
- d) Do all the protective devices reverse the doors in accordance with 7.5.2.1.1.3 of Part 1? Yes No
- e) If the protective device is made inoperative (see 7.5.2.1.1.3c of Part 1)?
1) Do the doors remain open Yes No
2) If the answer to 1) is NO, do the doors close with a kinetic energy not exceeding 4 J? N/A Yes No
- f) Is the unlocking zone 0.2 m or less above and below landing levels (or 0.35 m in the case of simultaneously operated car and landing doors)? Yes No
- g) Do the landing doors have an automatic mechanical self-closing mechanism? N/A Yes No
- h) Is each set of landing doors capable of being unlocked from the outside with an emergency key? Yes No
If not, why not?
- i) Does the door motor/retiring ramp actuator protection system function correctly? N/A Yes No
- j) What form of electrical protection is provided for the door motor/retiring ramp actuator? AC CIRCUIT BREAKER
 A.C. circuit breaker Three phase circuit breaker Overloads in each phase Timing relay Thermistors
State the relevant characteristics: N/A Time to operate 20 s
Trip current (if applicable) 3 A
- k) Can the doors be manually opened within the unlocking zone with a force of less than 300 N with the power off (see 8.11.2 of Part 1)? Yes No
- l) If the rated speed of the lift is greater than 1.0 m/s is the force required to open the car doors when outside the unlocking zone 50 N or greater? N/A Yes No
- m) Does the 'car here' indicator conform to 7.6.2 of Part 1 for manual doors? N/A Yes No
- n) If the entrance clearances are not in accordance with 4.4d of this table, has it been checked that the car doors are mechanically locked when outside the unlocking zone in normal operation? N/A Yes No

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Table 1. Certificate of test and examination for electric passenger and goods lifts (cont)

5 Measurements of the electrical system

a) State the power system (use terms as described in 4.2.3 of Part 6)

b) Provide the following details of the lift motor (as stated on the data plate)

	Specified	Actual
Maker		ZIEHL ABEGG
Serial number		0450077312
Type		MSS VFD200L-4
Voltage	v	3~ 4360/4400
Power Rating	kw	30 kw
Current Rating	A	66 A
Speed	r.p.m.	1470 r.p.m.
Class of insulation		F
Duty rating		240 SPH.

c) Measure and record the following operational data when the car is at mid point of travel

Rated-speed operation (with lift performing approximately to its power system)									
Car loading condition		Lift motor speed 1) r.p.m.	Lift speed 1) m/s	Lift motor input			System input 2)		
				Running		Start	Running		Start
				V	A	A	V	A	A
Empty	up	1351	2.0	571	40.7	63.5	412	1.1	45.2
	down	1348	2.0	547	46.5	98.4	410	29.5	76.9
Balanced	up	1349	2.0	556	39.2	80.2	413	9.8	59.0
	down	1350	2.0	559	38.4	78.2	413	9.4	58.8
Rated	up	1348	2.0	548	47.0	103.5	412	30.5	79.2
	down	1352	2.0	572	39.8	63.8	416	1.1	45.6

- 1) Complete either of these columns in its entirety & make one entry only in the alternative column for the "rated up" condition
- 2) Energy converter or equivalent. Measure the system input to the controller from the main supply

Low-speed operation (with two speed a.c. motor) N/A									
Car loading condition		Lift motor speed 1) r.p.m.	Lift speed 1) m/s	Lift motor input			System Input 2)		
				Running		Start	Running		Start
				V	A	A	V	A	A
Empty	up								
	down								
Balanced	up								
	down								
Rated	up								
	down								

- 1) Complete either of these columns in its entirety & make one entry only in the alternative column for the "rated up" condition
- 2) Energy converter or equivalent. Measure the system input to the controller from the main supply

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Table 1. Certificate of test and examination for electric passenger and goods lifts (cont)

Maximum levelling deviation			
Car loading condition		Maximum levelling deviation (+ or -)	
		Specified mm	Actual mm
Empty	up		4
	down		2
Balanced	up		3
	down		3
Rated	up		2
	down		4

d) Quote the following data from the nameplate of the associated energy convertor(s) O/N/A

- 1) Type CIMR-L84045
- 2) Serial No J004969963T002
- 3) Input kw 115 A 400 V r.p.m.
- 4) Output kw 80kv A 400 V r.p.m.

6 Lift motor overcurrent protective devices

6.1 Main windings

a) Measure and record the following (tick box or enter value, as appropriate):

Type of device	Manual reset	Automatic reset	Time to operate s	Trip current A	Setting
Three phase circuit breaker	✓			100	
Overloads in each phase	✓		19		
Timing relay		✓			
Thermistor		✓			
Other (name type)					

b) Have you found these satisfactory? Yes No

