

KONE Ecosystem[™] MonoSpace[®] The machine-room-less elevator concept



Lift Operation Manual – The Village 1228 Nepean Highway, Cheltenham VIC 3192



Lift Operation Manual

The Village

Postal address

1228 Nepean Highway CHELTENHAM VIC 3192

5 x KONE N MonoSpace

KONE Elevators Pty Ltd VIC Office Telephone Number (03) 9934 8000

24 Hour Service 1300 362 022

Lift Operation Manual



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SECTION 1 - PROJECT DESCRIPTION

1.1	Lifts 1 & 2	Lift 3 & 4	Lift 5
Control Systems	LCE Serial Transmission	LCE Serial Transmission	LCE Serial Transmission
Power System	V3F Variable	V3F Variable	V3F Variable
Load (kg)	1,200 kg	1,200 kg	1,000 kg
Speed (m/s)	1.60 m/s	1.60 m/s	1.0 m/s
Number of floors	10	9	2
Number of entrances	1	1	1
Travel (m)	26.00 m	26.00 m	3.80 m

The lift arrangement for this project is of the overhead traction machine, side counterweight type with 2:1 roping coupled to machine sheave in the top of the lift shaft with rope end hitches for car and counterweight.

The controllers are located in the front wall of the lift shaft at the Top Floor served – Silver Brushed Stainless Steel Finish, Recess mounted. The riser of landing stations and the car control station utilise the controller memories to register and retain the appropriate call until one lift responds, then the registered call is cancelled.

Located in the controller is a brake release lever which must only be operated by authorised lift mechanics. Actuating the brake release lever will cause the lift to travel to an adjacent floor.



SECTION 2 - COMPONENT DESCRIPTION

2.1 ENTRANCES – all lifts

Entrance size is 2100 mm high x 1000 mm wide, two piece Centre opening Lift Car Doors.

2.2 LANDING DOORS & FRAMES

All entrances have Silver Brushed Stainless Steel doors.

All architraves are arranged with aluminium bottom tracks and have a square profile with flush door head.

2.3 LANDING CALL STATIONS

Lift Landing Call Stations mounted on Wall at all floors.

Terminal floor units have a single button and decorative faceplate. Main lobby floor unit also includes a Fire Service key switch. Intermediate floor units have (2) buttons and decorative faceplates.

All faceplates are fixed in position with concealed fixings. Labels placed above button units surface engraved with the words:

"DO NOT USE LIFT IF THERE IS A FIRE"

For operation of features refer Section 3.



2.4 CAR OPERATING PANEL

The Lift Car is fitted with a car operating panel which is fixed in position using concealed fixings. Depending upon customer requirements some lifts may have two car operating panels

Incorporated in the car operating panels are the following features:

- CAR DESTINATION BUTTONS
- ALARM BUTTON
- DOOR OPEN BUTTON
- CAR POSITION & DIRECTION INDICATOR
- FIRE SERVICE KEYSWITCH
- PRIORITY KEYSWITCH
- SPEAKER GRILL FOR EMERGENCY TELEPHONE
- LIFT NUMBER
- LOAD NOTICE
- HANDS FREE PHONE INSTRUCTIONS
- BUILDING ADDRESS NOTICE

For operation of features refer Section 3.

2.5 CAR ENCLOSURES

Lifts 1-4

The car enclosure has a clear internal size of 1400 mm wide x 1970 mm deep x 2200 mm high to the underside of the false ceiling.

Lift 5

The car enclosure has a clear internal size of 1400 mm wide x 1700 mm deep x 2200 mm high to the underside of the false ceiling.

Above the false ceiling is the roof which incorporates an exhaust fan.



SECTION 3 - OPERATION FEATURES

3.1 LANDING BUTTONS

3.1.1 Call Buttons

When the button is pressed and the call registered, the responding lift will stop at the floor and the doors will automatically open allowing access to the lift car. The button will illuminate when the call has been registered and extinguish when the lift arrives.

3.2 CAR POSITION / DIRECTION INDICATORS

Dot matrix Display and Direction arrows all floors

Whilst the lift is travelling up or down the relevant direction arrow and scrolling floor designations are illuminated. When the lift stops at a nominated floor the designated symbol (G or 1 or 2 etc) or arrows will continue to illuminate until the lift moves from that floor.

3.3 CAR OPERATING PANEL

3.3.1 Push Buttons

Car Destination Buttons

The car destination buttons are provided for each floor served. When a button is pressed the lift will stop at that floor and open the doors automatically to allow passengers free access to or egress from the lift. Each button illuminates when a car call has been registered for that floor and extinguishes when the lift arrives at the selected floor.

Alarm Button (Used in conjunction with Hands Free phone)

The alarm button is used to notify that the lift is stopped with passengers trapped inside. When the button is pressed an alarm bell sounds at the main floor and the hands free auto dialler telephone is also activated. This will automatically connect the lift to the KONE Elevators Emergency Service Number "1300 362 022". A two-way conversation can then take place between the passengers and the Service Area via the output speaker in the car and the input microphone in the front wall of the car operating panel.

Open Doors Button

This button when pressed and held is used to hold the doors open or to reopen the doors when in the closing mode operation. This button is operative only when the lift is at floor level.

Close Doors Button

This button when pressed and held may be used to expedite closing of the lift door when the lift is at floor level.



3.3.2 Car Operating Panel Switches

Fire Service Key Operated Switch

The Fire service key switch is only to be operated by authorized personnel.

Exclusive Service Key Operated Switch (Priority Service)

The key switch is a 2 Position switch with the key removable in the "Off" position. When the switch is in the "Off" position, the lift is on Normal Service, when switched to the "On" position, the lift is on exclusive service so that:

- (1) The lift can only be operated by a person in the lift car and will not respond to landing calls.
- (2) When a car call is registered, the doors will close and the lift will commence to move in response to a registered car call.
- (3) If more than one car call is registered, only the nearest call is answered and the remaining calls will be cancelled at the first stop.
- (4) Even though the automatic door devices are still operative, the lift will park at the floor required with the doors held indefinitely in the open position until a new car call is registered.
- (5) When the switch is returned to the "Off" position, the lift is now operating on normal service.

3.3.3 Emergency Telephone - Hands Free Type

Pressing the alarm button automatically connects the lift to the Emergency Service Number. A two-way conversation can then take place between the passengers and the Service Centre to which the telephone is connected, via the output speaker and the input microphone in the car operating panel.

3.3.4 Load Notice

This is a Statutory requirement and displays information required by the Lift Code as well as the Lift Number and Emergency Telephone instructions.

3.4 EMERGENCY LIGHT UNIT

This unit illuminates the car interior, emergency telephone instructions and alarm button when emergency lighting is in operation.

The emergency car lighting is wired to switch on automatically in the event of mains power failure and cut out automatically on restoration of mains power. These batteries have a four (4) hour life and are re-charged by a self contained solid state trickle charger.



3.5 DOOR CONTROL - CAR DOORS

Formula "Curtain of Light" is used as a detector of traffic across the car threshold.

Failure of the light beam will cause the doors to close at slow speed with warning buzzer sounding until the fault is rectified. Door dwell time will be increased.

The combination of calls placed on the car and interruption of this Curtain of Light will cause the door open time to reduce on normal operation.

Open door and close door buttons will allow passenger control of these car doors while lift is at floor.

All passenger door control features will be overridden in the event of a Fire Service recall.



SECTION 4 - CLEANING

4.1 CLEANING OF LIFTS

- a) The replacement of lift car illumination is not provided for in any maintenance agreement with the Lift Company.
- b) Mirror panels may be gently wiped over with a soft cloth dampened slightly. (Ensure moisture does not enter behind glass mirrors as damage to the reflective coating may occur).
- c) Stainless Steel front interiors of lift cars may be wiped over with a soft cloth to which has been applied either methylated spirit or a commercial brand window cleaner. Do not apply the cleaner directly to Stainless Steel Button Plates, as excess cleaning fluid will enter the buttons, causing damage to the contacts and slides. (Similar treatment applies to the landing button stations).
- d) Wall panels may be gently wiped over with a soft damp cloth.
- e) DO NOT USE ABRASIVE OR CHEMICAL CLEANERS
- f) Door tracks should be regularly vacuumed to remove dirt etc. To ensure smooth operation of the door they should also be checked for obstructions which may have fallen into the tracks.



SECTION 5 – EQUIPMENT

5	.1 EQUIPMENT DETAILS	Lifts 1 & 2	Lifts 3 & 4	Lift 5
	TYPE OF TRACTION	Single Wrap Traction	Single Wrap Traction	Single Wrap Traction
	HOIST MOTOR MAKE &	KONE Eco Disc™	KONE Eco Disc™	KONE Eco Disc™
	HOIST MOTOR RATED (kW)	11.4 kW	11.4 kW	5.70 kW
	HOIST ROPE DIAMETER	8 mm	8 mm	8 mm
	ROPING	2:1	2:1	2:1
	GUIDE SHOE TYPE - CAR	Sliding Guide Shoes	Sliding Guide Shoes	Sliding Guide Shoes
	GUIDE SHOE TYPE -	Sliding Guide Shoes	Sliding Guide Shoes	Sliding Guide Shoes
	BUFFER TYPE - CAR	CYOB47/207	CYOB47/207	P3/72
	BUFFER TYPE -	CYOB47/207	CYOB47/207	E2-55/90
	DOOR OPERATOR TYPE	AMD1	AMD1	AMD1
	LANDING DOOR TYPE	High Duty	High Duty	Base Duty

5.2 SPARE PARTS

The availability of spare parts is a key element of our service operation providing your equipment with reliable maintenance as well as giving us the ability to respond quickly to equipment breakdowns. Our technician vans carry the most frequently needed spares for the equipment in their service.

Our Victoria and Tasmania branches have access to a local store ensuring the fast, usually same day, delivery of parts. This store is linked to a central warehouse in Sydney servicing the whole of Australia and New Zealand, allowing next day delivery of parts.

Globally, KONE has over 150,000 spare parts available which can be distributed within 24 hours.



SECTION 6 - EMERGENCY RELEASE OF PASSENGERS

6.1 LIFT STOPPED WITH PASSENGERS

Firstly make contact with the passengers by speaking from a landing adjacent to the stopped lift. Ascertain the condition of the passengers and advise that assistance is on the way.

Telephone: 1300 362 022 KONE Elevators Pty Ltd

24 Hour Emergency Number as listed above.

Report the condition and position of the lift, the lift number and the fact that passengers are trapped inside.

Do not attempt to release the passengers. If the condition of a passenger is such that emergency rescue is required, communicate this situation to KONE Elevators and special arrangements will be made or advice given to suit the particular circumstances.

6.2 CALL OUT PROCEDURE

A call is initiated by pressing the alarm button inside the lift car, a hands free auto dialler telephone is activated.

This will automatically connect the lift to the KONE Elevators emergency service centre.

KONE Elevators Pty Ltd

24 HOUR SERVICE TELEPHONE NUMBER

1300 362 022



SECTION 7 - GENERAL GUIDE TO MAINTENANCE

7.1 TOP OF LIFT CARS AND LIFT EQUIPMENT IN THE LIFT SHAFTS

The cleaning of this equipment is covered by the maintenance contract for the lift and is therefore the responsibility of the contractor.

7.2 WALLS AND STRUCTURAL WORK INSIDE THE LIFT SHAFTS

The cleaning of this part of the building is not covered by any maintenance agreement. This work however, cannot be done other than by a lift contractor.

Cleaning of the well is usually required approximately every five (5) years, depending on environmental conditions. The lift maintenance contractor should advise the building owner when this work is required to be done. The price he would charge to carry out the work would be advised at this time.

7.3 PIT AT THE BOTTOM OF THE LIFT SHAFT

Removal of paper, dirt and debris from the lift pit is again not the responsibility of the lift contractor. This work is usually required to be done once every four (4) to eight (8) weeks depending upon the building environment.

The work may be done by arrangement with the lift maintenance contractor so that he provides access and makes safe the lift pits for the owner's cleaner during a routine lift maintenance inspection. It is essential that a qualified lift mechanic be in attendance during this work.

Alternatively, the cleaning work may be carried out by the lift contractor and the cost charged to the building owner.

Cleaning work in this area can be greatly reduced by ensuring that dust and other waste on floors throughout the building is not disposed of by sweeping it into the gap between the landing door sill and lift car sill.

7.4 MODULAR BASED MAINTENANCE

KONE Elevators have used a Modular Based Maintenance (MBM) system since 2003 to deliver lift maintenance to their customers. This system is continually evolving and delivers the following:

Reliability improvement

By concentrating on performing the right tasks in a planned sequence whilst visiting the site, the end result will drive an improvement in reliability.

Benchmarking

With a global approach, it is possible to set global targets on maintenance quality and productivity and to measure the relative performance.

Productivity improvement

Increasing the efficiency and effectiveness of the field personnel by performing the appropriate tasks, at the appropriate time, based on usage, the type of the equipment and its location. Further productivity improvements can be gained by managing and reducing the non-productive time.



Definitions

<u>Modular Based Maintenance</u> includes processes of planning, operating and defining a maintenance program specific to a single installation. This program takes into account the following variables in order to optimise the maintenance plan:

- 1. Number of starts or running time between planned maintenance visits and checks
- 2. Calendar time between planned maintenance visits and checks
- 3. Technical requirements of the equipment or specific need of the building type
- 4. Contractual and/or code requirements
- 5. Physical environment i.e. dust, moisture etc.

How it works

The regular site technician is sent maintenance orders electronically via their PDA to carry out inspections on the lift installation. The frequency of the orders is determined by the maintenance schedule programmed for the site. These visits are essentially maintenance inspections where the technician will meet with the on-site client contact to discuss any issues with the lift installation and check the operation of the lift installation.

The technician will make minor adjustments and/or repairs during the visit as required. Should the technician find a repair or adjustment that requires spare parts that he doesn't have on hand or will require a substantial amount of time, the technician will raise a "Service Repair" order to complete the work at a later date.

In addition to the regular maintenance inspections, once a year a crew of 2 men will carry out an "Annual Certification Visit" (ACV), once again based on orders sent electronically to their PDA. This crew is specifically equipped to carry out more intense maintenance on the lift installation. They will carry out preventative maintenance on items such as car and landing doors, controllers, machines and lift shaft equipment. Each of these areas have specific modules that detail what work is to be carried out to complete the module. Also during this visit all the required statutory tests are also carried out on the lift safety systems.

Should either the regular site technician or the ACV crew identify the need for a major repair, (e.g. motor bearing replacement) a notice will be raised by them detailing the repair required. This is sent to the responsible Coordinator for the site who then actions the repair, typically by using the notice to inform the Comprehensive Repair team of the need for the work. The Comprehensive Repair Coordinator will then raise an order for the work. Based on the urgency of the major repair, the work will be programmed for completion at a time that will cause minimum disruption to the users of the lifts.

This team has all the necessary heavy equipment and expertise to complete any major repair that may be required.

When any order for a maintenance visit or repair is completed, a report detailing the work completed is sent to the customer via email.



7.5 LIFT MAINTENANCE MODULE DESCRIPTIONS & FREQUENCIES

System Inspection and Service – Our Service technician will visit your site contact (where present) to discuss the lift performance & note any concerns for action during the visit. Check ride quality & leveling. Check car & landing buttons & indication operation. Test alarm & emergency phone where fitted. Inspect machine room, shaft, car top, lift pit and associated equipment. (Performed each visit dependent upon your Maintenance Contract).

Basic Module – Check quality of ride, operation of the lift car & landing doors. Note any leveling abnormalities. Check operation of car & landing buttons & indication. Test alarm & emergency telephone where fitted. Inspect machine room, car top, guide shoes, rope hitch points, sheaves, landing door, the lift pit & associated equipment. (Performed annually)

Shaft Module – Inspect hoisting rope & hardware, sheaves where fitted including counterweight & all lubrication points. Lubricate as required. Clean car top & inspect guides, guide rail surface, clearances & leveling devices. Test emergency lights where fitted, lift safety devices, governor & safety gear. Examine buffer clearances. (Performed annually)

Machine Module – Inspect machine room drive and diverting sheaves. Examine brake operation, brake shoe wear and drum. Strip, clean and reassemble lift brake plunger and pivots as per KONE Service Data as required. Check hoist motor bearing and sheave lubrication. (Performed annually)

Control Panel Module – Clean lift control cabinet. Inspect relays, contactors, modules, wiring and terminations. Test the operation of primary timers, overloads and special services as per KONE Service Data. Apply manufacturers recommended lubricant to Steel Wire Hoisting Ropes. (Performed annually)

Door Operator Module - Check the operation of the lift car doors and make adjustments where necessary as per KONE Service Data. Clean car door hanger tracks and inspect door rollers, upthrusts, guides, belts/chains and coupling assemblies. Check car door panels and clearances. (Performed annually)

Landing Door Module - Check condition and operation of lock contacts, wiring terminations and bridging blades and adjust where required. Inspect landing door panels, fire brackets, landing slippers, astrigals, door rollers and upthrusts. (Performed annually)

Mx Module - Check condition and operation of MX machinery as per KONE Service Data. (Performed biannually)



7.6 MAINTENANCE SITE RECORDING AND SITE RECTIFICATIONS

All documentation, callout, maintenance reports, and records are provided electronically via KONE's field tool and Konect email notification system to the nominated recipient.

KONE Field Mobility Tool

KONE's innovative Field Mobility Tool has enhanced Risk Management, improved service delivery, and enables us to provide the customer with real-time information allowing owners and managers to respond to their tenants/customers quickly. It also assists in reducing equipment downtime and provides owners and managers with the assurance that we can deliver our commitments. This tool adds Innovation and responsiveness to our customers' product and service requirements; this has established KONE as a market leader within the elevator and escalator industry.



KONE is now setting a new standard in service delivery with an innovative mobile package, which allows us to get information to and from our service technicians how and when we need to. The on-line status of our service technicians will improve the speed of service to our customers. You will benefit from:

- Response times and downtime related to service calls will be reduced by providing our service technicians with real-time call details supplemented by site-specific customer information, historical and technical data.
- Availability of your equipment will be maximised by providing our technicians with continually updated maintenance schedules ensuring the correct level of maintenance is consistently applied.
- Service details, which can assist you in the management of your building, will be available immediately after a call or maintenance visit as our service technicians will be back reporting on-line.

KONE Service Centre

Around the clock direct response is available via our Customer Service Centre on 1300 362 022.

A phone call puts you in touch with KONE Elevators' staff who will provide immediate assistance and send the nearest lift technician to respond to your call. This service is operational 24 hours per day, 7 days per week, 365 days per year.



SECTION 8 - AUTHORITIES' REQUIREMENTS

Should a passenger be injured as a direct result of a malfunction of the lift equipment, the following action is required by Law:

- 1 Render assistance to the injured passenger.
- 2 Remove the lift from service in a manner which will prevent it from moving or being moved.
- 3 Contact your lift contractor, KONE Elevators, on the Emergency Telephone Number shown below, and advise the nature of the accident.
- 4 It is a requirement of all States and Territories that accidents involving lifts be reported to local Workplace Health and Safety authorities.

On your request, your lift contractor may take over this responsibility on your behalf.

KONE Elevators Pty Ltd VIC Office Telephone Number (03) 9934 8000

24 Hour Service 1300 362 022



SECTION 9 - AS BUILT DRAWINGS

This Section contains Layout Drawings for the lift installation

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S value2365 kg2365 kg2365 kgCounterweight motis119 kg118 kgCounterweight motis119 kg118 kgCounterweight motis50%50%Counterweight motis50%ELECTROLL, REQURRENTSMain supply valtage $3x400Vac + 10\% - 15\%$ Frequency50 Hz ± 1HzRiser fuses $3x32$ A $3x32$ A $3x32$ ARiser fuses $3x32$ A $3x32$ A $3x23$ AValue Science for segarate lighting1x16 ANormal Lies Governt Hander521.1 ANace RMS cocleration line current40.7 AMain supply valtage $3x25$ ASize A $3x25$ AThe Add NMAdd XAMain supply valtage $3x25$ ASize A $3x25$ ASize A $3x25$ ASize A $3x25$ ANormal Lies Current 40.7 AMain fuses $3x25$ ALiphting fuses $3x25$ ASize A 3	Car sling mass (T)	308 kg	308 kg	$\neg \uparrow \land (\parallel) \land \parallel \qquad \qquad$	
Countereight mass119 kg119 kg119 kgCountereight filer ki mass1674 kg1674 kgCar bolancing foctor50%50%Car bolancing foctor3x400xc +10%/-15%Main supply voltage3x400xc +10%/-15%Frequency50 klz ± 1kzRiser fuese for separate lighting1x16 ANomind line current3x1AMain fuese3x25 ALighting fuese for separate lighting1x16 ANomind line current40.7 AMain fuese3x25 ALighting fuese from on0.46 kWMotor output power at nominal load11.4 kWMain fuese106/F0/WCarbolanci for output power at nominal load11.4 kWMain fuese165/513 rpmFourt the 6 kN0.46 kAStandby power generator21.5 kVAStandby power gener	G value	2365 kg	2365 kg		
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Car balancing factor50%50%Subsci limpactStaticImpactStaticImpactStaticImpactCar balancing factor \sim	Counterweight filler bit mass	1674 kg	1674 kg	Equipment Number	
AIIBIAIA5.842.313.63IISix400Vac + 10%/-15%Six400Vac + 10%/-15%Six400Vac + 10%/-15%Gilde bracket loads on shaft overhead 42506282 2.64 4.19 4.43 5.44 2.31 3.63 Frequency50 Hz ± 1Hz50 Hz ± 1Hz50 Hz ± 1Hz 116 42506282 2.64 19 4.30 5.44 2.31 3.63 Riser fuses 3.322 A 3.322 A 3.322 A 3.322 A 3.322 A 106 B 116 B	Car balancing factor	50%	50%	Static Impact Static Impact	
F ELECTRCAL REQUIREMENTS Image: Control of the state of the s				A Q D B Q D 42506281 2.95 4.19 4.43 5.84 2.31 3.63	
FMain supply voltage $3x400Vac +10\%/-15\%$ $3x400Vac +10\%/-15\%$ $3x400Vac +10\%/-15\%$ Frequency50 Hz ± 1Hz50 Hz ± 1HzGuide bracket loads on shaft overheadRiser fuses $3x32$ A $3x32$ A $3x32$ ANominal line current1x16 A1x16 ANominal line current32.1 A32.1 AMain fuses $3x25$ A $3x25$ ALighting fuses (shaft + car)10 A + 6 AIonal line current0.7 AMain fuses $3x25$ ASubset for segaration line current0.46 kWMain fuses $3x25$ ALighting fuses (shaft + car)10 A + 6 AIonal line current0.46 kWMath KW11.4 kWMath KW11.4 kWMath Kull Lighting fuses11.4 kWMath Kull Lighting fuses11.4 kWMath Kull Lighting fuses11.4 kWCould the light of tails protein force are product force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. The magnitude of bohf force is the some time. T	ELECTRICAL REQUIREMENTS			LL LL 42506282 2.95 4.19 4.43 5.84 2.31 3.63	
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Riser3x32 A3x32 A3x32 ARiser fuses3x32 A3x32 Abacket forces and moments ability excluded using the Fx, Fy, Fz, Fz, Parand Fy2Riser fuses for separate lighting1x16 A1x16 Abacket forces and the lenght of fixing brenkt, data to acculated using the fixing sements ability excluded using the fixing sements data forces and moments ability excluded using the fixing sements data forces and the lenght of fixing brenkt, data for acculated using the fixing sements data forces and the lenght of fixing brenkt, data for acculated using the fixing sements data forces and the lenght of fixing brenkt, data for acculated using the fixing sements data forces and the lenght of fixing brenkt, data for acculated using the fixing sements data forces and the lenght of fixing brenkt, data for acculated using the fixing sements data forces and the lenght of fixing brenkt, data for acculated using the fixing sements data forces and the lenght of fixing brenkt, data for acculated using the fixing sements data forces and the lenght of fixing brenkt, data for acculated using the fixing sements data forces and the lenght of fixing brenkt, data for acculated using the fixing sements data forces and the lenght of fixing brenkt, data for acculated using the fixing sements data force for added using the fixing sements data force for added using the fixing sement data force for added using the fixing sement data force for added for a fixing brenkt, fixing forces and the some time. The mognitude of both forces is the some fine. The mognitude of both forces is the some fine force is a vertical force force force for a data for a vertical force for a vertical force for a vertical force for added using settiment.GRef Horis force for added force for a vertical force for ad	Frequency	50 Hz ± 1Hz	50 Hz ± 1Hz	טוועב טוענאבר וטעעט טון אועור טאבווובעע	
Riser fuses for separate lighting1x16 A1x16 A1x16 ANominal line current32.1 A32.1 A7Max. RMS acceleration line current40.7 A40.7 A7Main fuses3x25 A3x25 A7Lighting fuses (shaft + car)10 A + 6 A10 A + 6 AThermal losses in machine room0.46 kW0.46 kWMotor autput power at nominal load11.4 kW11.4 kWMotor RPM at full speed145.513 rpmMaximum start/hour180/ED40%Fault level6 KA6 KAStabby power generator21.5 kVA	Riser fuses	3x32 A	3x32 A	The building reaction forces and moments shall be calculated using the Fx, Fy, Fz, Fx2 and Fy2	
Nominal line current32.1 A32.1 AMax. RMS acceleration line current40.7 A40.7 AMain fuses3x25 A3x25 ALighting fuses (shaft + car)10 A + 6 A10 A + 6 AThermal losses in machine room0.46 kW0.46 kWMotor output power at nominal load11.4 kW11.4 kWMotor RPM at full speed145.513 rpmMaximum start/hour180/ED40%Fault level6 KAStandby power generator21.5 kVAZindby power generator21.5 kVA	Riser fuses for separate lighting	1x16 A	1x16 A	of the fixing elements shall be calculated using the fixing elements distance (see drawing B-1).	
Max. RMS acceleration line current 40.7 A 40.7 A Max. RMS acceleration line current 40.7 A 40.7 A Main fuses 3x25 A 3x25 A Lighting fuses (shaft + car) 10 A + 6 A 10 A + 6 A Thermal losses in machine room 0.46 kW 0.46 kW Motor output power at nominal load 11.4 kW 11.4 kW Motor RPM at full speed 145.513 rpm 1480/ED40% Maximum start/hour 180/ED40% 180/ED40% Fault level 6 KA 6 KA Standby power generator 21.5 kVA 21.5 kVA	Nominal line current	32.1 A	32.1 A	Ex effects two car brackets at the same time (ner avide)	
Main fuses3x25 A3x25 ALighting fuses (shaft + car)10 A + 6 A10 A + 6 AThermal losses in machine room0.46 kW0.46 kWMotor output power at nominal load11.4 kW11.4 kWMotor RPM at full speed145.513 rpmMaximum start/hour180/ED40%Fault level6 KAStadby power generator21.5 kVA21.5 kVA21.5 kVA	Max. RMS acceleration line current	40.7 A	40.7 A	The direction is opposite to each other.	
Lighting fuses (shaft + car) 10 A + 6 A 10 A + 6 A (force against guide rail nose) Thermal losses in machine room 0.46 kW 0.46 kW Fault losses Motor output power at nominal load 11.4 kW 11.4 kW Fault losses Maximum start/hour 180/ED40% 180/ED40% Iso/ED40% Fault level 6 KA 6 KA 6 KA Standby power generator 21.5 kVA 21.5 kVA 21.5 kVA	Main fuses	3x25 A	3x25 A	Fy effects one car bracket (per guide) at the same time. The direction of the force is always positive	
Thermal losses in machine room 0.46 kW 0.46 kW Field to the two topmost car brackets at the same time. The magnitude of both forces is th	Lighting fuses (shaft + car)	10 A + 6 A	10 A + 6 A	(force against guide rail nose)	
In Motor output power at nominal load 11.4 kW 11.4 kW Motor output power at nominal load 11.4 kW 11.4 kW Motor RPM at full speed 145.513 rpm 145.513 rpm Maximum start/hour 180/ED40% 180/ED40% Fault level 6 KA 6 KA Standby power generator 21.5 kVA 21.5 kVA	Thermal losses in machine room	0.46 kW	0.46 kW	Fix2 effects the two topmost car brockets at the same time. The magnitude of both forces is the same	COMPO
Motor RPM at full speed 145.513 rpm 145.513 rpm Maximum start/hour 180/ED40% 180/ED40% Fault level 6 KA 6 KA Standby power generator 21.5 kVA 21.5 kVA	Wotor output power at nominal load	11.4 kW	11.4 kW	numever the unecuons are opposite to each other. Same applies to ry2.	
Maximum start/hour180/ED40%180/ED40%Fault level6 KA6 KAStandby power generator21.5 kVA21.5 kVA	Motor RPM at full speed	145.513 rpm	145.513 rpm	On each bracket supporting point affects a vertical force Fz, which is due to building settlement.	
Fault level6 KA6 KAStandby power generator21.5 kVA21.5 kVA	Maximum start/hour	180/ED40%	180/ED40%		
Standby power generator 21.5 kVA 21.5 kVA	Fault level	6 KA	6 KA		
	Standby power generator	21.5 kVA	21.5 kVA		

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acket A: Combination racket B: Car brackets racket C: All other brac

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BUILDER REQUIREMEN VELL CONSTRUCTION MINIMUM WALL THICKI ANDING DOOR FIXING	ITS MATERIAL: NESS 150 mm G METHOD:	CON	ICRETE			
GUIDE RAIL BRACKET	FIXING METHOD	: Т-В	BOLT/HALFEN			
WHERE A ZONE PRES S REQUIRED TO MAK SHAFT LIFT WELL ENG	SSURIZATION SYS E ALLOWANCE F CLOSURE AS PE	STEM IS INSTAL ^E OR A 0.1 m2 IR AS 1668.1—	LED IN THE BL MINIMUM OPEN 2003 Clause 8	JILDING, TH IING IN TH .9.	IE BUILDEF IE TOP OF	₹ THE
IS REQUIRED BY NCG ↓ — AIR TEMPERATUR ↓LL TIMES. IF THE LI ↓UMIDITY CAN EXCEE MAINTAIN THE REQUIR SYSTEM SHALL NOT E REQUIRED CONDITIONS IFT WELL SHOULD B N ORDER TO ENSUR	C BUILDING COE RE AND QUALITY FT WELL AIR TE D 95% THEN MI RED AIR CONDITI 3E RELIANT ON S IN THE LIFT W RE MAINTAINED W E RELIABILITY O	DE OF AUSTRAL MPERATURE CA EANS SHALL BI ONS IN THE LI THE LIFT CAR WELL. THE TEM VITH REFERENC F THE LIFT.	LA 2016 SPECII WELLS BE MAIN N BE ELEVATED PROVIDED TO IFT WELL . THE VENTILATION SY PERATURE AND E TO THE QUO	FICATION E TAINED AT) ABOVE 4 CONTROL LIFT WELI (STEMS TO QUALITY (TED THERN	3.1 CLAUS SAFE LEV IO'C OR IF THE HEAT AIR MAN, MAINTAIN DF THE AIF MAL LOSSE	E ELS AT THE TO AGEMENT THE N THE S (KW)
HE FIVE SITE ABSOL . The elevator well . The well is constr penings are sealed o. The lifting eyes s . 3-phase power s Mains to be RADOX, b. A 50m. sq. stora and the access ways	UTES is clean and du ructed according for safety. pecified for the upply for elevat FIRESTOP or ed ge space is pro s to the well a	ry before insta g to KONE lay top of the w cor and installa quivalent mains ovided on the re clear.	ullation work sto out drawings a ell are in place ation hoisting is s cable . ground floor cl	arts. nd the we e. s provided. lose to th	ll e well	
		E.	12506201	Puilding	Position Fo	
	<u></u>		42306261 Brackets		R (kN)	T (kN*m)
			A	4.19	6.51	1.77
E (F	₹►	*** (B	5.84	5.46	2.43
			L	1.0/	J.40	0.64
	Ϋ́S		42506282	Building	Reaction Fo	rce
ket A: Combination brack	kets(machine side) i	in shaft overhead	A	5 (KN) 4 19	6.51	1 77
cket B: Car brackets(mac	hine opposite side)	in shaft overhead	B	5.84	5.46	2.43
cket C: All other brackets	; including all count	erweight brackets	С	1.87	3.46	0.84
	Layout approve	d with/without comments	X			

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COMPONE	ENT NAMES	S D	2017-08-18	For Constr	uction - ON#2	con_tchu02		
—_[]	C	2017-01-09	For Approv	ial Revision – RL's	con_mflorian		
		В	2016-07-12	For Approv	al Revision	con_tchu02		
		A	2016-06-21	For Approv	al Revision	con_echin		
	PIT LADD	ER _	2015-11-26	For Approv	al	con_mflorian		
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	Shaft Bun	NDLE KONE Eli KONE Eli Yushan Port Mel ViC	evators Co. Ltd. evators Pty Ltd Town KunShan bourne		1228 Nepean Highwo Site oddress 1228 Nepean Highwo Drowing title GENERAL DRAWING Equipment number(s) 42506281 4250628	ıy — South ıy Cheltenhaı 2	Building AP m, VIC 319	2
) SHAFT LIC	FL ref.	number		Drg no	-		Issue Page
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WW 2050

42506281

PLUMBING (WIRE) Scale 1:25

KONE

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42506282



PLUMBING (LASER) Scale 1:25







CL CAR

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GUIDES Scale 1:25

D	2017-08-18	For Consta	ruction - 04#2	con_tchu02			
С	2017-01-09	For Appro	val Revision - RL's	con_mflorian			
B	2016-07-12	For Appro	val Revision	con_tchu02			
A	2016-06-21	For Appro	val Revision	con_echin			
-	2015-11-26	For Appro	val	con_mflorian			
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KONE Elevators Co. Ltd. KONE Elevators Pby Ltd Yushan Town KunShan Port Melbaurne VIC			1228 Nepean Highway – South Building APT Site address 1228 Nepean Highway Cheltenham, VIC 3192 Drawing title INSTALLATION LAYOUT Equipment number(s) 42506281, 42506282				
6340	938		6340938-LA1-	-A2-020-	- -1-3	D 3 (3)	
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LIFT WELL ACCESSORIES 42506281 Scale 1:30

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D	2017-08-18	For Const	ruction - 0A#2	con_tchu02		
C	2017-01-09	For Appro	val Revision – RL's	con_mflorian		
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A	2016-06-21	For Appro	val Revision	con_echin		
-	2015-11-26	For Appro	vol	con_mflorian		
Version	Date	Descrip	tion	Designed by	Checked by	Approved by
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6340	938		6340938-LA1-	A2-020-	-B-1-1	D 1 (5
MOS R1	7.1		МО	00654873 K	ONE N Mono	Space (17.1)



GUIDE RAIL AND LOCATION OF FIXINGS 42506282 Scale 1:30

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LIFT WELL ACCESSORIES 42506282 Scale 1:30

10	11	12	

D	2017-08-18	For Const	ruction - 0A#2	con_tchu02			
C	2017-01-09	For Appro	val Revision – RL's	con_mflorian			
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A	2016-06-21	For Appro	val Revision	con_echin			
-	2015-11-26	For Appro	vol	con_mflorian			
Version	Date	Descrip	tion	Designed by	Checked by	Approved by	
KONE Elevators Co. Ltd. KONE Elevators Pty Ltd Yushan Town KunShan Port Melbourne VIC			1228 Nepean Highway – South Building APT Site address 1228 Nepean Highway Cheltenham, VIC 3192 Drawing tite LAYOUT FOR BUILDER Equipment number(s) 42506281, 42506282				
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WOS R1	7.1		MO	00654873 K	ONE N Mono	Space (17.1)	





Guide	Rail Force		λ.	40500001	40500000		
LLEVAI	OK NUMB	itK(S	J:	42506281	42006282		
			Load	Value(kN)	Value(kN)	Value(kN) Value(kN
Fx Fy		Fx car	1.866	1.866	-	-	
		Fy car	2.856	2.856	-	-	
<	1	\geq					
P		\neg	Fx cwt	0.206	0.206	-	-
Fy 🗸	Fx		Fy cwt	0.951	0.951	-	-
Note:							U
=- Fx =- Fy	applies applies	to tv to oi	vo fixings (p ne fixing (pe	er guide) but in r guide) at a t	n opposite di ime.	rections.	
MAXIMU	JM REACT	ION	LOADS ON P	T FLOOR			
		4	2506281	42506282			
Lo	bad	۷	alue (kN)	Value (kN)	Value	(kN)	Value (kN)
R	P1		54.9	54.9			
R	P2		77.4	77.4			
R	P3		40.1	40.1			
<u> </u>	P4		8/.8	87.8			
K			30.9	30.9			
Reactio	on loads	RP1-	-RP6 on the	pit bottom are	e not simulta	neous	
D	2017-08-18		For Construction - OA	2	con_tchu02		
C	2017-01-09		For Approval Revision -	RL's	con_mflorian		
B	2016-07-12		For Approval Revision		con_tchu02		
A	2016-06-21		For Approval Revision		con_echin		
-	2015-11-26		For Approval		con_mflorian		
Version	Date		Description		Designed by	Checked by	Approved by
			Project	nome			-
K	ON	E	1228	Nepean Highw	ay – South	Building AF	
		////	Site ad	dress			
KONE E	levators Co.	Ltd.	1228	Nepean Highw	ay Cheltenha	m, VIC 319	92
Yushan	Town KunSho	n			h		
Port Me	lbourne		LAYU	1 FOK RUILDEF	٢		
VIC			Equipmo	ent number(s)	_		
E ref	number		4250	6281, 4250628	2		Leeue Daco
TE Ter. Humber							
63409	938		634	0920-LAI-	-AZ-UZU-	-R-I-?	D 3 (
					00054077 10		/47



Londing Coll And Hell Lontern KDS50 LCS3 Londing Coll Station Image: Coll Station Image: Coll Station H Type Image: Coll Station Image: Coll Station To X - 4 2000 44800 Coll X - 1 2000 31000 1 X - 1	Landing Coll And Holl Landen KDS50 Landing Coll Station C Landing Coll Station C H Type Floor Floor Service Floor Floor Floor Served Floor Non-Served Floor Served Floor N Non-Served Floor	0			1	1				12		
Holl Lentern MAPE A C LC33 LANDING NO LANDING NO Landing Call Station H Type Image: Call Station H Type Image: Call Station H Type Image: Call Station H Type Image: Call Station Image: Call Station H Type Image: Call Station Image: Call Station H Type Image: Call Station Image: Call Station 10 X - 7 2 2 10 X - 1 2 10 X - 1 2 10 X - 1 2	Hall Lantern SHAPE A C Landing Cull Station C - H Type The Floor Floor Floor Service Floor Floor Floor NO A C - NO A C - H Type The Floor Floor No A C - No A C No A C 2900 44800 Soco 300 2200 31700 1 X - B 4200 27500 42506282 Legence - B 4200 27500 4200 X - B 4200 27500 4200 X - B 4200 2400					anding	Call And	4		KDS50		
Long Call Station C - H Type EG1-7 - Floor Service Floor Floor Distance R.L.(FFL) 10 X - 6 2900 50500 8 X - 5 2900 47000 7 - 4 2900 44800 8 X - 5 2900 41900 5 X - 2 2900 39000 2 M - G 2200 39000 3 N - M 2200 35100 1 X - B 4200 27500 1 X - B 4200 27500 2 N - K 2200 31700 1 X - B 4200 27500 4 X - B 4200 27500 X ECEND MAIN FLOOR N NON-SERVED FLOOR <td< td=""><td>Instant Image Image H Type Image Image H Type Image Image Image H Type Image Image Image Image H Type Image Image Image Image Image H Type Image Image</td><td></td><td></td><td></td><td></td><td>Hall Lai</td><td>ntern</td><td>,</td><td>SHAPE</td><td>A LANDING N</td><td>o u</td><td>C ANDING NO</td></td<>	Instant Image Image H Type Image Image H Type Image Image Image H Type Image Image Image Image H Type Image Image Image Image Image H Type Image					Hall Lai	ntern	,	SHAPE	A LANDING N	o u	C ANDING NO
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5.7.1	.2(2)	258		190	258	190		
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ACTUAL MINIMUM ACTUAL MINIMUM ACTUAL MINIMUM

HEADROOM & PIT DIMENSIONS

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VIEW °A °





VIEW °C °



REFLECTED CEILING PLAN



DESCRIPTION OF ITEMS

1.FLOOR DECORATION	
2.ROOF	Ceiling CL88 Silver brushed StSt-ST4
3.SIDE WALL	Silver brushed StSt-ST4
4.REAR WALL	Silver brushed StSt-ST4
5.FRONT WALL	Silver brushed StSt-ST4
6.CAR DOOR	Silver brushed StSt-ST4
7.CAR OPERATING PANEL	
8.SKIRTING	Silver brushed StSt-ST4
9.HANDRAIL	HR64
10.MIRROR	

Symbol	Comment
BB	Car shell width
DD	Car shell depth
СН	Clear height
FL	Width of the left front wall, viewed from the landi
FR	Width of the right front wall, viewed from the land
Н	Thickness of the ceiling
SS	Flooring thickness reserve
HH	Clear height of the door opening
LL	Clear width of the door opening

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Instruction 1.Display	Dot Matrix				
4.Key switch 5.Faceplate	OLV AU;F en1 2017.8.18 Presion Date Project name 1228 State daterss 1228 Data Stridde Gu Cheng Road, Jangsu province, 215300 Chino	FRD AU1;PR irrg Nepean Highway (Nepean Highway (DRAWING 10	CAU; <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>countering</u> <u>counterin</u>	AF	РТ 92
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DESCRIPTION OF ITEMS

1.FLOOR DECORATION	
2.ROOF	Ceiling CL88 Silver brushed StSt-ST4
3.SIDE WALL	Silver brushed StSt-ST4
4.REAR WALL	Silver brushed StSt-ST4
5.FRONT WALL	Silver brushed StSt-ST4
6.CAR DOOR	Silver brushed StSt-ST4
7.CAR OPERATING PANEL	
8.SKIRTING	Silver brushed StSt-ST4
9.HANDRAIL	HR64
10.MIRROR	

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REFLECTED CEILING PLAN



BB=1400

FLOOR PLAN

Symbol Comment BB Car shell width DD Car shell depth CH Clear height FL Width of the left front wall, viewed from the land FR Width of the right front wall, viewed from the lan H Thickness of the ceiling SS Flooring thickness reserve HH Clear height of the door opening LL Clear width of the door opening

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nding	Yushan To Jiangsu Pr	wn, KunShan ovince	CAR INTERIOR	DRAWING				
	China		quipment number(s) 0#2					
	FL ref. nu	mber	rg' no				Issue	Page
	63409	938	<u> 5340938-LA1</u>	-A2-020	-M-2		-	1(1)
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4.Key switch OLV AU;FRD AU1;PRC AU; 5.Faceplate	Instruction 1.Display 2.Intercom	Dot Matrix		
	5.Faceplate	en1 2017.8.18 Original Drawing con_mflorider- en1 2017.8.18 Original Drawing con_mflorider- Version Date Decorption Designed by No.88 Midde Gu Cheng Rood, Vachar Joan, KurShan, Vachar Joan	AP 319	T J2

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	3	4	5 6 7 8	9
IEUNINIUAL SPEUIFIUATIUN FUR ELEVATUR	42000280	42000284	42506285 ELECTRICAL SCHEMATIC	BUILDER REQU
Equipment Number	42506283	42506284	HOISTING MOTOR	WELL CONSTRU
Safety code	EN81-1	EN81-20	ELECTRINSTALLER	MINIMUM WALL
KONE product type	PW16/16-19	PW16/16-19	<u>\$_</u> 25 A	LANDING DOOR
Rated load	1200 kg	1200 kg	//////////////////////////	GUIDE RAIL BR
Number of persons	16	16		WHERE A ZONE
Rated speed	1.60 m/s	1.60 m/s	P = 11.4 kW	IS REQUIRED T
Acceleration/deceleration rate	0.5 m/s²	0.5 m/s²	ln = 32.1 A	SHAFT LIFT WE
Travel	23350 mm	23350 mm	$50 \text{ Hz} \pm 1 \text{ Hz}$ $d = 40.7 \text{ A}$ $s/h = 180/FD40\%$	
No. of floors/No. of stops	9/9	9/9		AS REQUIRED
Car entrances	1	1	LID SHAFT LIGHTING 1.5 KW	4 – AIR TEMP
LandingDoor type	High duty (N1)	High duty (N1)		ALL TIMES. IF
Door width	900 mm	900 mm	6A CAR LIGHTING 0.3 kW	HUMIDITT CAN
Door height	2100 mm	2100 mm		SYSTEM SHALL
Car type	HMC	HMC	- WAIN DOWER CARLES TO BE CONNECTED BY ELECTRICIAN INSTALLER	REQUIRED CON
Car internal height	2200 mm	2200 mm		LIFT WELL SHC
Car internal width	1400 mm	1400 mm	-TELEPHONE LINE TO THE PUBLIC PHONE NETWORK TO BE CONNECTED TO THE SERVICE	IN ORDER TO
Jar internal depth	1970 mm	1970 mm	ELEVATOR PANEL INSIDE THE SHAFT	
iar area	2.79 m²	2.76 m²		
ar sling	ISCS	ISCS	425U6284 ELECTRICAL SCHEMATIC	THE FIVE SITE
ar guide rails	T89-1/B	T89-1/B	HOISTING MOTOR	1. The elevato
ar buffers	CY0B47/207	YH47/207	ELECIKINSIALLER KUNE NMX11	2. The well is
ar guide shoe	SLG20	SLG20	\$_* 25 A	openings are s
ar safety gear	AQ32KB	AQ32KB		3. The lifting of the second s
ar Deco Allowance	100 kg	100 kg		4. 3-phase pa
ounterweight sling	CWF11PWS	CWF11PWS	P = 11.4 kW	5 A 50m sq
ounterweight guide rails	T70-1/B	T70-1/B	$\ln = 32.1 \text{ A}$	and the acces
ounterweight buffers	CYOB47/207	YH47/207	10 = 40.7 A	
wt guide shoe	SLG8	SLG8		
Cwt safety gear	None	None	TID SHAFT LIGHTING 1.5 KW	
Prive system	KDM40	KDM40		
Control system	LCE / FC	LCE / FC	t fa car lighting 0.3 kw	
Machine	, NMX11	NMX11		
raction sheave diameter	420 mm	420 mm		
Indercut anale	90.	90.	- MAIN PUWER CABLES TO BE CONNECTED BY ELECTRICIAN INSTALLER	Denslook A. Combineli
Roping arrangement	2:1	2:1	- MINIMUM PROTECTIVE EARTH CONDUCTOR SIZE = TUTRITI Z	Bracket A: Combinati Bracket B: Car brac
Suspension ranges (na x D)	6xd8(PAW0_E3)	6xd8(PAWO_E3)	FIFVATOR PANEL INSIDE THE SHAFT	Bracket C: All other
Diverspeed governor(Car)	0135	0135		
Diverspeed governor rope(Car)	d6	d6		
Compensation	WEQS200	WFQS200		
Car mass (K)	698 kg	698 kg		
Car slina mass (T)	308 kg	308 kg		
value	2359 ka	2359 ka		
Counterweight mass	119 kg	119 kn		
Counterweight filler hit mass	1686 kg	1686 kg	→ → → → → → → → → → → → → → → → → → →	
Car balancina factor	50% Ny	50%	Static Impact Static Impact Impact	
	5070	5070	A C B C F 42506283 2.95 4.19 4.43 5.84 2.31 3.63	
LECTRICAL REQUIREMENTS				
Main supply voltage	3x400Vac +10%/-15%	3x400Vac +10%/-15%	Guide bracket loads on shaft overhead	
requency	50 Hz ± 1Hz	50 Hz ± 1Hz		
Riser fuses	3x32 A	3x32 A	ine building reaction torces and moments shall be calculated using the Fx, Fy, Fz, Fx2 and Fy2 bracket forces and the lenght of fixing bracket (see drawing I-1). The pull out forces	
iser fuses for separate lighting	1x16 A	1x16 A	of the fixing elements shall be calculated using the fixing elements distance (see drawing B-1).	
lominal line current	32.1 A	32.1 A	Fx effects two car brackets at the same time (per guide)	
lax. RMS acceleration line current	40.7 A	40.7 A	The direction is opposite to each other.	
lain fuses	3x25 A	3x25 A	Fy effects one car bracket (per guide) at the same time. The direction of the force is always positive	
ighting fuses (shaft + car)	10 A + 6 A	10 A + 6 A	(torce against guide roll nose)	
hermal losses in machine room	0.46 kW	0.46 kW	Fx2 effects the two topmost car brackets at the same time. The magnitude of both forces is the same	
fotor output power at nominal load	11.4 kW	11.4 kW	nowever the directions are opposite to each other. Same applies to Fy2.	
lotor RPM at full speed	145.513 rom	145.513 rom	On each bracket supporting point affects a vertical force Fz,which is due to building settlement.	
faximum start/hour	180/FD40%	180/ED40%	-	
ault level	6 KA	6 KA		
tandhy power generator	21.5 k\/A	21.5 LVA		
Addison porter generation	21.0 N/A	21.0 NTA		<u> </u>
lay short circuit current mains supply	6 KA	6 KA		I
Max. short circuit current, mains supply	6 KA	6 KA		

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101112EMENTSION MATERIAL:CONCRETEHICKNESS 150 mmIXING METHOD:T -BOLT/HALFENPRESSURIZATION SYSTEM IS INSTALLED IN THE BUILDING, THE BUILDERMAKE ALLOWANCE FOR A 0.1 m2 MINIMUM OPENING IN THE TOP OF THEENCLOSURE AS PER AS 1668.1-2003 Clause 8.9.NCC BUILDING CODE OF AUSTRALIA 2016 SPECIFICATION E3.1 CLAUSEATURE AND QUALITY IN THE LIFT WELLS BE MAINTAINED AT SAFE LEVELS ATE LIFT WELL AIR TEMPERATURE CAN BE ELEVATED ABOVE 40°C OR IF THECOURD AIR CONDITIONS IN THE LIFT WELLS BE MAINTAINED AT SAFE LEVELS ATE UIFT WELL AIR TEMPERATURE CAN BE ELEVATED ABOVE 40°C OR IF THECOURD AIR CONDITIONS IN THE LIFT WELL . THE LIFT WELL AIR MANAGEMENTOT BE RELIANT ON THE LIFT WELL . THE UFT WELL AIR MANAGEMENTTOT BE RELIANT ON THE LIFT CAR VENTILATION SYSTEMS TO MAINTAIN THETIONS IN THE LIFT WELL. THE TEMPERATURE AND QUALITY OF THE AIR IN THELD BE MAINTAINED WITH REFERENCE TO THE QUOTED THERMAL LOSSES (KW)SUBLITESwell is clean and dry before installation work startsnstructed according to KONE layout drawings and the well.led for safety.ss specified for the top of the well are in placer supply for elevator and installation hoisting is providedOX, FIRESTOP or equivalent mains cabletorage space is provided on the ground floor close to the well.ways to the well are clear	101112MENTSION MATERIAL:CONCRETEHICKNESS 150 mmIXING METHOD:T-BOLT/HALFENPRESSURIZATION SYSTEM IS INSTALLED IN THE BUILDING, THE BUILDERMAKE ALLOWANCE FOR A 0.1 m2 MINIMUM OPENING IN THE TOP OF THEENCLOSURE AS PER AS 1668.1-2003 Clause 8.9.NCC BUILDING CODE OF AUSTRALIA 2016 SPECIFICATION E3.1 CLAUSEATURE AND QUALITY IN THE LIFT WELLS BE MAINTAINED AT SAFE LEVELS ATE LIFT WELL AIR TEMPERATURE CAN BE ELEVATED ABOVE 40°C OR IF THECED 95% THEN MEANS SHALL BE PROVIDED TO CONTROL THE HEAT TOQUIRED AIR CONDITIONS IN THE LIFT WELL . THE LIFT WELL AIR MANAGEMENTTOT BE RELIANT ON THE LIFT CAR VENTILATION SYSTEMS TO MAINTAIN THE10NS IN THE LIFT WELL. THE TEMPERATURE AND QUALITY OF THE AIR IN THED BE MAINTAINED WITH REFERENCE TO THE QUOTED THERMAL LOSSES (KW)SULUTESvell is clean and dry before installation work starts.instructed according to KONE layout drawings and the wellled for safety.rs specified for the top of the well are in place.rr supply for elevator and installation hoisting is provided.OX, FIRESTOP or equivalent mains cable .torage space is provided on the ground floor close to the wellways to the well are clear.Word the well are clear.brackets (machine side) in shaft overheedA 4196.511.77machine aposite side) in shaft overheedA 4196.511.77fmachine aposite side) in shaft overheedA 4196.511.77 <tr< th=""><th>1</th><th></th><th></th><th></th><th></th><th></th><th></th></tr<>	1						
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		Version	Date	Descript	ion	Designed by	Checked by	Approved by	
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M000654890 KONE N MonoSpace (17.1)











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M8x57 Expander Bolt



1. 5.2.5.6.2	
2. 5.2.5.7.2(c1) 258 190	
3. 5.2.5.7.2(a)	
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Port Melbourne LAYOUT FOR AUTHORITY APPROVAL	
VIC Equipment number(s)	
42506283, 42506284	
FL ref. number Drg no	Issue Page
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N000654800 KONE N Mon	oSpace (17.1)

42506283

MINIMUM

HEADROOM & PIT DIMENSIONS

Follow by

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EN81-20

ACTUAL

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1. 5.2.5.6.2	491		100		
2. 5.2.5.7.2(c1)	384		300		
3. 5.2.5.7.2(a)	1022		500		
4. 5.2.5.7.2(b)	1021		100		
5. 5.2.5.6.2	258		100		
6. 5.2.5.7.1		Refuge	e space 700	x500x1000	
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8. 5.2.5.8.2(a)	6/1		500		
9. 5.2.5.8.2(a1)	403		100		
10. 5.2.5.8.2(02)	467		100		
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Version Date Desc	cription	Designed by	Checked by	Approved by	
KONE Elevators Co. Ltd. 1228 Nepean Highway – North BLD Apartment Site address 1228 Nepean Highway Cheltenham, VIC 3192 Drawing title 1228 Nepean Highway Cheltenham, VIC 3192 Drawing title LAYOUT FOR AUTHORITY APPROVAL Equipment number(s) 42506283, 42506284 Part auster Previous			nt		
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HEADROOM & PIT DIMENSIONS Follow by EN81-20

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VIEW °A °





VIEW °C °



REFLECTED CEILING PLAN



DESCRIPTION OF ITEMS

1.FLOOR DECORATION	
2.ROOF	Ceiling CL88 Silver brushed StSt-ST4
3.SIDE WALL	Silver brushed StSt-ST4
4.REAR WALL	Silver brushed StSt-ST4
5.FRONT WALL	Silver brushed StSt-ST4
6.CAR DOOR	Silver brushed StSt-ST4
7.CAR OPERATING PANEL	
8.SKIRTING	Silver brushed StSt-ST4
9.HANDRAIL	HR64
10.MIRROR	

Symbol	Comment
BB	Car shell width
DD	Car shell depth
СН	Clear height
FL	Width of the left front wall, viewed from the landi
FR	Width of the right front wall, viewed from the land
Н	Thickness of the ceiling
SS	Flooring thickness reserve
HH	Clear height of the door opening
LL	Clear width of the door opening

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VIEW °A °





VIEW °C °

DESCRIPTION OF ITEMS

1.FLOOR DECORATION	
2.ROOF	Ceiling CL88 Silver brushed StSt-ST4
3.SIDE WALL	Silver brushed StSt-ST4
4.REAR WALL	Silver brushed StSt-ST4
5.FRONT WALL	Silver brushed StSt-ST4
6.CAR DOOR	Silver brushed StSt-ST4
7.CAR OPERATING PANEL	
8.SKIRTING	Silver brushed StSt-ST4
9.HANDRAIL	HR64
10.MIRROR	

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REFLECTED CEILING PLAN



BB=1400

FLOOR PLAN

Symbol Comment BB Car shell width DD Car shell depth CH Clear height FL Width of the left front wall, viewed from the landi FR Width of the right front wall, viewed from the landi H Thickness of the ceiling SS Flooring thickness reserve HH Clear height of the door opening LL Clear width of the door opening

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	к	ONE	Project na 1228 Site addres	Nepean	Highway	- Nor	th BLD	Apart	ment
ding	No.88 Mic	ldle Gu Cheng Road	1228 Drawing tit	Nepean	Highway	Chelter	nham,	VIC 31	92
nding	Jiangsu F	own, KunShan Yrovince	CAR	NTERIOR	DRAWING				
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	en.—.1 2017.8.18 Version Date Version Date No.88 Middle Gu Cheng Road, Yushan Town, KunShan, Jiangsu province, 215300 China R. ref. number 6340938	Original Drawing con_echin Description Designed by Project none 1228 1228 Nepean Highway – North BLD Approved by 1228 Nepean Highway – North BLD Approved by 1228 Nepean Highway – North BLD Approved by COP DRAWING Equiprive Issue P#4 - Dry ro - 6340938 – NO0006548000 -	prtn 319	nent 92

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	2 3	4	5	6		7 8	9
Federated Number	43037040	43037648	ELECTRICAL	SCHEMATIC	HOISTING MO	TOR	BUILDER REQUIREME
Equipment Number	43037648 95/16 FC	ELECTRINSTALLER	KONE		NMX11		WELL CONSTRUCTION
KONE product type	PW13/10-19		ŧ 16.	٨			LANDING DOOR FIXI
Rated load	1000 kg			/////	——(M , 3~)		GUIDE RAIL BRACKE
Number of persons	13				5.		
Rated speed	1.00 m/s	TN-S POWER SUPPLY		Р	= 5.7 kW		IS REQUIRED TO MA
Acceleration/deceleration rate	0.5 m/s²	400V+10%/-15%		In	= 21.8 A		SHAFT LIFT WELL E
Travel	3600 mm	50 Hz ± 1 Hz) s/r	n = 180/ED40%		
No. of floors/No. of stops	2/2			t in au			AS REQUIRED BY N
LandingDoor type	Base duty		164 0.03A	A HILL SHI	AFT LIGHTING 1	.5 kW	ALL TIMES. IF THE
Door width	1000 mm	-			R LIGHTING 0	3 LW	HUMIDITY CAN EXCE
Door height	2100 mm						MAINTAIN THE REQU
Car type	HMC						REQUIRED CONDITIO
Car internal height	2200 mm	- MINIMUM PROTECTIVE EAR	TH CONDUCTOR SIZE = 10mr	m ²			LIFT WELL SHOULD
Car internal width	1400 mm	TELEPHONE LINE TO THE	PUBLIC PHONE NETWORK TO	BE CONNECTED TO THE SERVE	CE		IN ORDER TO ENSU
Car internal depth	1700 mm	ELEVATOR PANEL INSIDE T	'HE SHAFT				
Car sling	2.42 m ⁻	- m m		Evo			
Car auide rails	T89–1 /R			ГУД			1. The elevator we
Car buffers	P3/72	┥╭╢ᡟ╴┍╢╫					2. The well is cons
Car guide shoe	SLG20			F)	(2		openings are sealed
Car safety gear	AQ32KB			·			3. The lifting eyes
Car Deco Allowance	100 kg			Fx2 (kN) A Fx2 (kN) B	Fv2 (kN) A		Mains to be RADOX
Counterweight sling	CWF11PWS		Equipment Number	Static Impact Static Impac	t Static Impact		5. A 50m. sq. stor
Counterweight guide rails	I/0-1/B		43037648	2.63 3.7 3.97 5.23	2.09 3.3		and the access wa
Counterweight bullers	EZ=55/90						
Cwt safety gear	None						
Drive system	KDL16S	Guide bracket loads on shaft overhec	ıd				
Control system	LCE / FC	The building reaction forces and moments shall be	calculated using the Fx, Fy, Fz, Fx2 an	id Fy2			
Machine	NMX11	bracket forces and the lenght of fixing bracket (see of the fixing elements shall be calculated using the	e drawing I—1). The pull out forces fixing elements distance (see drawing I	B-1).			₩ ₽
Traction sheave diameter	420 mm	Ex effects two car brackets at the same time (per	quide)				
Undercut angle	105	The direction is opposite to each other.	30.00)				Bracket A: Combination bro
Roping arrangement		Fy effects one car bracket (per guide) at the same	time. The direction of the force is alw	ways positive			Bracket B: Car brackets(m Bracket C: All other bracket
Overspeed governor(Cgr)	01.35			. "			
Overspeed governor rope(Car)	d6	however the directions are opposite to each other.	ime time. The magnitude of both forces Same applies to Fy2.	s is the same			
Compensation	None	On each bracket supporting point affects a vertical	force Fz,which is due to building settler	ment.			
Car mass (K)	655 kg						
Car sling mass (T)	255 kg						
G value	2010 kg	_					
Counterweight filler bit mass	111 Kg						
Car balancing factor	50%	-					
ELECTRICAL REQUIREMENTS							
Main supply voltage	3x400Vac +10%/-15%						
Frequency	50 Hz ± 1Hz						
Riser fuses	3x20 A						
Riser fuses for separate lighting	1x16 A	_					
Nominal line current	21.8 A						
Main fuses	3x16 A						
Lighting fuses (shaft + car)	10 A + 6 A						
Thermal losses in machine room	0.68 kW						
Motor output power at nominal load	5.7 kW						
Motor RPM at full speed	90.946 rpm						
Maximum start/hour	180/ED40%						
Fault level	6 KA						
Standby power generator	12.2 kVA						
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MENTS ION MATERIAL: HICKNESS 150 mm	CONCRETE	
IXING METHOD: KET FIXING METHOD:	T-BOLT/HALFEN	
PRESSURIZATION SYSTEM MAKE ALLOWANCE FOR A ENCLOSURE AS PER AS	IS INSTALLED IN THE E 0.1 m2 MINIMUM OPE 1668.1–2003 Clause	BUILDING, THE BUILDER ENING IN THE TOP OF THE 8.9.
NCC BUILDING CODE OF ATURE AND QUALITY IN T E LIFT WELL AIR TEMPER :CEED 95% THEN MEANS QUIRED AIR CONDITIONS OT BE RELIANT ON THE FIONS IN THE LIFT WELL. .D BE MAINTAINED WITH F SURE RELIABILITY OF THE	AUSTRALIA 2016 SPEC THE LIFT WELLS BE MAI ATURE CAN BE ELEVAT SHALL BE PROVIDED T IN THE LIFT WELL . TH LIFT CAR VENTILATION THE THE TEMPERATURE AN REFERENCE TO THE QU E LIFT.	CIFICATION E3.1 CLAUSE INTAINED AT SAFE LEVELS AT ED ABOVE 40°C OR IF THE 'O CONTROL THE HEAT TO IE LIFT WELL AIR MANAGEMENT SYSTEMS TO MAINTAIN THE D QUALITY OF THE AIR IN THE OTED THERMAL LOSSES (KW)
BSOLUTES well is clean and dry be onstructed according to aled for safety. es specified for the top er supply for elevator ar OX, FIRESTOP or equival torage space is provided ways to the well are cle	fore installation work s KONE layout drawings of the well are in pla nd installation hoisting ent mains cable . d on the ground floor ear.	starts. and the well ce. is provided. close to the well
نىئ]	43037648	Building Reaction Force



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43037648	Building	I Reaction Fo	rce
Brackets	S (kN)	R (kN)	⊺ (kN*m)
A	3.7	5.64	1.56
В	5.23	4.76	2.18
С	1.68	2.98	0.75

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		-	-						
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Τ		C	2017-03-27	For Approv	al Revision – Mirror	con_kliu02			
		B	2017-03-21	For Approv	ral Revision - RL con_tchu02				
		A	2017-03-16	For Approv	al Revision – SH	con_mflorian			
	PIT LADDER	-	2017-03-10	For Approv	ol	Bryce Wood			
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	shaft bundle	KONE EI KONE EI 350 Brid	ONE evators Co. Ltd. evators Pty Ltd dge Street Units	12 & 13	1228 Nepean Highwa Site address 1228 Nepean Highwa Drawing title	ay Cheltenho ay Cheltenho	ım ım		
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GUIDE RAIL AND LOCATION OF FIXINGS 43037648 Scale 1:25

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FORCES ON PIT Scale 1:25



LIFTING EYE PLACEMENT Scale 1:25









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LIFTING EYES CAPACITY MUST BE CERTIFIED BY BUILDER ACCORDING TO LOCAL REQUIREMENTS

Guide	Rail Ford	e RER/C	·).		43037648			
LLLVAI			<i>)</i> .		1000/040			
			L	oad	Value(kN)	Value(kN)	Value(kN)) Value(k
Fx Fy		car	1.675	-	-	-		
		car	2.618	-	-	-		
<	1	γ						
T		\neg	Fx	cwt	0.188	-	-	-
Fy	└── Fx		⊦y	cwt	0.893	-	-	-
Note:								
=- Fx =- Fy	applies applies	to tv to or	vo fixi ne fixi	ngs (pe ng (per	r guide) but i guide) at a	n opposite d time.	irections.	
MAXIMU	JM REAC	TION	LOADS	ON PIT	FLOOR			
		4	30376	648				
L	hnc	v	alue (kN)	Value (kN)	Value	(kN)	Value (kN
R	P1	•	48	.1			\)	
R	P2		70	.9				
R	P3		36	.6				
R	P4		78	3				
R	P5		28	.4				
R	P6		28	.4				
Reactio	on loads	RP1-	-RP6	on the	pit bottom ar	e not simulto	neous	
c c	2017-00-04		For Approx	nl Revision -	Virror	con_tciu02		
R	2017-03-21		For Approv	nl Revision -	RI	con_tchu02		
٨	2017-03-16		For Approv	al Revision -	SH	con mflorian		
_	2017-03-10		For Approx	nl		Bore Wood		
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				Project r	iame	, ,	,	
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				Site add	ress			
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KONE E KONE E	levators Co. levators Pty	Ltd. Ltd		Drawing	title	ay ononcontro		
350 Bri	dge Street	Units '	12 & 13			D		
3207	lhauraa			LAIUU	I I UN DUILUE	IV		
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43037648 SECTION C-C

43037648 VIEW FROM WELL, STRUCTURAL OPENING Scale 1:25





VIEW FROM LANDING, FLOOR 1, Side A STRUCTURAL OPENING Scale 1:25

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8	2017-03-21	For Approv	al Revision – RL	con_tchu02			
A	2017-03-16	For Approv	al Revision – SH	con_mflorian			
-	2017-03-10	For Approv	al	Bryce Wood			
Version	Date	Descript	ion	Designed by	Checked by	Аррі	roved by
KONE E KONE E 350 Bri 3207 Port Me VIC FL ref.	levators Co. Ltd. levators Pty Ltd dge Street Units Ibourne number	12 & 13	Site oddress 1228 Nepean Highwo Drowing title LAYOUT FOR BUILDEF Equipment number(s) 43037648 Drg no	y Cheltenha	m	Issue	Page
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Layout a	pproved with/with	out comm	nents:			
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KONE E KONE E 350 Bri 3207 Port Me VIC	levators Co. Ltd. levators Pty Ltd dge Street Units	12 & 13	Project norme 1228 Nepean Highwa Site address 1228 Nepean Highwa Drowing tite LAYOUT FOR AUTHOR Equipment number(s) 43037648	ay Cheltenha ay Cheltenha ITY APPROVA	m m IL	
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VIEW °A °





VIEW °C °



REFLECTED CEILING PLAN



FLOOR PLAN

DESCRIPTION OF ITEMS

10.MIRROR

1.FLOOR DECORATION	
2.ROOF	Ceiling CL71 Silver brushed StSt-ST4
3.SIDE WALL	Silver brushed stainless steel-ST43
4.REAR WALL	Silver brushed stainless steel-ST43
5 FRONT WALL	Silver brushed stainless steel-ST43
6.CAR DOOR	Silver brushed StSt-ST4
7.CAR OPERATING PANEL	
8.SKIRTING	Silver brushed StSt-ST4
9.HANDRAIL	HR64

Symbol	Comment
BB	Car shell width
DD	Car shell depth
СН	Clear height
FL	Width of the left front wall, viewed from the landir
FR	Width of the right front wall, viewed from the land
Н	Thickness of the ceiling
SS	Flooring thickness reserve
HH	Clear height of the door opening
LL	Clear width of the door opening

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- 2.Interco
- 3.Button
- 4.Key sv
- 5.Facep

ction ay	Dot Matrix	_
om n witch plate	AUS Round surface with Braille FRD AU1;	

en1	2017.8.8	Original Drawing E	Bryce Wood	-	-
Version	Date	Description	Designed by	Checked by	Approved by
к	ONE	Project name 1228 Nepean Highway Che Site codress	eltenł	nam	
No.88 Mid Yushan Ta	ldle Gu Cheng Road, own, KunShan,	1228 Nepean Highway Che	eltenł	nam	
Jiangsu province, 215300 China		COP DRAWING			
		Equipment numeer(s)			
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SECTION 10 - DESIGN VERIFICATION

This Section contains the Design Verification Statement for this equipment



Project No:	6340938
Esc No(s):	LA1
Site Name:	Nepean Highway
Site Address:	1228 Nepean Highway, Cheltenham,
	VIC. 3192

Designer:Troy ChuDesign Verifier:Stephen DoyleProduct:KONE N Monospace

KONE Elevators Pty Ltd A.C.N. 000 142 423 Level 1 205 Euston Road Alexandria NSW 2015

AUSTRALIA Tel +61 2 9577 7000 Fax +61 2 9577 7100 www.kone.com.au

I verify that the design described in the documents listed below meets the requirements of the relevant State Occupational Health and Safety Regulations, subject to the conditions of the WorkCover NSW Certificate of Plant Design Registration - LEM 6-168629_13

The Design of the plant is in compliance with the following standards and codes as applicable to the plant.

- AS 1735.1 Lifts, escalators and moving walks General requirements (EN81-1 Safety rules for the construction of lifts – Part 1: Electric lifts being the harmonized standard as the primary means of compliance)
- AS/NZS 3000 Electrical installations (Australian/New Zealand wiring rules)
- ABCA National Construction Code of Australia

SECTION E SERVICES AND EQUIMENT Part E3 Lift Installations which includes the deemed to satisfy provisions setout in Clause E3.6 Facilities for people with disabilities complying with the relevant sections of AS 1735.12:

- o Handrail
- Minimum clear door opening size
- Passenger protection system
- o Lift car and landing control buttons
- o Lighting complying with AS 1735.12 section 10 LIGHTING

SECTION C FIRE RESISTANCE Part C3 Protection of Openings Clause C3.10 Openings in fire-isolated lift shafts are protected by fire doors that are in compliance with AS 1735.11

Layout Drawings

6340938- EL-010-G-1 General Drawing

6340938- EL-010-I-1-1 Installation Layout

6340938- EL-010-B-1-1 Layout for Builder

6340938- EL-010-B-3-1 Layout for Builder

6340938- EL-010-A-1-1 Layout for Authority Approval

Yours Faithfully,

Stephen Doyle
 National Engineering Manager
 KONE Elevators Pty. Ltd.
 18/08/2017



Project No:	6340938
Esc No(s):	LA2
Site Name:	Nepean Highway
Site Address:	1228 Nepean Highway, Cheltenham,
	VIC, 3192

Designer:Troy ChuDesign Verifier:Stephen DoyleProduct:KONE N Monospace

KONE Elevators Pty Ltd A.C.N. 000 142 423

Level 1 205 Euston Road Alexandria NSW 2015 AUSTRALIA Tel +61 2 9577 7000 Fax +61 2 9577 7100 www.kone.com.au

I verify that the design described in the documents listed below meets the requirements of the relevant State Occupational Health and Safety Regulations, subject to the conditions of the WorkCover NSW Certificate of Plant Design Registration - LEM 6-168629_13

The Design of the plant is in compliance with the following standards and codes as applicable to the plant.

- AS 1735.1 Lifts, escalators and moving walks General requirements (EN81-1 Safety rules for the construction of lifts – Part 1: Electric lifts being the harmonized standard as the primary means of compliance)
- AS/NZS 3000 Electrical installations (Australian/New Zealand wiring rules)
- ABCA National Construction Code of Australia

SECTION E SERVICES AND EQUIMENT Part E3 Lift Installations which includes the deemed to satisfy provisions setout in Clause E3.6 Facilities for people with disabilities complying with the relevant sections of AS 1735.12:

- o Handrail
- o Minimum clear door opening size
- o Passenger protection system
- o Lift car and landing control buttons
- o Lighting complying with AS 1735.12 section 10 LIGHTING

SECTION C FIRE RESISTANCE Part C3 Protection of Openings Clause C3.10 Openings in fire-isolated lift shafts are protected by fire doors that are in compliance with AS 1735.11

Layout Drawings

6340938- EL-010-G-1 General Drawing 6340938- EL-010-I-1-1 Installation Layout 6340938- EL-010-B-1-1 Layout for Builder 6340938- EL-010-B-3-1 Layout for Builder 6340938- EL-010-A-1-1 Layout for Authority Approval

Yours Faithfully,

Stephen Doyle National Engineering Manager KONE Elevators Pty. Ltd. 18/08/2017



Project No:	6340938
Esc No(s):	LB1
Site Name:	Nepean Highway
Site Address:	1228 Nepean Highway, Cheltenham,
	VIC. 3192

Designer:Troy ChuDesign Verifier:Stephen DoyleProduct:KONE N Monospace

KONE Elevators Pty Ltd A.C.N. 000 142 423

Level 1 205 Euston Road Alexandria NSW 2015 AUSTRALIA Tel +61 2 9577 7000 Fax +61 2 9577 7100 www.kone.com.au

I verify that the design described in the documents listed below meets the requirements of the relevant State Occupational Health and Safety Regulations, subject to the conditions of the WorkCover NSW Certificate of Plant Design Registration - LEM 6-168629_13

The Design of the plant is in compliance with the following standards and codes as applicable to the plant.

- AS 1735.1 Lifts, escalators and moving walks General requirements (EN81-1 Safety rules for the construction of lifts – Part 1: Electric lifts being the harmonized standard as the primary means of compliance)
- AS/NZS 3000 Electrical installations (Australian/New Zealand wiring rules)
- ABCA National Construction Code of Australia

SECTION E SERVICES AND EQUIMENT Part E3 Lift Installations which includes the deemed to satisfy provisions setout in Clause E3.6 Facilities for people with disabilities complying with the relevant sections of AS 1735.12:

- o Handrail
- o Minimum clear door opening size
- o Passenger protection system
- Lift car and landing control buttons
- o Lighting complying with AS 1735.12 section 10 LIGHTING

SECTION C FIRE RESISTANCE Part C3 Protection of Openings Clause C3.10 Openings in fire-isolated lift shafts are protected by fire doors that are in compliance with AS 1735.11

Layout Drawings

6340938- EL-010-G-1 General Drawing 6340938- EL-010-I-1-1 Installation Layout 6340938- EL-010-B-1-1 Layout for Builder 6340938- EL-010-B-3-1 Layout for Builder 6340938- EL-010-A-1-1 Layout for Authority Approval

Yours Faithfully.

Stephen Doyle National Engineering Manager KONE Elevators Pty. Ltd. 18/08/2017



Project No:	6340938
Esc No(s):	LB2
Site Name:	Nepean Highway
Site Address:	1228 Nepean Highway, Cheltenham,
	VIC. 3192

KONE Elevators Pty Ltd

A.C.N. 000 142 423 Level 1 205 Euston Road Alexandria NSW 2015 AUSTRALIA Tel +61 2 9577 7000 Fax +61 2 9577 7100 www.kone.com.au

Designer:Troy ChuDesign Verifier:Stephen DoyleProduct:KONE N Monospace

I verify that the design described in the documents listed below meets the requirements of the relevant State Occupational Health and Safety Regulations, subject to the conditions of the WorkCover NSW Certificate of Plant Design Registration - LEM 6-168629_13

The Design of the plant is in compliance with the following standards and codes as applicable to the plant.

- AS 1735.1 Lifts, escalators and moving walks General requirements (EN81-1 Safety rules for the construction of lifts – Part 1: Electric lifts being the harmonized standard as the primary means of compliance)
- AS/NZS 3000 Electrical installations (Australian/New Zealand wiring rules)
- ABCA National Construction Code of Australia

SECTION E SERVICES AND EQUIMENT Part E3 Lift Installations which includes the deemed to satisfy provisions setout in Clause E3.6 Facilities for people with disabilities complying with the relevant sections of AS 1735.12:

- o Handrail
- o Minimum clear door opening size
- o Passenger protection system
- o Lift car and landing control buttons
- o Lighting complying with AS 1735.12 section 10 LIGHTING

SECTION C FIRE RESISTANCE Part C3 Protection of Openings Clause C3.10 Openings in fire-isolated lift shafts are protected by fire doors that are in compliance with AS 1735.11

Layout Drawings

6340938- EL-010-G-1 General Drawing 6340938- EL-010-I-1-1 Installation Layout 6340938- EL-010-B-1-1 Layout for Builder 6340938- EL-010-B-3-1 Layout for Builder 6340938- EL-010-A-1-1 Layout for Authority Approval

Yours Faithfully,

Stephen Doyle National Engineering Manager KONE Elevators Pty. Ltd. 18/08/2017



Project No:	340828603
Esc No(s):	L1
Site Name:	Nepean Highway
Site Address:	1228 Nepean Highway, Cheltenham,
	VIC. 3192

Designer: Troy Chu **Design Verifier:** Stephen Doyle Product: **KONE N Monospace**

KONE Elevators Pty Ltd A.C.N. 000 142 423 Level 1 205 Euston Road Alexandria NSW 2015 AUSTRALIA Tel +61 2 9577 7000 Fax +61 2 9577 7100

www.kone.com.au

I verify that the design described in the documents listed below meets the requirements of the relevant State Occupational Health and Safety Regulations, subject to the conditions of the WorkCover NSW Certificate of Plant Design Registration - LEM 6-168629 13

The Design of the plant is in compliance with the following standards and codes as applicable to the plant.

- AS 1735.1 Lifts, escalators and moving walks General requirements (EN81-1 Safety rules for the construction of lifts – Part 1: Electric lifts being the harmonized standard as the primary means of compliance)
- AS/NZS 3000 Electrical installations (Australian/New Zealand wiring rules)
- ABCA National Construction Code of Australia

SECTION E SERVICES AND EQUIMENT Part E3 Lift Installations which includes the deemed to satisfy provisions setout in Clause E3.6 Facilities for people with disabilities complying with the relevant sections of AS 1735.12:

- Handrail 0
- Minimum clear door opening size 0
- Passenger protection system 0
- Lift car and landing control buttons 0
- Lighting complying with AS 1735.12 section 10 LIGHTING 0

SECTION C FIRE RESISTANCE Part C3 Protection of Openings Clause C3.10 Openings in fire-isolated lift shafts are protected by fire doors that are in compliance with AS 1735.11

Layout Drawings

340828603- EL-010-G-1 General Drawing 340828603- EL-010-I-1-1 Installation Layout 340828603- EL-010-B-1-1 Layout for Builder 340828603- EL-010-B-3-1 Layout for Builder 340828603- EL-010-A-1-1 Layout for Authority Approval

Yours Faithfully,

Stephen Doyle National Engineering Manager KONE Elevators Pty. Ltd. 17/08/2017



SECTION 11 - COMPLIANCE CERTIFICATE(S)

This section contains the Compliance certificate for this equipment

- Certificate of compliance letter
- Certificate of electrical safety



Elevators Escalators Building doors

3 April 2018

Kevin Tuson Buildcorp Commercial Pty Ltd PO Box 241 CANTERBURY VIC 3126

Dear Kevin,

LIFT NO. 1,2,3,4&5 – THE VILLAGE, 1228 NEPEAN HIGHWAY, CHELTENHAM VIC 3192 CERTIFICATE OF COMPLIANCE

This is to certify that the above lifts have been inspected and tested and found to be fully complying with Relevant State Occupational Health & Safety Regulations including AS1735.1-2003.

We also confirm that the lifts comply with the NCC2015 Building Code of Australia – clause E3.6 Passenger lifts and clauses E3.7, E3.9 and E3.10 Fire service controls.

Please find attached as per AS 1735.11-1986, clause 2.2 Fire Resistance Rating, a fire test certificate confirming that the landing entrances have a two hour fire rating in accordance with AS1530.4-2005.

Yours faithfully

Ok.

Adrian Lane Site Manager New Equipment Installation

encl.

CERTIFICATE OF ELECTRICAL SAFETY for Non-Prescribed El	ectrical Installation Work
ELECTRICITY SAFETY ACT 1998, ELECTRICITY SAFETY (INSTALLATIONS) REGULATIONS 2009 CERTIFICATE OF COMPLIANCE	Certificate no. 6230 7776 2
1 Responsible Person (eg. electrical contractor, supervising electrician, electrician) REC reg./licence no. 3 6 Telephone no. 9934 8000 Name KONE 300 6 100	
2 Licensed Electrical Installation Worker (eg. electrician) Licence no. A 4 9 4 5 9 Name Stefan formula 3 Details of Electrical Installation Name of customer BUILD CORP	146498
Address of installation (include lot no: if required) 1228 Iffean highworg Suburb or town Postcode 3 1 9 2 Telephone NMI (if available) Iffean Iffean Iffean Iffean	2 C ED
A .ctrical Work Undertaken Have you installed wiring Socket outlets No. light points No. single No. doubles with Air Conditioning	LODINCI
Build Build <th< td=""><td>9[5]10</td></th<>	9[5]10
KONE N MONDSPACE INSTALLED	
to KONÉ RÉQUIREMENTS MAINS BY OTHERS	
LIFT 2 - 8 RAILWAY RD, CHELTENHAM	
5 Has this <i>electrical installation work</i> failed a previous audit? Yes No	Electricity supplier code (refer back of certificate for codes)
Type of property where the electrical installation work is carried out: (refer back of certificate for types) 1 Domestic 2 Non Domestic 3 Construction	
I, the licensed electrical installation worker named above, who carried out the electrical installation work described above, certify that the electrical work has passed all the required cests and complies in all respects with the Electricity Safety Act 1998 and the Electricity Safety (Installations) Regulations 2009.	energysate VICTORIA
Signature (Licensed Electrical Installation Worker)	State Covering a State Covering a Safer State with electricity and reas
7 Date of completion of work 291318 B Date Certified 09105118	electrony and gas

CERTIFICA	TE OF ELECTRICAL SAFETY for Non-Prescribed E	lectrical Installation Work
ELECTRICITY SAFETY A	ACT 1998, ELECTRICITY SAFETY (INSTALLATIONS) REGULATIONS 2009	Certificate no.
CERTIFICATE OF COM	PLIANCE	0230 ///4 0
1 Responsible Perso	IR (eg. electrical contractor, supervising electrician)	
Name	KONE TIENATOUS	
Business Address	350 BRIDGE ST. PORT MELBOURNE	
2 Licensed Electrica	Il Installation Worker (eg. electrician)	
Licence no.	A 5 2 9 5 5	
Name	PHIL WHEATLAND	150073
3 Details of Electrica	al Installation	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Name of customer Address of installation	BUILDCORP	
(include lot no. if required)	CHEITEANDANA BOTTOM Z 1 9 2	
Telephone	CHELLI ELVER VI A COMPANY	
NMI (if available)		
4 .ctrical Work Un	idertaken Have vou installed wiring	I OD GED
No. light points	Socket outlets or equipment associated No. single No. doubles with Air Conditioning?	WP
16	3 Yes No	al 18</td
Maximum demand in a	mps per phase on completion Consumers mains capacity in amps	11-11-
BY OTHER	BY OTHERS	
Description of work und	dertaken (if insufficient space, please attach list)	
MISTALLE	D KONE 'N' MONOSPACE UFT	
NUMBER	2. INSTALLED TO KONNE.	
Droced		
VESILAN,	, SPECIFICATION AND MORECUTION	
MAINS	BY OTHERS	
y		
92-	1228 NEPEAN HWY	
CHELTEN	IHAM	
5 Has this plantment	installation work failed a previous aude?	
If yes, quote previou	s certificate number	Electricity supplier code
6 Type of pronenty wh	ere the electrical installation work is carried out: meter back of certificate in artifice	(refer back of certificate for codes)
1 Domestic	2 Non Domestic 3 Construction	
I, the licensed electrical	l installation worker named above, who carried out the electrical installation work described above,	anoraveato
certify that the electrica 1998 and the Electricity	al work has passed all the required tests and complies in all respects with the Electricity Safety Act / Safety (Installations) Regulations 2009.	GIGIGIGIGIGIGI
Signature (Licensed Fectrical Installation	Worken	
	Jaco g	Victoria electricity and case
7 Date of completion (of work 29/03/18 8 Date Certified 09/05/18	

CERTIFICATE OF ELECTRICAL SAFETY for Non-Prescribed El	ectrical Installation Work
ELECTRICITY SAFETY ACT 1998, ELECTRICITY SAFETY (INSTALLATIONS) REGULATIONS 2009	Certificate no.
CERTIFICATE OF COMPLIANCE	6230 7775 5
1 Responsible Person (eg. electrical contractor, supervising electrician, electrician)	
REC reg./licence no. 3 3 6 Telephone no. 9934 8000	
Name KONE	
Business Address 350 BRIME ST FORT MELBOURNE 302	4
$\frac{2}{100000000000000000000000000000000000$	
Name JAMES CUTATAR	142933
3 Details of Electrical Installation	
Name of customer BUILDCORP	
Address of installation (include lot no. if required) 1228 NEPEAN HWY	
Suburb or town CHELTENHAM Postcode 3 1 9 2	
Telephone	- DIEN
NMI (if available)	LODGED
Socket outlets No light points No single No light points No single	-1-118
1/2 3 with Air Conditioning?	9/5/18
Maximum demand in amps per phase on completion Consumers mains capacity in amps	
BY OTHERS BY OTHERS	
Description of work undertaken (if insufficient space, please attach list)	
installed KONE N Monospace lift no. I	
In KONE docion and conscilication	2. A start of the start of t
and the manual specification	
requirements. Mains by others	
LIFT 1 - 1228 NEPEAN HWY	
5 Has this <i>electrical installation work</i> failed a previous audit?	
If yes, quote previous certificate number	Electricity supplier code (refer back of certificate for codes).
6. Type of property where the electrical installation work is carried out: (refer back of certificate for types)	
1 Domestic 2 Non Domestic 3 Construction	
i, the licensed electrical installation worker named above, who carried out the electrical installation work described above, certify that the electrical work has passed all the required tests and complies in all respects with the Electricity Safety Act 1998 and the Electricity Safety (Installations) Regulations 2009.	
Signature (Licensed Electrical Installation Worker)	Creating a
	Victoria safer state with electricity and gas
7 Date of completion of work $21/21/8$ 8 Date Certified $09/05/18$	

CERTIFICATE OF ELECTRICAL SAFETY for Non-Prescribed El	ectrical Installation Work
ELECTRICITY SAFETY ACT 1998, ELECTRICITY SAFETY (INSTALLATIONS) REGULATIONS 2009 CERTIFICATE OF COMPLIANCE	Certificate no. 6230 7776 2
1 Responsible Person (eg. electrical contractor, supervising electrician, electrician) REC reg./licence no. 3 6 Telephone no. 9934 8000 Name KONE 300 6 100	
2 Licensed Electrical Installation Worker (eg. electrician) Licence no. A 4 9 4 5 9 Name Stefan formula 3 Details of Electrical Installation Name of customer BUILD CORP	146498
Address of installation (include lot no: if required) 1228 Iffean highworg Suburb or town Postcode 3 1 9 2 Telephone NMI (if available) Iffean Iffean Iffean Iffean	2 C ED
A .ctrical Work Undertaken Have you installed wiring Socket outlets No. light points No. single No. doubles with Air Conditioning	LODINCI
Build Build <th< td=""><td>9[5]10</td></th<>	9[5]10
KONE N MONDSPACE INSTALLED	
to KONÉ RÉQUIREMENTS MAINS BY OTHERS	
LIFT 2 - 8 RAILWAY RD, CHELTENHAM	
5 Has this <i>electrical installation work</i> failed a previous audit? Yes No	Electricity supplier code (refer back of certificate for codes)
Type of property where the electrical installation work is carried out: (refer back of certificate for types) 1 Domestic 2 Non Domestic 3 Construction	
I, the licensed electrical installation worker named above, who carried out the electrical installation work described above, certify that the electrical work has passed all the required cests and complies in all respects with the Electricity Safety Act 1998 and the Electricity Safety (Installations) Regulations 2009.	energysate VICTORIA
Signature (Licensed Electrical Installation Worker)	State Covering a State Covering a Safer State with electricity and reas
7 Date of completion of work 291318 B Date Certified 09105118	electrony and gas

INFRASTRUCTURE TECHNOLOGIES www.csiro.au



Likely fire-resistance of modified liftlanding doorsets tested to BS 476 Parts 20 and 22-1987

Assessment Report

Author:	Mario Lara-Ledermann	
Report number:	FCO-1681	
Date:	(Supersedes version dated 18 January 2010 3 February 2015)
Client:	Kone Elevators Pty Ltd	

Commercial-in-confidence



Inquiries should be address to:

Fire Testing and Assessments	Author	The Client
Infrastructure Technologies	Infrastructure Technologies	Kone Elevators Pty Ltd
14 Julius Avenue	14 Julius Avenue	205 Euston Road,
North Ryde, NSW 2113	North Ryde, NSW 2113	Alexandria NSW 2015
Telephone +61 2 94905444	Telephone +61 2 94905500	Telephone +61 2 9577 7337

Report Details:

Report CSIRO Reference number: FCO-1681/4488

Report Status and Revision History:

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Report Authorization:

AUTHOR	REVIEWED BY	AUTHORISED BY
Mario Lara-Ledermann	Brett Roddy	Brett Roddy
S.La	B. Roday	B. Roday
3 February 2015	3 February 2015	3 February 2015

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Important disclaimer

This assessment report will lapse on 28 February 2020. Should you wish us to re-examine this report with a view to the possible extension of its term of validity, would you please apply to us three to four months before the date of expiry. This Division reserves the right at any time to amend or withdraw this assessment in the light of new knowledge.

CSIRO advises that the information contained in this publication comprises general statements based on scientific research. The reader is advised and needs to be aware that such information may be incomplete or unable to be used in any specific situation. No reliance or actions must therefore be made on that information without seeking prior expert professional, scientific and technical advice. To the extent permitted by law, CSIRO (including its employees and consultants) excludes all liability to any person for any consequences, including but not limited to all losses, damages, costs, expenses and any other compensation, arising directly or indirectly from using this publication (in part or in whole) and any information or material contained in it.

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Executive summary

This Division has examined the submitted information referenced by you regarding the conformance of the test results to BS 476.20-22, to the requirements of AS 1530.4-2005 with respect to your lift landing door assemblies and the effect of modifications to the tested prototype.

You have requested that this Division carry out an analysis of the likely fire-resistance performance to Australian Standard 1530.4-2005 of the lift landing door assemblies, fire tested to British Standard 476 Parts 20-22 and reported in the fire test reports numbered TE 88984 & TE 90864, both by The Loss Prevention Council, LPC Laboratories of UK with a number of modifications to the tested prototype.

It is the opinion of this Division that the Kone range AMDL/Z lift landing doors tested and assessed by The Loss Prevention Council, LPC Laboratories of UK, if subjected to a fire-resistance requirement of AS 1530.4-2005 would be capable of achieving fire-resistance level of -/120/-.

This opinion includes the entire range of Kone AMDL/Z range of lift-landing entrances (AMDL1/Z, AMDL2/Z, AMDL3/Z, AMDL4/Z and AMDL5/Z), assessed in LPC letter of opinion numbered CC 91891, including alternative sill and wall fixtures as described in letter's section 4.

Likely fire-resistance of modified liftlanding doorsets tested to BS 476 Parts 20 and 22-1987

1 Introduction

This Division has examined the submitted information referenced by you regarding the conformance of the test results to BS 476.20-22, to the requirements of AS 1530.4-2005 with respect to your lift landing door assemblies and the effect of modifications to the tested prototype.

2 Supporting Data

Data from the fire test reports numbered TE 88984 and TE 90864, by The Loss Prevention Council, LPC Laboratories of UK were used to support the variations to the tested prototype described in this assessment. Refer to Appendix A.

3 Proposal

You have requested that this Division carry out an analysis of the likely fire-resistance performance to Australian Standard 1530.4-2005 of the lift landing door assemblies, fire tested to British Standard 476 Parts 20-22 and reported in the fire test reports numbered TE 88984 & TE 90864, both by The Loss Prevention Council, LPC Laboratories of UK with a number of modifications to the tested prototype.

4 Analysis

The significant requirements in AS 1530.4-2005 and BS476 Parts 20-22 are itemised and the corresponding requirements are compared in the Table 1 of Appendix B.

5 Conclusion

It is the opinion of this Division that the Kone range AMDL/Z lift landing doors tested and assessed by The Loss Prevention Council, LPC Laboratories of UK, if subjected to a fire-resistance requirement of AS 1530.4-2005 would be capable of achieving fire-resistance level of -/120/-.

This opinion includes the entire range of Kone AMDL/Z range of lift-landing entrances (AMDL1/Z, AMDL2/Z, AMDL3/Z, AMDL4/Z and AMDL5/Z), assessed in LPC letter of opinion numbered CC 91891, including alternative sill and wall fixtures as described in letter's section 4.

6 Term of validity

This assessment report will lapse on 28 February 2020. Should you wish us to re-examine this report with a view to the possible extension of its term of validity, would you please apply to us three to four months before the date of expiry. This Division reserves the right at any time to amend or withdraw this assessment in the light of new knowledge.


FAR 3526 FIRE RESISTANCE OF WITTUR LIFT LANDING DOORS TO AS1530.4-2005

Author:

(

P. Bano-Chapman Senior Fire Testing Engineer

Baco-Gono

Reviewer:

E. Soja Senior Fire Engineer

Contact:

BRANZ Limited Moonshine Road Judgeford Private Bag 50908 Porirua City New Zealand Tel: +64 4 237 1170 Fax: +64 4 237 1171 www.branz.co.nz



BRANZ's agreement with its Client in relation to this report contains the following terms and conditions in relation to *Liability and Indemnification*

- a. Limitation and Liability
 - i. BRANZ undertakes to exercise due care and skill in the performance of the Services and accepts liability to the Client only in cases of proven negligence.
 - ii. Nothing in this Agreement shall exclude or limit BRANZ's liability to a Client for death or personal injury or for fraud or any other matter resulting from BRANZ's negligence for which it would be illegal to exclude or limit its liability.
 - BRANZ is neither an insurer nor a guarantor and disclaims all liability in such capacity.
 Clients seeking a guarantee against loss or damage should obtain appropriate insurance.
 - iv. Neither BRANZ nor any of its officers, employees, agents or subcontractors shall be liable to the Client nor any third party for any actions taken or not taken on the basis of any Output nor for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information provided to BRANZ.
 - v. BRANZ shall not be liable for any delayed, partial or total non-performance of the Services arising directly or indirectly from any event outside BRANZ's control including failure by the Client to comply with any of its obligations hereunder.
 - vi. The liability of BRANZ in respect of any claim for loss, damage or expense of any nature and howsoever arising shall in no circumstances exceed a total aggregate sum equal to 10 times the amount of the fee paid in respect of the specific service which gives rise to such claim or NZD\$50,000 (or its equivalent in local currency), whichever is the lesser.
 - vii. BRANZ shall have no liability for any indirect or consequential loss (including loss of profits).
 - viii. In the event of any claim the Client must give written notice to BRANZ within 30 days of discovery of the facts alleged to justify such claim and, in any case, BRANZ shall be discharged from all liability for all claims for loss, damage or expense unless legal proceedings are commenced in respect of the claim within one year from:
 - The date of performance by BRANZ of the service which gives rise to the claim; or
 - The date when the service should have been completed in the event of any alleged non-performance.
- b. Indemnification: The Client shall guarantee, hold harmless and indemnify BRANZ and its officers, employees, agents or subcontractors against all claims (actual or threatened) by any third party for loss, damage or expense of whatsoever nature including all legal expenses and related costs and howsoever arising relating to the performance, purported performance or non-performance, of any Services.
- c. Without limiting clause b above, the Client shall guarantee, hold harmless and indemnify BRANZ and its officers, employees, agents or subcontractors against all claims (actual or threatened) by any party for loss, damage or expense of whatsoever nature including all legal expenses and related costs arising out of:
 - i. any failure by the Client to provide accurate and sufficient information to BRANZ to perform the Services;
 - ii. any misstatement or misrepresentation of the Outputs, including Public Outputs;
 - iii. any defects in the Products the subject of the Services; or
 - iv. any changes, modifications or alterations to the Products the subject of the Services.

FIRE RESISTANCE OF WITTUR LIFT LANDING DOORS TO AS1530.4-2005

1. CLIENT

Wittur Holding GmbH, Rohrbachstrasse 26-30, D-85259 Wiedenzhausen, Germany

2. INTRODUCTION

This report gives BRANZ's assessment of the following variations to Wittur Hydra and Augusta lift landing doors in accordance with AS 1530.4-2005.

Variations for 3201-Hydra door Types 01/C, 11/R-L, 41/C, and 43/R:

- panel edge variants (only for types 01/C, 41/C, 43/R)
- covered frame and panel variants
- contact variants
- mechanism cover plate variants
- sill and undersill variants
- push button variants
- Gap cover (calfeutrement) variant
- lateral front and upper frame variant
- frame variants
- cabinet installation variants

Variations for 3215 Augusta door Types 01/C and 11/R-L:

- panel edge variants (only for type 01/C)
- covered frame and panel variants
- screwed guide variant
- sill variants
- frame variants
- header variant
- push button box variant
- Gap cover (calfeutrement) variant
- landing lock variant
- lateral front and cabinet installation variants

3. BACKGROUND

The Hydra and Augusta doors have been subjected to fire resistance testing in accordance with range of test methods including BS 476: Part 22: 1987, EN 81-58: 2003 or UNE 23-802-79. On the basis of this testing, the above listed variations have previously been assessed to BS 476: Part 22: 1987 in the following Exova Warringtonfire reports:



Door Series	Door type	Exova Warringtonfire report No.	Issue date
3201-Hydra	01/C	190327A	4 th March 2010
	11/R-L	190327B	4 th March 2010
	41/C	190327C	4 th March 2010
	43/R	190327D	4 th March 2010
3215-Augusta	11/R-L	190328B	27 th April 2010
	01/C	190328A	26 th April 2010

Refer to the Exova Warringtonfire assessment reports for specific details on the variations and test data.

4. **DISCUSSION**

In Exova Warringtonfire assessment reports listed in section 3 it was determined that Wittur Hydra and Augusta lift landing doors would achieve 120 minutes Integrity if they were tested in accordance with BS 476: Part 22: 1987. This assessment considered the differences between BS 476: Part 22: 1987 and AS 1530.4: 2005 only. For specific construction or details on the assessed lift landing doors refer to the Exova Warringtonfire assessment reports listed in section 3.

A comparison between BS476: Part 22: 1987 and AS 1530.4-2005 has been made and determined with respect to lift landing doors. The significant differences are discussed below:

Both test standards use the same ISO fire resistance curve but differ slightly in the limits for the average furnace temperature. On the assumption that the fire resistance test curves complied with BS476 it is considered they would also likely comply with AS 1530.4-2005.

The other area with regards to furnace conditions is that in BS476 the neutral pressure plane inside the furnace is set to nominally 1,000 mm high. In AS1530.4 the neutral pressure plane is nominally 500 mm high. With lift landing doors largely made from steel it is considered the difference in height would not impact on the performance of the tested lift landing doors.

In both BS476 and AS1530.4-2005 a cotton pad, flaming in excess of 10 seconds and gap gauges 6 mm x 150 mm and 25 mm diameter are used to determine Integrity failure. As the lift landing doors have been assessed by Exova Warringtonfire to BS476: Part 22: 1987 it is considered the Integrity criteria of AS1530.4-2005 would also be met.

Therefore based on the information supplied and a comparison between test methods it is considered had the Wittur Hydra and August lift landing doors been tested to AS1530.4-2005 it is expected they would also achieve an Integrity of at least 120 minutes or a fire resistance level (FRL) of at least -/120/-.



5. CONCLUSION

It is considered that based on the supplied Exova Warringtonfire reports on the Wittur Hydra and Augusta lift landing doors, if tested, would achieve at least an Integrity of 120 minutes (FRL -/120/-) in accordance with AS 1530.4-2005.

6. **LIMITATION**

This assessment report is provided on the basis of the accuracy and completeness of the information provided by the client. Should any data come to BRANZ's attention relating to the fire resistance of the items discussed herein, BRANZ reserve the right to amend this report.





WARRANTY

KONE Elevators Pty Limited ABN 47 000 142 423 ("KONE") hereby warrants to the Beneficiary that all the Equipment installed at the Premises will be free of defects in materials, workmanship and manufacturing, under normal use, for a period of 12 months from the date of commissioning of the Equipment.

KONE will rectify any such defects free of cost to the Beneficiary during normal business hours.

This warranty does not apply: (1) to consumable parts unless failure has occurred due to a defect in materials or workmanship; (2) to cosmetic damage, including but not limited to scratches and dents; (3) to damage caused by use with non-KONE products; (4) to damage caused by accident, abuse, misuse, liquid contact, fire, earthquake, flood or other external causes; (5) to damage caused by operating the Equipment outside its permitted or intended uses; (6) to damage caused by service performed by anyone who is not a representative of KONE; (7) if the Equipment has been modified to alter functionality or capability without the written permission of KONE; (8) to defects caused by normal wear and tear or otherwise due to the normal aging of the Equipment.

The benefits conferred by this warranty are in addition to all rights and remedies conveyed by law. However, KONE disclaims statutory and implied warranties to the extent permitted by law, and in so far as such warranties cannot be disclaimed, all such warranties shall to the extent permitted by law be limited in duration to the duration of the express warranty described above and to the rectification of defects.

To the maximum extent permitted by law, KONE has no liability for any loss of profits or revenue; increased expense of operation, loss of production; loss or denial of opportunity; loss of access to markets; loss or diminution of goodwill; loss of business reputation, future reputation or publicity; damage to credit rating; loss of use; and indirect, remote, abnormal or unforeseeable loss, or any similar loss suffered by the Beneficiary or any third party.

Beneficiary	Buildcorp Commercial Pty Ltd
Equipment	5 x KONE N MonoSpace
Premises	The Village, 1228 Nepean Highway, Cheltenham VIC 3192

Signed for and on behalf of KONE Elevators Pty Limited ABN 47 000 142 423.

JP Girardin Volume Business Installation Manager