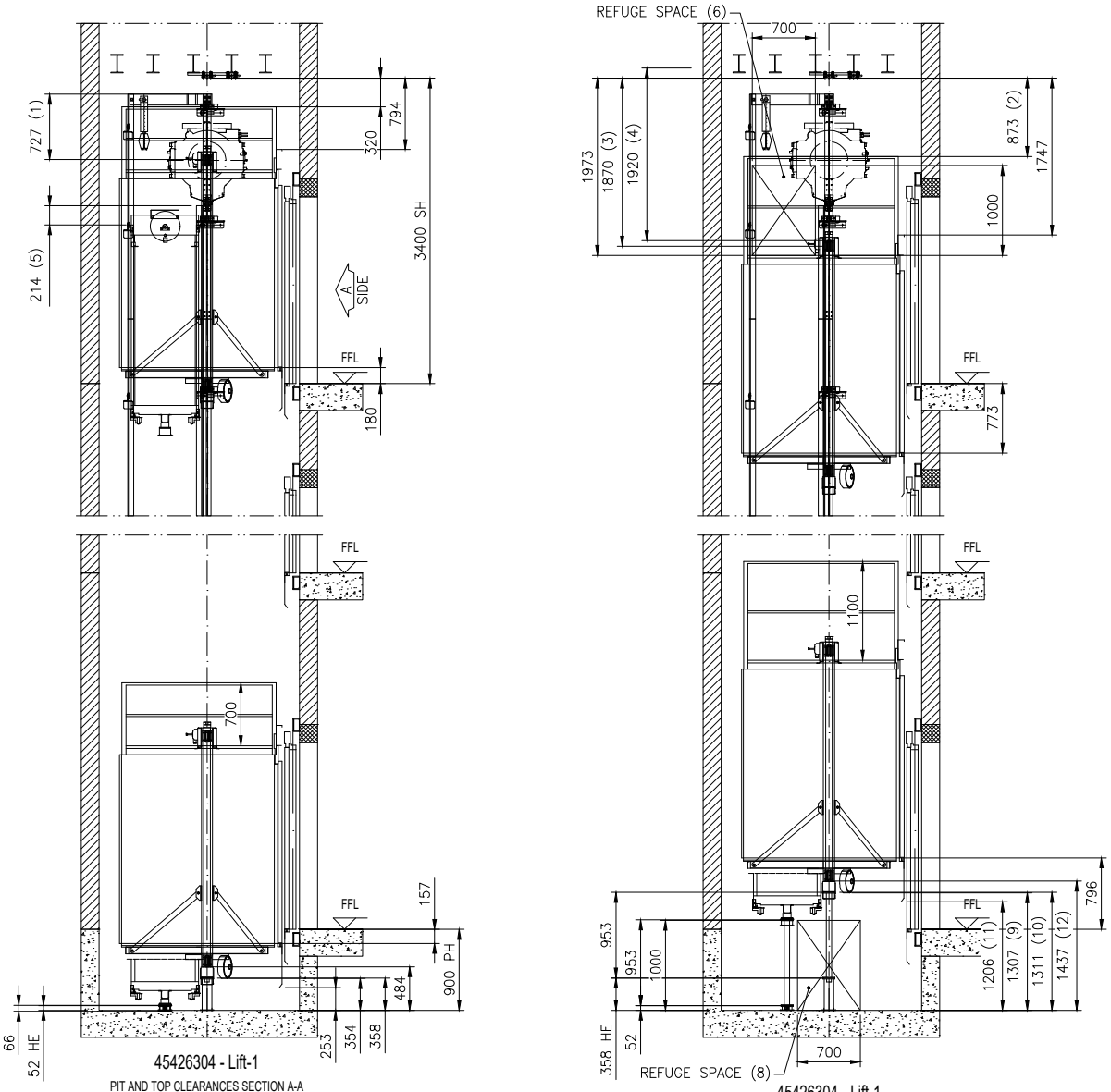
CAR OVERTRAVEL	: 85 mm
CAR BUFFER COMPRESSION	: 72 mm
TOTAL	: 157 mm
CAR JUMP	: 35 mm
CWT OVERTRAVEL	: 79 mm
CWT BUFFER COMPRESSION	: 66 mm
TOTAL	: 180 mm



45426304 - Lift-1
PIT AND TOP CLEARANCES SECTION A-A
Hinged buffer in drive position
Scale 1:55

45426304 - Lift-1
PIT AND TOP CLEARANCES SECTION A-A
Hinged buffer in maintenance position
Scale 1:55

IMPORTANT:-
Builder notes plus KONE & sub contractor notes are itemised on drawing G-1-1.

MAIN STANDARD:	COMPLEMENTARY STANDARDS:
EN81-20:2020	EN81-21:2022 EN81-70:2021+A1:2022 EN81-73:2020
Deviations:	Deviations:
EU conformity assessment procedure	CAP2 EU-type examined model lift

HEADROOM & PIT DIMENSIONS

re : CODE OF PRACTICE

		CLAUSE EN81-20	ACTUAL	MINIMUM EN81-21
Headroom	1.	5.2.5.6.2	727	100
	2.	5.2.5.7.2 (c1)	873	300
	3.	5.2.5.7.2 (a)	1870	500
	4.	5.2.5.7.2 (b)	1920	100
	5.	5.2.5.6.2	214	100
	6.	5.2.5.7.1		Refuge space 0.5x0.7x1.0m
	7.			
Pit	8.	5.2.5.8.1		Refuge space 0.5x0.7x1.0m
	9.	5.2.5.8.2 (a)	1307	500
	10.	5.2.5.8.2 (a)	1311	500
	11.	5.2.5.8.2 (a1)	1206	100
	12.	5.2.5.8.2 (a2)	1437	100

Layout approved with/without comments:

Date: Signature/stamp:

Version	Date	Description	Designed by	Approved by
en.B.1	2024-05-02	Door position change 630mm front RH wall	Craig Jones	
en.A.1	2024-04-24	RH Machine, door position, 3400mm SH & CPD	Craig Jones	
en.-.1	2023-12-15	First issue	John Fitzsimmons	

KONE plc
922 Birchwood Blvd, Birchwood,
Warrington
WA3 7QN
01536 662841

Project name: Neptune Mill
Site address: 64 Chapeltown Street, Manchester, M1 2WQ
Drawing title: LAYOUT FOR AUTHORITY APPROVAL
Equipment number(s): 45426304; 72702678

FL ref. number	Drg no	Issue	Page
343340595	45426304-010-A-1-1	B	1 (2)
	Cust no: –		

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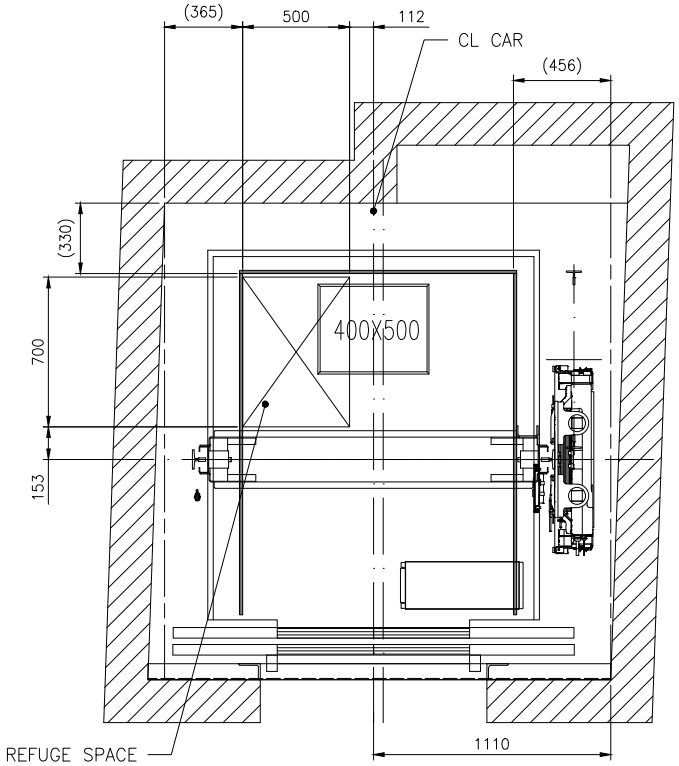
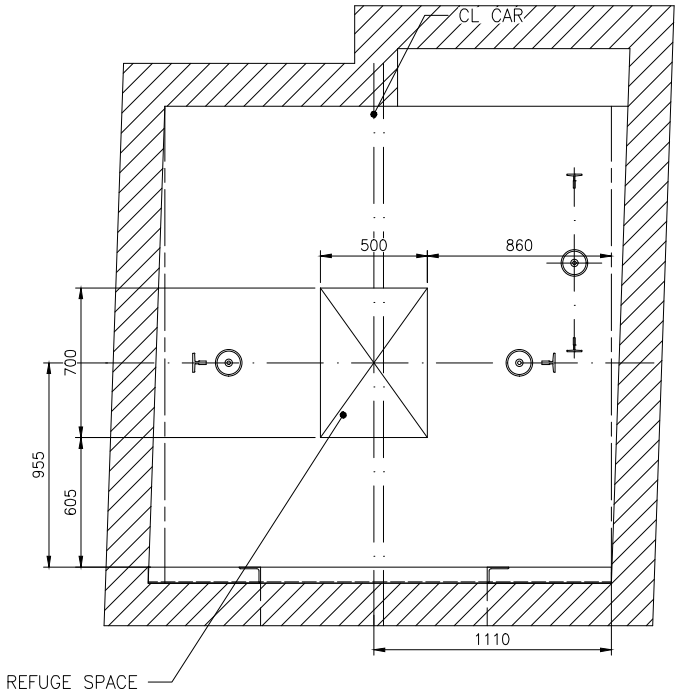


45426304 - Lift-1

REFUGE SPACE ON CAR ROOF

Scale 1:30



45426304 - Lift-1

REFUGE SPACE IN PIT

Scale 1:30

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01536 662841

Project name: Neptune Mill

Site address: 64 Chapeltown Street, Manchester, M1 2WQ

Drawing title: LAYOUT FOR AUTHORITY APPROVAL

Equipment number(s): 45426304; 72702678

FL ref. number	Drg no	Issue	Page
343340595	45426304-010-A-1-2	C	2 (2)
	Cust no: –		

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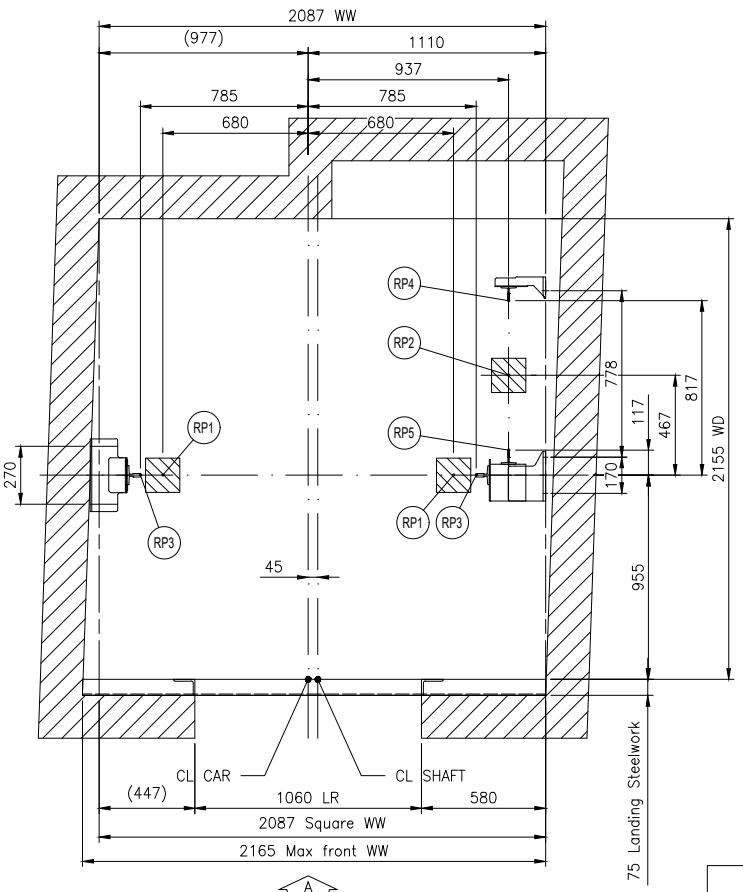
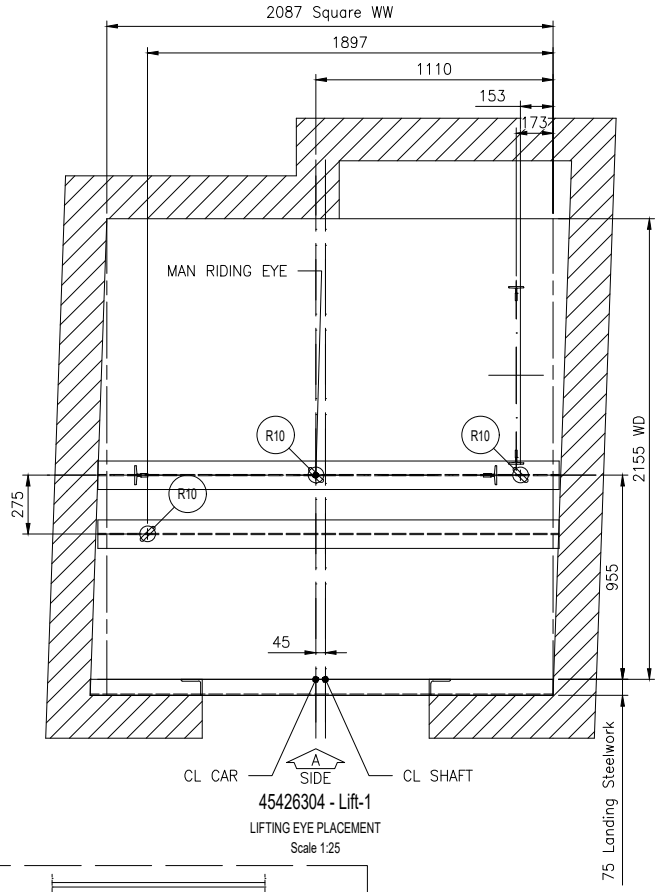


45426304 - Lift-1

FORCES ON PIT

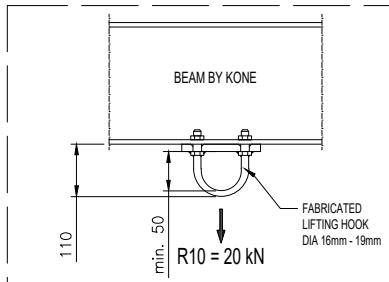
Scale 1:25



45426304 - Lift-1

LIFTING EYE PLACEMENT

Scale 1:25

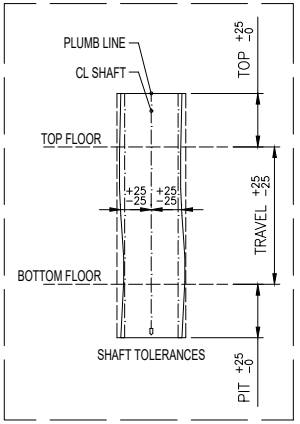


NOT FOR MANUFACTURING
ONLY AS DIMENSIONAL REFERENCE

LIFTING EYES TO BE SUPPLIED
BY KONE, FITTED BY KONE
AND TESTED BY KONE FROM
SCAFFOLD PLATFORM BY OTHERS.

LIFTING EYE DETAIL

DO NOT SCALE



All lifting eyes must be thoroughly examined by a competent person after installation and before being put into use for the first time LOLER 1998 Reg 9(2).

Where KONE are not carrying out the thorough examination it must be done by a company who are full LEEA members & qualified.

All lifting eyes to be load tested to 125% SWL. All lifting eyes to be ID marked and ID visible from landing.

Any beams should have a maximum permissible deflection of L/500 (where L=span of beam).

IMPORTANT:-
Builder notes plus KONE & sub contractor notes are itemised on drawing G-1-1.

MAXIMUM REACTION LOADS ON PIT FLOOR

ELEVATOR NUMBER(S): 45426304 - Lift-1

Load	Value (kN)	Value (kN)	Value (kN)	Value (kN)
RP1	42.6	-	-	-
RP2	62.6	-	-	-
RP3	30.7	-	-	-
RP4	29.5	-	-	-
RP5	5	-	-	-
RP6	-	-	-	-

Note:

Reaction loads RP1...RP6 on the pit bottom are not simultaneous.

Layout approved with/without comments:

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en.-.1	2023-12-15	First issue	John Fitzsimmons	

KONE plc
922 Birchwood Blvd, Birchwood,
Warrington
WA3 7QN
01536 662841

Project name: Neptune Mill

Site address: 64 Chapeltown Street, Manchester, M1 2WQ

Drawing title: LAYOUT FOR BUILDER - PLANS

Equipment number(s): 45426304; 72702678

FL ref. number	Drg no	Issue	Page
343340595	45426304-010-B-1-1	C	1 (6)
	Cust no: -		

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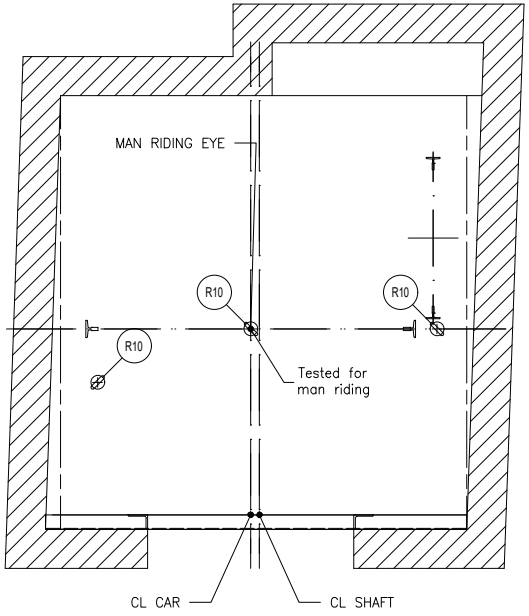
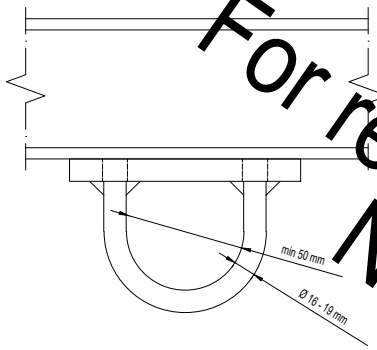
ACCEPTABLE LIFTING EYE ARRANGEMENTS:

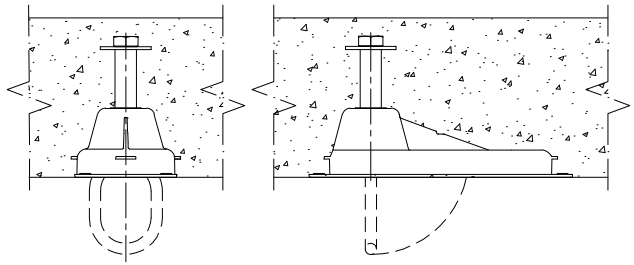


FIXED ON BEAM:

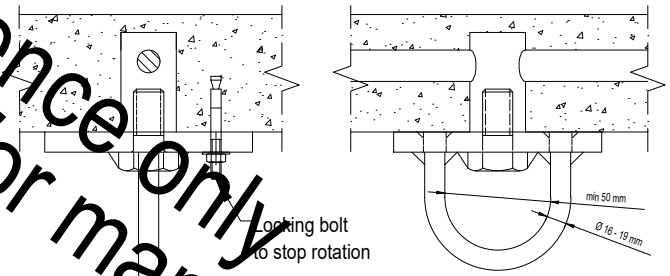


If bolts are used to fix the eyes on the beams, they must be locked to stop them from rotating.

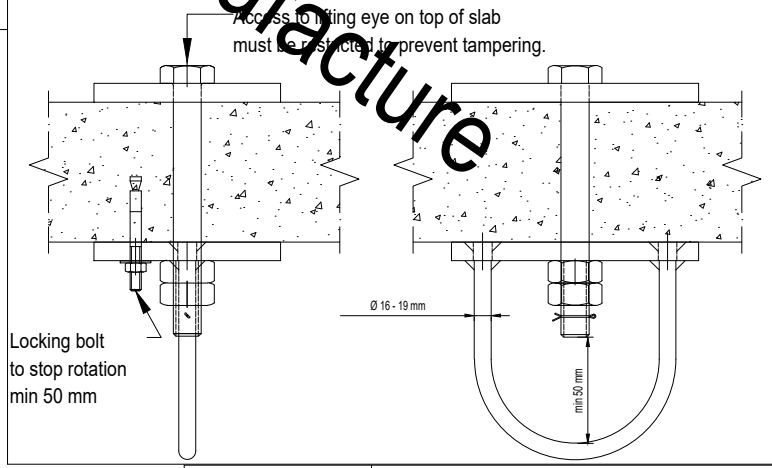
CAST IN CONCRETE FULLY RECESSED:



CAST IN CONCRETE:



DRILLED THROUGH SLAB:



For reference only
Not for manufacture

NOTES:

- Please refer to KONE drawings for layout dimensions.
- All lifting eyes must be thoroughly examined by a competent person after installation and before being put into use for the first time LOLER 1998 Reg 9(2).
- Where KONE are not carrying out the thorough examination it must be done by a company who are full LEEA members & qualified.
- All lifting eyes to be load tested to 125% SWL.
- Any beams should have a maximum permissible deflection of L/500 (where L=span of beam).

KONE plc
922 Birchwood Blvd, Birchwood,
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WA3 7QN
01535 662841

Project name	Neptune Mill
Site address	64 Chapeltown Street, Manchester, M1 2WQ
Drawing title	LIFTING EYE PLACEMENT
Equipment number(s)	45426304; 72702678

FL ref. number	Drg no	45426304-010-B-1-2	Issue	Page
343340595	Cust no	-	C	2 (6)

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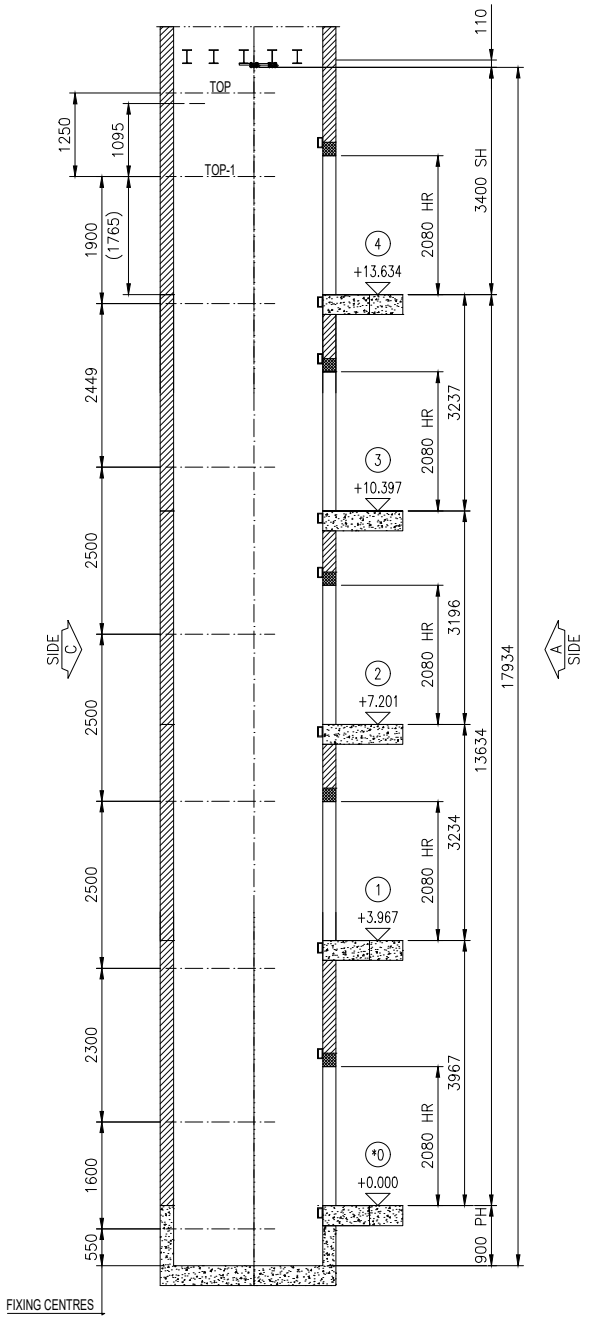
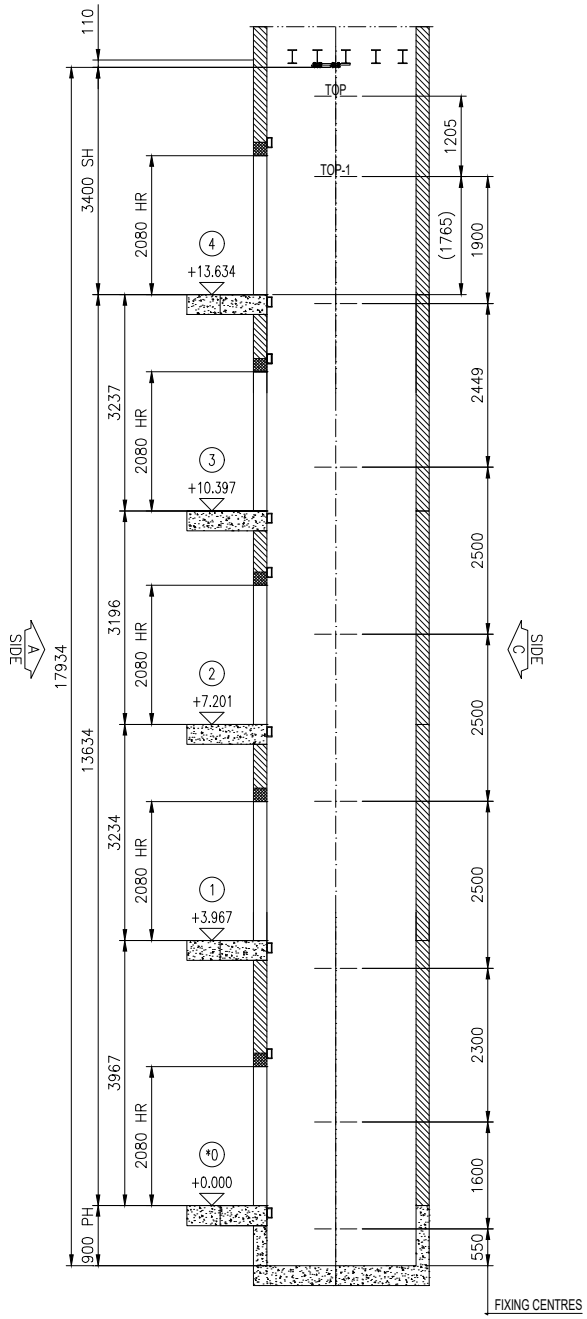
2022 / KP26.3.2024 / C#26-03-2024 / QD-011117



45426304 - Lift-1
SECTION A-A
Cracked concrete bolt WALL
Scale 1:80



45426304 - Lift-1
SECTION B-B
Cracked concrete bolt WALL
Scale 1:80

IMPORTANT:-
Builder notes plus KONE & sub contractor notes are itemised on drawing G-1-1.

MAXIMUM FORCES TO GUIDE FIXING POINTS		
ELEVATOR NUMBER(S):		45426304 - Lift-1
	Load	Value (kN)
S top / P top / T top	P top	3.81
	S top	5.94
	T top	3.84
S top-1 / P top-1 / T top-1	P top-1	6.68
	S top-1	7.95
	T top-1	7.45
S rest / P rest / T rest	P rest	3.88
	S rest	2.23
	T rest	4.19

GUIDERAIL REACTION FORCES			
ELEVATOR NUMBER(S):			45426304 - Lift-1
RATED LOAD:			1150 kg
		Load	Value (kN)
Car side	Non top	Max Fx car	2.20
		Max Fy car	2.16
	Top / Top-1 / Top-2	Tx	5.94
		Ty	-
		Max Fx car	2.20
		Max Fy car	2.16
Machinery side	Non top	Max Fx car	2.20
		Max Fy car	2.16
	Top / Top-1 / Top-2	Tx	2.08
		Ty	0.91
		Max Fx car	2.20
		Max Fy car	2.16

Floor no.	Floor design Entrance Side A	Floor design Entrance Side C	HR	LR	FFL	Floor height
5	4	--	2080	1060	13634	
4	3	--	2080	1060	10397	3237
3	2	--	2080	1060	7201	3196
2	1	--	2080	1060	3967	3234
1	0	--	2080	1060	0	3967

* = MAIN FLOOR

HEADROOM HEIGHT	3400
TRAVEL HEIGHT	13634
PIT HEIGHT	900
SHAFT HEIGHT	17934
SHAFT WIDTH	2130
SHAFT DEPTH	2230

Layout approved with/without comments:

Date: Signature/stamp:

Version	Date	Description	Designed by	Approved by
en.B.1	2024-05-02	Door position change 630mm front RH wall	Craig Jones	
en.A.1	2024-04-24	RH Machine, door position, 3400mm SH & CPD	Craig Jones	
en.-.1	2023-12-15	First issue	John Fitzsimmons	

KONE plc
922 Birchwood Blvd, Birchwood,
Warrington
WA3 7QN
01535 662841

Project name	Neptune Mill
Site address	64 Chapeltown Street, Manchester, M1 2WQ
Drawing title	LAYOUT FOR BUILDER – ELEVATIONS
Equipment number(s)	45426304; 72702678

FL ref. number	Drg no		Issue	Page
343340595	Cust no	–	B	3 (6)

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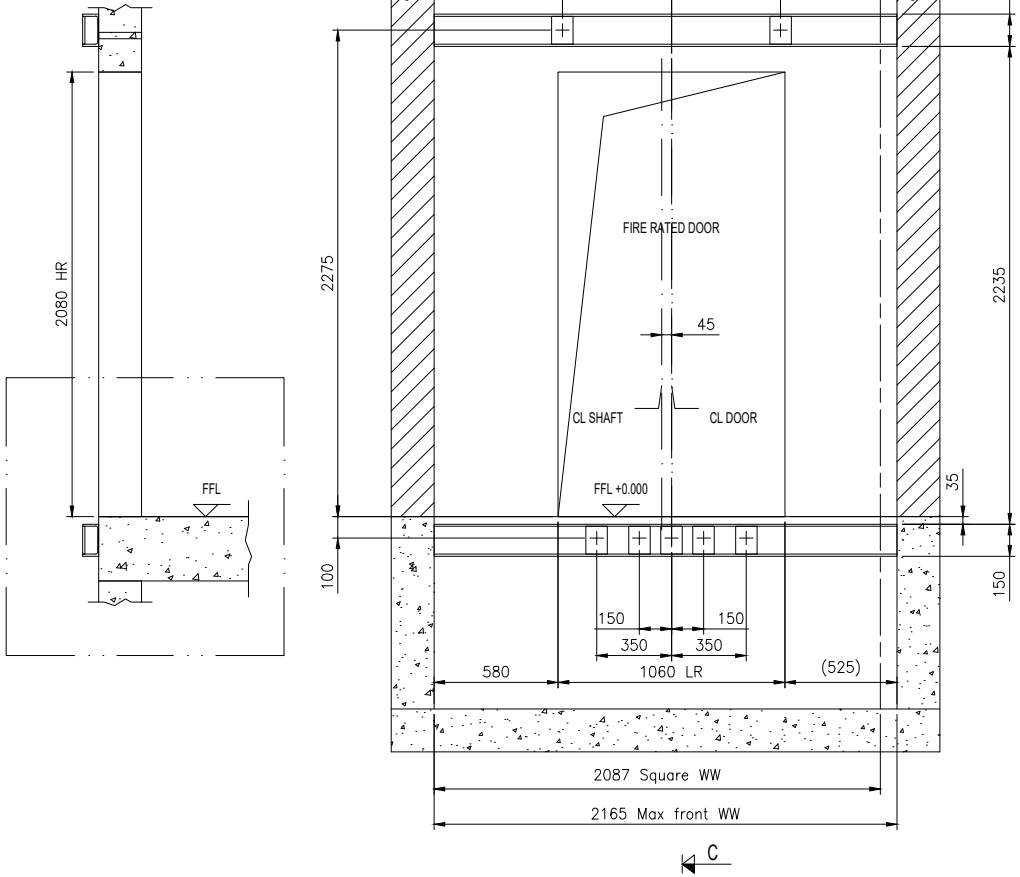
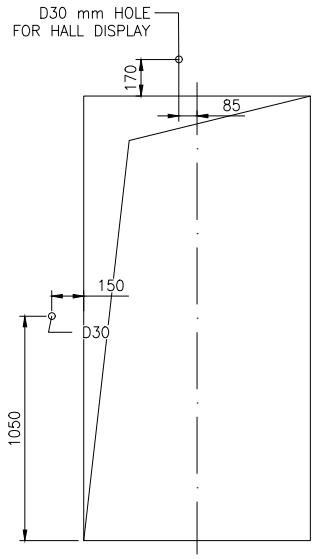
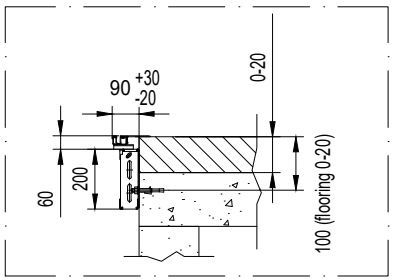
KONE fire rated entrances are tested in accordance to EN 81-58 in standard supporting constructions of blockwork, masonry or concrete as defined in annex B. Where the KONE fire rated entrance is installed into any front wall material other than blockwork, masonry or concrete; or where the dimensions of the structural opening are not within the values specified in our drawing pack; or where the lift entrance is pushed backwards into the well exceeding the value specified in our drawing pack; and as a result falls outside the scope of the fire certification of the entrance; then the fire protection between the structural opening of the lift well and the outer edge of the landing entrance must be provided and certified by others. KONE has some additional fire test certification for other front wall material constructions; the application of which needs to be checked on a case by case basis with KONE.



STRUCTURAL OPENING
VIEW FROM SHAFT
FLOOR MARK: 0; Side A
Scale 1:25



STRUCTURAL OPENING
VIEW FROM LANDING
FLOOR MARK: 0; Side A



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01535 662841

Project name: Neptune Mill
Site address: 64 Chapeltown Street, Manchester, M1 2WQ
Drawing title: LAYOUT FOR BUILDER
Equipment number(s): 45426304; 72702678

FL ref. number	Drg no	Issue	Page
343340595	45426304-010-B-3-1	C	4 (6)
	Cust no: –		

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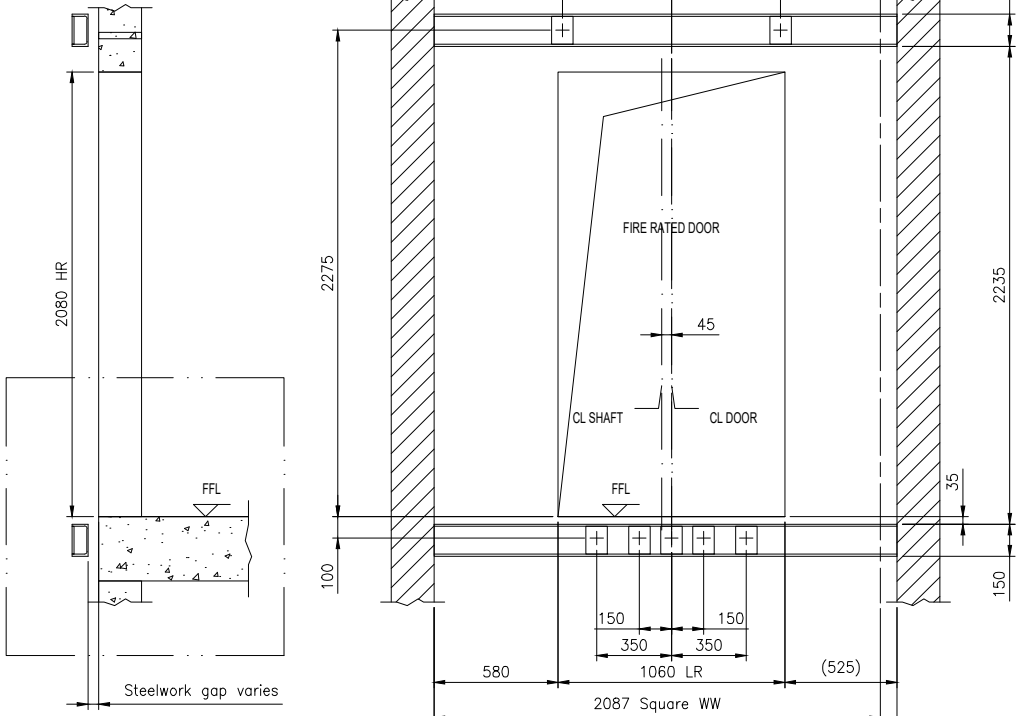
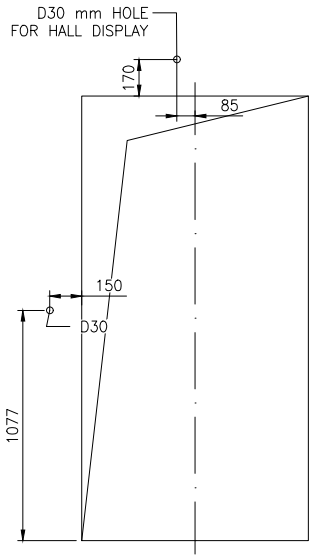
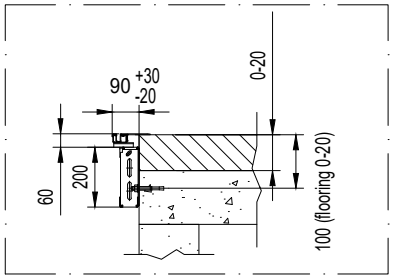


STRUCTURAL OPENING
VIEW FROM SHAFT
FLOOR MARK: 1-3; Side A

Scale 1:25



STRUCTURAL OPENING
VIEW FROM LANDING
FLOOR MARK: 1-3; Side A



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WA3 7QN
01535 662841

Project name: Neptune Mill
Site address: 64 Chapeltown Street, Manchester, M1 2WQ
Drawing title: LAYOUT FOR BUILDER
Equipment number(s): 45426304; 72702678

FL ref. number	Drg no	Issue	Page
343340595	45426304-010-B-3-2	C	5 (6)
	Cust no: –		

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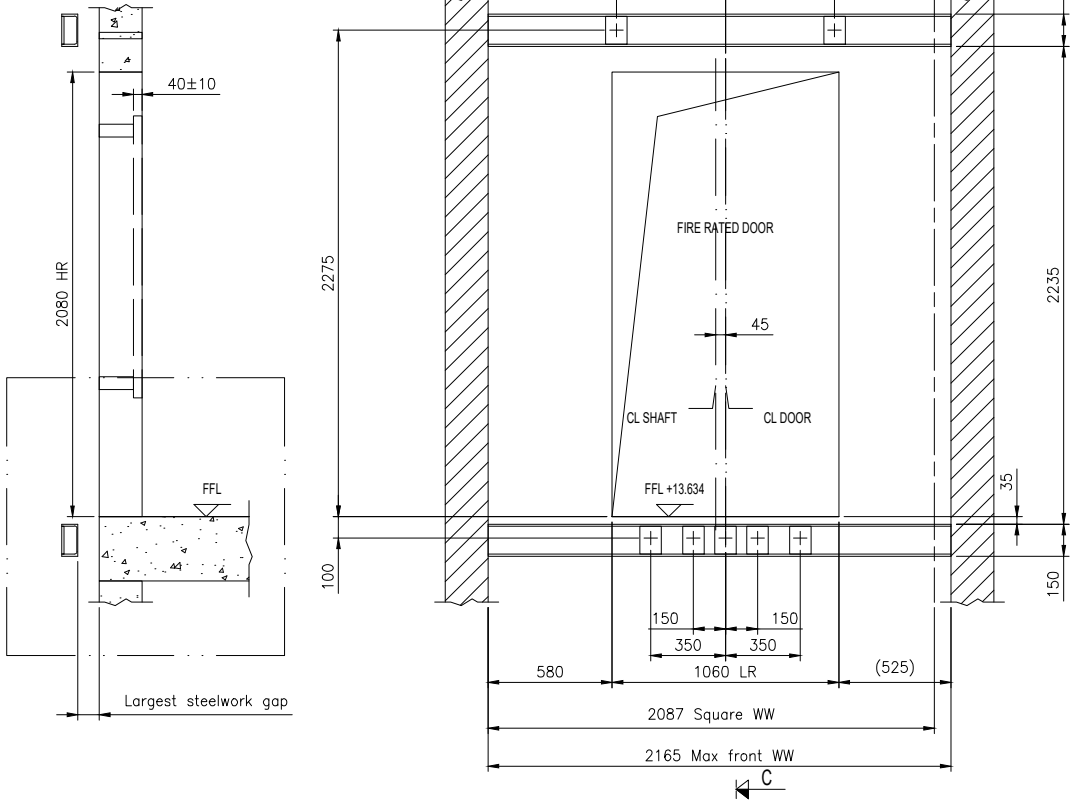
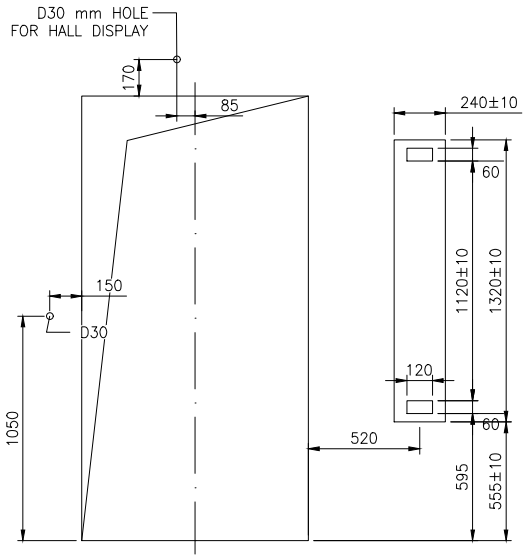
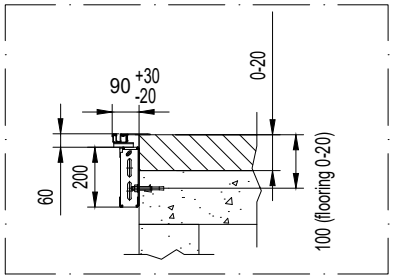


STRUCTURAL OPENING
VIEW FROM SHAFT
FLOOR MARK: 4; Side A

Scale 1:25



STRUCTURAL OPENING
VIEW FROM LANDING
FLOOR MARK: 4; Side A



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KONE

KONE plc
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Warrington
WA3 7QN
01536 662841

Project name: Neptune Mill
Site address: 64 Chapeltown Street, Manchester, M1 2WQ
Drawing title: LAYOUT FOR BUILDER
Equipment number(s): 45426304; 72702678

FL ref. number	Drg no	Issue	Page
343340595	45426304-010-B-3-3	C	6 (6)
	Cust no: –		

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TECHINICAL SPECIFICATION FOR ELEVATOR		45426304 - Lift-1
Safety code	:	EN81-20:2020+EN81-21:2022+EN81-70:2021+A1:2022+EN81-73:2020
KONE product type	:	PW15/10-19
Rated load	:	1150 kg
Number of persons	:	15
Rated speed	:	1.00 m/s
Acceleration/deceleration rate	:	0.5 m/s2
Travel	:	13634 mm
Number of stops/landing doors	:	5 / 5
Car entrances	:	1
Door type	:	KES602/Narrow/1C
Door width	:	900 mm
Door height	:	2000 mm
Car type	:	HERMES
Car internal height	:	2100 mm
Car internal width	:	1500 mm
Car internal depth	:	1700 mm
Car area	:	2.55 m2
Car sling	:	ICSUS
Number of guide bracket rings (required + additional ordered)	:	9 + 0
Car guide rails	:	T89/B
Car Safety Gear	:	CSGB01
Car buffers	:	PU125x80D
Counterweight sling	:	FCWT2
Cwt Safety Gear	:	None
Counterweight guide rails	:	T70-1/A
Counterweight buffers	:	PU125x80D
Drive system	:	KDL16S
Control system	:	KCE / FC
Machine	:	NMX11
Traction sheave diameter	:	420 mm
Undercut angle	:	105°
Roping arrangement	:	2:1
Suspension ropes (no x D)	:	6xD8
Overspeed governor, overspeed governor rope	:	OL35, d6
ELECTRICAL REQUIREMENTS		
Main supply voltage	:	3x400VAC -15%/+10%
Frequency	:	50 Hz ±1 Hz
Riser fuses	:	3x20 A
Riser fuses for separate lighting	:	-
Nominal line current, In	:	19 A
Max. RMS acceleration line current, Ia	:	23 A
Main fuses	:	3x16 A
Lighting fuses (shaft + car)	:	10 A + 6 A
Max. short circuit current, mains supply	:	6 kA
Max. short circuit current, lighting supply	:	6 kA
Thermal losses in machine room	:	0.599 kW
Motor output power at nominal load, P	:	6.7 kW
Motor RPM at full speed	:	90.9 rpm
Maximum start/hour, s/h	:	180/ED40%
WEIGHTS		
Car weight [K] incl. local decoration	:	604 kg
Local decoration	:	50 kg
Car door (F)	:	85 kg
Extra weights	:	49 kg
Car sling (T)	:	188 kg
Balancing weights	:	-
KQT (incl. door(s))	:	1985 kg
KQT (min./max.)	:	1980 / 2220 kg
CWT frame	:	71 kg
CWT fillers	:	1227 kg
Total CWT	:	1298 kg
CAR BALANCING FACTOR	:	40%
CAR BALANCING LOAD	:	460±12.5 kg

Notes for builders work - All by others than KONE.

Headroom

The existing machine room door needs to be permanently sealed.
The space above the existing machine room floor to be sealed accordingly once kone adapt for lifting beams.

Structural openings

All structural openings to be modified with new lintels and modified masonry as per kone drawings.
The kone landing door fire certificate is not valid due to the inclusion of landing door steelwork.
Fire stopping to be provided to all entrances, kone can give access.
All landing reveal detail to be provided & installed once kone landing door frames are fitted.

Shaft walls

As per instruction from client, the lift doors have been set out with front RH wall at existing 630mm nominal.
The square nominal WW is exceeded at the front of the lift shaft. The lift setout has been configured to give the best outcome.
However it may be necessary to chase out the LH side wall at the front of the lift shaft for the lift doors to pass & open.
In particular this may be required at the upper floors.

Pit

The existing pit floor must be level & free from obstructions.
The existing pit floor must be able to withstand the imposed loads for the new lift shown on drawing B-1-1. To be confirmed by builders structural engineer.
The existing pit is classed as low pit & additional safety devices are provided.
However a permanent manspace cube needs to be maintained at all times underneath the lift when it is in overtravel.
To acheive this kone require 900mm PH pit which is more than existing at the 865mm measured.
This could be acheived with a combination of making the surrounding floor more level as it slopes down to the lift entrance,
in addition the bottom floor entrance can be ramped.
Please note structural opening height 2080mm HR at bottom floor will be 900 + 2080 = 2980mm above pit floor.
If it is found that existing pit floor is not suitable for new loads imposed & needs to be replaced with new concrete
it is suggested that the pit is made 1050mm PH deep to avoid the use of additional low pit safety devices.
All details need to be confirmed by builder before the lift is put on order.

Landings

All holes for landing signalisation & MAP panel at top floor to be provided.
Once KONE install team onsite they can assist in setting out.

Notes for KONE & sub contractors subsequent to variation order.

Lifting beams

KONE sub contractor to adapt existing beams to create neccessary lifting points for new lift.
Lifting beams can only be positioned once landing door steelwork is installed plumb in the lift shaft.
3400mm SH existing headroom to be maintained for new lift, use foldable eyes & adapt existing steelwork accordingly.

Landing door steelwork

KONE sub contractor to provide landing door sill & header steelwork installed plumb up the lift shaft plus side posts for fire trims.
Due to the skewed & out of plumb nature of existing lift shaft the datum
is a plumb line at the front RH corner of the pit.

Guide rail brackets

KONE to adapt all guide brackets to be fitted to skewed side walls.
Only 1 set of brackets can be ordered for the lift to the nominal dimensions.
Some brackets require to be extended, in particular the rear CWT bracket.

Layout approved with/without comments:

Date: Signature/stamp:

Version	Date	Description	Designed by	Approved by
en.B.1	2024-05-02	Door position change 630mm front RH wall.	Craig Jones	
en.A.1	2024-04-24	RH Machine, door position, 3400mm SH & LPT.	Craig Jones	
en.-.1	2023-12-15	First issue	John Fitzsimmons	

KONE plc
922 Birchwood Blvd, Birchwood,
Warrington

WA3 7QN
01535 662841

Project name: Neptune Mill
Site address: 64 Chapeltown Street, Manchester, M1 2WQ
Drawing title: GENERAL DRAWING
Equipment number(s): 45426304; 72702678

FL ref. number	Drg no		Issue	Page
343340595	Cust no	45426304-010-G-1-1 / -	B	1 (2)

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ELECTRICAL REQUIREMENTS SCHEDULE

With regard to the electrical supplies at the above site, we confirm our requirements to be supplied by others as follows:-

A separate supply is required for each lift being installed.
The electricity supply to the lift(s) shall be from a segregated 4 wire and earth cable connected to the main low voltage supply distribution panel for the building.

The supply should be suitably protected by fuses or circuit breakers.
The electricity supply cable shall be terminated in suitably rated 3 phase + N + E (5 pin) IP67 rated watertight switched socket outlet, interlocked flange entry. This socket is attached to the side wall of the lift well either 1000mm above the top finished floor level and 400mm from the front wall on the opposite side from the lift control panel or 1000mm above the finished floor level on the floor below the top floor and 400mm from the front wall on the same side as the controller (refer to KONE arrangement drawings for position). Socket is to be supplied with a suitably rated, compatible, plug as below. Termination of the incoming mains cable to the socket outlet must include an external earth termination lug for the connection of a permanent earth continuity cable from the lift.

The lift installation is comprised of the following lifts:-

Lift Referance	Capacity (kg)	Speed (m/s)	Socket Rating (A) (See Below)	Full Load Line Current (A)	Acceleration Line Current (A)
45426304 - Lift-1	1150	1.0	32	19	23

Socket & Plug requirements:

32A rating - type Mennekes 32A Socket Switched Interlocked Red IP 67 (5608AA) and Plug 3853.

The electricity supply cable shall be sized to conform with the latest version of BS7671 IEE Wiring Regulations. The maximum rated current of the cable shall be determined from the electrical load imposed on it by the lift installation performing at its maximum passenger transportation capacity (see also note on single phase supply).

The Root Mean Square (RMS) value of the supply voltage shall be within the statutory limits of 400 volts +10% -6% at a frequency of 50Hz +-0.50 Hz at all times including the time duration of the installation and commissioning of the lift equipment.

Where an alternative supply of electricity, such as an Emergency Power Generator is required to run the lift(s), then the source of supply shall be compatible with the load characteristics of the lift installation for all characteristics of the lift installation whilst it is connected to that supply. Unless otherwise agreed in writing with KONE, the electricity supply shall allow for the lifts to operate at their rated performance and shall not reduce the reliability or life time of any of the components of the lift due to characteristics of the electricity supply.

As this supply is required for our installation work, the live service MUST be available for day one of our site installation start date and must also be available for our final site inspection two weeks prior to the agreed commencement date.

The supply must not include RCD / ELCB devices in permanent situations. The supply must be dedicated.

Single Phase Power and Lighting Supply

KONE will normally supply all necessary lift well lighting and socket outlets protected by 30mA RCD as an integrated part of our package (refer to KONE tender for details).

If a separate single phase supply is required for this purpose there will be an additional cost to run that supply in accordance with BS7671 IEE Wiring Regulations to the KONE equipment.

Lift Well Temperature

For the best lift operation and in the interests of safety, the lift well ambient temperature should be maintained by natural or artificial means at a temperature between +5 degrees Celsius and +40 degrees Celsius; under no circumstances must the lift well temperature be allowed to extend outside this range.
The heat outputs from each individual lift is 0.599kW at rated duty.

During installation a 110v AC temporary supply is required in the lift well, at not greater than 6.0 metre intervals, to provide lighting and socket outlets for power tools.

EN81-73: Behaviour of Passenger and Goods Passenger Lifts in the Event of Fire

All Passenger and Goods Passenger non-Firefighting lifts must be compliant with EN81-73. To comply with this harmonized European Standard KONE require a commend signal from the Building Management System (BMS) to trigger the option. If the lifts are within residential buildings and there is no BMS then an independent signal is required via either a smoke head on the top floor landing served or at the top of the lift well. A means of re-setting the signal (a potentially free normal closed contact) will also be required ideally to be located adjacent to the lift entrance at the main level served.

KONE KRM Passenger Alarm Telephone link

KRM is provided with GSM connection. Alternatively, installation and connection of a BT compatible telephone line must be completed prior to our start on site. The telephone line is to be terminated inside the lift well, adjacent to the power supply termination and must be marked with the telephone number to enable the KRM Auto Dialler to be initialised. The telephone line must be direct and be analogue not digital.
Please note that failure to provide this item will disqualify the lift from displaying the 'CE' mark and postpone commissioning until rectified.

Firefighting or Evacuation lifts - if applicable

The lift designated as a firefighting lift shall have a sub-mains circuit which is exclusive to that lift independent of other main or sub-circuits. This supply shall comprise of a primary and secondary supply terminated in one IP67 rated watertight and switched socket outlet. Supply cables to be routed in enclosure with a level of fire protection that is at least equal to that of the lift well (cables may be routed within the lift well). Changeover from primary to secondary supply shall be fully automatic following failure of primary supply.

The secondary supply shall be fed from either a separate sub-station to that of the primary supply or a back-up generator with a minimum capacity of 3 hours.

The secondary power supply mentioned above must be capable of:-

1. Maintaining the firefighting lift in full operation.
2. Maintaining essential lighting within the lift car, at the Fire Service Access Level (FSAL) and at all lift landing lobbies.
3. When the firefighting lift is part of an interconnected group of lifts, power from the secondary supply must be sufficient to enable the lifts to return to the FSAL, sequentially if necessary, to enable passengers in the cars to escape.

For more detailed information we recommend reference to BS9999 and EN81-72.

BUILDER REQUIREMENTS

VENTILATION
AMBIENT TEMPERATURE: +5 TO +40°C.
HUMIDITY: 95% MAXIMUM (AT +40°C).

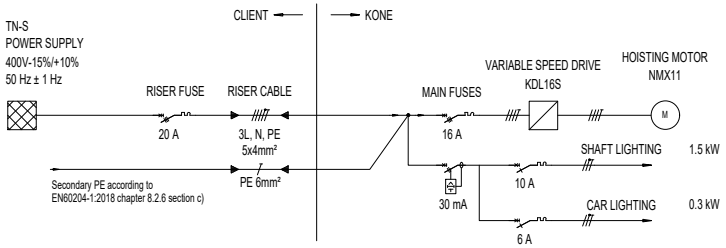
REQUIREMENTS FOR SHAFT CONSTRUCTION
HEALTH & SAFETY NOTE; WHEN LIFT FIXINGS ARE TO BE DRILLED INTO LIFTWELL WALLS THE SILICA CONTENT OF THE WALL CONSTRUCTION MUST NOT EXCEED 10%.
MINIMUM WALL THICKNESS 150mm.

IF LIGHTING NOT BY KONE THEN ACCORDING TO LOCAL REQUIREMENTS (MINIMUM ILLUMINATION IN WELL 50 lux).

THE FIVE SITE ABSOLUTES

1. The elevator shaft is clean and dry before installation work starts.
2. The shaft is constructed according to KONE layout drawings and the shaft openings are sealed for safety.
3. The lifting eyes and the ventilation ducts specified by KONE are in place.
4. 3-phase power supply for elevator and installation hoisting is provided.
5. A 30 mq. storage space is provided on the ground floor close to the shaft and the access ways to the shaft are clear.

ELECTRICAL SCHEMATIC

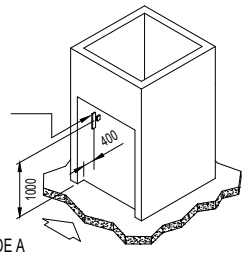


MAIN POWER CABLES TO BE CONNECTED BY ELECTRICIAN INSTALLER

Riser cable cross sectional area and maximum length is given based on assumptions of installation conditions.
- Given values are based on;
  - use of indicated riser cable over current protective device type and nominal operation current.
  - IEC 60364 with installation method A2.
  - maximum 3% voltage drop in riser cable with elevator acceleration peak current.

Larger riser cable cross sectional area may be required if actual installation conditions differentiates from assumed installation conditions.
Selectivity between riser fuse and lift main fuse can't be ensured in all conditions with given values. Riser fuse with higher nominal current may be required to ensure selectivity between riser fuse and lift main fuse. In this case larger cross sectional area of riser cable may also be required.
Fault loop impedance shall be verified to be low enough at lift main terminals to ensure effectiveness of means for protection with automatic disconnection of supply in case of earth fault. "Customer" shall verify electrical installation and prove effectiveness of electric shock protection means up to elevator mains terminals.

INCOMING 3PH. SUPPLY
ANALOGUE PHONE LINE
WITHIN LIFT SHAFT.



Layout approved with/without comments:

Date: Signature/stamp:

Version	Date	Description	Designed by	Approved by
en.B.1	2024-05-02	Door position change 630mm front RH wall	Craig Jones	
en.A.1	2024-04-24	RH Machine, door position, 3400mm SH & DP	Craig Jones	
en.-.1	2023-12-15	First issue	John Fitzsimmons	

KONE plc
922 Birchwood Blvd, Birchwood,
Warrington
WA3 7QN
01536 662841

Project name: Neptune Mill
Site address: 64 Chapeltown Street, Manchester, M1 2WQ
Drawing title: GENERAL DRAWING
Equipment number(s): 45426304; 72702678

FL ref. number	Drg no	Issue	Page
343340595	45426304-010-G-1-2	B	2 (2)
	Cust no: –		

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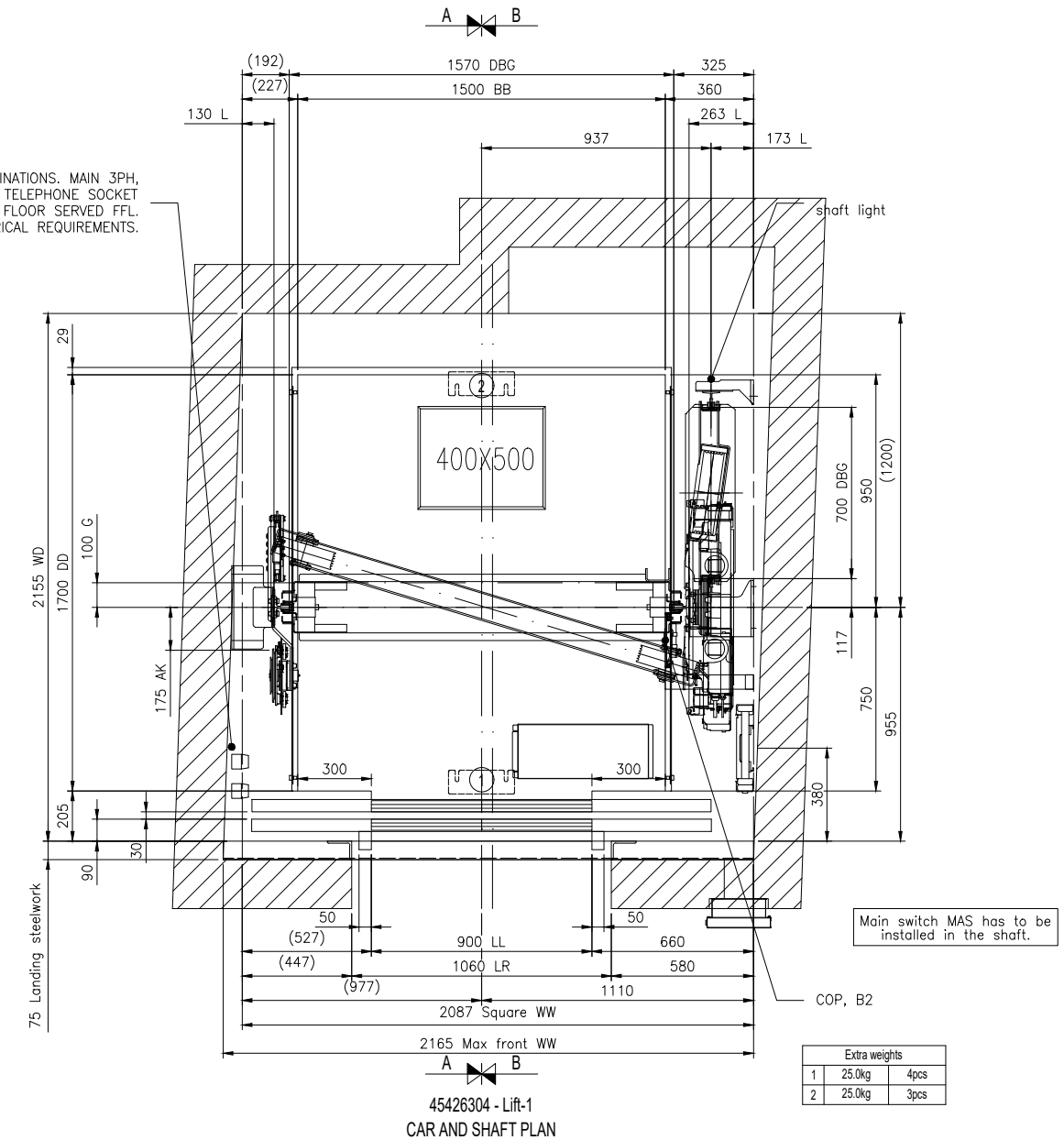

Extra weights		
1	25.0kg	4pcs
2	25.0kg	3pcs

45426304 - Lift-1
CAR AND SHAFT PLAN
Scale 1:20

KEY TO ABBREVIATIONS (ANY ABBREVIATIONS NOT SHOWN ARE FOR KONE INTERNAL USE ONLY):

CH = CLEAR INTERNAL CAR HEIGHT
DD = CLEAR INSIDE CAR DEPTH
BB = CLEAR INSIDE CAR WIDTH
HH = CLEAR OPENING HEIGHT
HR = STRUCTURAL OPENING HEIGHT
LL = CLEAR OPENING WIDTH
LR = STRUCTURAL OPENING WIDTH
PH = CLEAR PIT DEPTH
SH = CLEAR HEADROOM
WD = CLEAR PLUMB WELL DEPTH
WW = CLEAR PLUMB WELL WIDTH

MAIN TECHNICAL SPECIFICATION				
FOR ELEVATOR(S):	45426304 - Lift-1			
Safety regulations	EN81-20			
KONE product type	PW15/10-19			
Load type	Passenger			
Rated load	1150 kg			
Number of persons	15			
Rated speed	1 m/s			
No.of stops/landing doors	5/5			
Travel	13634 mm			

Layout approved with/without comments:

Date: Signature/stamp:

Version	Date	Description	Designed by	Approved by
en.C.1	2024-05-03	Door position change to 580mm front RH wall	Craig Jones	
en.B.1	2024-05-02	Door position change 630mm front RH wall	Craig Jones	
en.A.1	2024-04-24	RH Machine, door position, 3400mm SH & CH	Craig Jones	
en.-.1	2023-12-15	First issue	John Fitzsimmons	

EN81-20 CLAUSE FOR SAFE WORKING SPACES NOTES:
5.2.6.6.4 requires working areas in accordance with 5.2.6.3.2.1 in front of emergency & test panels (MAP).
In particular there shall be provided at least a clear height of 2,10 m at working areas, and:
a) a clear horizontal area in front of the control panels and cabinets. This area is defined as follows:
1) depth, measured from the external surface of the enclosures, at least 0,70 m;
2) width, the greater of the following values: 0,50 m or the full width of the cabinet or panel;
b) a clear horizontal area of at least 0,50 m x 0,60 m for maintenance and inspection of moving parts at points where this is necessary and, if need be, manual emergency operation (5.9.2.3.1).

IMPORTANT:-
Builder notes plus KONE & sub contractor notes are itemised on drawing G-1-1.

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Warrington
WA3 7QN
01535 662841

Project name: Neptune Mill
Site address: 64 Chapeltown Street, Manchester, M1 2WQ
Drawing title: INSTALLATION LAYOUT – PLANS
Equipment number(s): 45426304; 72702678

FL ref. number	Drg no		Issue	Page
343340595	45426304-010-I-1-1		C	1 (5)
	Cust no	–		

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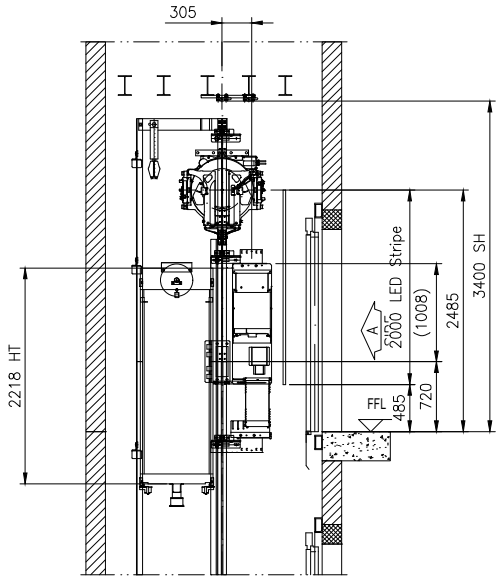
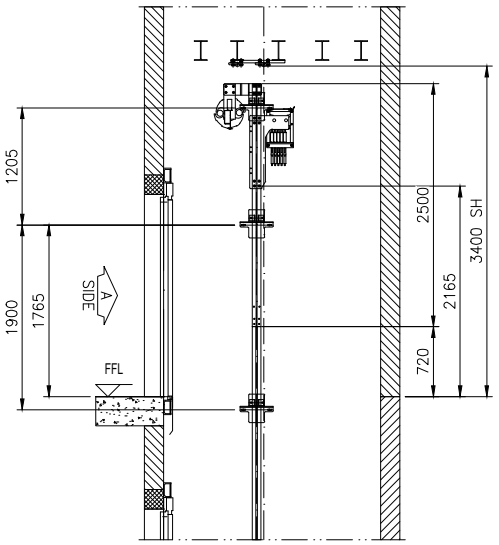
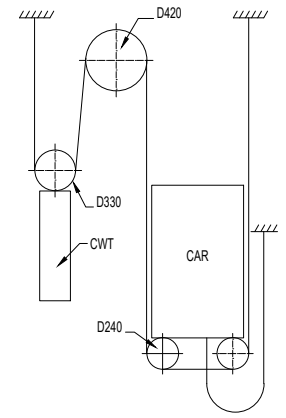


45426304 - Lift-1
SECTION A-A

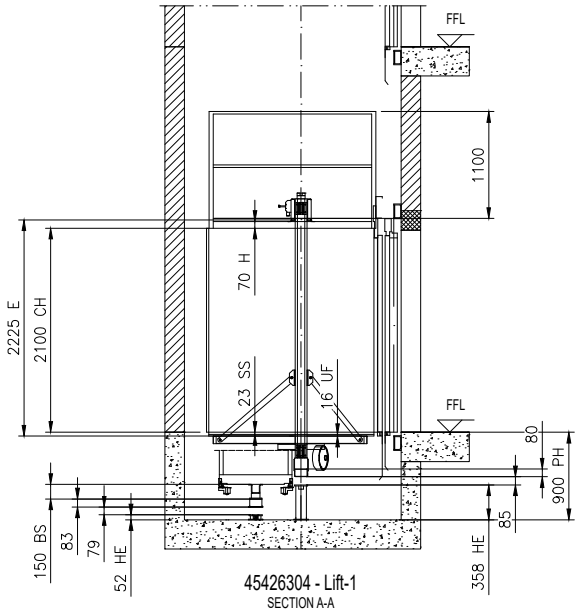


45426304 - Lift-1
SECTION B-B

NOTE FOR INSTALLATION PHASE
CAR BALANCING FACTOR: 460±12.5 kg/40%

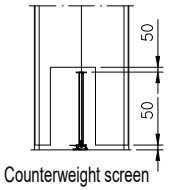


ROPING CSW : 2:1



45426304 - Lift-1
SECTION A-A
Scale 1:55

IMPORTANT:-
Builder notes plus KONE & sub contractor notes are itemised on drawing G-1-1.



Counterweight screen

Layout approved with/without comments:

Date: Signature/stamp:

Version	Date	Description	Designed by	Approved by
en.B.1	2024-05-02	Door position change 630mm front RH wall	Craig Jones	
en.A.1	2024-04-24	RH Machine, door position, 3400mm SH & CWT	Craig Jones	
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KONE plc
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Project name: Neptune Mill
Site address: 64 Chapeltown Street, Manchester, M1 2WQ
Drawing title: INSTALLATION LAYOUT – PLANS
Equipment number(s): 45426304; 72702678

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343340595	45426304-010-I-1-2	B	2 (5)
	Cust no: –		

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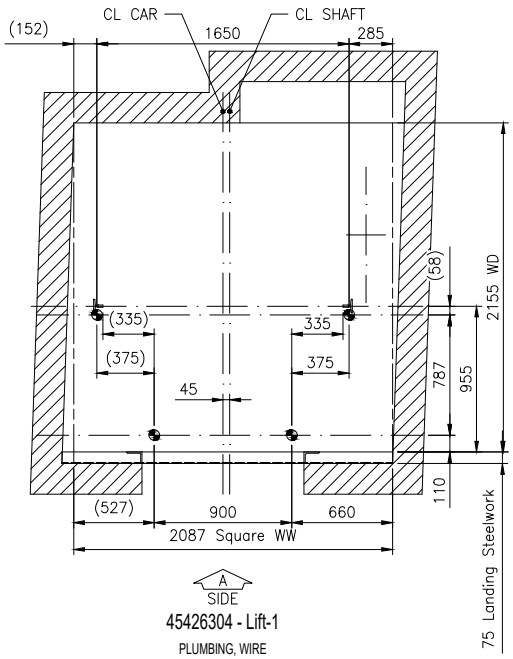
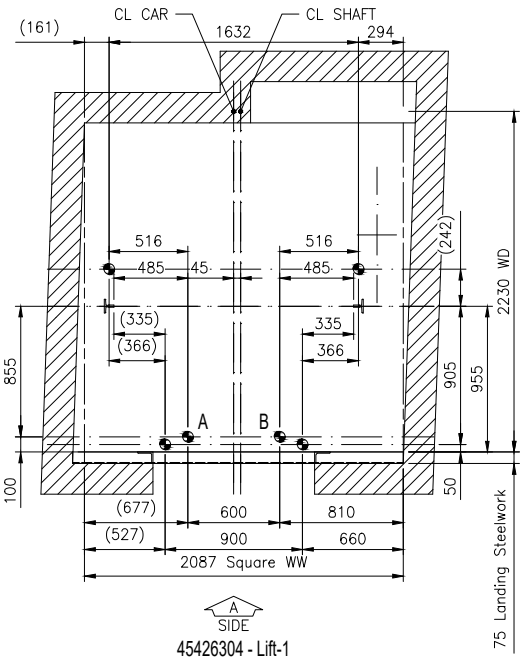


A SIDE

45426304 - Lift-1

PLUMBING, WIRE

Scale 1:35



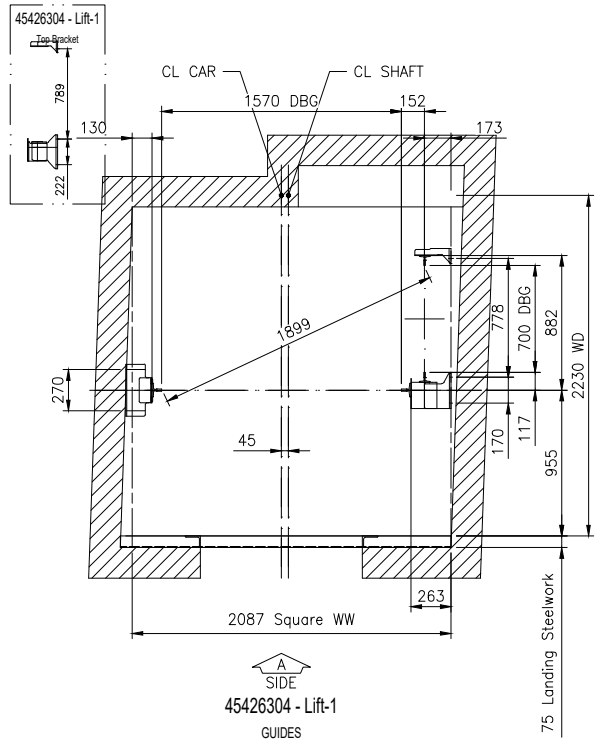
A SIDE

45426304 - Lift-1

PLUMBING, LASER

Scale 1:35

A. and B. to be considered only in case of pit template



A SIDE

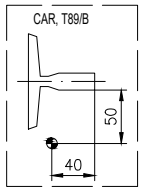
45426304 - Lift-1

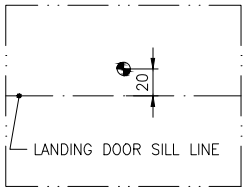
GUIDES

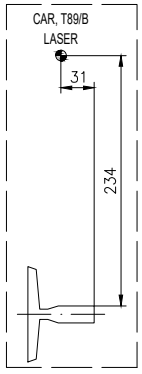
Scale 1:35

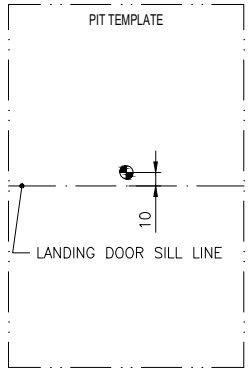
IMPORTANT:-
Builder notes plus KONE & sub contractor notes are itemised on drawing G-1-1.

NOTE: Ladder needs to be supplied locally to access car roof from car inside after car installation Refer to platform AM.









NOTES FOR ENGINEER:	
LIFT	45426304 - Lift-1
KQT (min/max), kg	1980/2220
MK Socket rating, A	32
Fmax, kg	1987

Version	Date	Description	Designed by	Approved by
en.C.1	2024-05-03	Door position change to 580mm front RH wall	Craig Jones	
en.B.1	2024-05-02	Door position change 630mm front RH wall	Craig Jones	
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en.-.1	2023-12-15	First issue	John Fitzsimmons	

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Project name: Neptune Mill
Site address: 64 Chapeltown Street, Manchester, M1 2WQ
Drawing title: GUIDE RAIL SET-OUT AND PLUMBING
Equipment number(s): 45426304; 72702678

FL ref. number	Drg no	Issue	Page
343340595	45426304-010-I-2-1	C	3 (5)
	Cust no: –		

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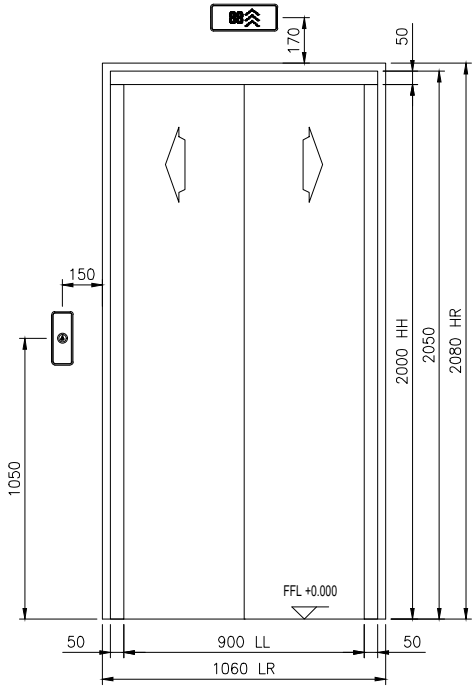
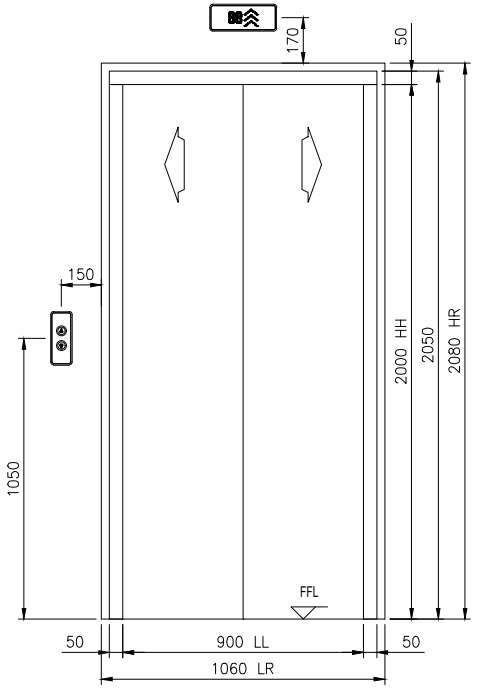
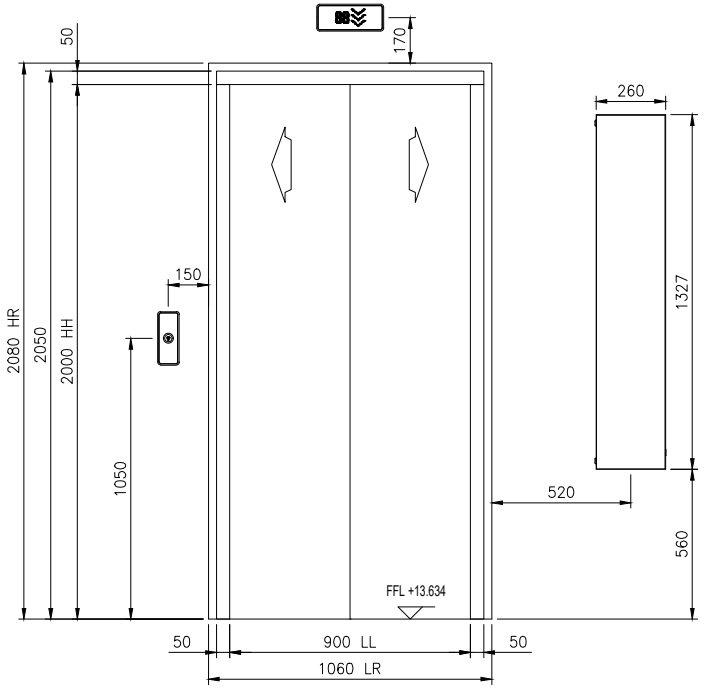


ENTRANCE
FLOOR MARK: 0; Side A
Scale 1:20



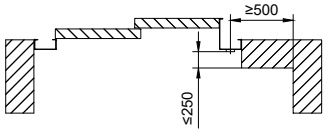
ENTRANCE
FLOOR MARK: 1-3; Side A
Scale 1:20



ENTRANCE
FLOOR MARK: 4; Side A
Scale 1:20

Main switch MAS has to be installed in the shaft.

EN81-70:2018 Clause 5.4.2.1 - Table 5:
-Minimum lateral distance between the centreline of any button to the corner of any adjacent walls, shall be more than 500mm (Preferably 700mm).
-The depth of any recess where the button may be located, shall be limited to 250mm.



IMPORTANT:-
Builder notes plus KONE & sub contractor notes are itemised on drawing G-1-1.

Layout approved with/without comments:

Date: Signature/stamp:

Version	Date	Description	Designed by	Approved by
en.C.1	2024-05-03	Door position change to 580mm front RH wall.	Craig Jones	
en.B.1	2024-05-02	Door position change 630mm front RH wall.	Craig Jones	
en.A.1	2024-04-24	RH Machine, door position, 3400mm SH & LPT.	Craig Jones	
en.-.1	2023-12-15	First issue	John Fitzsimmons	

KONE plc
922 Birchwood Blvd, Birchwood,
Warrington
WA3 7QN
01536 662841

Project name: Neptune Mill
Site address: 64 Chapeltown Street, Manchester, M1 2WQ
Drawing title: INSTALLATION LAYOUT – ENTRANCES
Equipment number(s): 45426304; 72702678

FL ref. number	Drg no	Issue	Page
343340595	45426304-010-I-3-1	C	4 (5)
	Cust no: –		

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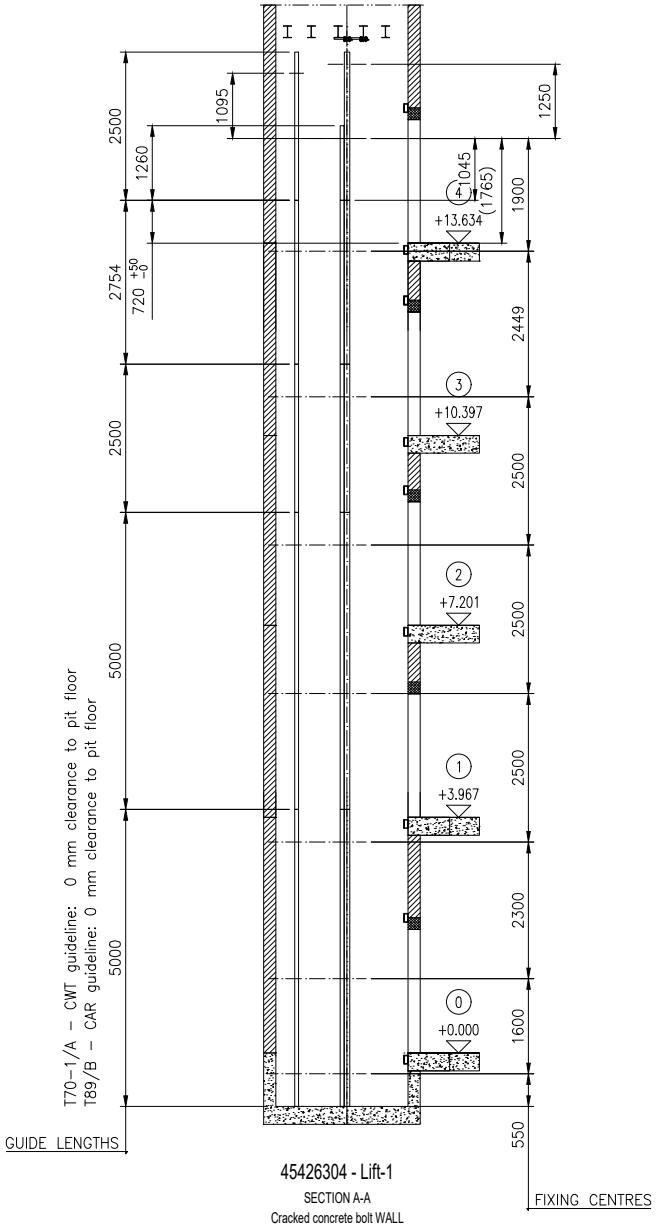


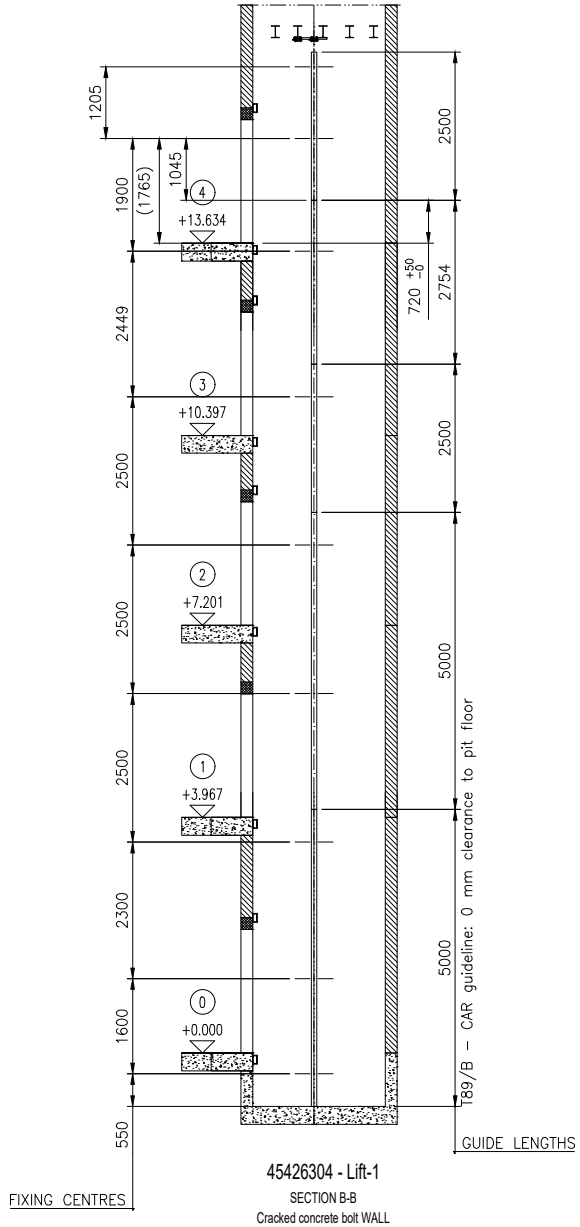
45426304 - Lift-1

SECTION A-A

Cracked concrete bolt WALL

GUIDE RAIL SPACING

Scale 1:90



45426304 - Lift-1

SECTION B-B

Cracked concrete bolt WALL

GUIDE RAIL SPACING

Scale 1:90

IMPORTANT:-
Builder notes plus KONE & sub contractor notes are itemised on drawing G-1-1.

Layout approved with/without comments:

Date: Signature/stamp:

Version	Date	Description	Designed by	Approved by
en.B.1	2024−05−02	Door position change 630mm front RH wall	Craig Jones	
en.A.1	2024−04−24	RH Machine, door position, 3400mm SH & CPD	Craig Jones	
en.−.1	2023−12−15	First issue	John Fitzsimmons	

KONE plc
922 Birchwood Blvd, Birchwood,
Warrington
WA3 7QN
01535 662841

Project name	Neptune Mill
Site address	64 Chapeltown Street, Manchester, M1 2WQ
Drawing title	INSTALLATION LAYOUT
Equipment number(s)	45426304; 72702678

FL ref. number	Drg no		Issue	Page
343340595	45426304−010−I−4−1		B	5 (5)
	Cust no	–		

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