Requirements of Civil Engineering and elevator usage environment

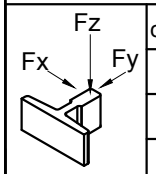
1. Power supply should be 3-phase 5-wire 208VAC 60Hz, the permissible voltage fluctuation is 7%. Lighting power should be single phase 110V 60Hz .
2. The neutral wire and ground wire should be always separated from each other; ground wire adopts TN-S type, the cross sectional area of ground wire should be no less than that of power line.
3. Each elevator shall be provided with separate power control switch. Power supply and lighting supply shall be located separately on the wall where should be 2m high above top floor ground. If several elevators use the same Power Box, main power switches for each elevator should be easily identified.
4. Environmental requirement for traction and its control systems-The environmental temperature near top floor should be maintained between 5°C and 40°C, relative humidity to be maintained at 90% (Temperature at 25 °C).
5. Fixed lighting should be provided on the top floor with a switch to control the lighting.Permanent lighting shall be provided near the controller, the lighting illumination for the controller should be at least 200LX.
6. The shaft shall be well ventilated, ventilation holes shall be provided on the shaft top, which area is not less than 1% of the horizontal section of the shaft.
7. The shaft wall, pit ground and ceiling should stand enough mechanical strength. Durable, incombustible and dust-proof material should be adopted for manufacturing. If there's not embedded structure, concrete strength at guide rail bracket, landing door sill and fixing point of landing door devices should be no less than 250kg/cm².
8. Elevator well could not be used with other irrelevant devices.
9. Horizontal sectional dimension of elevator well is the minimum clear dimension measured by plumb, allowable deviation is as follows:
   0~+25mm Shaft Height ≤30m
   0~+35mm Shaft Height ≤60m
   0~+50mm Shaft Height >60m
   Shaft wall near door side: 0 -- +20mm
10. Well shall be provided with permanent lighting device. This lighting shall comprise one lamp at most 0.5 m from the highest and lowest points in the well with intermediate lamps at 7 m, maximum spacing.It should be guaranteed that when all the doors are closed, the intensity of illumination at the positions of 1m from the car top and pit is no less than 50Lx. A steel wire protective cover should be provided for every lamp.
11. Pit floor should be flat and damp-proof course should be adopted. Stagnant water and leakage are not permitted.
12. The intensity of illumination on the ground near landing door should be no less than 50Lx.
13. If accessible spaces do exist below the car, the counterweight or the balancing weight, the base of the pit shall be designed for an imposed load of at least 5000 N/m², and:
    a) either there shall be installed below the counterweight buffer or under the travelling area of the balancing weight, a solid pier extending down to solid ground, or
    b) the counterweight or the balancing weight shall be equipped with safety gear.
    note Lift wells should preferably not be situated above a space accessible to persons.

LIFT NO.	14# EXTERIOR ORIENTAL
TYPE	CHOI-MRL
CAPACITY	900kg
CAR GROUP	Simplex
OPERATION TYPE	Full collective selective control
DRIVE TYPE	VVVF
DOOR OPEN TYPE	2 panel side opening
FLOORS/STOPS/DOORS	2 / 2 / 2
TOTAL SHAFT HEIGHT	11970mm
TRAVELING HEIGHT	6370mm
OVERHEAD	4200mm
PIT DEPTH	1400mm
CAR SIZE	1500(W) x 1400(D) x 2400(H)
ENTRANCE SIZE	1100(W) x 2100(H)
VOLTAGE	3 phase 5-wire 208vac ±7%
FREQUENCY	60Hz
POWER CAPACITY	9 KVA
SPEED	1.0m/s
DOOR OPERATOR	OULING
FIRE PROOFING	None

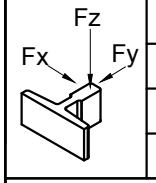
Note:
1.The general requirement is an integral part of purchase contract and civil engineering drawing, which must be strictly abided by. For other things unsettled, please refer to the relevant provisions of EN81-20.
2.If the well is not built in conformity with the civil engineering technical conditions and drawing, the user shall be responsible for its changes and the expenses arising therefrom.
3.Should the dimension of the shaft need to be changed, please notify our technology department in writing timely, the changes can only be made with written approval.

THE SHAFT STRUCTURE :

1. STEEL STRUCTURE



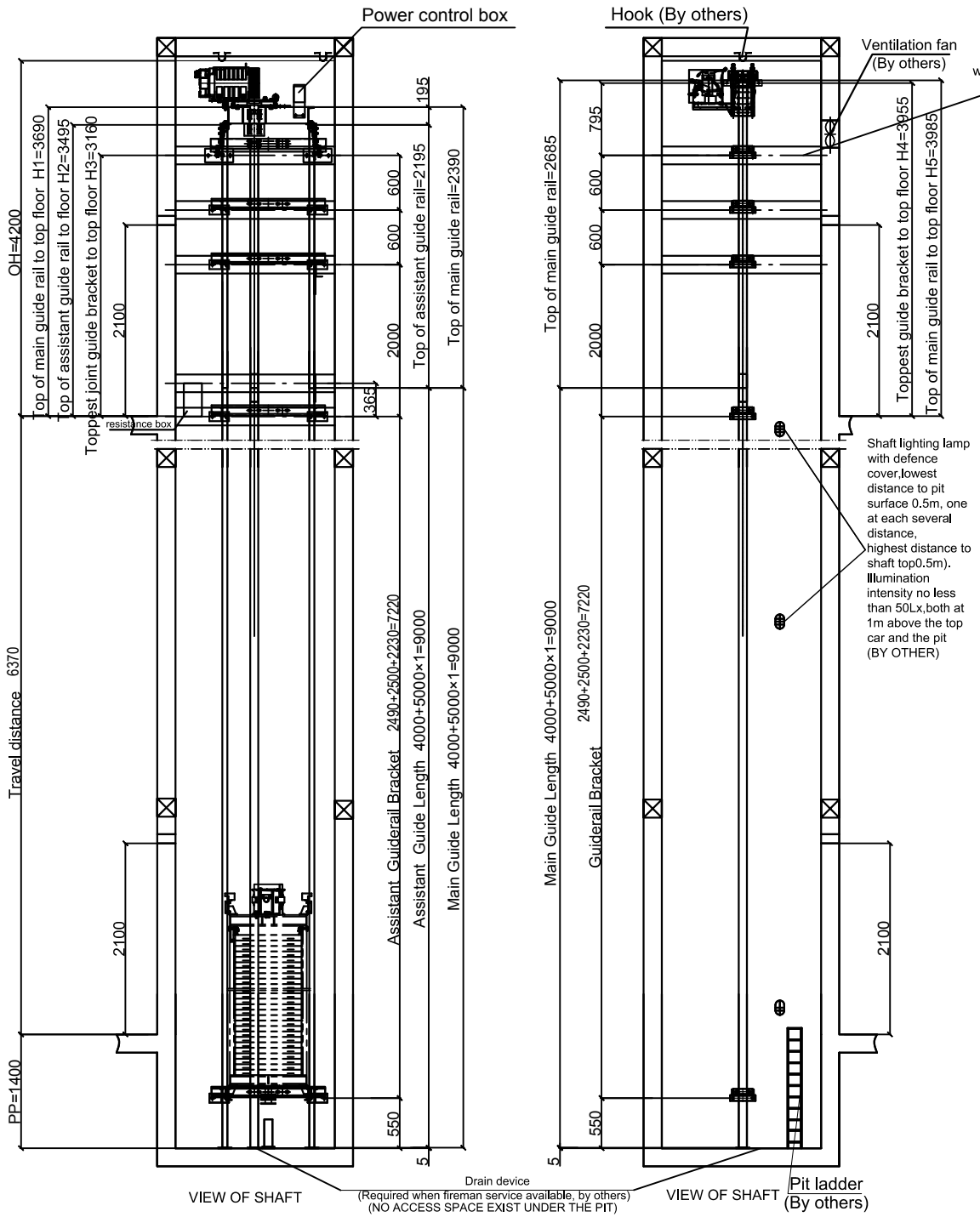
counterweight guide	
Fx	135N
Fy	534N
Fz	18206N

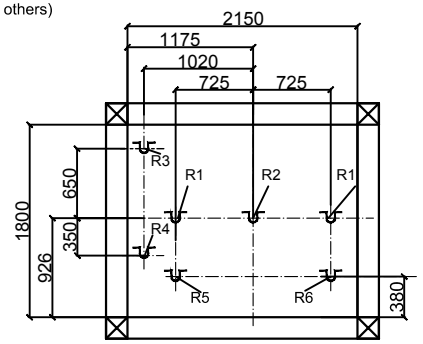


car guide	
Fx	802N
Fy	1664N
Fz	42564N

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Drn'By	Apr'By
Chk'By	Data 2025-04-29
Project	AYURA
Title	CO-23067(REV12) NS14# EXT ORIENTAL
Unit millimeter	Sheet 1 of 4





TOP FLOOR HOOK LAYOUT VIEW

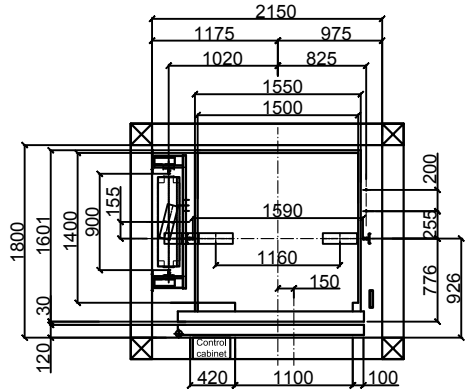
Note:

2	4200	2
1	6305	1
FLOOR	HEIGHT	STOP

Hook (by others, with load mark)	
R1: 2000Kg	R3: 2000Kg
R2: 3000Kg	R4: 2000Kg
R5: 1000Kg	R6: 1000Kg

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Project AYURA	
Title CO-23067(REV12) NS14# EXT ORIENTAL	
Unit millimeter	Sheet 2 of 4

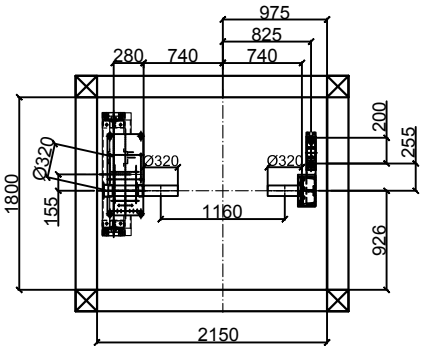


SHAFT LAYOUT VIEW

Control cabinet — Top floor control cabinet size:350×200×1800 hole 420 other floor 100

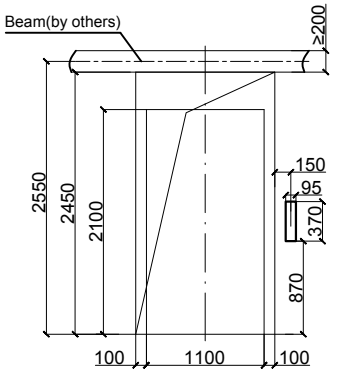
Separated motor supply and lighting supply(inside the shaft)should be 2m above top floor of hall door (By other)

Traveling cable

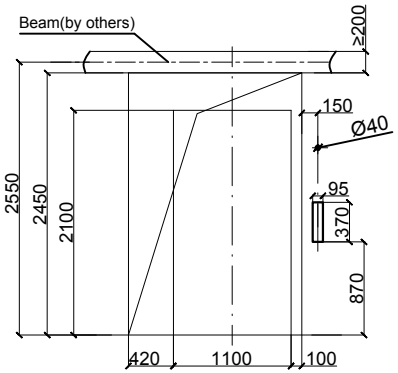


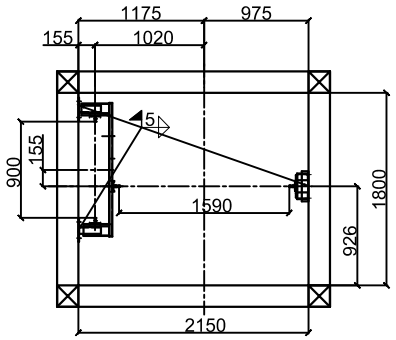
TOP FLOOR MACHINE LAYOUT VIEW

VIEW OF PRE-HOLE WHEN FIRE SERVICE REQUIRED (BASE FLOOR)

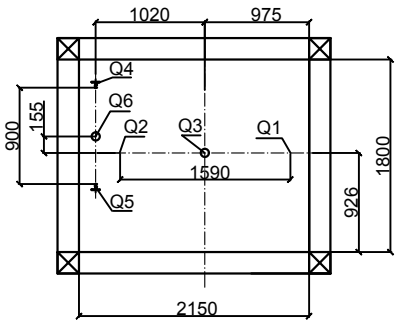


VIEW OF OVERHEAD PRE-HOLE (INCLUDE CONTROLLER INSTALLATION)





INSTALLATION VIEW OF GUIDE RAIL BRACKET(FOR CONCRETE SHAFT)



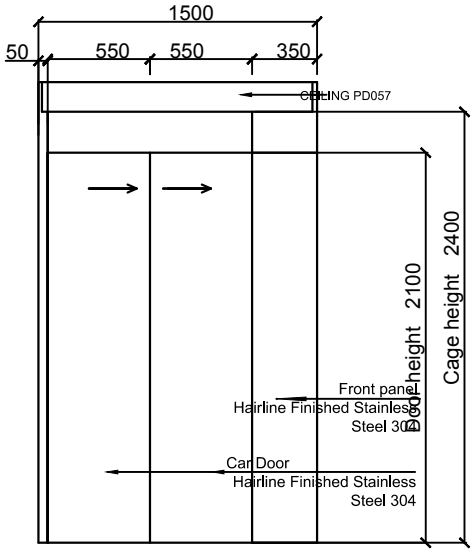
PIT VIEW

Note:

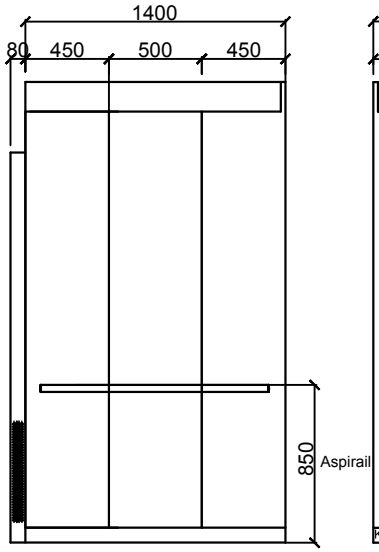
Support Force	
Q1: 75000N	Q2: 95000N
Q3: 90000N	Q4: 45000N
Q5: 45000N	Q6: 70000N

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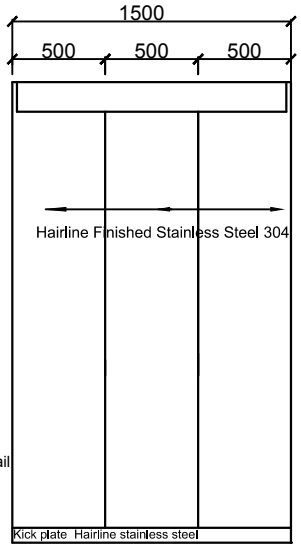
Drn'By	Apr'By
Chk'By	Data 2025-04-29
Project: AYURA	
Title: CO-23067(REV12) NS14# EXT ORIENTAL	
Unit: millimeter	Sheet: 3 of 4



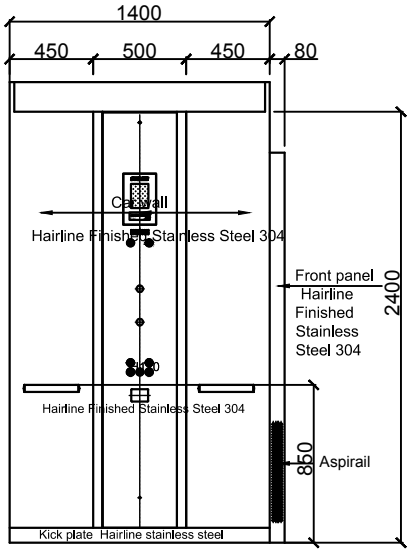
View From A



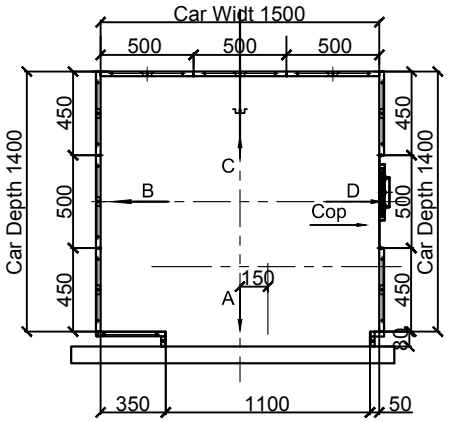
View From B



View From C



View From D



CABIN PANEL LAYOUT

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Project	AYURA
Title	CO-23067(REV12) NS14# EXT ORIENTAL
Unit millimeter	Sheet 4 of 4

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