

Nidec
All for dreams

 **VILOBOX**

NIDEC ELEVATOR



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NIDEC ELEVATOR

Nidec – making industrial history for over 100 years.

Our presence is global. Our products are manufactured and used across every continent. Our engineering expertise extends from the very small to the incredibly large. Our Nidec family embraces over 100,000 people working all over the world.

In every industrial segment we manufacture for, our foremost intent is to provide exceptional value, through products engineered to be the very best and through building lasting relationships with our customers and the communities we live in. Nidec Elevator brings these traditional values to our partner companies in the global elevator market.

With several prominent options in the global elevator industry, when you next explore elevators, we ask that you think of Nidec first. Partner with Nidec to discover affordable quality, responsive engineering and an absolute commitment to safety.

The Nidec marque encompasses well-known controller and machine manufacturers on both sides of the Pacific Ocean. You will find our elevator products in iconic structures ranging from the Statue of Liberty in New York City to iconic business towers in major cities. Installed in public buildings, airports, universities, residential, industrial, even on off-shore drilling platforms – Nidec engineers the optimal solution.

Working directly with you, we will drive the elevator industry to ever-greater efficiency, safety, and value.

Think elevator. Think Nidec.

CONTROL TECHNOLOGY



CONTROLLED MOTION

At the core of elevator performance is safety and ride comfort. Utilizing the experiences and the proven dependable services, Nidec built a strong foundation of providing the best engineered controller possible to the customers worldwide.

Our engineers have created the industry's most diverse and comprehensive line of elevator control products. From low-speed projects to high speed projects up to 10m/s with 8 car group controls, or the implementation of the worldwide code requirements, our team designs the most reliable controller that fits each customer's specific need.



Nidec's Destination Based Dispatching (DBD) system is an innovative dispatching system that enhances building traffic flow by matching passengers to elevator cars. The technology behind this system uses complex algorithms but simple application. After selecting the desired floor on a touch screen, passengers will be directed to the elevator that takes them to their destination. Passengers can relax because they know in advance which elevator is coming to meet them.

DESTINATION BASED DISPATCHING SYSTEM



DBD provides an alternative to the typical busy scenario where a crowd of passengers enters an elevator, each needing to select a floor when they board and then enduring the wait as the elevator stops at several floors. DBD "Lobby boost" provides an ideal solution to minimize expense and maximize efficiency during up-peak traffic times. It uses DBD on the lobby floors but standard fixtures and dispatching on other floors.





MONITORING TECHNOLOGY

Nidec monitoring system is an advanced elevator monitoring application that provides local and remote real-time monitoring — for multiple buildings across a campus or multiple sites across a country. Real-time connectivity provides immediate feedback by using graphical space presentations. The monitoring system can monitor multiple car groups, as well as monitoring the hoistway. Each control set has over 50 Ethernet access. When the connection set is open, the monitoring application establishes connection with every group and displays them on an overview screen.

iMonitor
 File Tools View Remote control Help

Campus View | Arizona State University

- Normal
- Inspection Independent Test Capture
- Code Blue Commander
- Emergency Fire
- Unknown Com Down

Arizona State University, Tempe

NIDEC INTERNET OF ELEVATOR SYSTEM

NIOE SYSTEM

- Base from IIoT, big data analytics and data encryption
- Adopt B/S structure, communicate with ease with a PC, cell phone or tablet
- Provide buffer and backup service for database and relational database
- Real-time monitoring, car visual monitoring and car alarm vocal conversation
- Safety management and preventive maintenance



Remote control

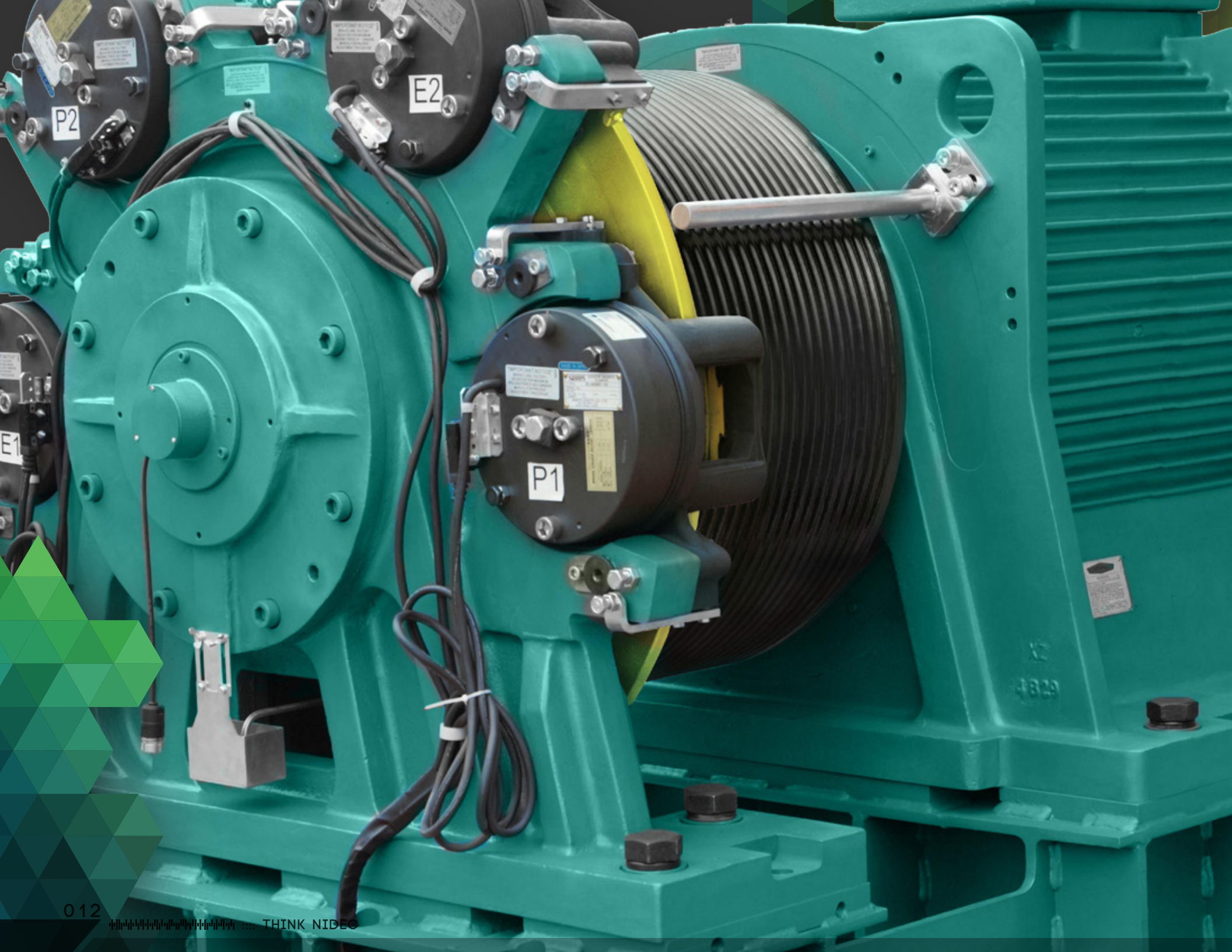
- Monitoring on elevator operation, failure and alarm status
- Remote visual control on cabin
- Voice communication from VOIP and public telephone net
- Transfer monitoring data to government control platform

Data analysis

- Store elevator historical alarming and events
- Historical data analysis and intelligent analysis, provide basic management for preventive/predictive maintenance

Management

- Management on regular repair, maintenance and malfunction
- Management on operation statistic data and preventive maintenance
- Management on after-sale service and technical support



MACHINE TECHNOLOGY

Renowned for its innovation and technology, Nidec is the undisputed leader of the global motor industry. Nidec's ACPM gearless machines cover the broad range of elevator applications ranging from the smallest footprint machine-room-less (MRL) to high-rise high-speed (up to 10m/s) machine room (MR) elevators with installations across the globe. Today, Nidec continues to develop and manufacture newer and most competitive ACPM gearless machines cross the both sides of Pacific that power Nidec elevators.



CABS, FINISHES, AND FIXTURES

Nidec elevator cabs, entrances and doors are engineered and manufactured to the highest industry standards. We provide complete cabs in a variety of finishes.

Our custom hand and bumper rails provide protection to elevator passengers and your elevator interior, and are compliant with building codes.

Traditional door opening styles provided by Nidec — single slide, center opening and two-speed side or center opening — can be matched with a variety of frames and finishes to seamlessly complement your project.





M METRO

PT >

Sunshine Station

Platforms via concourse



Parking Monash Street



Parkiteer



Bus interchange



CLASSIC COLLECTION



STAINLESS STEEL

RED FORMICA



BLUE FORMICA



YELLOW FORMICA

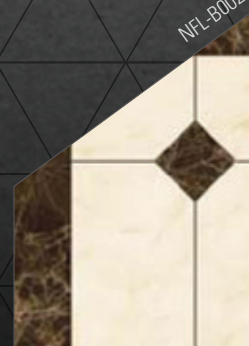


CLASSIC FLOORING FINISHES

NFL-B001P



NFL-B002P



NFL-B003R



NFL-B004R



CLASSIC LAMINATE & FORMICA FINISHES

NPA-7024

NPA-0905

NPA-0925

FORMICA :::: RED

FORMICA :::: BLUE

FORMICA :::: YELLOW

CLASSIC STAINLESS FINISHES

HAIRLINE

MARINE

SATIN

LINISHED

CLASSIC LIGHTING

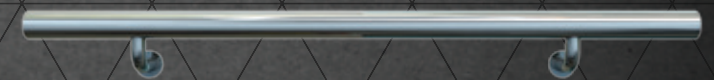


FLAT STAINLESS STEEL W/ LED DOWNLIGHTS

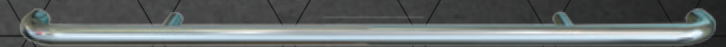


SUSPENDED CEILING

CLASSIC HANDRAIL

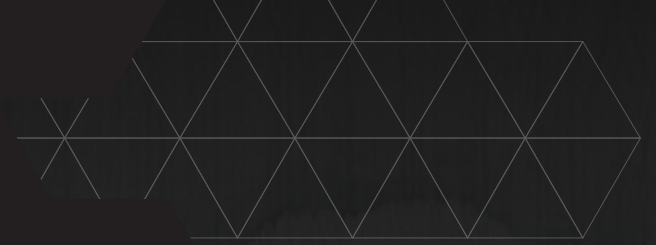


NHR-C1050



NHR-C1038-B

PRESTIGE COLLECTION



NCA-RH0832



NCA-RH0731



NCA-RH0618



PRESTIGE WOOD FINISHES

BEECH (NPA- F-2074)

CHERRY (NPA- F-7333)

OAK (NPA- F-2185)

TEAK (NPA- F-R0246)

WALNUT (NPA- F-63-1)



PRESTIGE GLASS FINISHES

NPA-RAL1014

NPA-RAL2011

NPA-RAL3002

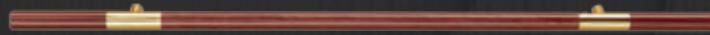
NPA- RAL5024

NPA-RAL6019

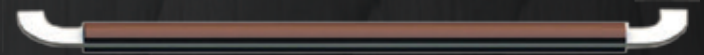
NPA-RAL6034



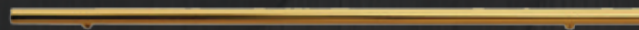
PRESTIGE HANDRAIL FINISHES



NHR-RH06F1



NHR-RH0J9707



NHR-RH06F2

PRESTIGE FLOORING FINISHES

BLACK

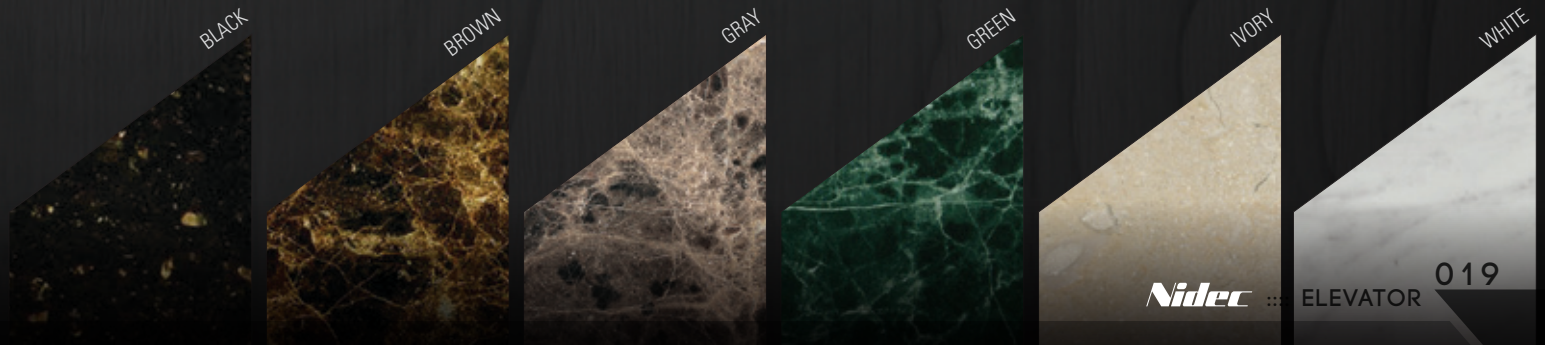
BROWN

GRAY

GREEN

IVORY

WHITE



Nidec

ELEVATOR

019

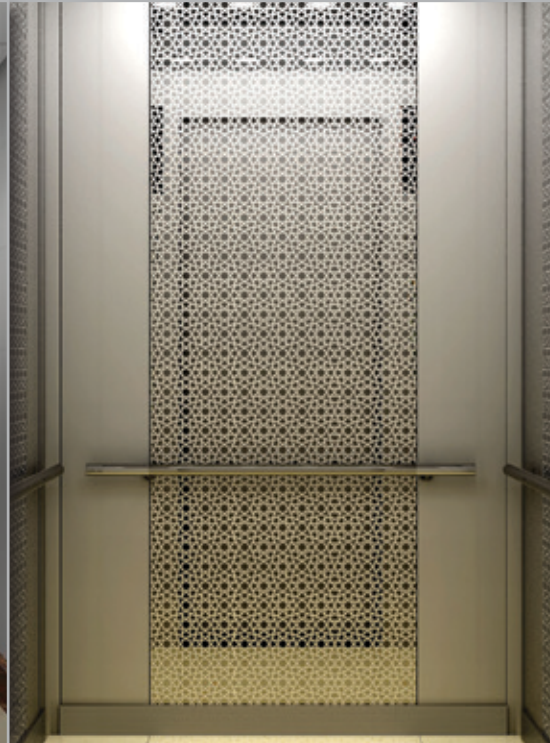
PATTERN SS & ETCHED SS COLLECTION

NCA-RH0717

NCA-RH0746

NCA-RH0820

NCA-RH0N19



SS HANDRAIL FINISHES



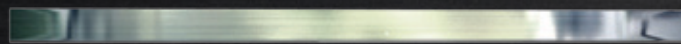
NHR-RH0J013



NHR-RH0J012



NHR-RH0J002



NHR-RH0J9701

ETCHED SS FINISHES

NPA-ME-BB-33

NPA-ME-BB-104

NPA-ME-BB-93

NPA-3DTBF-BG-04

NPA-3DTBF-BG-130

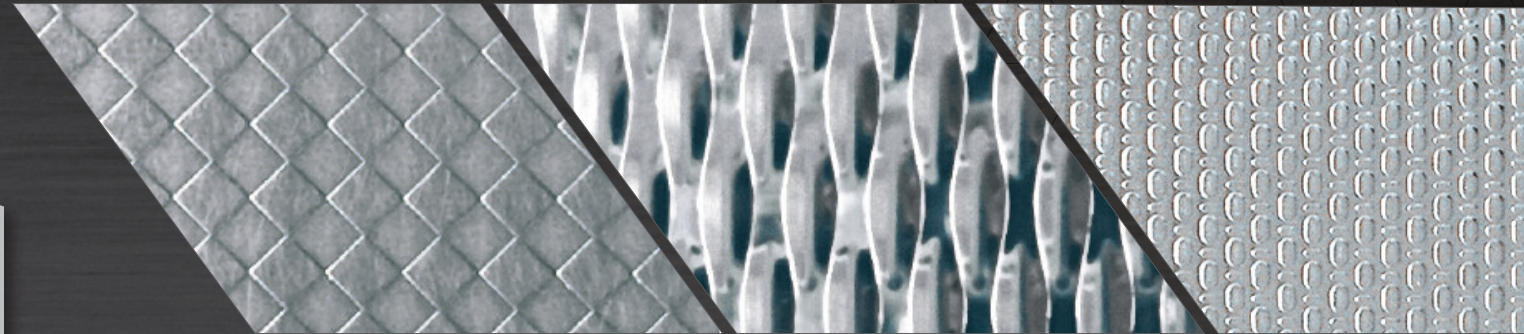


PATTERN SS FINISHES

RHOMBOIDS

5WL

LINEN



LARGE SS PATTERN



PATTERN SS FLOORING FINISHES

FLOORING 1

FLOORING 2



ETCHED GOLD COLLECTION





NCA-RH0835

NCA-RH0730

ETCHED GOLD FINISHES

TITANIUM SAND

NPA-METG-BG-02

NPA-METG-BB-13

NPA-METG-BB-45

NPA-METR-BB-53



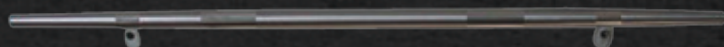
ETCHED GOLD HANDRAIL FINISHES



NHR-RH0J015



NHR-RH0N04



NHR-RH0N01



NHR-RH0N03

FIXTURES

Nidec offers the industry's highest quality elevator fixtures. Our car operating panels, car and hall fixtures and other accessories are designed and manufactured to meet the exacting requirements of our worldwide customers.

At Nidec, we continually strive to maintain the highest levels of quality, reliability and product durability. This is our promise to you.

NLO-B001SD-S



NLO-B001SL-S



NCO-B001S



NCO-RBCK191



NLO-RBXK191



NPB-BC390-D



NPB-BC390-D





ELEVATOR

028 Standard MRO and MRL

- 030 Standard MRO - N1000
- 032 Standard MRO - N3000
- 034 Standard MRO - N5000
- 035 Standard MRO - N7000
- 036 Standard MRL - N1100
- 038 Standard MRL - N3100
- 040 Mid-Rise MRL - N3100
- 042 Standard MRL - N5100

044 Panoramic MRO and MRL

- 046 Panoramic MRO - N3000-O
- 048 Panoramic MRL - N3100-O

050 Vehicle Lifts

- 051 VEHICLE LIFT MRO - N5000-V
- 052 VEHICLE LIFT MRL - N5100-V
- 053 VEHICLE LIFT - N5000-H

054 Special Lifts

- 055 CANTILEVERED HOME LIFT - N1300-R
- 056 CANTILEVERED MRL - N1300
- 058 CLASS C MRL GOODS LIFT - N3300-F

ESCALATOR

060 Escalators

- 061 30° ESCALATOR - N4000-300
- 062 35° ESCALATOR - N4000-350
- 063 MOVING WALK - N8000



STANDARD MRO AND MRL

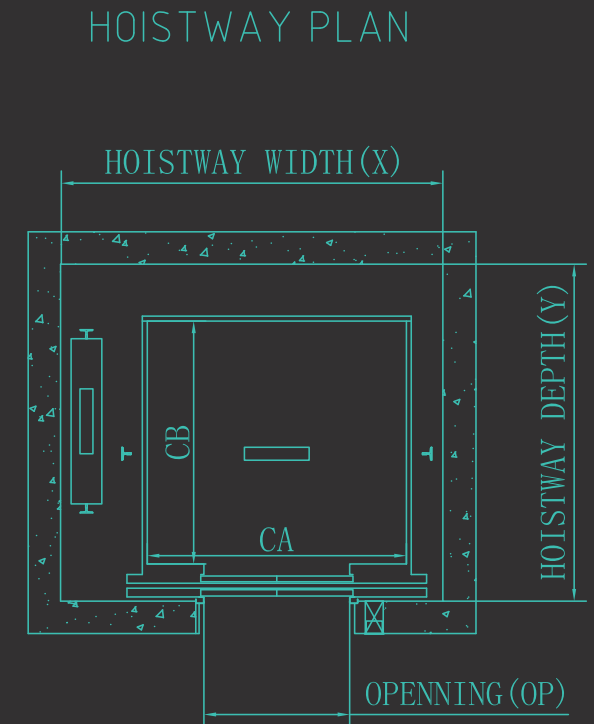
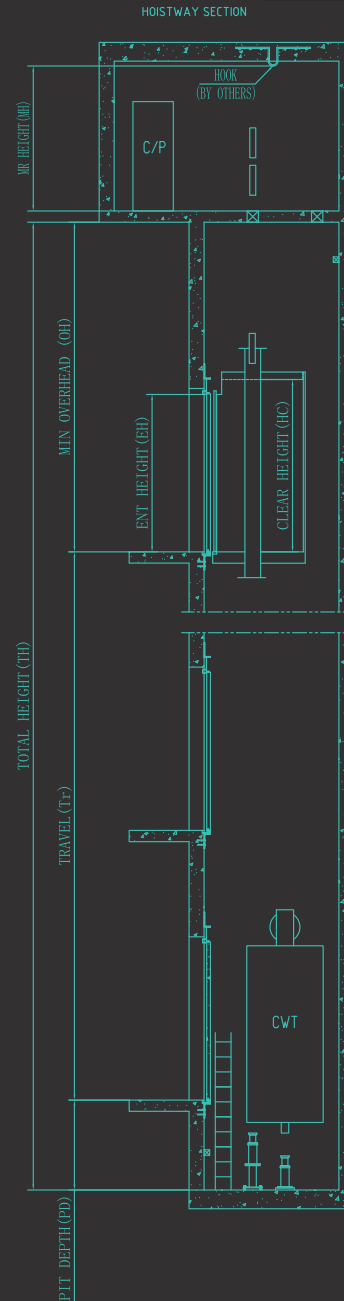


STANDARD MRO - N1000

(Side Counterweight-Center Opening 2:1)

TABLE :::: CENTER OPENING STANDARD DIMENSIONS

Capacity		Speed (m/s)	Car Inside (mm) CA × CB	Max Clear Opening (mm)	Hoistway (mm) X × Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	MR Height MH (mm)
KG	Persons							
1600	21	1.0	1750×2000	1100	2700×2400	4300	1400	2200
		1.5				4500	1600	
		1.75				4600	1700	
2000	26	1.0	2000×2100	1200	2950×2500	4300	1400	2200
		1.5				4500	1600	
		1.75				4600	1700	



STANDARD MRO - N1000

(Rear Counterweight-Center Opening 2:1)

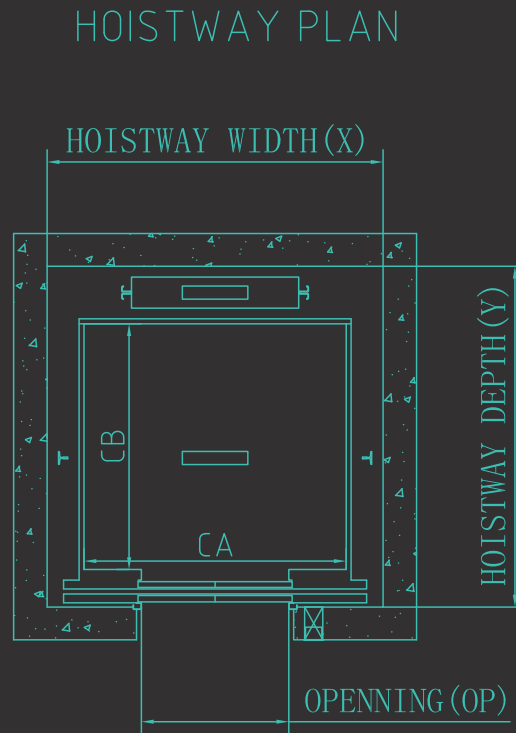
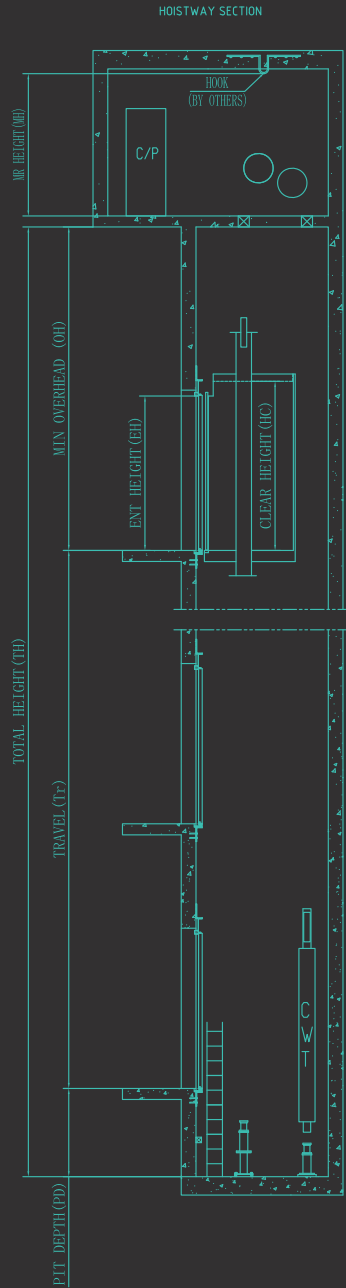


TABLE :::: CENTER OPENING STANDARD DIMENSIONS

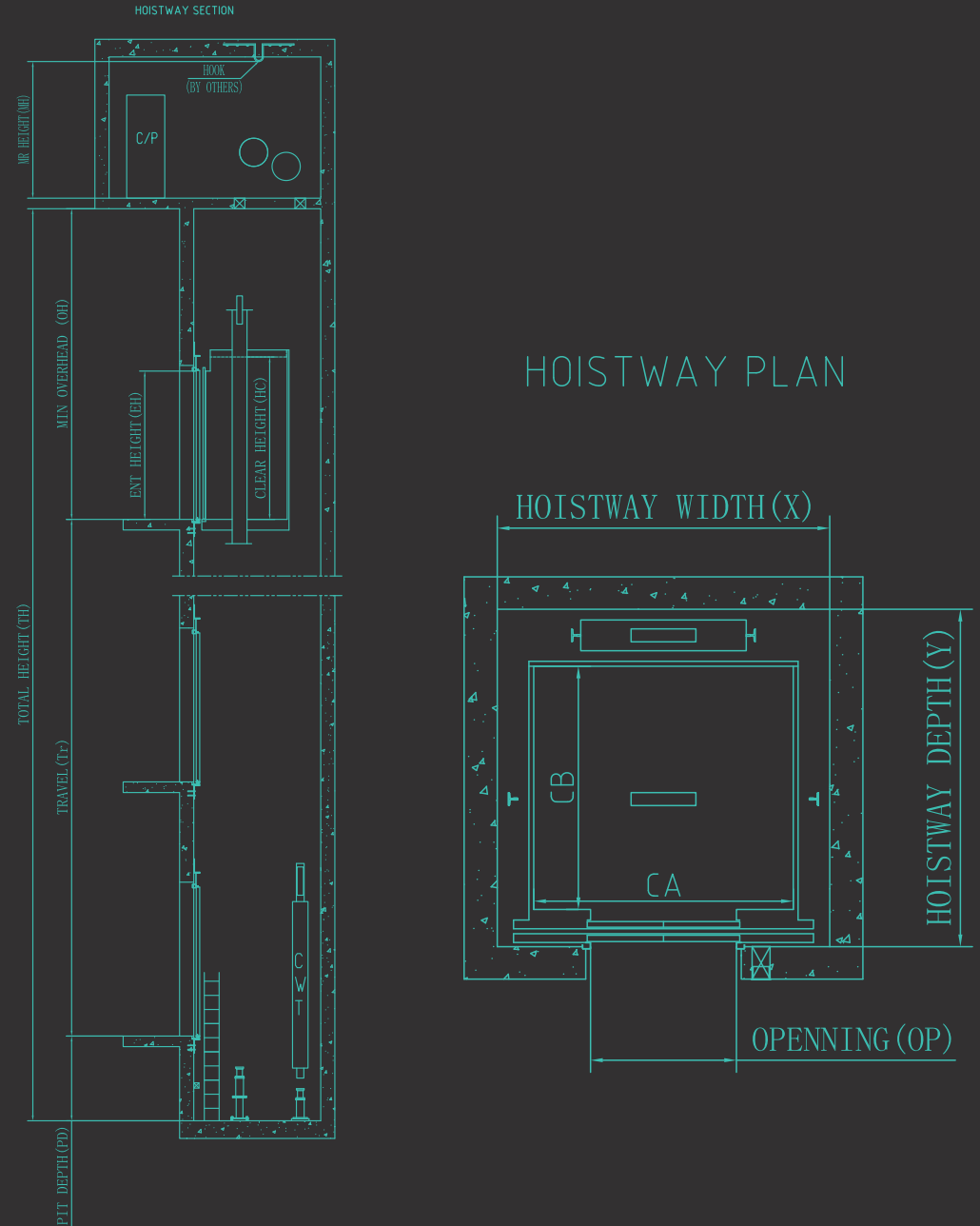
Capacity		Speed (m/s)	Carinside (mm) CA × CB	Max Clear Opening OP (mm)	Hoistway (mm) X × Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	MR Height MH (mm)
KG	Persons							
630	8	1.0	1400×1100	800	1800×1750	4190	1400	2200
		1.5						
		1.75						
800	10	1.0	1400×1350	800	1800×2000	4190	1400	2200
		1.5						
		1.75						
900	12	1.0	1600×1350	900	2050×2000	4190	1400	2200
		1.5						
		1.75						
1000	13	1.0	1600×1500	900	2050×2150	4190	1400	2200
		1.5						
		1.75						
1200	16	1.0	1800×1500	1100	2400×2150	4300	1400	2200
		1.5						
		1.75						
1350	18	1.0	2000×1550	1100	2550×2250	4300	1400	2200
		1.5						
		1.75						

STANDARD MRO - N3000

(Rear Counterweight-Center Opening 2:1)

TABLE :::: CENTER OPENING STANDARD DIMENSIONS

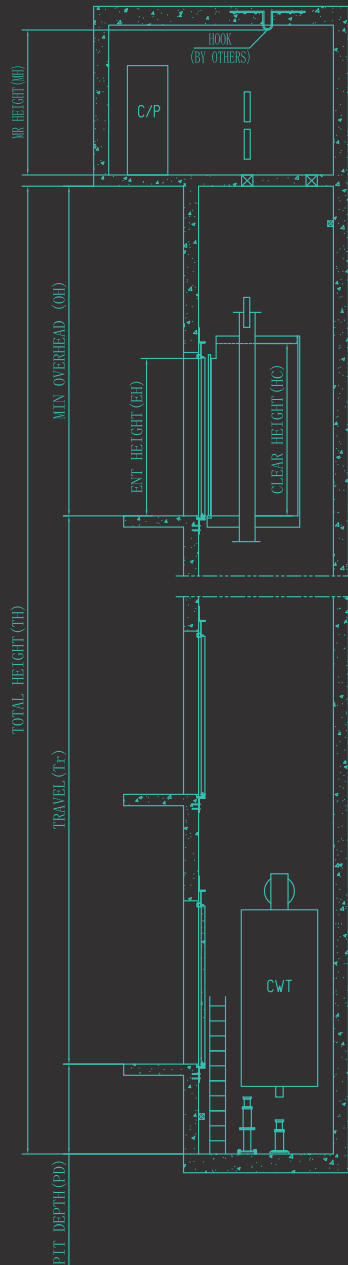
Capacity		Speed (m/s)	Car Inside (mm) CA x CB	Max Clear Opening OP (mm)	Hoistway (mm) X x Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	MR Height MH (mm)
KG	Persons							
800	10	2.0	1400x1350	800	2000x2100	4800	2100	2200
		2.5				5000	2400	
900	12	2.0	1600x1350	900	2250x2150	4800	2100	2200
		2.5				5000	2400	
1000	13	2.0	1600x1500	900	2300x2300	4800	2100	2200
		2.5				5000	2400	
1200	16	2.0	1800x1500	1100	2600x2300	4800	2100	2200
		2.5				5000	2400	
1350	18	2.0	2000x1550	1100	2800x2450	4800	2100	2200
		2.5				5000	2400	



STANDARD MRO - N3000

(Side Counterweight-Center Opening 2:1)

HOISTWAY SECTION



HOISTWAY PLAN

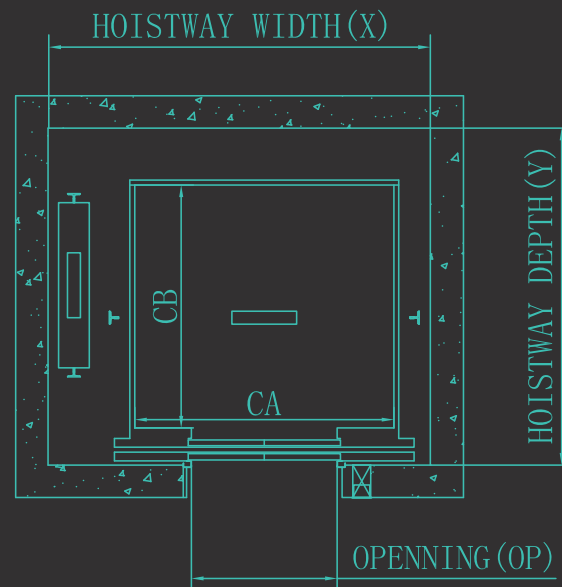


TABLE :::: CENTER OPENING STANDARD DIMENSIONS

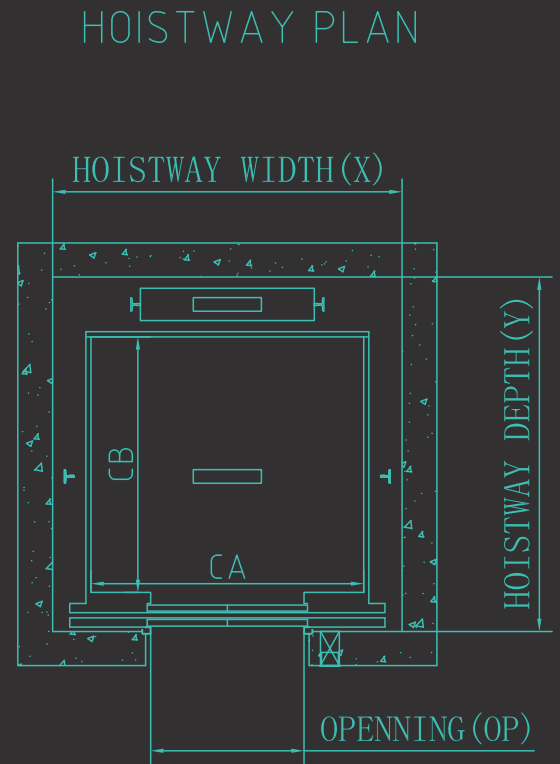
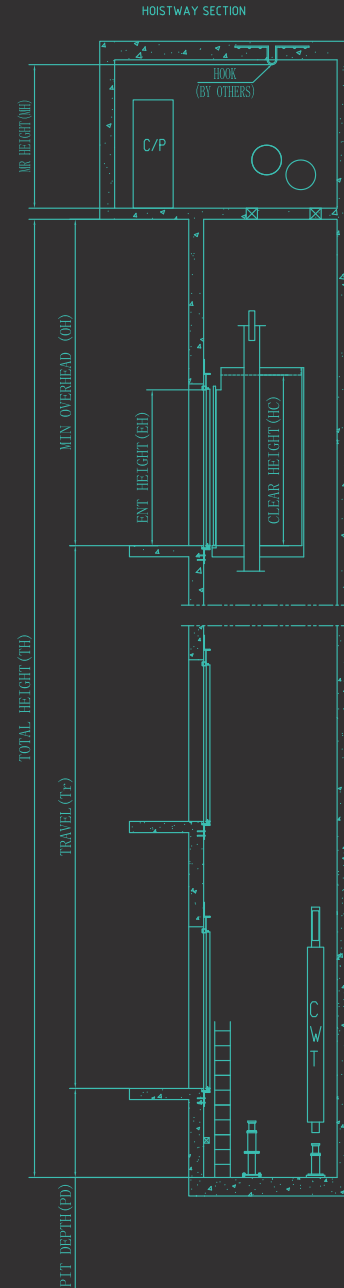
Capacity		Speed (m/s)	Car Inside (mm) CA×CB	Max Clear Opening OP (mm)	Hoistway (mm) X×Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	MR Height MH (mm)
KG	Persons							
1600	21	2.0	1750×2000	1100	2900×2700	4800	2100	2200
		2.5						
2000	26	2.0	2000×2100	1200	3200×2900	4800	2100	2200
		2.5						

STANDARD MRO - N5000

(Rear Counterweight-Center Opening 2:1)

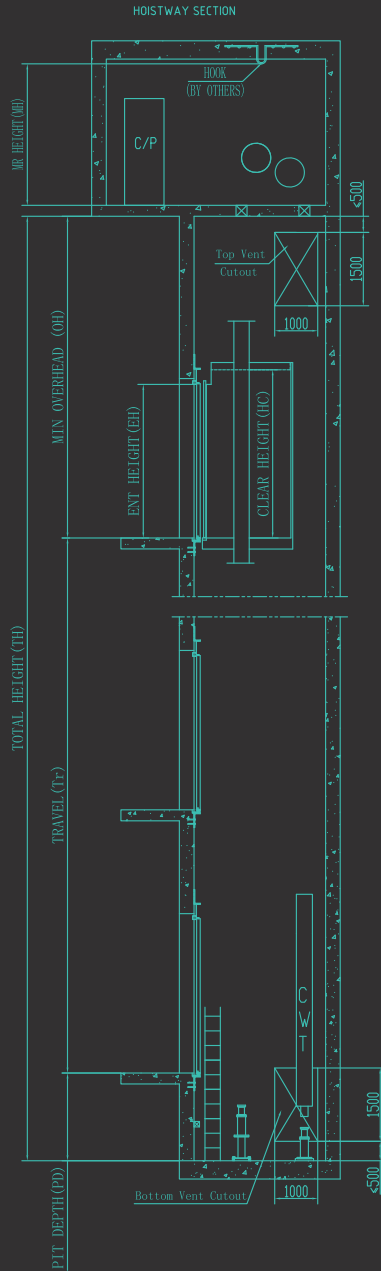
TABLE : CENTER OPENING STANDARD DIMENSIONS

Capacity		Speed (m/s)	Car Inside (mm) CA × CB	Max Clear Opening OP (mm)	Hoistway (mm) X × Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	MR Height MH (mm)
KG	Persons							
1000	13	3.0	1600×1500	900	2400×2350	5700	3400	2400
		3.5				6100	3600	
		4.0 ^①				6200 ^{note ①}	3700 ^{note ①}	
1200	16	3.0	1800×1500	1100	2650×2350	5700	3400	2400
		3.5				6100	3600	
		4.0 ^{note ①}				6200 ^{note ①}	3700 ^{note ①}	
1350	18	3.0	2000×1550	1100	2900×2500	5700	3400	2400
		3.5				6100	3600	
		4.0 ^{note ①}				6200 ^{note ①}	3700 ^{note ①}	
1600	21	3.0	2100×1600	1100	3100×2600	5700	3400	2400
		3.5				6100	3600	
		4.0 ^{note ①}				6200 ^{note ①}	3700 ^{note ①}	
2000	26	3.0	2200×1900	1200	3300×2950	5700	3400	2400
		3.5				6100	3600	
		4.0 ^{note ①}				6200 ^{note ①}	3700 ^{note ①}	
Notes		note ①: For 4m/s, with reduced stoke buffer.						



STANDARD MRO - N7000

(Rear Counterweight-Center Opening 1:1)



HOISTWAY PLAN

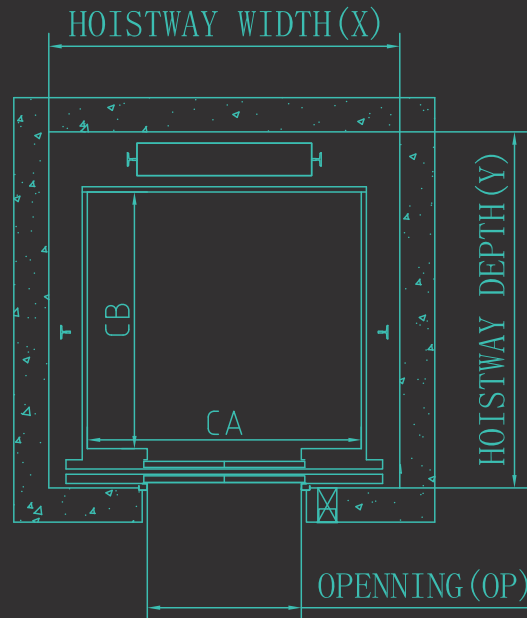


TABLE :::: CENTER OPENING STANDARD DIMENSIONS

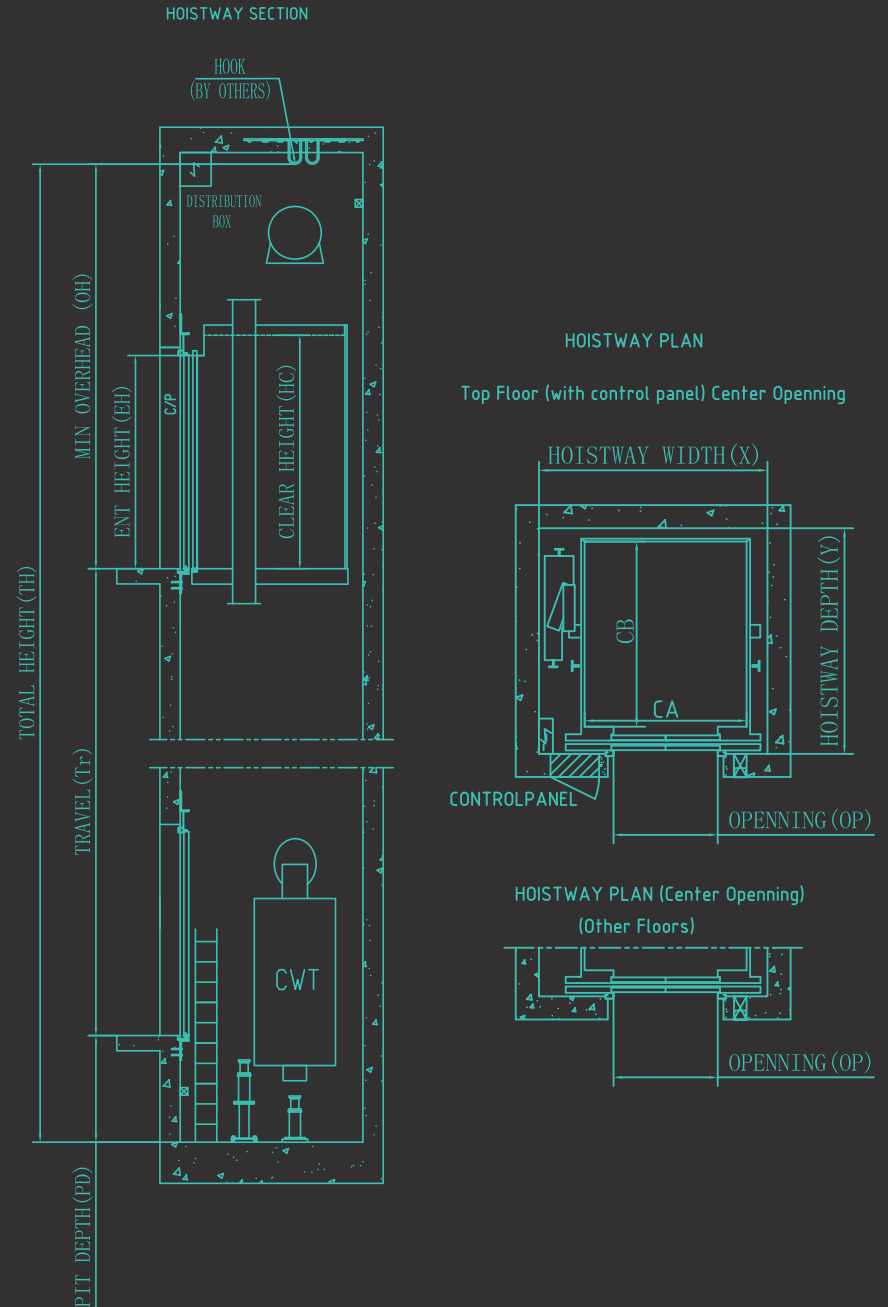
Capacity		Speed (m/s)	Car Inside (mm) CA x CB	Max Clear Opening OP (mm)	Hoistway (mm) X x Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	MR Height MH (mm)
KG	Persons							
1000	13	5.0	1600x1500	900	2500x2500	6800	4600	3000
		6.0						
1200	16	5.0	1800x1500	1100	2700x2500	6800	4600	3000
		6.0						
1350	18	5.0	2000x1550	1100	3000x2600	6800	4600	3000
		6.0						
		7.0						
1600	21	5.0	2100x1650	1100	3200x2750	6800	4600	3000
		6.0						
		7.0						
2000	26	5.0	2200x1900	1200	3450x3050	6800	4600	3000
		6.0						
		7.0						
Notes	with reduced stroke buffer							

STANDARD MRL - N1100

(Side Counterweight-Center Opening 2:1)

TABLE :::: CENTER OPENING STANDARD DIMENSIONS

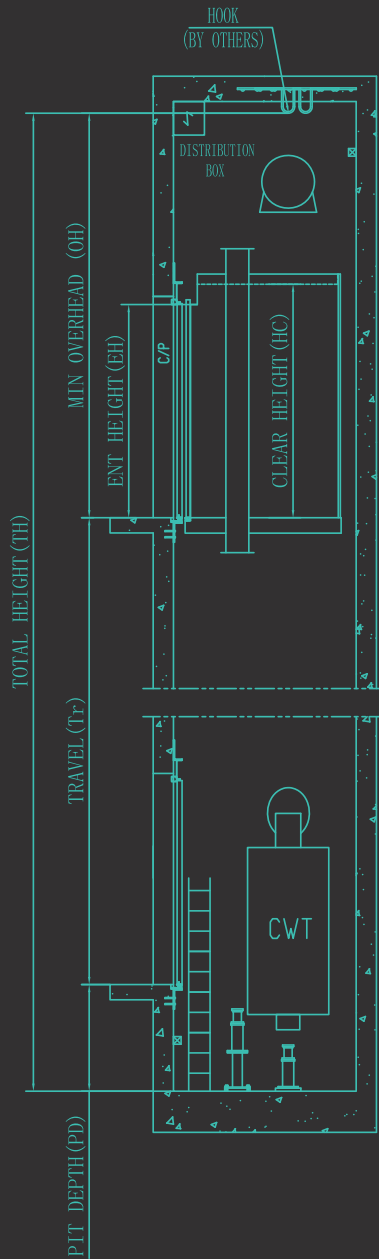
Capacity		Speed (m/s)	Car Inside (mm) CA×CB	Clear Height HC (mm)	Max Clear Opening OP (mm)	Hoistway (mm) X×Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel Tr (m)	Remarks
KG	Persons									
550	7	0.63	1150×1300	2200	800	1750×1650	3600	1200	28	
		1.0					3600	1200	45	
		1.5					3800	1550	65	
630	8	0.63	1150×1400	2200	800	1850×1750	3600	1200	28	
		1.0					3600	1200	45	
		1.5					3800	1550	65	
		1.75					3900	1600	75	
800	10	0.63	1400×1400	2200	900	2100×1750	3600	1200	28	
		1.0					3600	1200	45	
		1.5					3800	1550	65	
		1.75					3900	1600	75	
1000	13	0.63	1550×1500	2200	900	2250×1850	3600	1200	28	If decoration weight greater than 200KG increase pit depth 100mm
		1.0					3600	1200	45	
		1.5					3800	1550	65	
		1.75					3900	1600	75	
1200	16	0.63	1650×1650	2200	1000	2350×2000	3600	1200	28	
		1.0					3600	1200	45	
		1.5					3800	1550	65	
		1.75					3900	1600	75	



STANDARD MRL - N1100

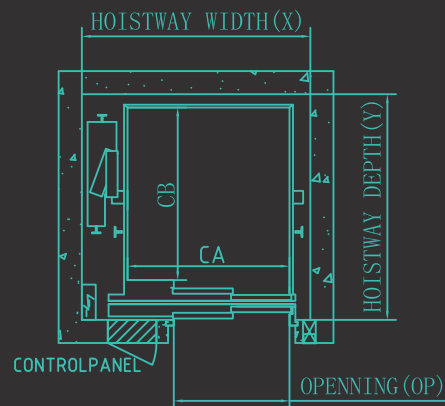
(Side Counterweight-Side Opening 2:1)

HOISTWAY SECTION



HOISTWAY PLAN

Top Floor (with control panel) Side Opening



HOISTWAY PLAN (Side Opening)
(Other Floors)

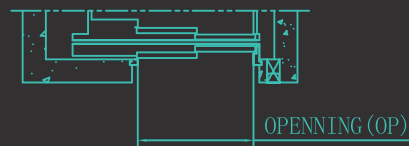


TABLE ::: SIDE OPENING STANDARD DIMENSIONS

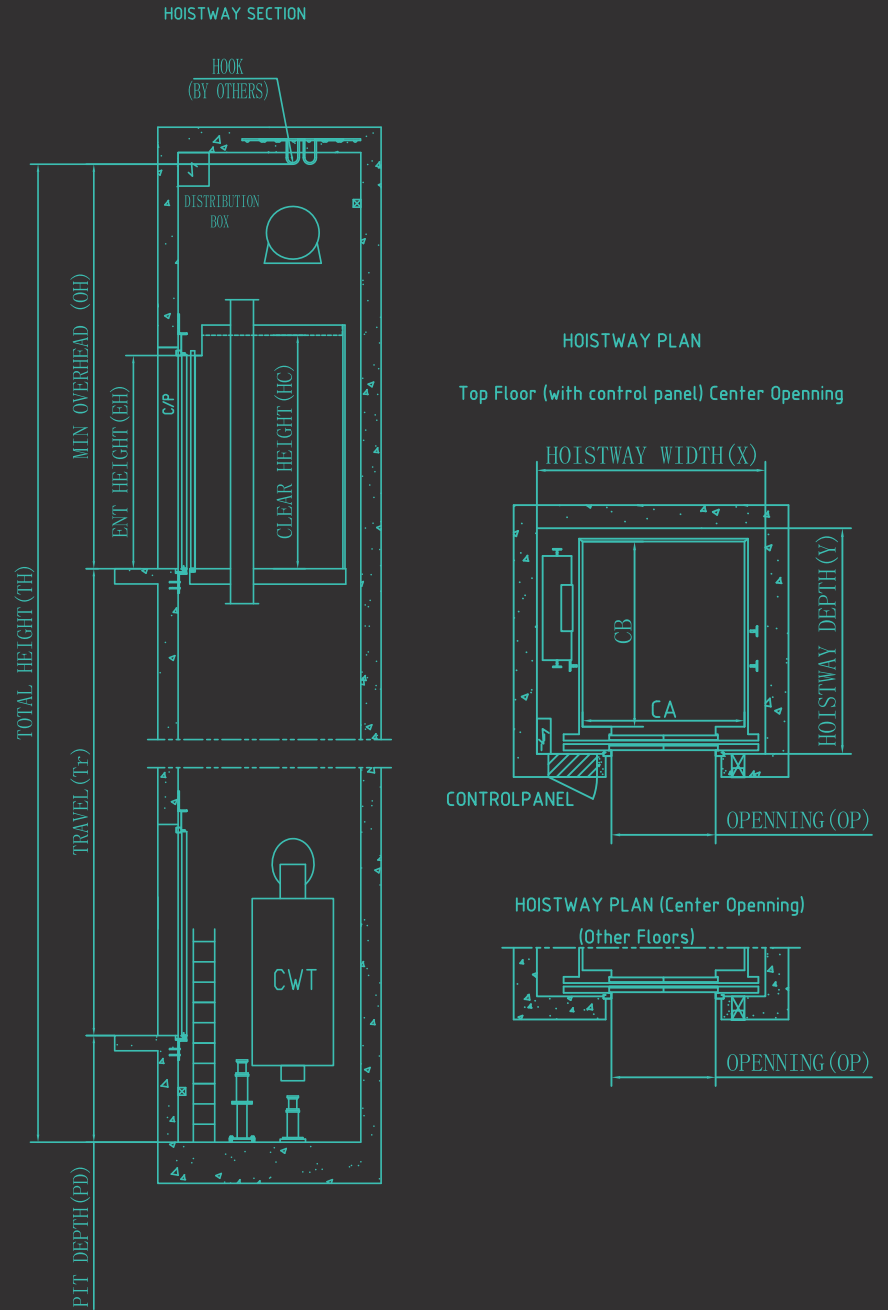
Capacity		Speed (m/s)	Car Inside (mm) CA×CB	Clear Height HC (mm)	Max Clear Opening OP (mm)	Hoistway (mm) X×Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel Tr (m)	Remarks
KG	Persons									
550	7	0.63	1100×1350	2200	900	1700×1750	3600	1200	28	
		1.0								
		1.5								
630	8	0.63	1100×1400	2200	900	1800×1800	3600	1200	28	
		1.0								
		1.5								
		1.75								
800	10	0.63	1400×1400	2200	1000	2100×1800	3600	1200	45	
		1.0								
		1.5								
		1.75								
1000	13	0.63	1100×2100	2200	1000	1800×2500	3600	1200	28	If decoration weight greater than 200KG increase pit depth 100mm
		1.0								
		1.5								
		1.75								
1200	16	0.63	1300×2100	2200	1100	2000×2500	3600	1200	28	
		1.0								
		1.5								
		1.75								

STANDARD MRL - N3100

(Side Counterweight-Center Opening 2:1)

TABLE : CENTER OPENING STANDARD DIMENSIONS

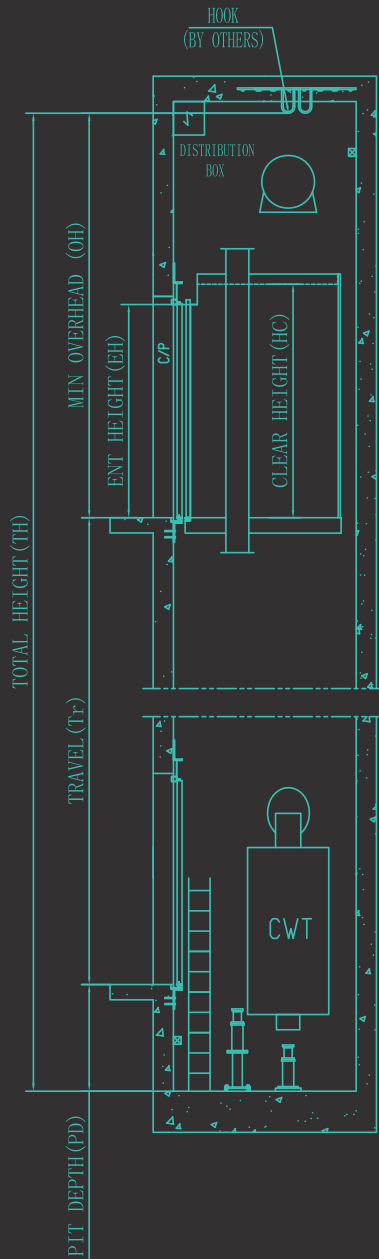
Capacity		Speed (m/s)	Car inside (mm) CA × CB	Clear Height HC (mm)	Max Clear Opening OP (mm)	Hoistway (mm) X × Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel Tr (m)
KG	Persons								
1350	18	0.63	1700×1800	2350	1000	2500×2200	3900	1400	28
		1.0					3900	1400	45
		1.5					4000	1550	65
		1.75					4050	1600	75
1600	21	0.63	1800×1950	2350	1100	2650×2350	3900	1400	28
		1.0					3900	1400	45
		1.5					4000	1550	65
		1.75					4050	1600	75
2000	26	0.63	2000×2100	2350	1200	2850×2500	3900	1400	28
		1.0					3900	1400	45
		1.5					4000	1550	65
		1.75					4050	1600	75
2500	33	0.63	2200×2200	2350	1300	3200×2600	3900	1600	28
		1.0					3900	1600	45
		1.5					4000	1750	65
		1.75					4050	1850	75



STANDARD MRL - N3100

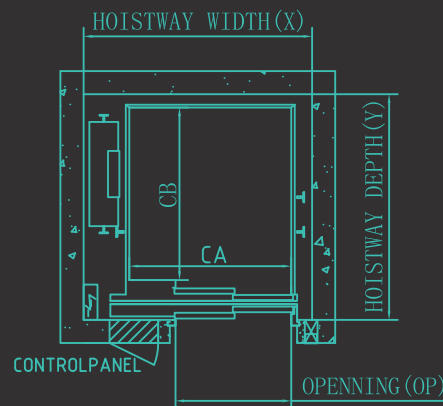
(Side Counterweight-Side Opening 2:1)

HOISTWAY SECTION



HOISTWAY PLAN

Top Floor (with control panel) Side Opening



HOISTWAY PLAN (Side Opening)

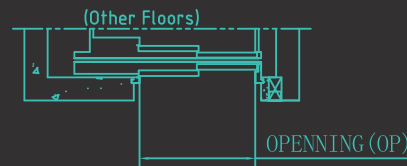


TABLE :::: SIDE OPENING STANDARD DIMENSIONS

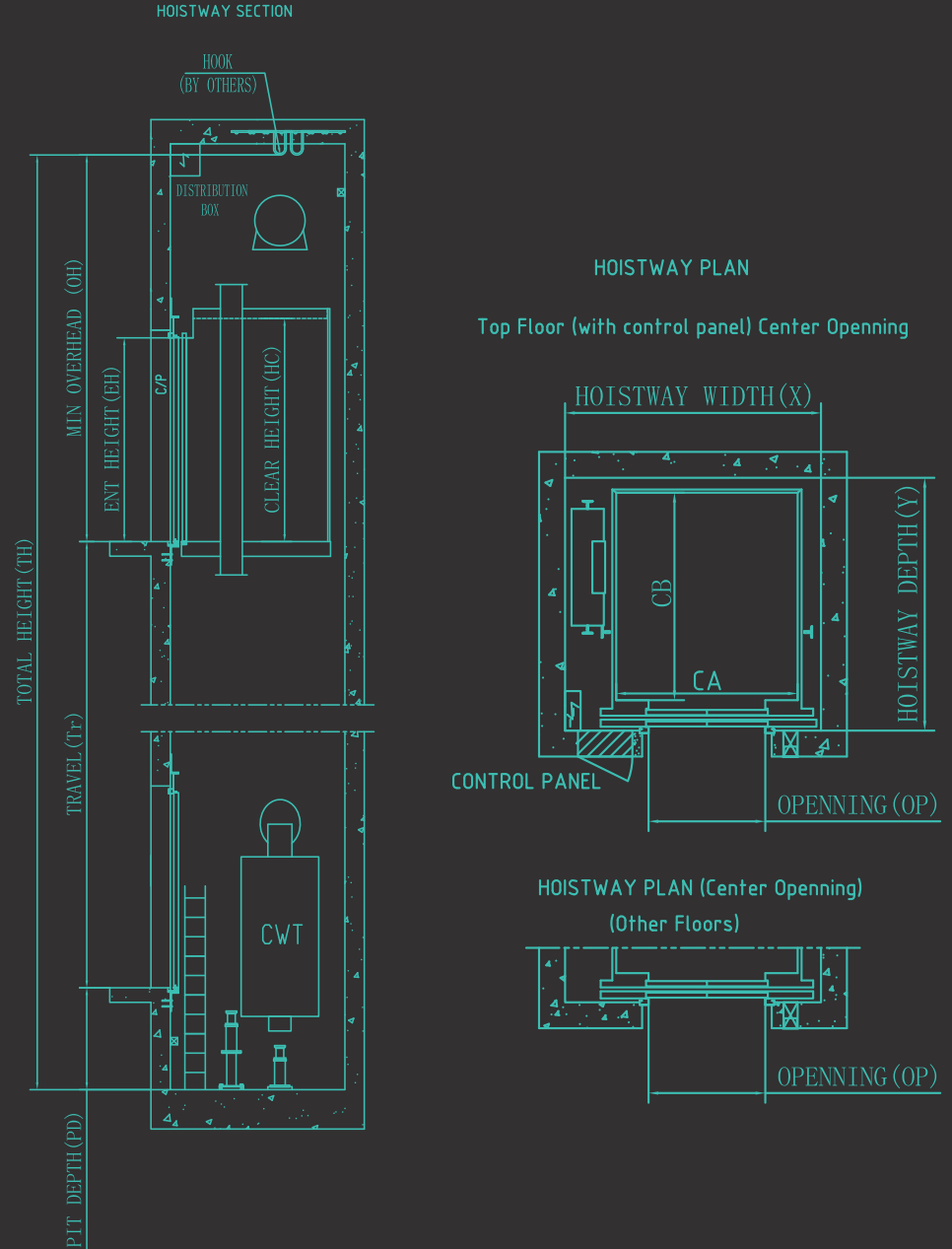
Capacity		Speed (m/s)	Car Inside (mm) CA×CB	Clear Height HC (mm)	Max Clear Opening OP (mm)	Hoistway (mm) X×Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel Tr (m)
KG	Persons								
1350	18	0.63	1300×2350	2350	1200	2150×2800	3900	1400	28
		1.0							
		1.5							
		1.75							
1600	21	0.63	1500×2350	2350	1200	2350×2800	3900	1400	45
		1.0							
		1.5							
		1.75							
2000	26	0.63	1750×2350	2350	1300	2600×2800	3900	1400	28
		1.0							
		1.5							
		1.75							
2500	33	0.63	2000×2500	2350	1500	3000×3000	3900	1600	28
		1.0							
		1.5							
		1.75							

MID-RISE MRL - N3100

(Side Counterweight-Center Opening 2:1)

TABLE :::: CENTER OPENING STANDARD DIMENSIONS

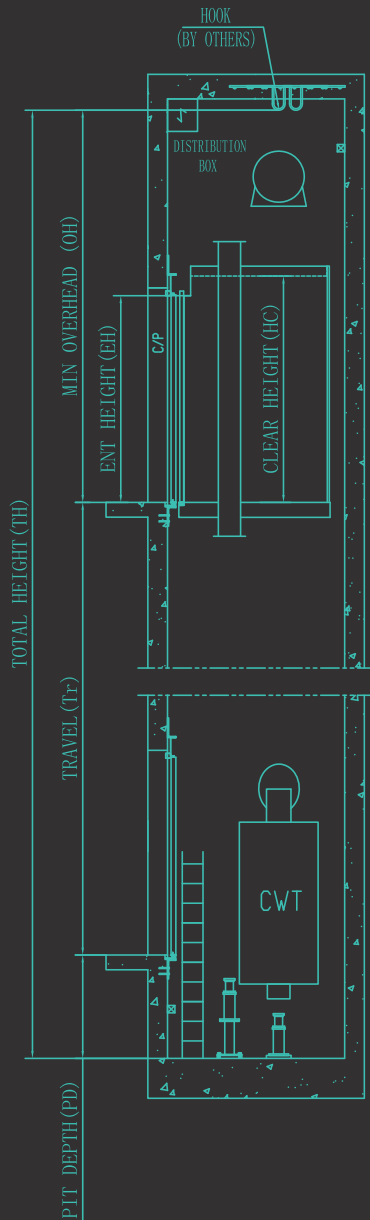
Capacity		Speed (m/s)	Car Inside (mm) CA×CB	Clear Height HC (mm)	Max Clear Opening OP (mm)	Hoistway (mm) X×Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel Tr (m)
KG	Persons								
800	10	2.0	1400×1400	2500	900	2300×1950	4400	2000	90
		2.5							112
1000	13	2.0	1550×1500	2500	900	2500×2050	4400	2000	90
		2.5							112
1200	16	2.0	1650×1650	2500	1000	2600×2200	4400	2000	90
		2.5							112
1350	18	2.0	1700×1800	2500	1000	2700×2350	4400	2000	90
		2.5							112
1600	21	2.0	1800×1950	2500	1100	2800×2550	4400	2000	90
		2.5							112
2000	26	2.0	2000×2100	2500	1200	3000×2700	4400	2000	90
		2.5							112



MID-RISE MRL - N3100

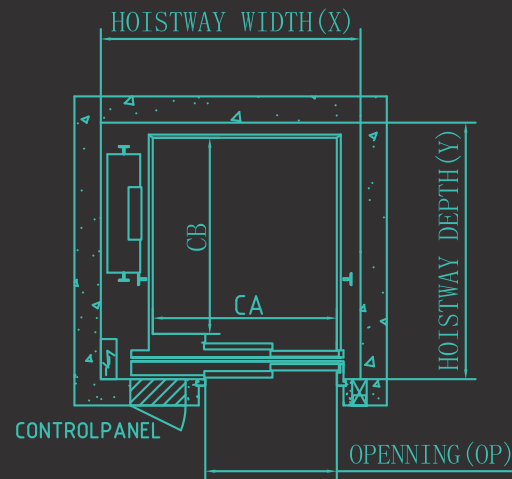
(Side Counterweight-Side Opening 2:1)

HOISTWAY SECTION



HOISTWAY PLAN

Top Floor (with control panel) Side Opening



HOISTWAY PLAN (Side Opening)
(Other Floors)

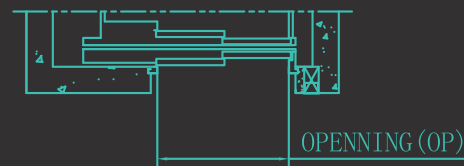


TABLE ::: SIDE OPENING STANDARD DIMENSIONS

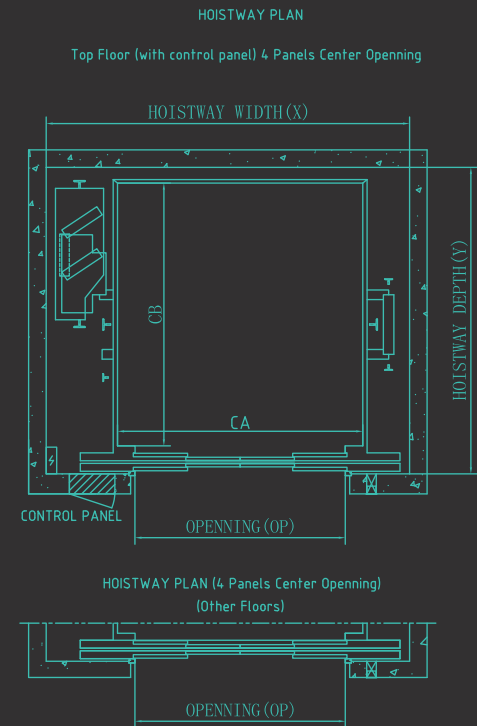
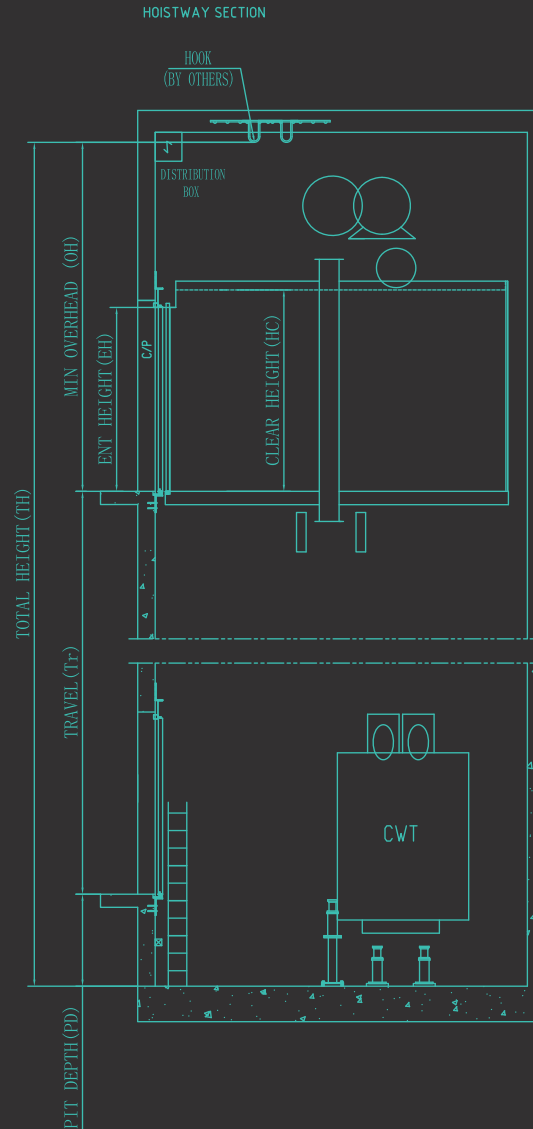
Capacity		Speed (m/s)	Car Inside (mm) CA × CB	Clear Height HC (mm)	Max Clear Opening OP (mm)	Hoistway (mm) X × Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel Tr (m)
KG	Persons								
800	10	2.0	1400×1400	2500	1000	2300×2000	4400	2000	90
		2.5							
1000	13	2.0	1100×2100	2500	1000	2050×2700	4400	2000	90
		2.5							
1200	16	2.0	1300×2100	2500	1100	2250×2700	4400	2000	90
		2.5							
1350	18	2.0	1300×2350	2500	1200	2300×3000	4400	2000	90
		2.5							
1600	21	2.0	1500×2350	2500	1200	2500×3000	4400	2000	90
		2.5							
2000	26	2.0	1750×2350	2500	1300	2750×3000	4400	2000	90
		2.5							

STANDARD MRL - N5100

(Side Counterweight-4 Panels Center Opening 4:1)

TABLE :::: CENTER OPENING STANDARD DIMENSIONS

Capacity		Speed (m/s)	Car Inside (mm) CA × CB	Clear Height HC (mm)	Max Clear Opening OP (mm)	Hoistway (mm) X × Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel Tr (m)
KG	Persons								
3000	40	0.5	2050×2800	2350	1800	3200×3300	3900	1600	25
		1.0							45
3500	46	0.5	2250×2900	2350	2000	3550×3400	3900	1800	25
		1.0							45
4000	53	0.5	2500×2900	2350	2200	3800×3400	3900	1800	25
		1.0							45
5000	66	0.5	2900×3100	2350	2400	4200×3600	4200	1800	25
		1.0							45





Car Park Map
You are in Car Park 3

PANORAMIC MRO AND MRL



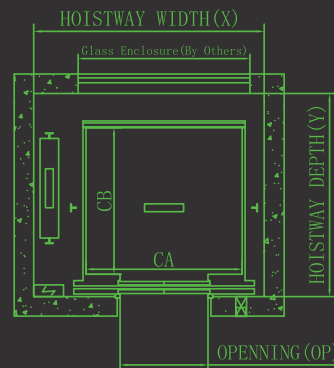
PANORAMIC MRO - N3000-O

Type I & II

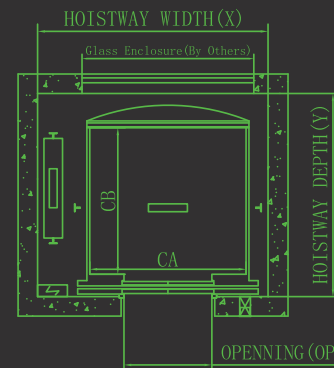
TABLE : STANDARD DIMENSIONS

Cage	Capacity		Speed (m/s)	Car Inside (mm) CA x CB	Clear Height HC (mm)	Max Clear Opening (mm)	Hoistway (mm) X x Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	MR Height MH (mm)	Max Travel Tr (m)
	KG	Persons									
I	800	10	1.0	1300x1500	2350	800	2050x2000	4300	1800	2200	45
			1.5					4500	1900		65
			1.75					4600	2000		75
	1000	13	1.0	1500x1550	2350	900	2250x2100	4300	1800	2200	45
			1.5					4500	1900		65
			1.75					4600	2000		75
	1350	18	1.0	1700x1800	2350	1100	2700x2400	4300	1800	2200	45
			1.5					4500	1900		65
			1.75					4600	2000		75
II	800	10	1.0	1300x1500	2350	800	2050x2000	4300	1800	2200	45
			1.5					4500	1900		65
			1.75					4600	2000		75
	1000	13	1.0	1500x1550	2350	900	2250x2100	4300	1800	2200	45
			1.5					4500	1900		65
			1.75					4600	2000		75
	1350	18	1.0	1700x1800	2350	1100	2700x2400	4300	1800	2200	45
			1.5					4500	1900		65
			1.75					4600	2000		75

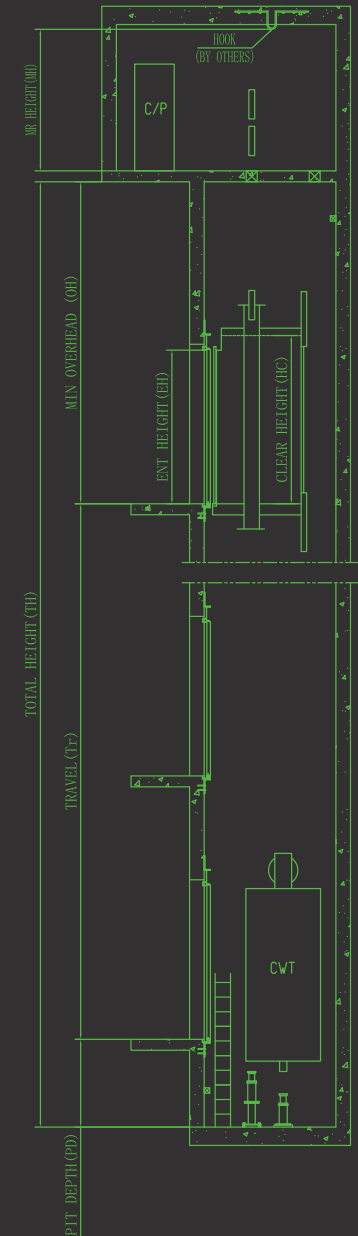
HOISTWAY PLAN TYPE I



HOISTWAY PLAN TYPE II



HOISTWAY SECTION



PANORAMIC MRO - N3000-O

Type III & IV

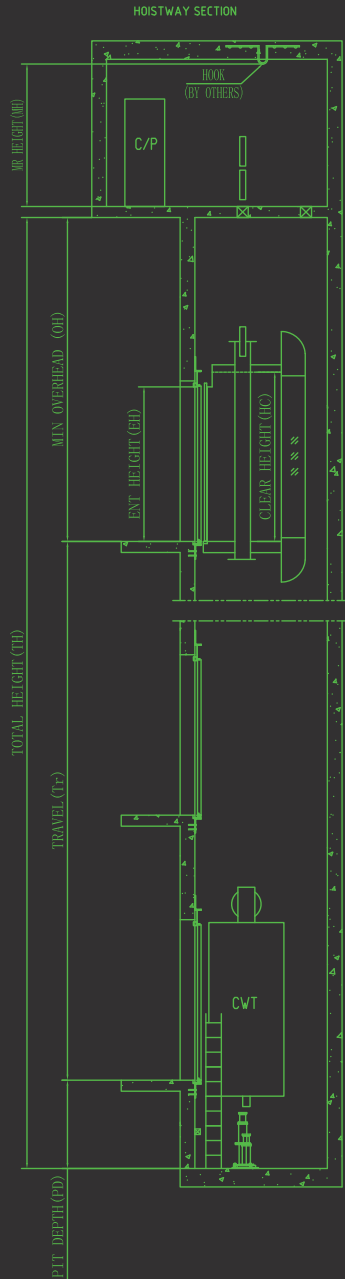
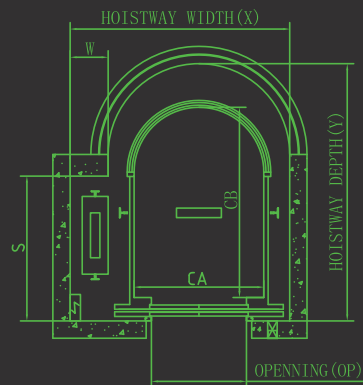


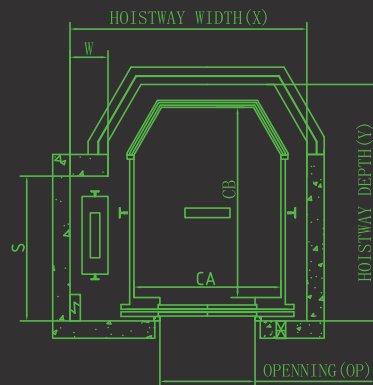
TABLE :::: STANDARD DIMENSIONS

Cage	Capacity		Speed (m/s)	Car Inside (mm) CA×CB	Clear Height HC (mm)	Max Clear Opening OP (mm)	Hoistway (mm)			Min. Overhead OH (mm)	Min. Pit PD (mm)	MR Height MH (mm)	Max Travel Tr (m)
	KG	Persons					X×Y	S	W				
III	800	10	1.0	1300×1710	2350	800	2100×2250	1350	400	4300	1800	2200	45
			1.5							4500	1900		65
			1.75							4600	2000		75
	1000	13	1.0	1350×1900	2350	900	2250×2450	1450	400	4300	1800	2200	45
			1.5							4500	1900		65
			1.75							4600	2000		75
	1350	18	1.0	1500×2200	2350	1000	2500×2850	1800	450	4300	1800	2200	45
			1.5							4500	1900		65
			1.75							4600	2000		75
IV	800	10	1.0	1300×1600	2350	800	2100×2150	1320	400	4300	1800	2200	45
			1.5							4500	1900		65
			1.75							4600	2000		75
	1000	13	1.0	1350×1830	2350	900	2250×2400	1500	400	4300	1800	2200	45
			1.5							4500	1900		65
			1.75							4600	2000		75
	1350	18	1.0	1500×2200	2350	1000	2500×2850	1800	450	4300	1800	2200	45
			1.5							4500	1900		65
			1.75							4600	2000		75

HOISTWAY PLAN TYPE III



HOISTWAY PLAN TYPE IV

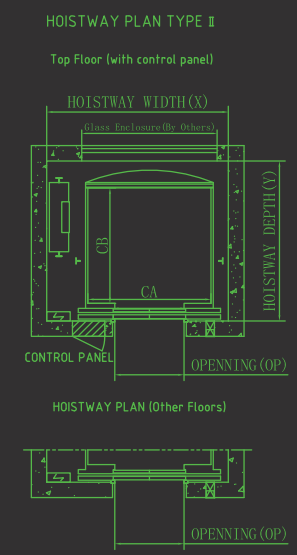
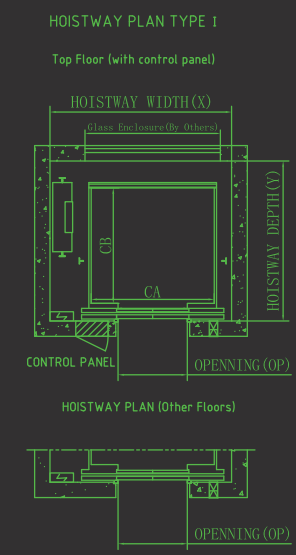
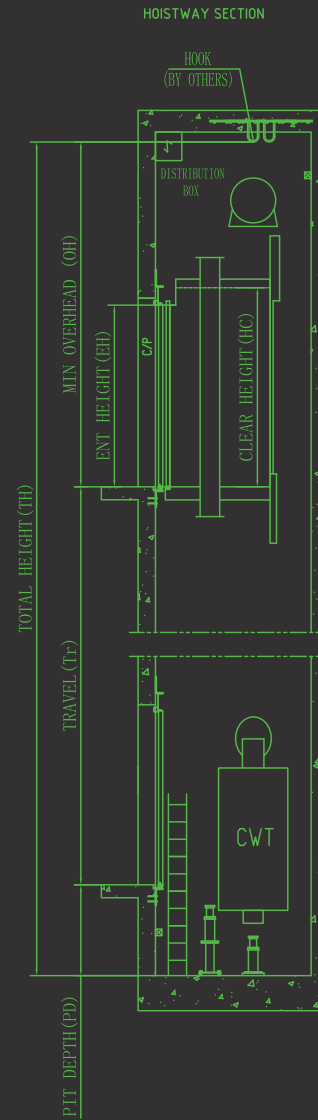


PANORAMIC MRL - N3100-O

Type I & II

TABLE : STANDARD DIMENSIONS

Cage	Capacity		Speed (m/s)	Car Inside (mm) CA × CB	Clear Height HC (mm)	Max Clear Opening (mm)	Hoistway (mm) X × Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel Tr (m)
	KG	Persons								
I	630	8	1.0	1150×1400	2350	800	1850×1950	4200	1800	45
			1.5					4300	1900	65
			1.75					4350	2000	75
	800	10	1.0	1300×1500	2350	800	2000×2000	4200	1800	45
			1.5					4300	1900	65
			1.75					4350	2000	75
	1000	13	1.0	1500×1550	2350	900	2200×2100	4200	1800	45
			1.5					4300	1900	65
			1.75					4350	2000	75
II	630	8	1.0	1150×1400	2350	800	1850×1950	4200	1800	45
			1.5					4300	1900	65
			1.75					4350	2000	75
	800	10	1.0	1300×1500	2350	800	2000×2000	4200	1800	45
			1.5					4300	1900	65
			1.75					4350	2000	75
	1000	13	1.0	1500×1550	2350	900	2200×2100	4200	1800	45
			1.5					4300	1900	65
			1.75					4350	2000	75

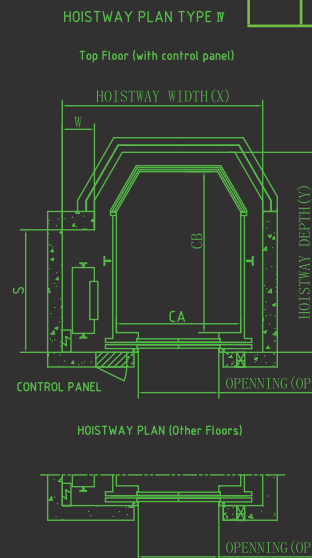
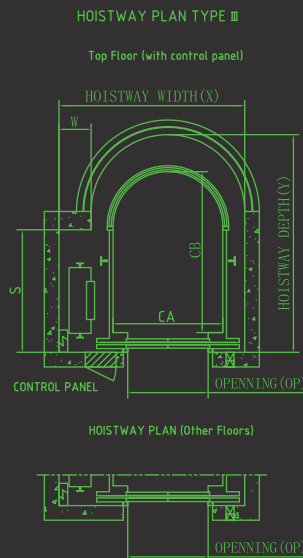
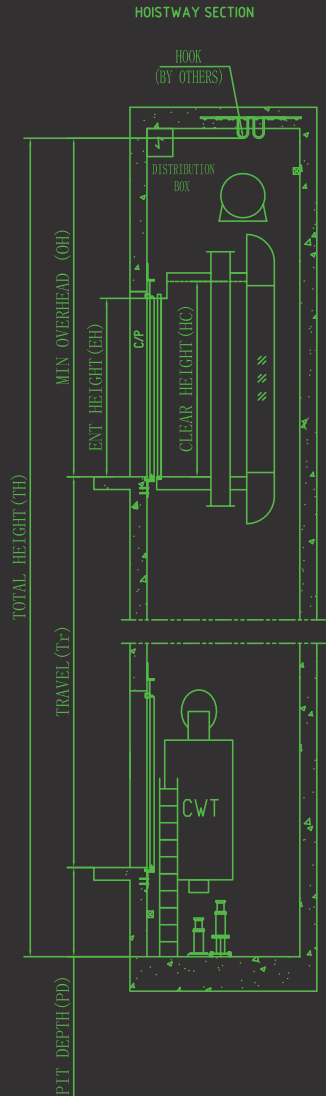


PANORAMIC MRL - N3100-O

Type III & IV

TABLE :... STANDARD DIMENSIONS

Cage	Capacity		Speed (m/s)	Car Inside (mm) CA×CB	Clear Height HC (mm)	Max Clear Opening OP (mm)	Hoistway (mm)			Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel Tr (m)
	KG	Persons					X×Y	S	W			
III	800	10	1.0	1300×1710	2350	800	2200×2250	1250	440	4600	2000	45
			1.5							4700	2100	65
			1.75							4750	2200	75
	1000	13	1.0	1350×1900	2350	900	2350×2450	1250	390	4200	2000	45
			1.5							4300	2100	65
			1.75							4350	2200	75
IV	800	10	1.0	1300×1600	2350	800	2200×2150	1200	440	4600	2000	45
			1.5							4700	2100	65
			1.75							4750	2200	75
	1000	13	1.0	1350×1900	2350	900	2350×2450	1250	390	4200	2000	45
			1.5							4300	2100	65
			1.75							4350	2200	75



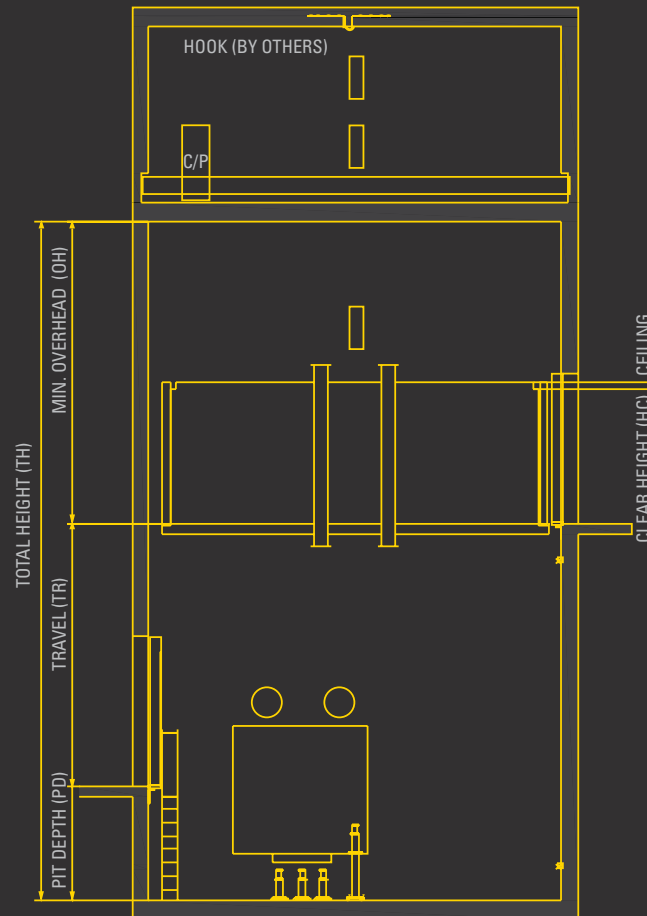
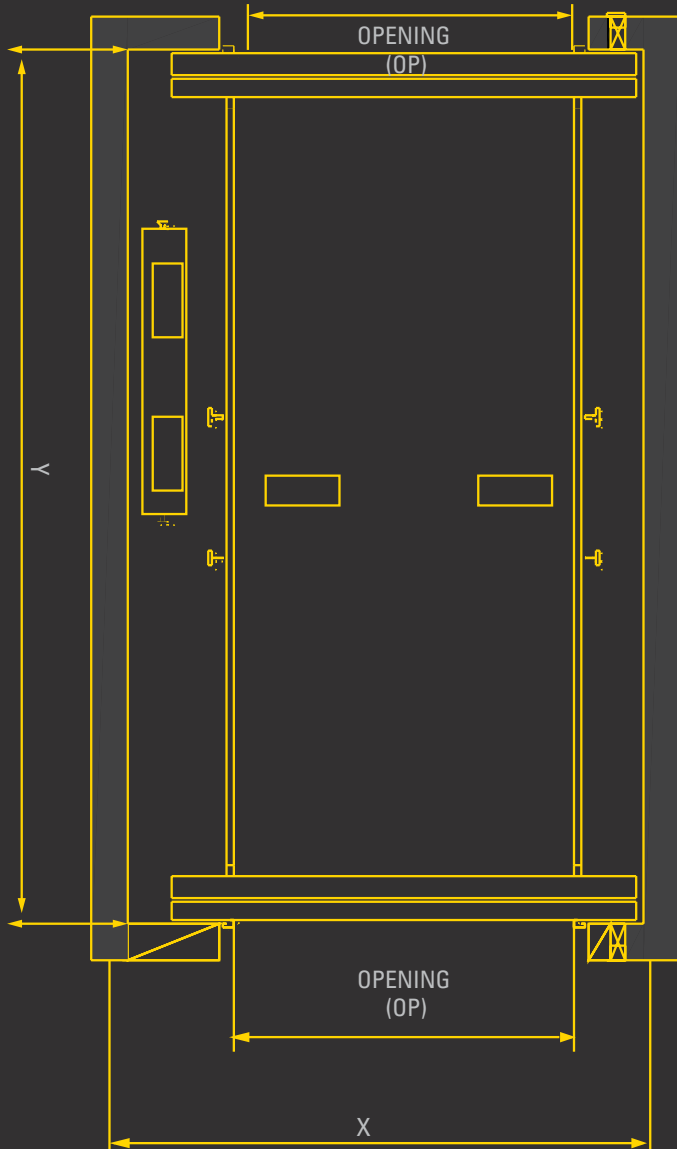
VEHICLE LIFTS

VEHICLE LIFT MRO - N5000-V

2:1 & 4:1

TABLE ::: CENTER OPENING STANDARD DIMENSIONS (units: mm)

Roping	Capacity	Speed m/s	Max Clear Opening	Car Inside	Hoistway	Min. Overhead OH (mm)	Min. P-it PD (mm)	Clear Height HC (mm)
	KG			CA x CB	X x Y			
2:1	2500	0.5/0.75/1.0	2350	2350×5310	3600×5970	4500	1800	2200
	3000	0.5/0.75/1.0	2400	2400×6250	3650×6910	4500	1800	2200
4:1	5000	0.5/0.75/1.0	3000	3000×8300	4550×8960	4500	2000	2200
	6000	0.5/0.75/1.0	3100	3100×9600	4650×10260	4500	2000	2200



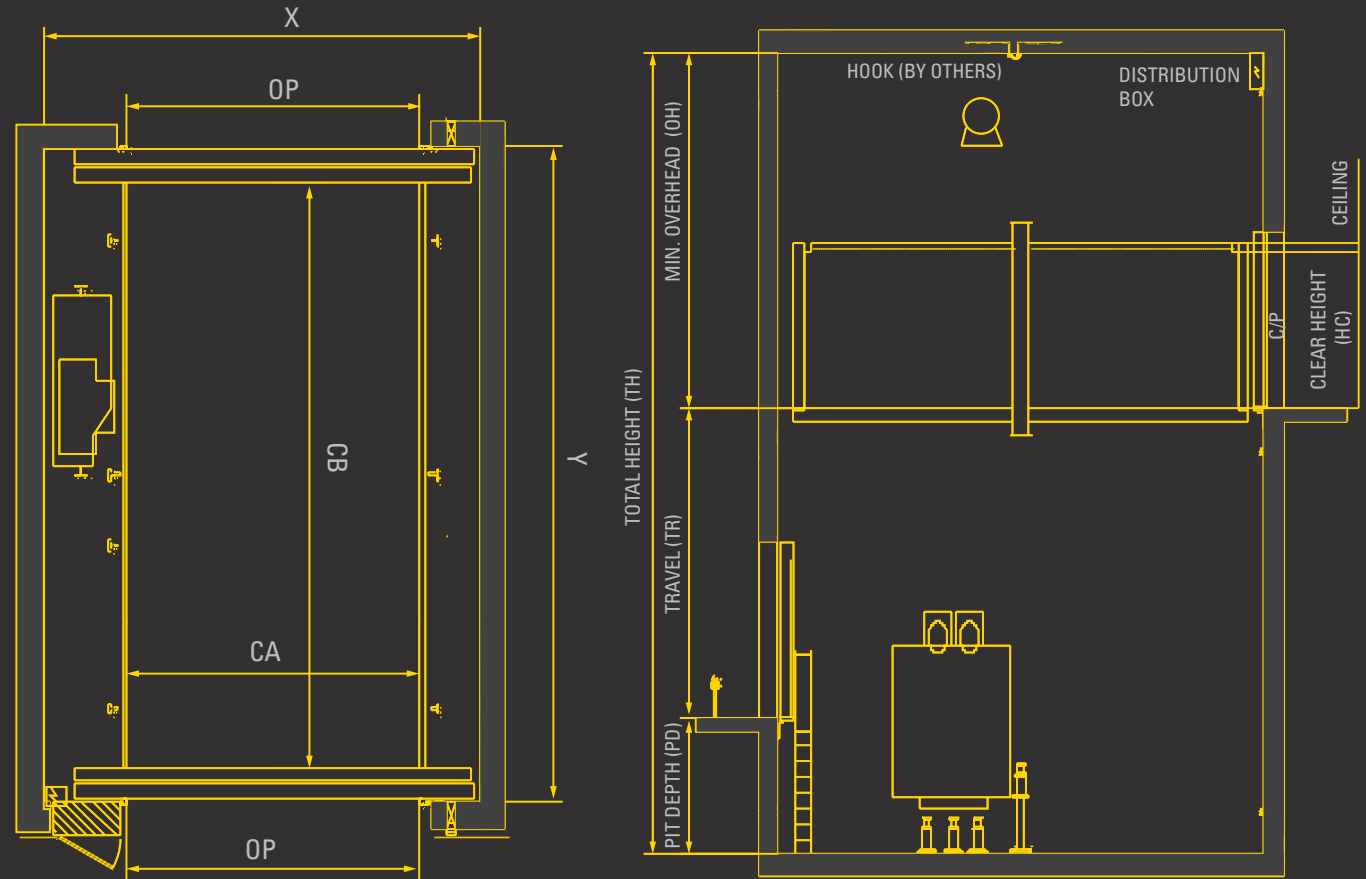
VEHICLE LIFT MRL - N5100-V

4:1

TABLE ::: CENTER OPENING STANDARD DIMENSIONS (units: mm)

Capacity KG	Speed m/s	Max Clear Opening	Car Inside	Hoistway	Min. Overhead OH (mm)	Min. Pit PD (mm)	Clear Height HC (mm)
			CA x CB	X x Y			
2500	0.5/0.75/1.0	2350	2350x5310	3700x5970	3900	1800	2200
3000	0.5/0.75/1.0	2400	2400x6250	3750x6910	3900	1800	2200
4000	0.5/0.75/1.0	2900	2900x6800	4250x7460	4200	1800	2200

DIAGRAM ::: TRACTION VEHICLE LIFT



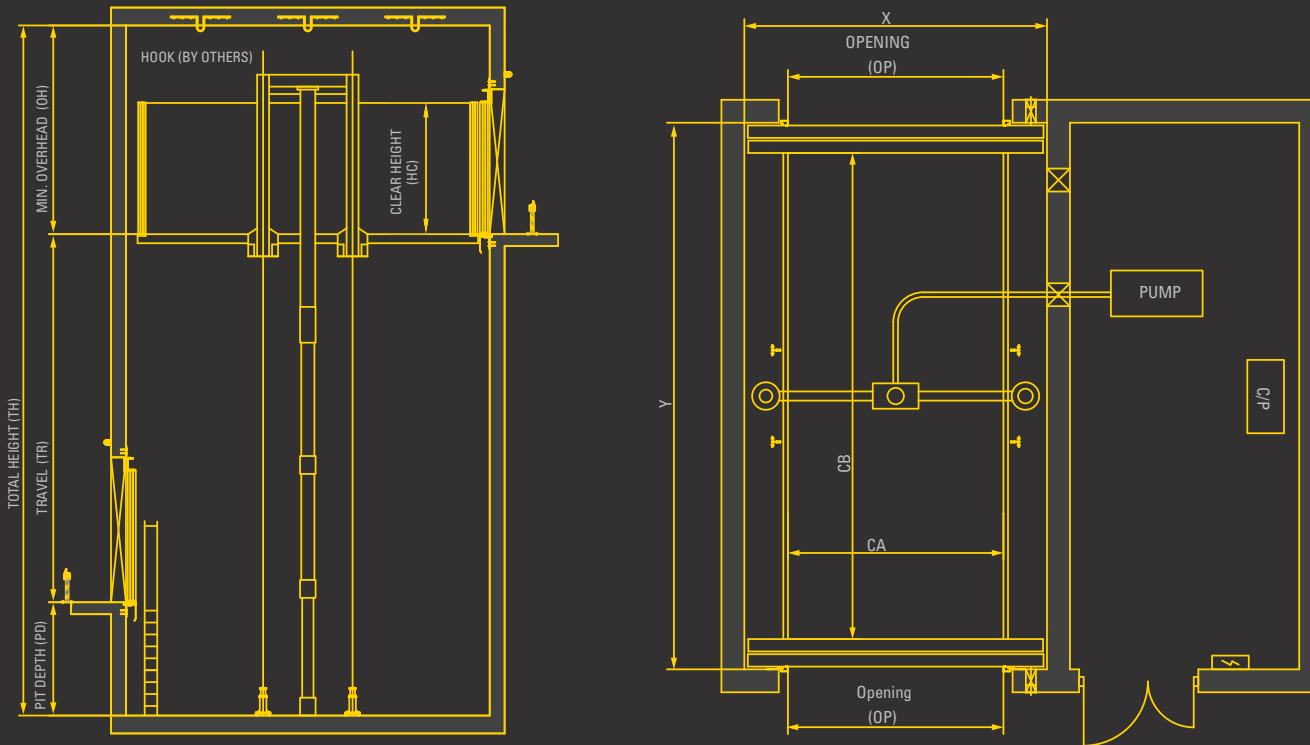
VEHICLE LIFT - N5000-H

Direct Acting Hydraulic

TABLE :::: CENTER OPENING STANDARD DIMENSIONS (units: mm)

Capacity KG	Number of Ram	Speed (m/s)	Clear Opening (mm)	Car Inside	Hoistway	Min. Overhead OH (mm)	Clear Height HC (mm)	Min. Pit PD (mm)
				CA x CB	X x Y			
2500	2	0.3/0.5	2350	2350×5310	3300×5970	3500	2200	Depend on actual travel height
3000	2	0.3/0.5	2400	2400×6250	3400×6910	3500	2200	
5000	2	0.3/0.5	3000	3000×8300	4200×8960	3500	2200	
6000	4	0.3/0.5	3100	3100×9600	4300×10260	3500	2200	

DIAGRAM :::: VEHICLE LIFT



SPECIAL LIFTS

CANTILEVERED HOME LIFT - N1300-R

2:1

DIAGRAM :::: HOISTWAY PLAN

Top Floor (with control panel) Center Opening

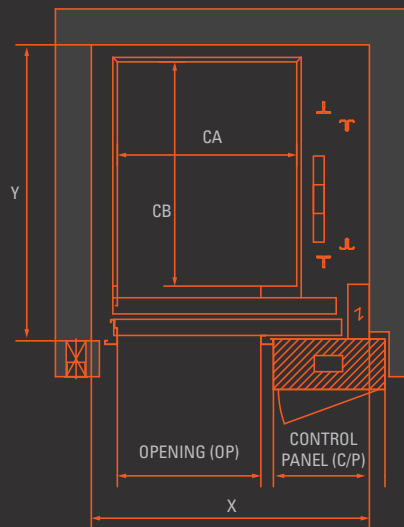


DIAGRAM :::: HOISTWAY PLAN

Other Floors

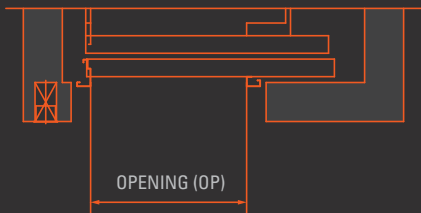


DIAGRAM :::: HOISTWAY SECTION

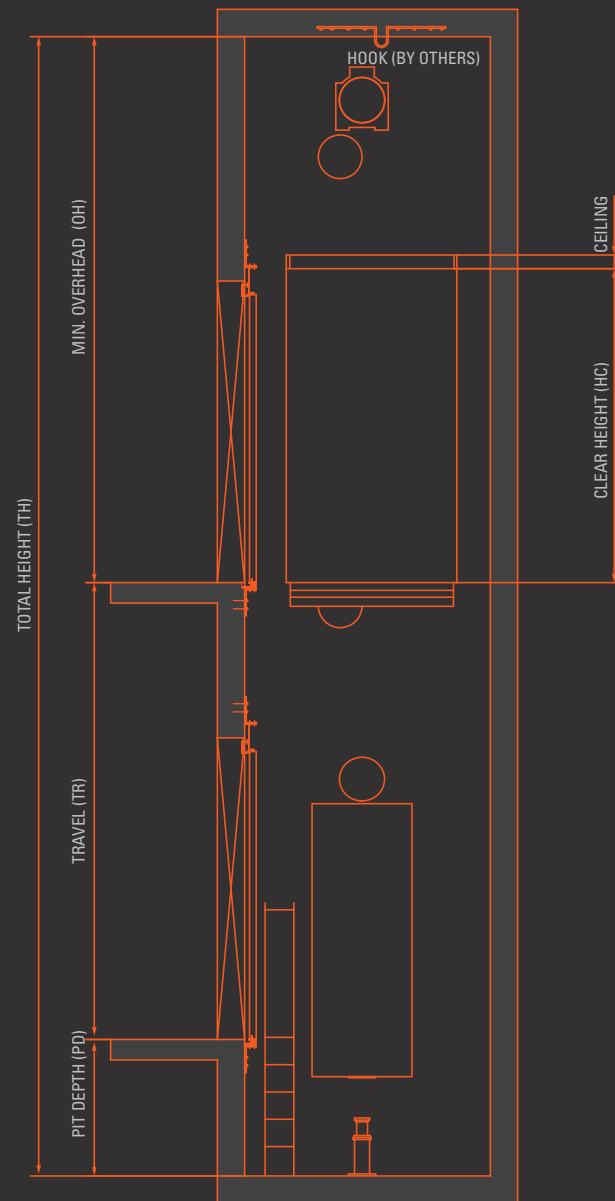


TABLE :::: STANDARD DIMENSIONS (units: mm)

Capacity		Speed (m/s)	Max Clear Opening (mm)	Car Inside CA x CB	Hoistway X x Y	Min. Overhead OH (mm)	Min. Pit PD (mm)	Clear Height HC (mm)
KG	Persons							
225	3	0.5/0.75/1.0	600 (SO)	650x1100	1200x1450	3600	1050	2200
320	4	0.5/0.75/1.0	700 (SO)	850x1100	1350x1450	3600	1050	2200
450	6	0.5/0.75/1.0	800 (SO)	1000x1250	1550x1650	3600	1050	2200

CANTILEVERED MRL - N1300

1:1

TABLE :::: STANDARD DIMENSIONS (units: mm)

Capacity		Speed (m/s)	Max Clear Opening (mm)	Car Inside	Hoistway	Min. Overhead OH (mm)	Min. Pit PD (mm)	Clear Height HC (mm)
KG	Persons			CA x CB	X x Y			
630	8	0.75/1.0	800 (SO)	1150x1400	1800x1800	3700	1100	2200
800	10	0.75/1.0	900 (SO)	1400x1400	2050x1800	3700	1100	2200
1000	13	0.75/1.0	900 (CO)	1500x1550	2150x1900	3700	1100	2200

DIAGRAM :::: HOISTWAY PLAN
Top Floor (with control panel)

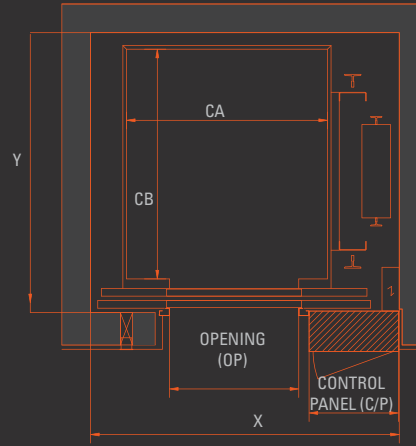


DIAGRAM :::: HOISTWAY PLAN
Other Floors (center opening)

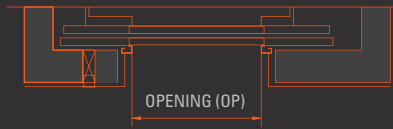


DIAGRAM :::: HOISTWAY PLAN
Other Floors (side opening)

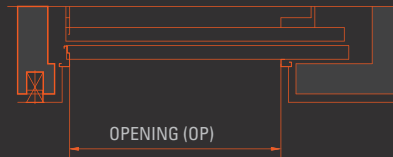
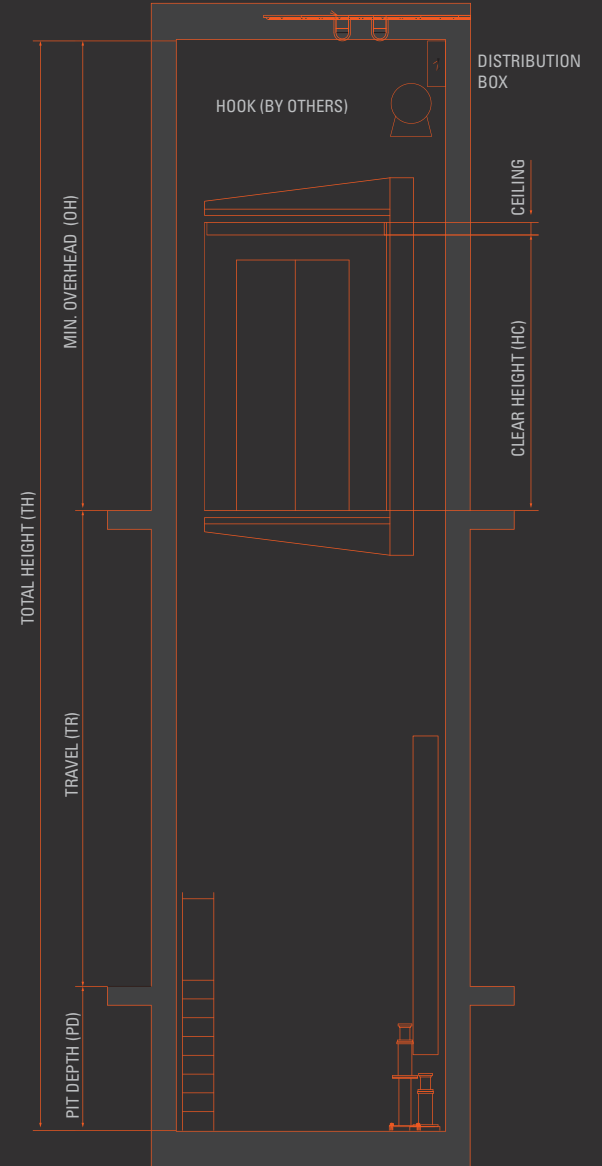


DIAGRAM :::: HOISTWAY SECTION



CANTILEVERED MRL - N1300

2:1

DIAGRAM :::: HOISTWAY PLAN
Top Floor (with control panel)

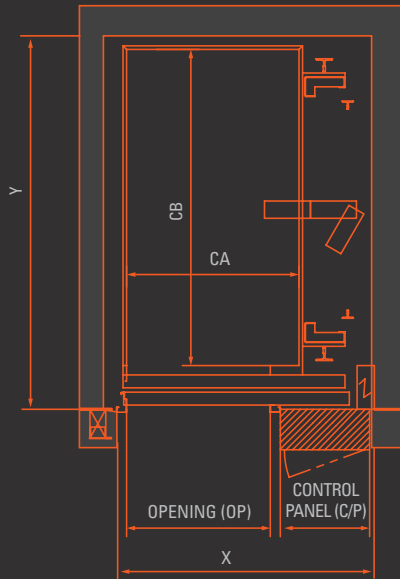


DIAGRAM :::: HOISTWAY PLAN
Other Floors



DIAGRAM :::: HOISTWAY SECTION

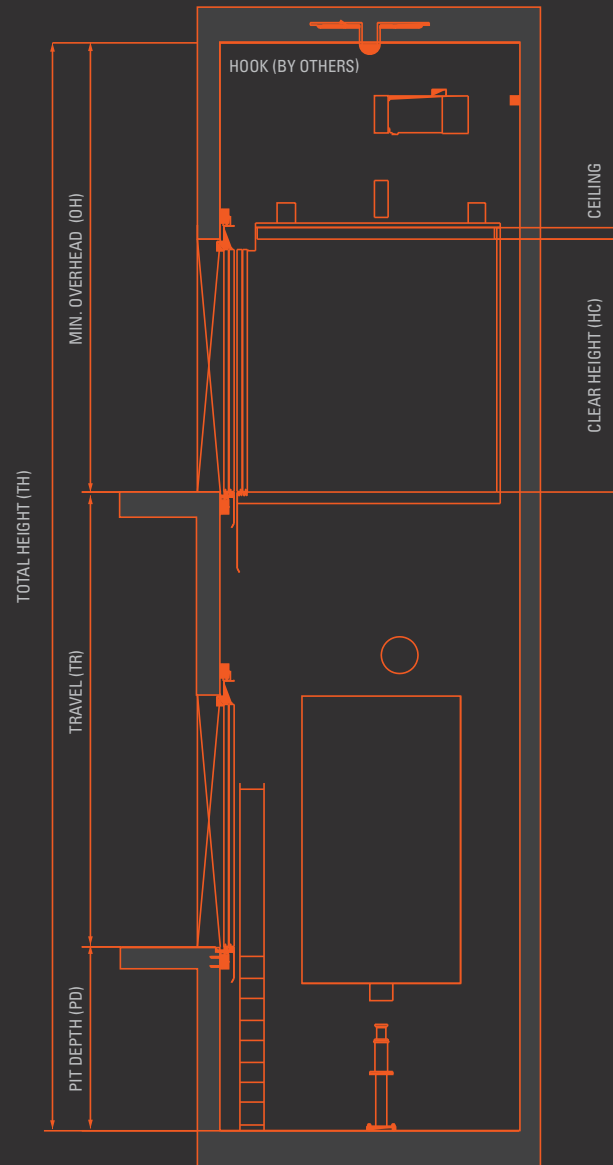


TABLE :::: STANDARD DIMENSIONS (units: mm)

Capacity		Speed (m/s)	Max Clear Opening (mm)	Car Inside	Hoistway	Min. Overhead OH (mm)	Min. Pit PD (mm)	Clear Height HC (mm)
KG	Persons			CA x CB	X x Y			
1150	15	0.75/1.0	1000 (S0)	1200x2200	1850x2600	3850	1250	2200
1250	16	0.75/1.0	1000 (S0)	1300x2200	1950x2600	3850	1250	2200
1350	18	0.75/1.0	1000 (S0)	1400x2200	2050x2600	3850	1250	2200

CLASS C MRL GOODS LIFT - N3300-F

2:1

TABLE :::: CENTER OPENING STANDARD DIMENSIONS (units: mm)

Capacity		Speed m/s	Max Clear Opening	Car Inside	Hoistway
KG	Persons			CA x CB	X x Y
1600	21	0.5/0.8	1500 (2CO)	1750×2000	2700×2500
2000	26	0.5/0.8	1600 (2CO)	2000×2100	2950×2600

Speed m/s	Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel TR (m)
0.5	4000	1400	25
0.8	4000	1400	36

1. HC=2350 (Clear Height)

DIAGRAM :::: HOISTWAY PLAN

Top Floor (with control panel) Center Opening

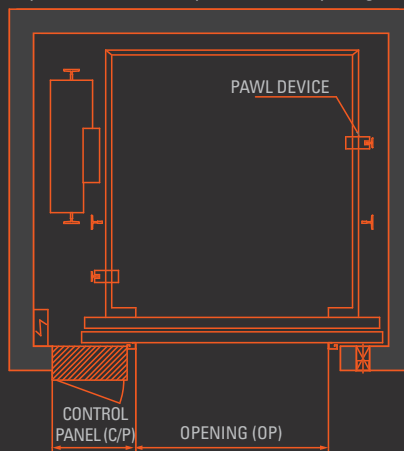


DIAGRAM :::: HOISTWAY PLAN

Other Floors

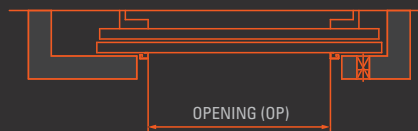
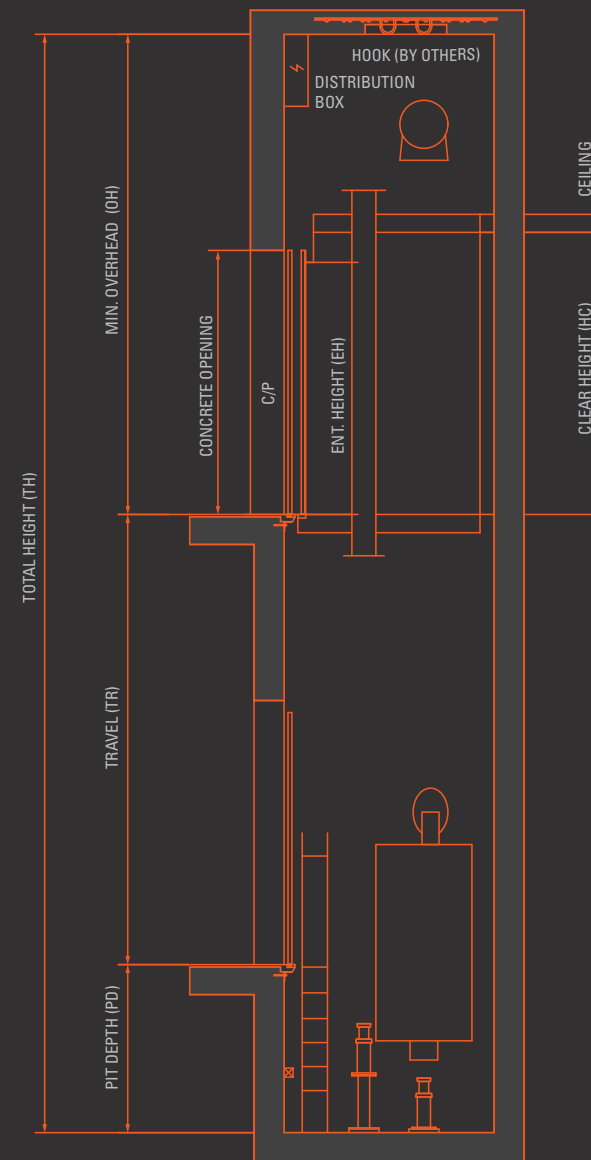


DIAGRAM :::: HOISTWAY SECTION



CLASS C MRL GOODS LIFT - N3300-F

4:1

DIAGRAM :::: HOISTWAY PLAN
Top Floor (with control panel) Center Opening

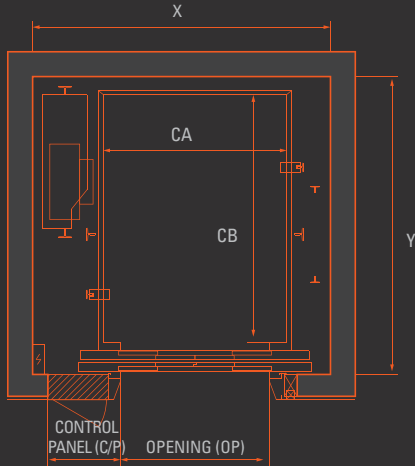


DIAGRAM :::: HOISTWAY PLAN
Other Floors

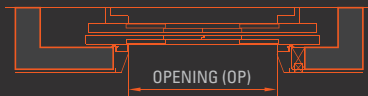


DIAGRAM :::: HOISTWAY SECTION

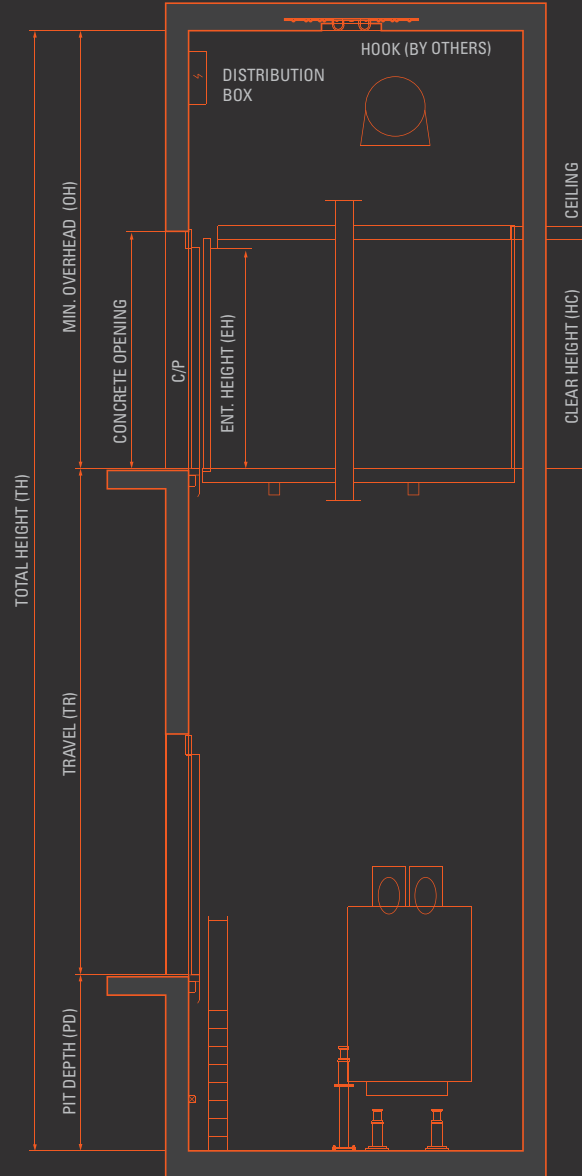


TABLE :::: CENTER OPENING STANDARD DIMENSIONS (units: mm)

Capacity		Speed m/s	Max Clear Opening	Car Inside	Hoistway
KG	Persons			CA x CB	X x Y
2500	33	0.5/0.8	1600 (2CO)	2000x2500	3150x3000
3000	40	0.5/0.8	1600 (2CO)	2050x2800	3200x3300
4000	53	0.5/0.8	1800 (2CO)	2500x2900	3750x3400
5000	66	0.5/0.8	2000 (2CO)	2900x3100	4150x3600

Capacity KG	Speed m/s	Min. Overhead OH (mm)	Min. Pit PD (mm)	Max Travel TR (m)
2500/3000	0.5/0.8	4000	1600	25/45
4000	0.5/0.8	4000	1800	25/45
5000	0.5/0.8	4300	1800	25/45

1. HC=2350 (Clear Height)

ESCALATORS

30° ESCALATOR - N4000-300

TABLE :::: CENTER OPENING STANDARD DIMENSIONS (units: mm)

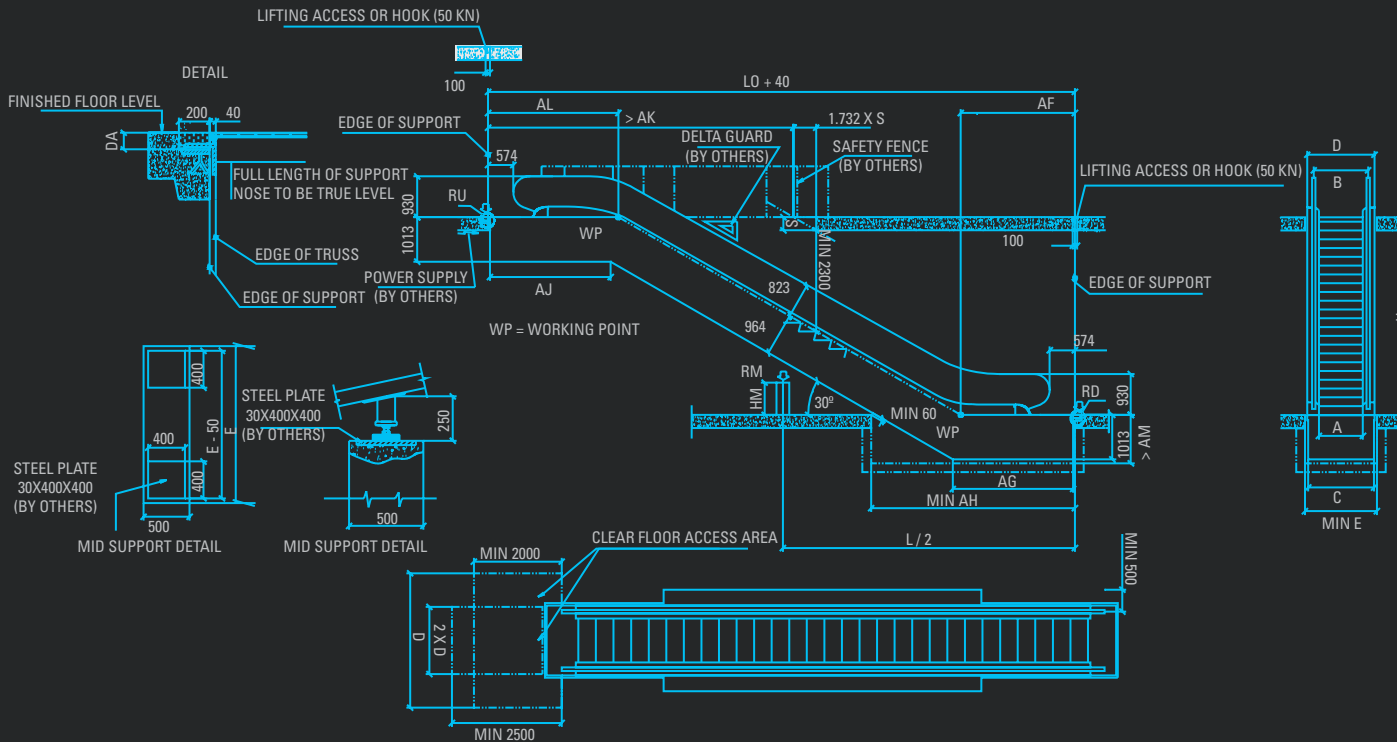
H (rise in mm)	Flat Steps	A	B	C	D	E	AF	AG	AH	AJ	AK	AL	L	AM	DA
6000 to 8000	3	800	1031	1300	1330	1440	2599	2740	4640	2744	6950	2966	1.732H + 5565	In-/Outdoor Model A 1103	No rubber shock absorber 108
		1000	1231	1500	1530	1640									
3000 to 6000	2	600	837	1100	1130	1240	2199	2340	4240	2844	7050	3066	1.732H + 5265	Outdoor Model B with oil separator 1353	Rubber shock absorber 128
		800	1031	1300	1330	1440				2344	6550	2566	1.732H + 4765		
		1000	1231	1500	1530	1640									

TABLE :::: CENTER

Step Width mm	Support Point	2 Supports	3 Supports
1000	RU	4.96L + 17.0	2.3L + 13.6
	RD	4.96L + 10.0	2.3L + 7.1
	RM	N/A	7.16L + 4.9
800	RU	4.31L + 18.0	2.02L + 6.8
	RD	4.31L + 10.0	2.02L + 6.8
	RM	N/A	6.33L + 4.8
600	RU	3.66L + 27.0	N/A
	RD	3.66L + 22.0	N/A

TABLE :::: CENTER

Type	Step Width mm	Max Height m	Power kW	Speed m/s
KM H1	1000	5.0	7.5	0.5
	800	6.0	9.5	0.5
	600	6.0	7.5	0.5
KM 160	1000	4.7	7.5	0.5
		6.0	9.0	0.5
		6.9	11.0	0.5
	800	8.3	13.0	0.5
		6.0	7.5	0.5
		7.6	9.0	0.5
600	9.0	11.0	0.5	
600	6.0	7.5	0.5	

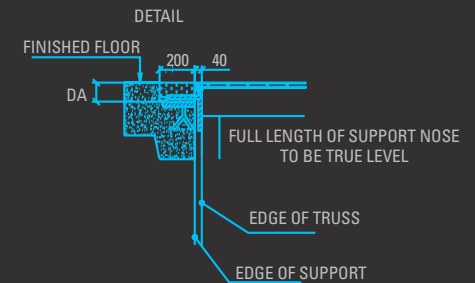
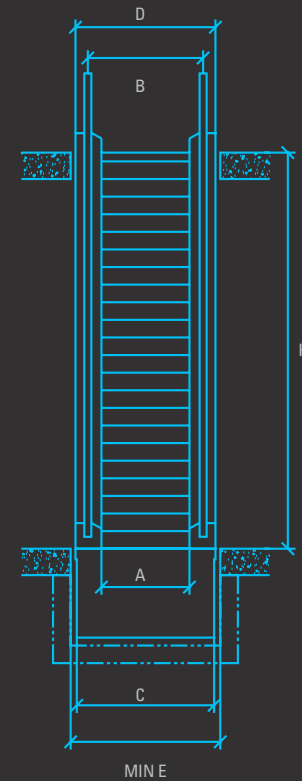
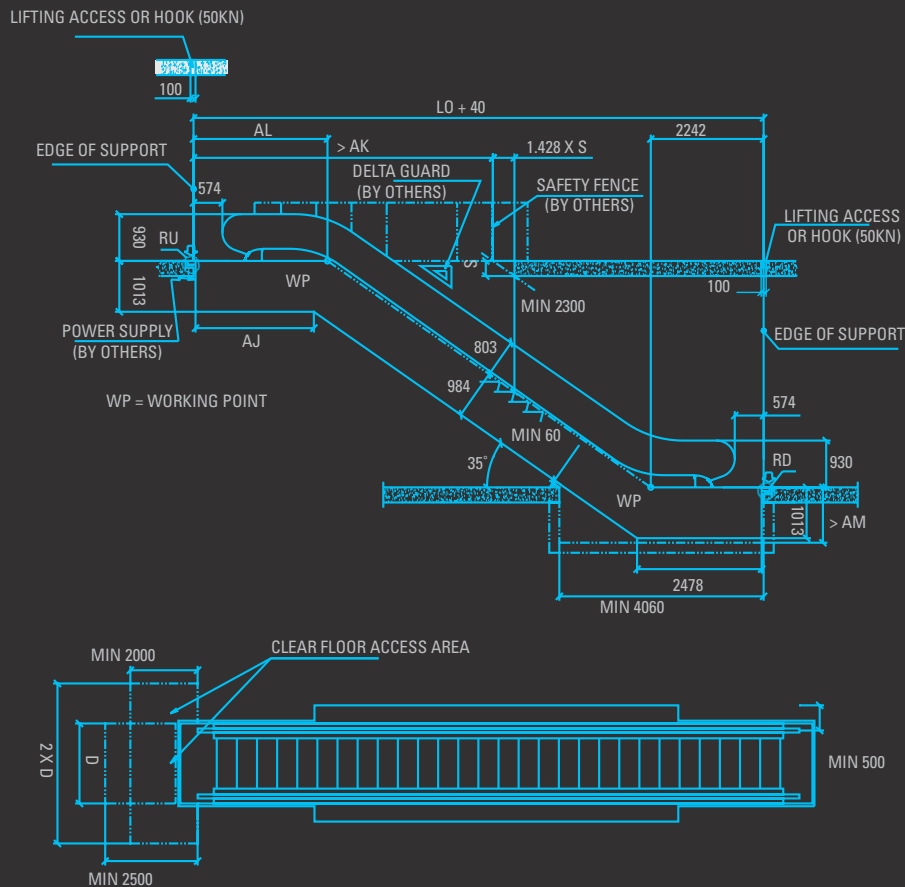


35° ESCALATOR - N4000-350

Step Width mm	Support Point	2 Supports
1000	RU	5.11L + 13
	RD	5.11L + 5
800	RU	4.41L + 15
	RD	4.41L + 9
600	RU	3.76L + 18
	RD	3.76L + 12

A	B	C	D	E	AJ	AK	AL	L	AM	DA
600	837	1100	1130	1240	2844	6450	3163	1.428H + 5405	In- / Outdoor Model A 1103	No rubber shock absorber 108
800	1031	1300	1330	1440	2344	5950	2663	1.428H + 4905	Outdoor Model B with oil separator 1353	Rubber shock absorber 128
1000	1231	1500	1530	1640						

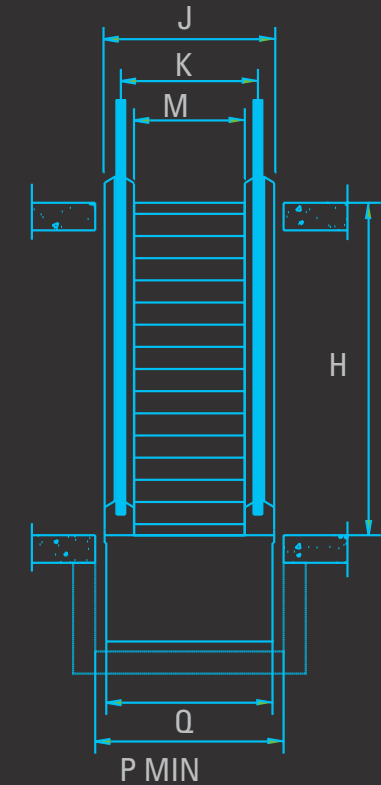
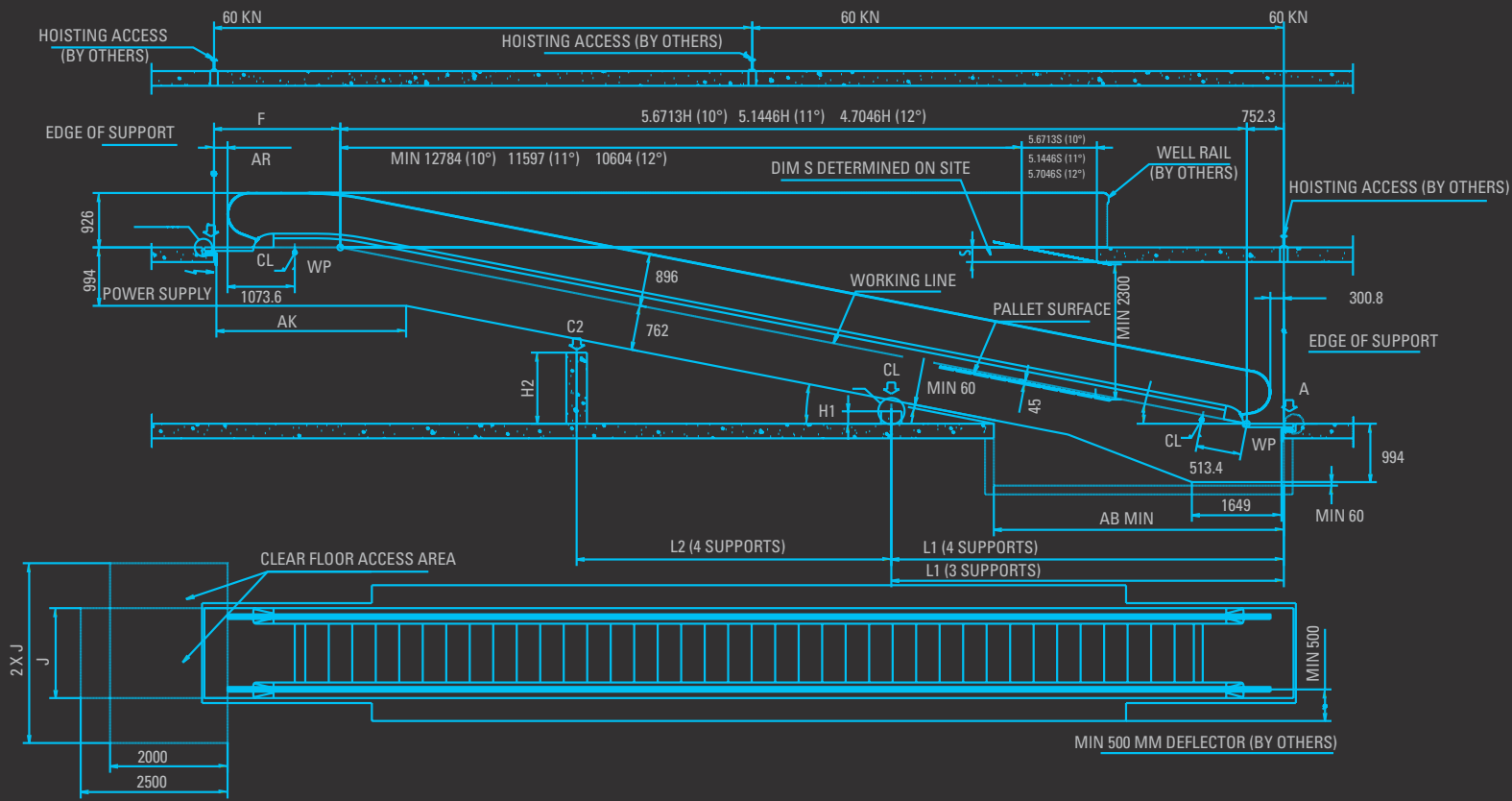
Type	Step Width mm	Max Height m	Power kW	Speed m/s
KM H1	1000	5.1	7.5	0.5
		6.0	9.5	0.5
	800	6.0	7.5	0.5
KM 160	1000	4.7	7.5	0.5
		6.0	9.0	0.5
	800	6.0	7.5	0.5
	600	6.0	7.5	0.5



MOVING WALK - N8000

Angle	D	AR	AK	AB	F	Q	Pmin	M	K	J	Pallet Width
12°	$(4.7046H + 2937.8) \text{ }^{+40}_0$	304.8	3262	4362.8	2185.8	1300	1430	805	1037	1330	800
						1500	1630	1007	1237	1530	1000
11°	$(5.1446H + 2901.8) \text{ }^{+40}_0$	300.8	3230	5060.3	2149.8	1300	1430	805	1037	1330	800
						1500	1630	1007	1237	1530	1000
10°	$(5.6713H + 2865.8) \text{ }^{+40}_0$	296.8	3198	5587.8	2113.8	1300	1430	805	1037	1330	800
						1500	1630	1007	1237	1530	1000

Pallet Width mm	Point	2 Supports	3 Supports	4 Supports
1000	C2	N/A	N/A	3.45D + 5.2
	C1	N/A	6.1D + 4.2	3.45D + 5.0
	B	4.9D + 14.0	2.2D = 14.0	1.5D + 15.0
	A	4.9D + 6.2	2.2D + 5.0	1.5D + 6.0
800	C2	N/A	N/A	3.1D + 10.0
	C1	N/A	4.25D + 18.0	3.1D + 9.2
	B	4.25D + 18.0	1.9D + 17.0	1.3D + 17.0
	A	4.25D + 8.2	1.9D + 8.0	1.3D + 9.0



WP = WORKING POINT
CL = COMB LINE

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