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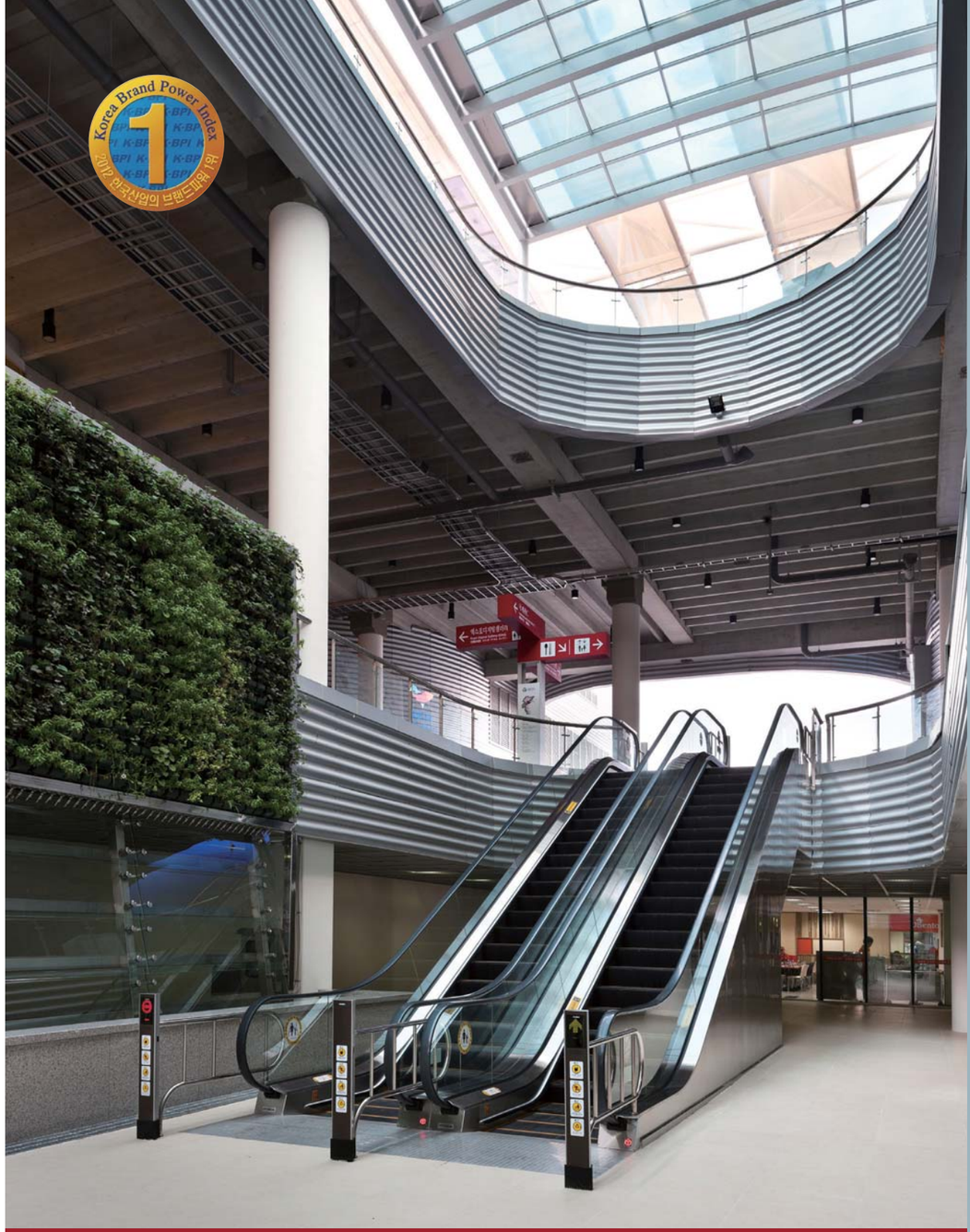


ESCALATORS & MOVING WALKS

Moving solutions with safety, reliability and efficiency

HYUNDAI ELEVATOR

HYUNDAI Escalators and Moving Walks

Hyundai escalators and moving walks are an outstanding class of people moving systems. They offer a streamlined touch of styling and proficiency while addressing the very latest in safety concerns. Their compact design allows them to be placed in minimum sized wellways and that provides you with the flexibility you need to make the most efficient use of your valuable building space. Our complete line up includes the New-world Class, H-series escalators and pallet type moving walks. One of them will be the ideal answer to your pedestrian-traffic needs.

CONTENTS

Yeosu EXPO, Korea

Kumar Pacific Mall
India

Court House
Turkey

Inorbit Mall
India

Incheon International Airport
Korea

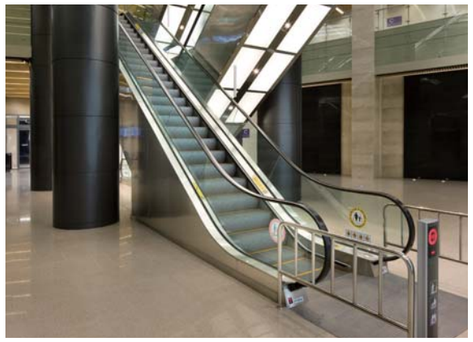
SM Mall Of Asia
Philippines

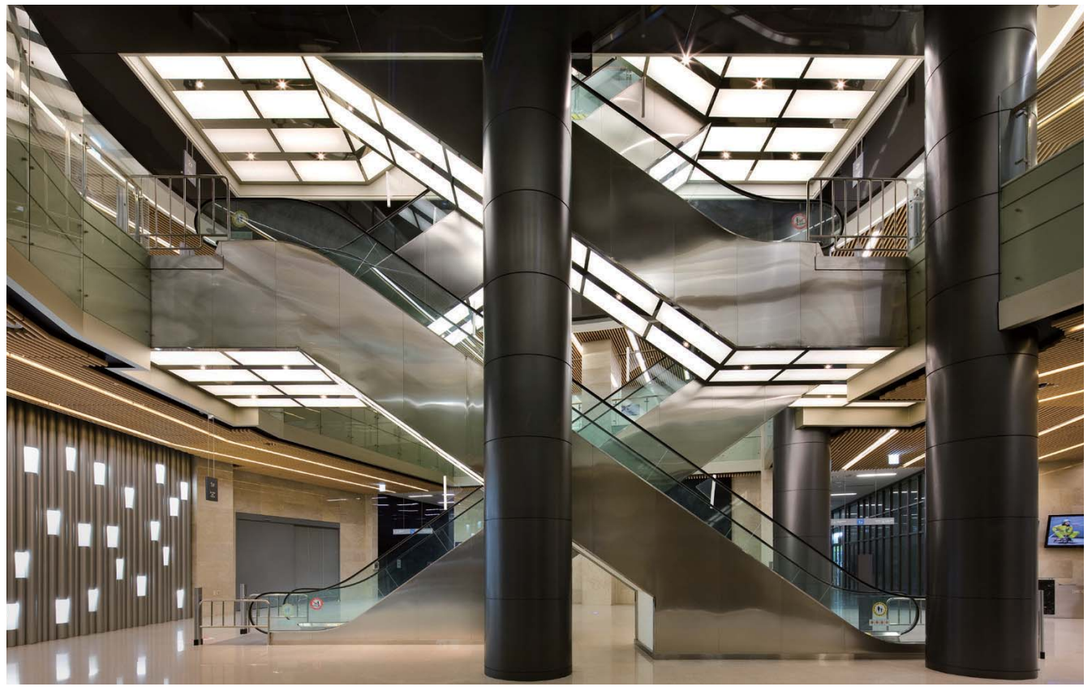
Kemang Village
Indonesia

Ulker Arena Sports Center
Turkey

New - World Class Escalators

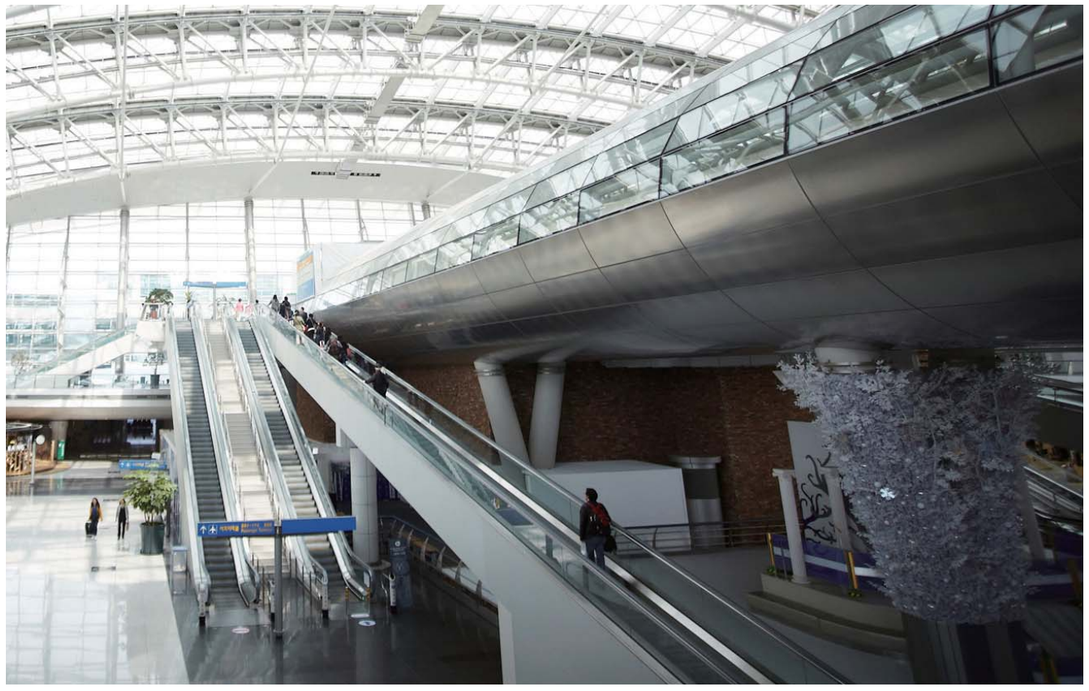
The New - World Class Escalator is a conventional system with a single drive station installed at the top of the truss, allowing for a smooth and compact design that maximizes space efficiency. Appropriate for use in hotels, shopping centers, banks, office buildings, etc.





H-Series Escalators

H-Series Escalators are designed for installation in subway stations, multi-sports complexes, and mammoth conference halls or airports. It has also been used to move people outside while protecting them from snowfall rain and wind. The H-Series Escalators meet standards set by the American Society of Mechanical Engineers (ASME) and European Norm(EN).
(Applicable Vertical Rise : 10500 ~ 15000mm)

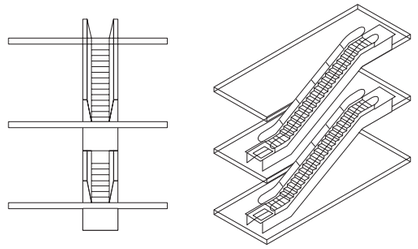


Moving Walks

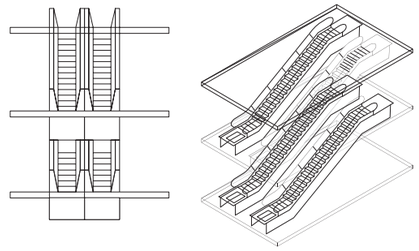
Hyundai moving walks are available in horizontal, inclined design within 12 degree or in combined design and are widely applicable to various buildings and facilities such as supermarkets, subways and railroad stations, sports stadiums, department stores, and so on. They offer a new dimension of convenience, satisfaction and excitement for the customers and passengers.

Arrangement Type for Escalators and Moving Walks

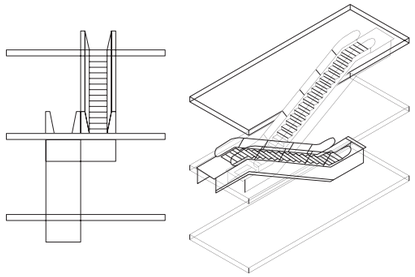
Single



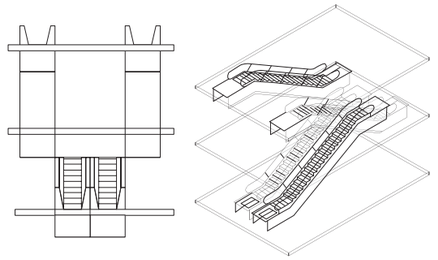
Parallel



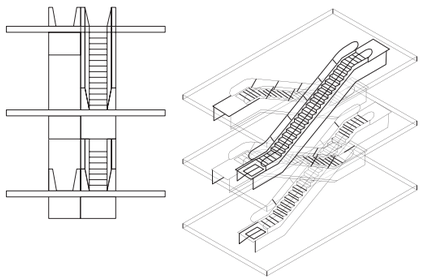
Scissors



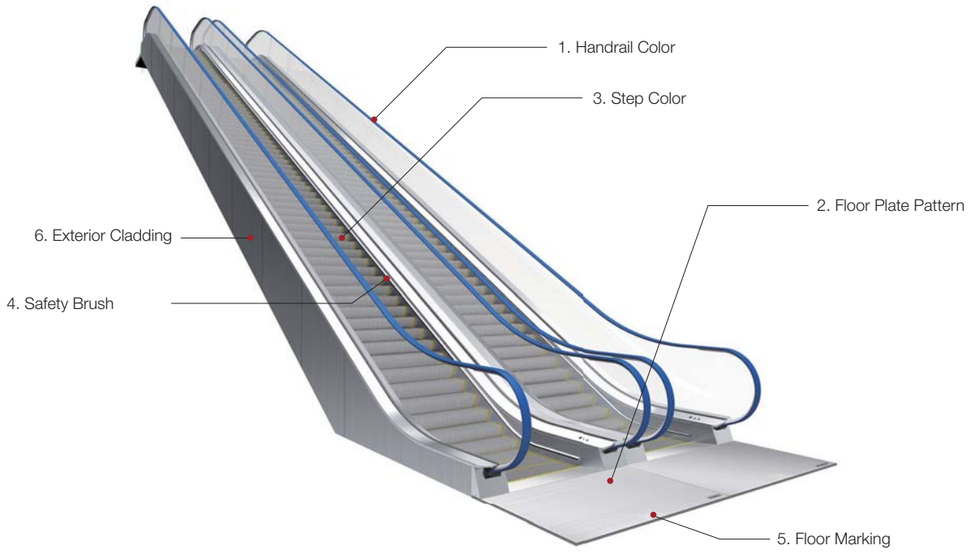
Double Scissors

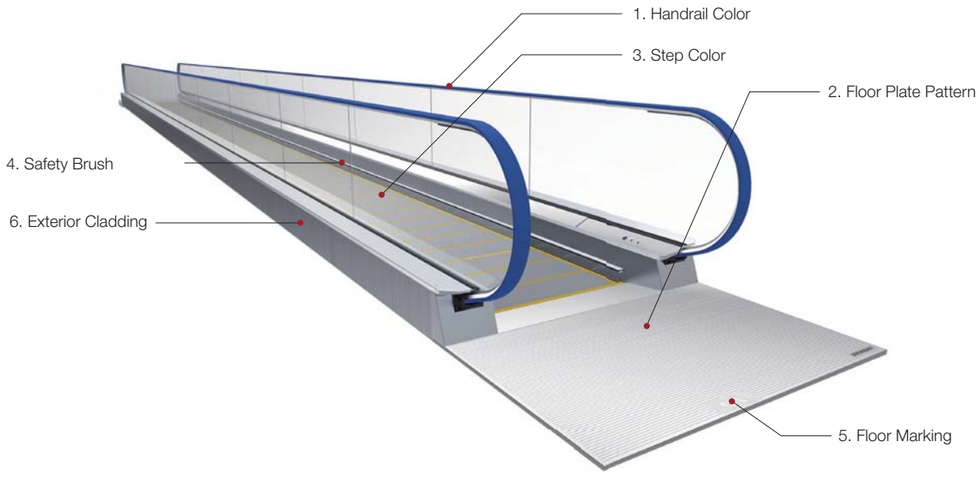


Criss Cross



Structure (Escalator & Moving Walk)

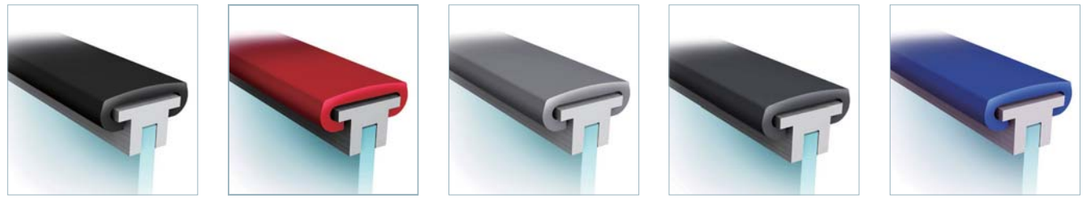




Note : Applicable prices will vary per selected optional features/designs.

Optional Features

1. Handrail Color — Check

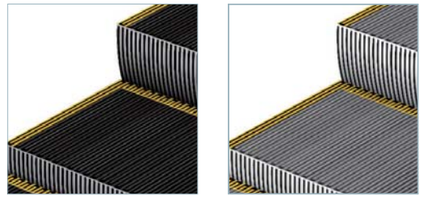


Black (Standard) | Red | Gray | Dark Gray | Blue

2. Floor Plate Pattern — Check

ES-205 (Standard) | ES-207 (Standard) | ES-203 | ES-208 | ES-209

3. Step Color — Check



Black (Standard) | Gray

4. Safety Brush — Check

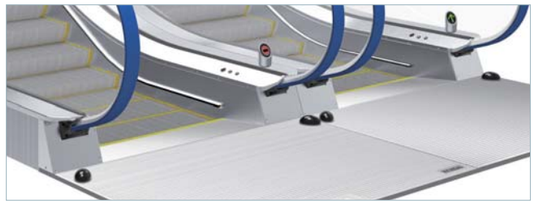
Promoting passenger safety by gently guiding passengers away from skirt.

5. Floor Marking — Check

6. Exterior Cladding (By Others)

- Stainless Steel
- Painted Steel

7. Auto start-stop function(Radar sensor), Direction indicator — Check



8. Under Handrail Lighting — Check

BT type can be applied

Specification (Escalator & Moving Walk)

Escalator

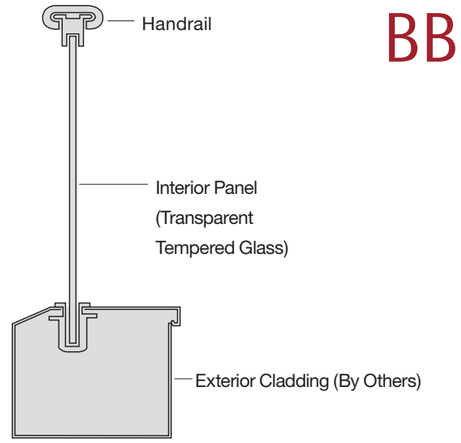
Model	New World Class (NW–BT, NW–BB)			H–series (HA–BT, HA–BB / HD–BT, HD–BB)					
Type	800	1000	1200	800	1000	1200	800	1000	1200
Vertical Rise H(mm)	2046~10500(35°:2046~6000)			10500~15000			15000~20000		
Inclination	30°/35°			30°					
Power Supply	AC 3PH, 380V, 50/60HZ								
Lighting Power Supply	AC 1PH, 220V, 50/60HZ								
Rated Speed	30m/min								
Control System	AC1(Optional: VVVF Control)								
Operation System	Key Switch Reversible Operation(Optional : Automatic Operation)								
Transport Capacity (persons/hr)	3600	4800	6000	3600	4800	6000	3600	4800	6000
Step Width(mm)	588/606	807	1008	588	807	1008	602	801	1001
Skirt Distance(mm)	594/612	813	1014	594	813	1014	608	807	1007
EscalatorWidth(mm)	1130/1150	1350	1550	1330	1549	1750	1300	1500	1700
Handrail Center Distance(mm)	837/855	1056	1257	986	1205	1406	965	1164	1364
Truss Width(mm)	1080/1100	1300	1500	1280	1499	1700	1250	1450	1650

Moving Walk

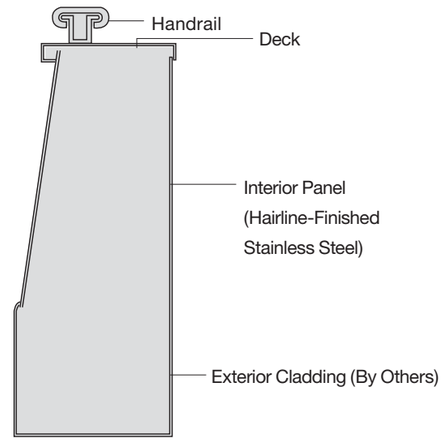
Model	NPM–BT	
Type	1000	1200
Vertical Rise H(mm)	10000(0°)/7000(12°)	
Inclination	0°/12°	
Power Supply	AC 3PH, 380V, 50/60HZ	
Lighting Power Supply	AC 1PH, 220V, 50/60HZ	
Rated Speed	30m/min	
Control System	AC1(Optional: VVVF Control)	
Operation System	Key Switch Reversible Operation(Optional : Automatic Operation)	
Transport Capacity (persons/hr)	4800	6000
Skirt Distance(mm)	800	1000
Escalator Width(mm)	1350	1550
Handrail Center Distance(mm)	1057	1257
Truss Width(mm)	1300	1500

Balustrade Designs

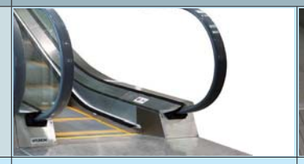
BT



BB



Design Type

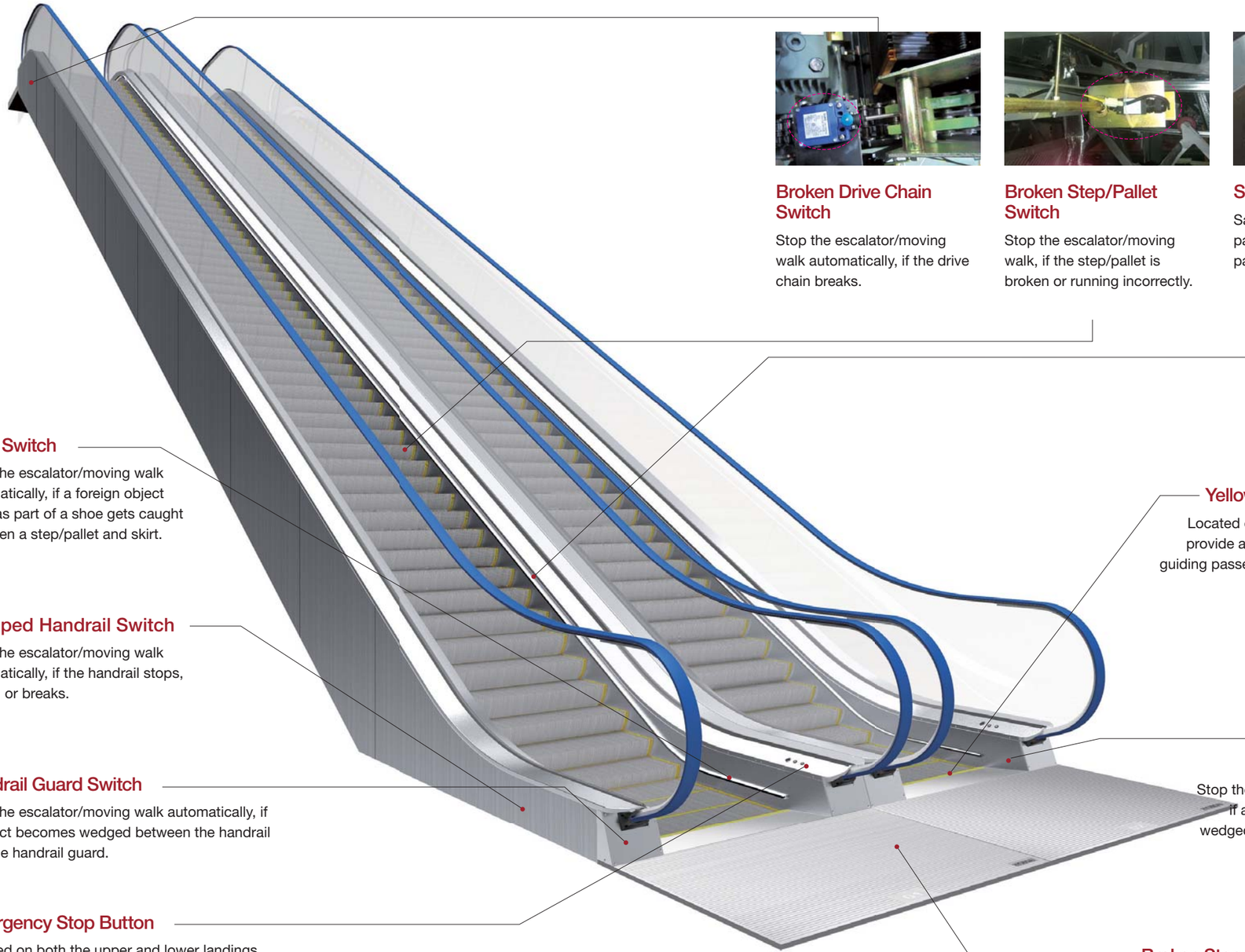
Type		BT		BB
Designs				
Model	New World Class	O		O
	H–Series	O		O
	New Moving Walk		O	

Design Specification

Name of Part		BT	BB
Balustrade	Interior Panel	Transparent Tempered Glass	Hairline–Finished Stainless Steel
	Deck	Hairline–Finished Stainless Steel	
	Skirt Panel	Hairline–Finished Stainless Steel	
	Handrail	Black (Optional : 9 page)	
Step	Step	Aluminum Die Casting, Hairline–Finished Stainless Steel	
	Demarcation	Yellow molded safety inserts on 3 sides	
Comb		Yellow Synthetic Resin (Optional : Aluminum)	
Floor Plate		Stainless steel plate with anti–slip grooves	
Exterior Cladding		By Others	

Safety Device

Safety is a essential value of Hyundai Elevator.

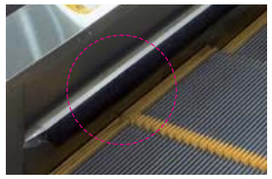


Broken Drive Chain Switch

Stop the escalator/moving walk automatically, if the drive chain breaks.

Broken Step/Pallet Switch

Stop the escalator/moving walk, if the step/pallet is broken or running incorrectly.



Safety Brush

Safety brushes promote passenger safety by gently guiding passengers away from skirt.

Skirt Switch

Stop the escalator/moving walk automatically, if a foreign object such as part of a shoe gets caught between a step/pallet and skirt.

Stopped Handrail Switch

Stop the escalator/moving walk automatically, if the handrail stops, slides, or breaks.

Handrail Guard Switch

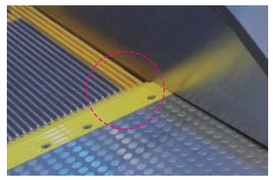
Stop the escalator/moving walk automatically, if a object becomes wedged between the handrail and the handrail guard.

Emergency Stop Button

Located on both the upper and lower landings and mounted on newel skirt or newel deck. Pressing the red button will safely stop the escalator if it's needed.

Yellow Demarcation Line

Located on each step, these lines provide additional visual safety by guiding passengers away from edges.



Comb Plate Switch

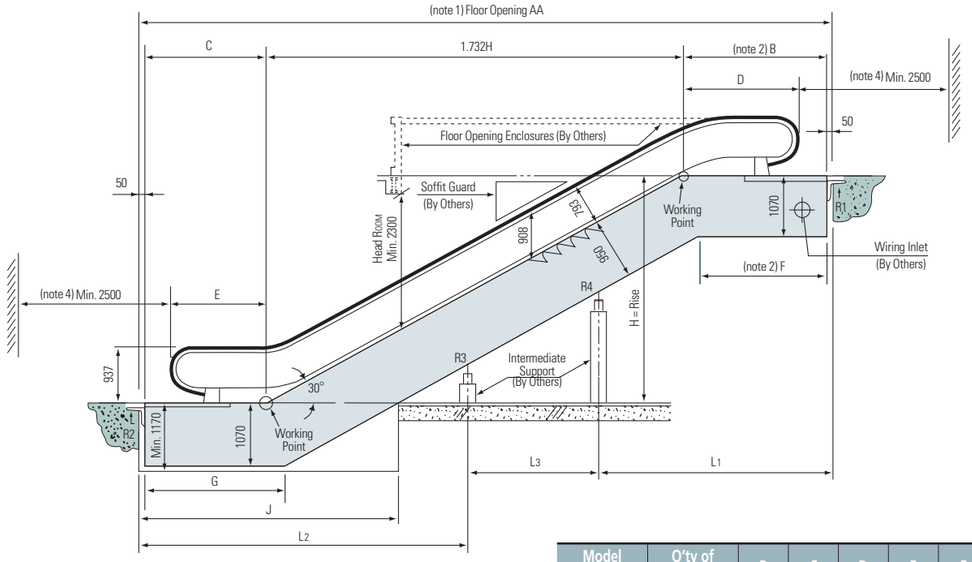
Stop the escalator/moving walk, if a foreign object becomes wedged between the comb and steps/pallets.

Broken Step/Pallet Chain Switch

Stop the escalator/moving walk automatically, if the step chain stretches or breaks.

NEW WORLD CLASS ESCALATORS(30°)

NW-BT, NW-BB



Notes :
1. AA = 1.732×H + B + C + 100
   When maximum floor opening exceeds AA=14,836mm, intermediate support(s) are required. Consult Hyundai for the intermediate support data.
2. In case inverter system is applied, dimension B,F shall increase 500mm. (except 800type)
3. When vertical rise is over 6000mm, 3-flat step is applied.
4. Dimension between the end of handrail to the wall ; Min. 2500mm.
5. Dimensions are based on EN115.
6. Vertical Rise H ≦ 10.5m.
7. In case vertical rise 9 < H ≤ 10.5 is applied, dimension B,F shall increase 500mm.
8. In case 800type is applied, dimension B,F shall increase 500mm.

Model (Inclination)	Q'ty of Flat Step	B	C	D	E	F	G	J
NW-BT NW-BB	2	2560	2230	1820	1490	2511	2118	4500
	3	2967	2637	2227	1897	2918	2525	4910

Section Dimensions

(Unit : mm)

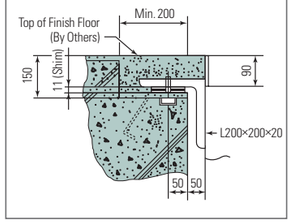
Type	NW800	NW1000	NW1200
W1	612	813	1014
W2	855	1056	1257
W3	1150	1350	1550
W4	1100	1300	1500
W5	1250	1450	1650

Reactions

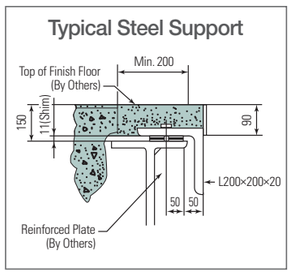
(Unit : kg)

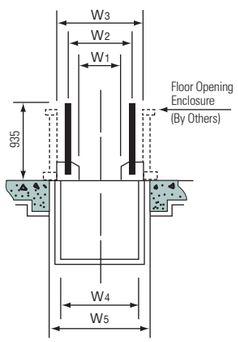
Type	NW800			
Rise H (mm)	H ≦ 6000	5000 ≦ H ≦ 7600	7600 ≦ H ≦ 10500	
Number of Intermediate Support	-	1	1	2
R1	0.65H + 2300	0.36L1 + 900	0.36L1 + 1100	0.36L1 + 1100
R2	0.65H + 1600	0.36L2 + 300	0.36L2 + 400	0.36L2 + 450
R3	-	0.36(L1 + L2) + 450	0.36(L1 + L2) + 700	0.36(L2 + L3) + 250
R4	-	-	-	0.36(L1 + L3) + 600
Type	**NW1000**			
Rise H (mm)	H ≦ 6000	5000 ≦ H ≦ 7600	7600 ≦ H ≦ 10500	
Number of Intermediate Support	-	1	1	2
R1	0.72H + 2600	0.41L1 + 900	0.41L1 + 1100	0.41L1 + 1100
R2	0.72H + 1900	0.41L2 + 300	0.41L2 + 400	0.41L2 + 450
R3	-	0.41(L1 + L2) + 450	0.41(L1 + L2) + 700	0.41(L2 + L3) + 250
R4	-	-	-	0.41(L1 + L3) + 600
Type	**NW1200**			
Rise H (mm)	H ≦ 6000	5000 ≦ H ≦ 7600	7600 ≦ H ≦ 10500	
Number of Intermediate Support	-	1	1	2
R1	0.78H + 2900	0.45L1 + 1000	0.45L1 + 1250	0.45L1 + 1250
R2	0.78H + 2200	0.45L2 + 300	0.45L2 + 450	0.45L2 + 500
R3	-	0.45(L1 + L2) + 500	0.45(L1 + L2) + 750	0.45(L2 + L3) + 300
R4	-	-	-	0.45(L1 + L3) + 650

Typical Concrete Support



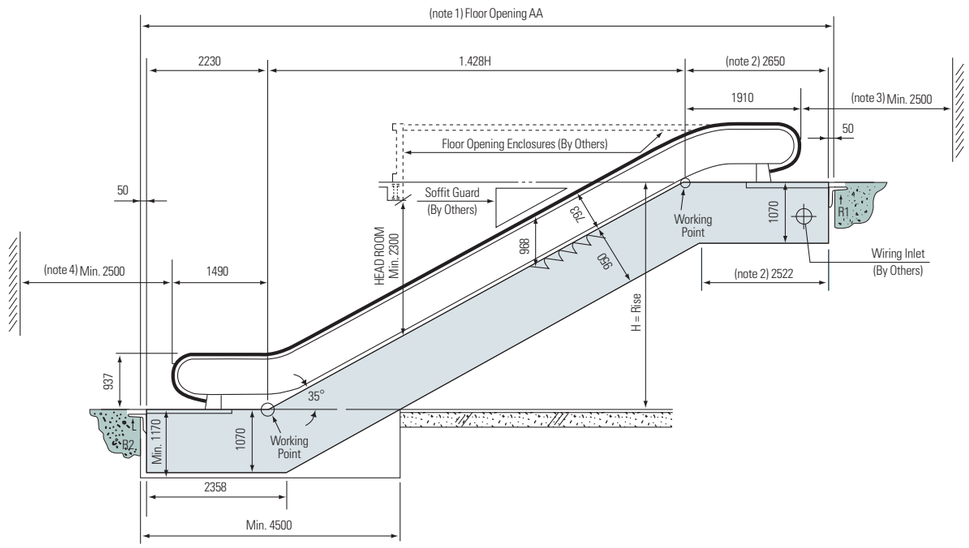
Typical Steel Support





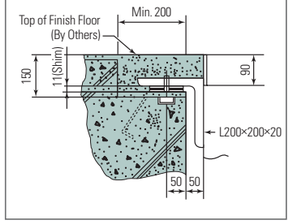
NEW WORLD CLASS ESCALATORS(35°)

NW-BT, NW-BB

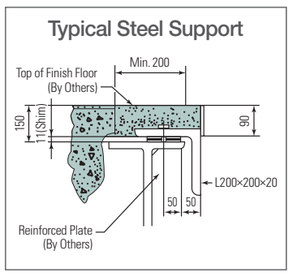


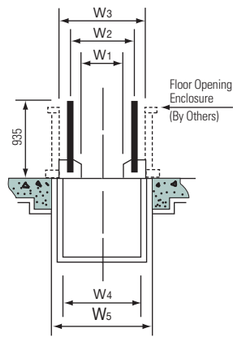
Notes :
1. AA = 1.428×H + 2650 + 2230 + 100
   When maximum floor opening exceeds AA=13,500mm, intermediate support(s) are required. Consult Hyundai for the intermediate support data.
2. In case inverter system is applied, dimension 2650, 2522 shall increase 500mm. (except 800type)
3. Dimension between the end of handrail to the wall ; Min. 2500mm.
4. Dimensions are based on EN115.
5. Vertical Rise H ≦ 6m.
6. In case 800type is applied, dimension 2650, 2522 shall increase 500mm.

Typical Concrete Support



Typical Steel Support





Section Dimensions

(Unit : mm)

Type	NW800	NW1000	NW1200
W1	612	813	1014
W2	855	1056	1257
W3	1150	1350	1550
W4	1100	1300	1500
W5	1250	1450	1650

Reactions

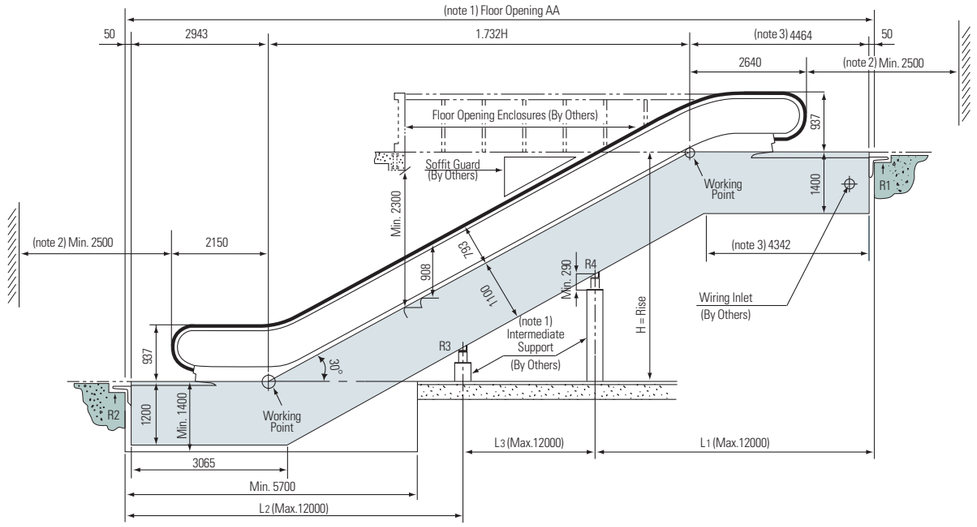
(Unit : kg)

Vertical Rise H(mm)	Reactions	ML800	ML1000	ML1200
3000 ~6000	R1	0.51H + 2400	0.59H + 2700	0.66H + 3000
	R2	0.51H + 1800	0.59H + 2100	0.66H + 2300

Note : When vertical rise is over 6000mm or AA is over 14230mm, consult Hyundai for reactions data.

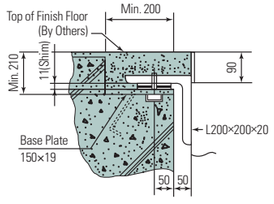
H-SERIES ESCALATORS

HA-BT, HA-BB

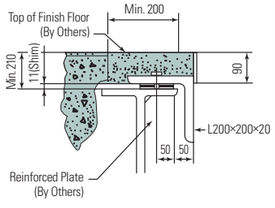


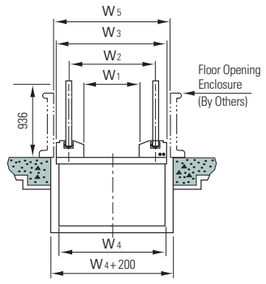
Notes : 1. N : Number of intermediate supports
Max. distance between intermediate supports is 12000mm.
AA = 1.732×H + 4464 + 4342 + 100
2. Dimension between the end of handrail to the wall : Min. 2500mm.
3. 4464, 4342 are dimensions of inverter applied system.
(800Type : 4664, 4542)
4. If EN115 is applied, consult Hyundai.
5. Vertical Rise 10.5m < H ≦ 15m.

Typical Concrete Support



Typical Steel Support





Section Dimensions

(Unit : mm)

Type	HA800	HA1000	HA1200
W1	594	813	1014
W2	986	1205	1406
W3	1330	1549	1750
W4	1280	1499	1700
W5	1430	1650	1850

Reactions

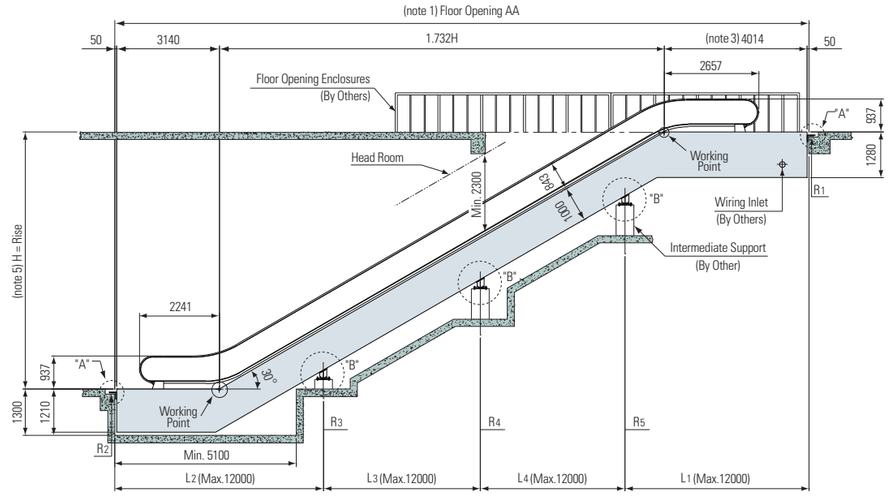
(Unit : kg)

Type	HA800	HA1000	HA1200
Vertical Rise H (mm)	10500 ≦ H ≦ 15000		
R1	0.47L1 + 1200	0.51L1 + 1400	0.54L1 + 1700
R2	0.47L2 + 400	0.51L2 + 500	0.54L2 + 600
R3	0.47(L2 + L3) + 100	0.51(L2 + L3) + 150	0.54(L2 + L3) + 300
R4	0.47(L1 + L3) + 350	0.51(L1 + L3) + 450	0.54(L1 + L3) + 700

Note : Consult Hyundai if the isolation pad is applied.

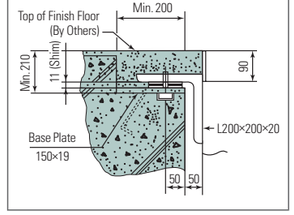
H-SERIES ESCALATORS

HD-BT, HD-BB

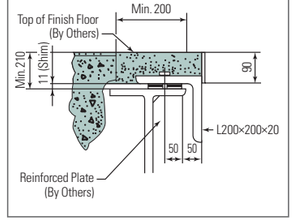


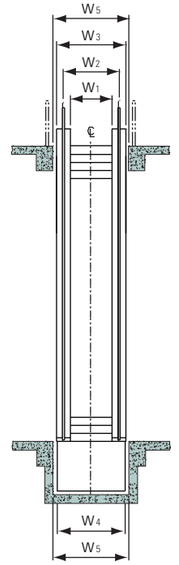
Notes : 1. N : Number of intermediate supports
Max. distance between intermediate supports is 12000mm.
AA = 1.732×H + 4014 + 3140 + 100
2. Dimension between the end of handrail to the wall : Min. 2500mm.
3. 4014 is a dimension of inverter applied system.
4. Dimensions are based on EN115.
5. Vertical Rise 15m < H ≦ 20m.

Typical Concrete Support



Typical Steel Support





Section Dimensions

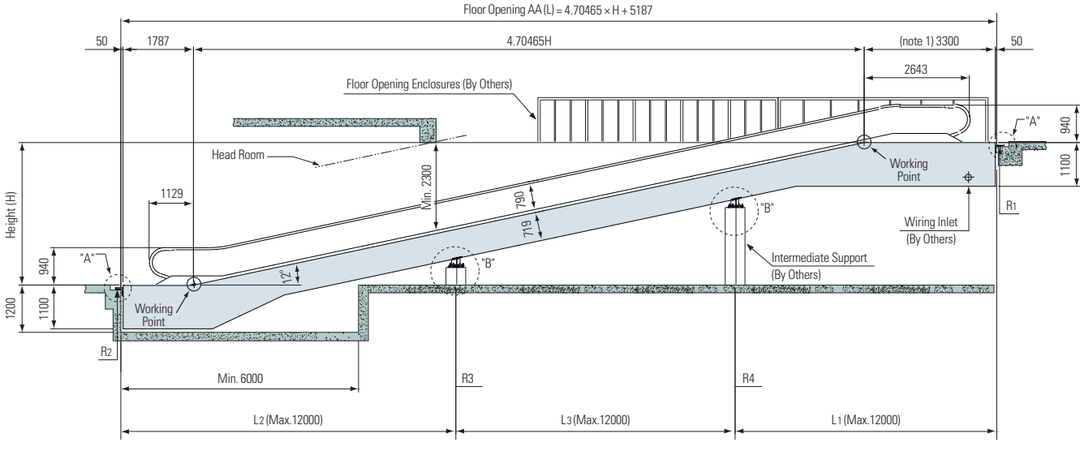
(Unit : mm)

Type	HD800	HD1000	HD1200
W1	612	813	1014
W2	965	1164	1364
W3	1300	1500	1700
W4	1250	1450	1650
W5	1450	1650	1850

Note : Consult Hyundai if the isolation pad is applied.

MOVING WALKS

Horizontal & Inclined Type/NPM-BT



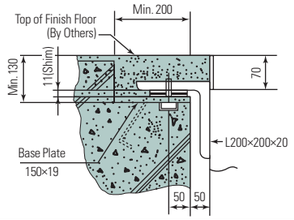
Notes : 1. In case inverter system is applied, dim. 3300 shall increase 500mm.
(1000Type : increase 700mm)
2. Dimension between the end of handrail to the wall : Min. 2500mm.
3. Dimensions are based on EN115.

Reactions

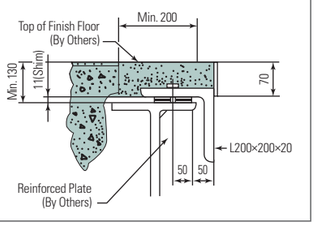
(L1 ~ Ln Unit : m)

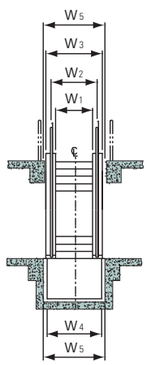
Incli-nation	Vertical Rise H (mm)	Number of intermediate Support	NPM1000					NPM1200				
			R1 (kg)	R2 (kg)	R3 (kg)	R4 (kg)	R5 (kg)	R1 (kg)	R2 (kg)	R3 (kg)	R4 (kg)	R5 (kg)
10° & 12°	1430 ~ 7000	1	453 × L1 + 700	439 × L2 + 45	449 × (L1 + L2)	-	-	503 × L1 + 780	487 × L2 + 50	498 × (L1 + L2)	-	-
		2	453 × L1 + 700	439 × L2 + 45	440 × (L2 + L3)	449 × (L1 + L3)	-	503 × L1 + 780	487 × L2 + 50	489 × (L2 + L3)	498 × (L1 + L3)	-
		3	453 × L1 + 700	439 × L2 + 45	440 × (L2 + L3)	440 × (L3 + L4)	449 × (L1 + L4)	503 × L1 + 780	487 × L2 + 50	489 × (L2 + L3)	489 × (L3 + L4)	498 × (L1 + L4)

Typical Concrete Support



Typical Steel Support





Section Dimensions

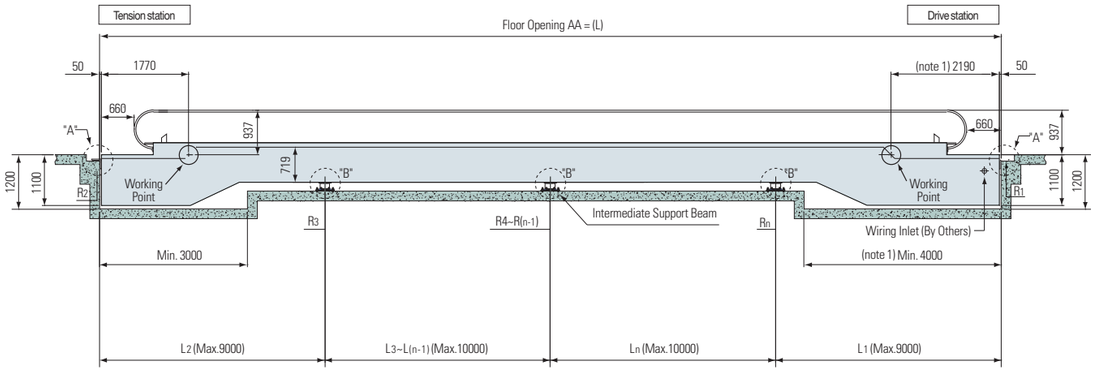
(Unit : mm)

Type	NPM1000	NPM1200
W1	814	1014
W2	1057	1257
W3	1350	1550
W4	1300	1500
W5	1500	1700

Note : Consult Hyundai if the isolation pad is applied.

MOVING WALKS

Horizontal Type/NPM-BT



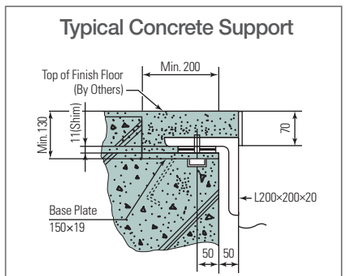
Notes : 1. In case inverter system is applied, dim. 2190, 4000 shall increase 500mm.
(1000Type : increase 700mm)
2. Dimension between the end of handrail to the wall : Min. 2500mm.
3. Dimensions are based on EN115.

Reactions

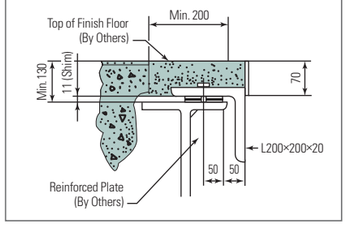
(L1 ~ Ln : m)

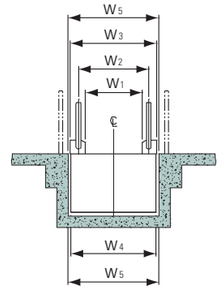
Inclination	Floor Opening AA = (L)	Type	R1 (kg)	R2 (kg)	R3 (kg)	R4 (kg)	Rn (kg)
0°	9110~80000	NPM1000	400 × L1 + 1300	400 × L2 + 400	330 × (L2 + L3)	320 × (L3 + L4)	330 × (Ln-1 + Ln)
		NPM1200	420 × L1 + 1700	420 × L2 + 700	350 × (L2 + L3)	340 × (L3 + L4)	350 × (Ln-1 + Ln)

Typical Concrete Support



Typical Steel Support





Section Dimensions

(Unit : mm)

Type	NPM1000	NPM1200
W1	814	1014
W2	1057	1257
W3	1350	1550
W4	1300	1500
W5	1500	1700

Note : Consult Hyundai if the isolation pad is applied.

WORKS TO BE DONE BY OTHER CONTRACTORS

By Others

The following list explains the work which is necessary for a normal escalator installation, but is not done by the escalator contractor.
Therefore this work must be provided by others.

1. Building Work

1.Necessary properly framed openings in the floors, necessary supports for the truss per the manufacturer's drawings and information. Necessary enclosure, wellway railings, baffles and barricades around the wellway as required. Coordination with the escalator contractor for the location and installation of the steel member required for truss attachment prior to the pouring of the concrete supports.

2.Covering for the exterior of the escalator from the edges of the decks including covering for the truss and soffit. The materials used will be fire resistant as required by the applying code and will weigh not more than 25 kgs/m^2 (5 lbs/ft^2) for Millennium escalator and 50 kgs/m^2 (10 lbs/ft^2) for Modular escalator and H-series escalator.

3.Floor openings for escalators shall be protected against the passage of flame, heat, and/or smoke in accordance with the provisions of the building code.

4.Arrangement for proper ventilation of the machine compartment and controller space.

5.Finished flooring and its base over the escalator contractor's floor support.

6.Provision and maintenance of temporary enclosures or other protection from open wellways during the time the escalator is being installed.

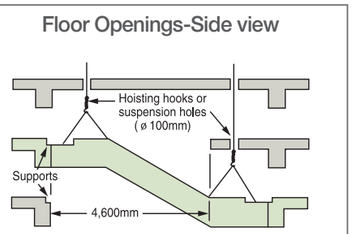
7.Painting and finishing of all material other than that described in this specification.

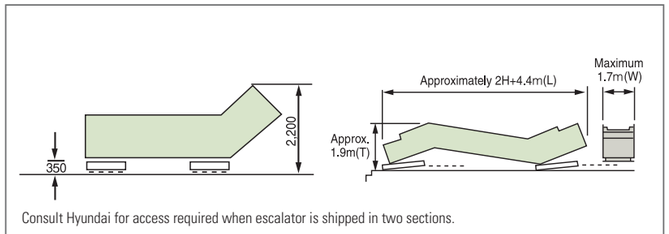
8.Any governmentally required safety provisions not directly involved in the escalator installation.

9.Soffit guards at the intersecting angle of the outside deck and ceiling.

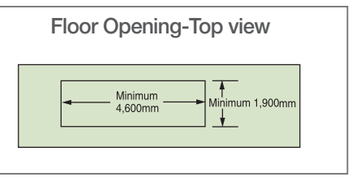
10.Transparent barriers between adjacent parallel escalators and on the outboard side of single escalators.

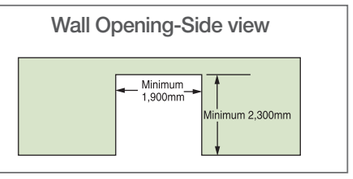
Openings and Suspension Holes For Installation (By Others)





Consult Hyundai for access required when escalator is shipped in two sections.





Building Safety Facilities (By Others)

To ensure passenger safety, full safety facilities around the escalator must be constructed by other contractors.

2. Electrical Work

1. Permanent electric service, as hereafter specified to the controller in the machine compartment, and wiring for lighting.
2. Temporary power as required for construction, testing and adjusting of the same characteristics as the permanent power supply.
3. Provision of a light and single phase lighting circuit run to combination receptacle and convenience outlets to be located at the top and bottom of the escalator.
4. Any electric circuits and outlets for special use as required.
5. Provision of a grounding electrode to the escalator truss if escalator is isolated from building structure.
6. Suitable connections from the power mains to each controller, including necessary circuit breakers and fused mainline disconnect switches.
7. Power feeders to the controller of each escalator.
8. Provide emergency lights and other interior illuminations as required.

Electric Power Requirements (By Others)

Type	Motor (kW)	Power Supply Capacity (kVA)	Power Supply Voltage (AC-3Phase)	C.B. Rated Current (A)	Power Feeder (mm^2) (from power room to escalator controller)					
					20m	40m	60m	80m	100m	120m
New World Class	5.5	12	I	50	10	16	25	35	35	35
			II	30	6	6	10	16	16	16
			III	30	6	6	6	10	10	16
	7.5	14	I	60	10	25	35	35	50	50
			II	40	6	6	10	16	16	25
			III	30	6	6	6	10	16	16
	5.5×2/11	19	I	75	16	25	35	35	50	70
			II	50	6	10	16	25	25	25
			III	40	6	6	10	16	16	25
	7.5×2	27	I	125	25	35	50	95	95	120
			II	75	6	16	25	25	35	35
			III	60	6	10	16	25	25	25
	7.5×3	40	I	175	35	50	50	120	120	150
			II	100	10	25	35	35	50	50
			III	100	6	16	25	25	35	35
	7.5×4	52	I	225	35	95	120	120	185	185
			II	150	16	25	35	50	70	95
			III	125	10	25	25	35	35	50
	7.5×5	65	I	300	50	95	120	185	185	240
			II	175	16	35	50	70	95	95
			III	150	16	25	35	35	50	70
	7.5×6	78	I	350	50	120	150	185	240	300
			II	200	25	35	50	95	95	120
			III	175	16	25	35	50	70	95
H-Series	11	19	I	100	16	25	35	50	50	95
			II	50	6	10	16	25	25	25
			III	40	6	6	10	16	16	25
	16	25	I	125	25	35	50	70	95	120
			II	60	6	16	25	25	35	35
			III	50	6	10	16	16	25	25
	18.5	31	I	150	25	35	50	95	120	120
			II	75	10	16	25	35	35	35
			III	75	6	16	16	25	25	35
	22	36	I	175	25	50	95	120	120	150
			II	100	10	16	25	35	35	50
			III	75	6	16	25	25	35	35
	26	46	I	175	35	50	95	120	120	150
			II	125	16	25	35	35	50	50
			III	100	6	16	25	25	35	35
	30	52	I	200	35	95	120	120	185	185
			II	125	16	25	35	50	70	95
			III	100	10	25	25	35	35	50
	37	60	I	300	50	95	120	185	185	240
			II	150	16	35	50	70	95	95
			III	125	16	25	35	35	50	70

Lighting Power

Balustrade Type	Vertical Rise (m)	Power Supply Capacity (kVA)	Power Supply Voltage (AC-1phase)	C.B. Rated Current (A)	Power Feeder (mm^2)					
					20m	40m	60m	80m	100m	120m
With Handrail Lighting (BTL Type)	1.83-4.27	1.4(3)	100-110	30(40)	6	10	16			
	4.28-7.6	2(6)		40(70)	6	10	16	25		
	1.83-4.27	1.4(3)	200-265	20	4		6		10	
	4.28-7.6	2(6)		20(40)	4		6		10	
Without Handrail Lighting	-	1.2	100-110	20	2.5	4	6		10	
			200-265		2.5	4	6		10	

I	3Ø, 200V, 50Hz	3Ø, 220V, 60Hz
II	3Ø, 346V, 50Hz	3Ø, 380V, 60Hz
III	3Ø, 415V, 50Hz	3Ø, 460V, 60Hz

Notes : 1. Consult Hyundai when the rise over 7600mm.
2. The capacity shown by ( ) mark shall be applied to moving walks.