



ESCALATORS AND MOVING WALKS

# Escalators and Moving Walks

Hyundai Elevator Co., Ltd.(HELCO) provides a full line of moving systems meticulous in detail, bringing together some of the most advanced technology and progressive designs in the industry.



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# 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 Millennium, H-series, Modular escalators and pallet type moving walks. One of them will be the ideal answer to your pedestrian-traffic needs.



Lotte Dept. Store, Seoul, Korea



General Hospital, Baton Rouge, USA



Incheon International Airport, Incheon, Korea



Incheon International Airport, Incheon, Korea



Subway Line7 (Isu), Seoul, Korea



Hyundai Dept. Store, Seoul, Korea

## MILLENNIUM ESCALATORS

01

The latest models are Millennium escalators, which are new generation escalators that are controlled by Microprocessors and are ergonomically designed to give a very smooth ride. The new design provides a marked improvement by minimizing the front and back step movement in the down direction. This eliminates the jerk people may experience when going down in a escalator. The style of newel face is also quite a new modernized one.

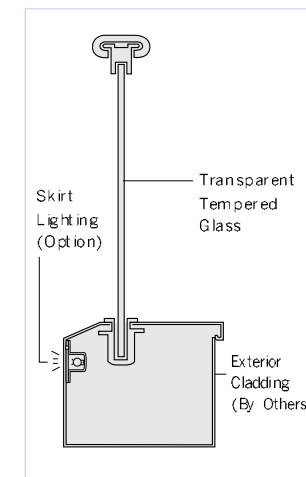
### Main Specifications

Type	ML800	ML1000	ML1200	
Step Width	30°	594 mm	813 mm	1014 mm
	35°	612 mm	813 mm	1014 mm
Carrying Capacity	4500 Person/h		6750 Person/h	9000 Person/h
	2046 mm ~ 10500 mm		Under 6000mm	
Vertical Rise	30°	30 m/min (* 30 ~ 40 m/min)		
	35°	30 m/min		
Speed of Step	30 degree		35 degree	
	AC 3PH, 208 - 600V, 50/60Hz		Key Switch Reversible Operation (Automatic: optional)	
Power Source				
Operation System				

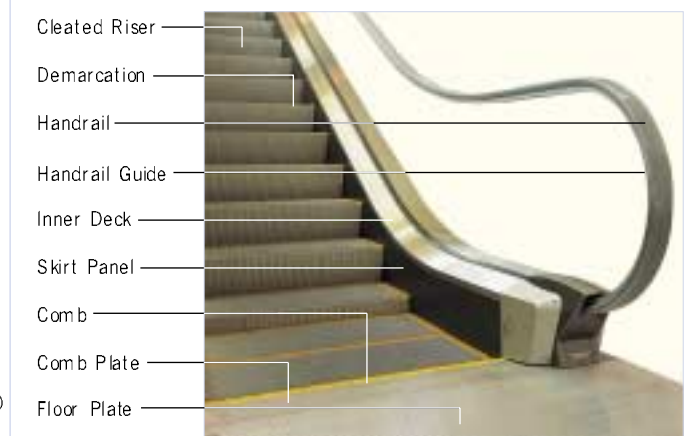
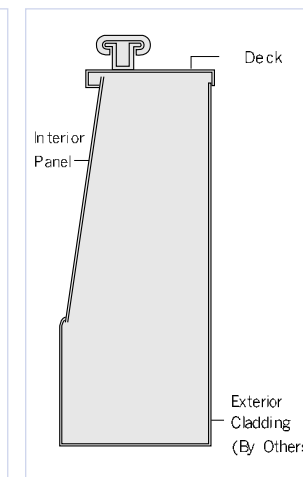


**Note** Optional features shown by (\*) marks are available to extra costs.

### ML-BT



### ML-BB(\*)



	ML-BT	ML-BB(*)
Balustrade	Interior Panel	Transparent tempered glass
	Deck	Stainless hairlined steel
	Skirt Panel	Stainless hairlined steel (* Stainless hairlined steel + Teflon coating)
Step	Handrail Color	To be selected (Basic : Black)
	Step Tread	Extruded aluminum
	Demarcation	Yellow molded safety inserts on 3 sides (Synthetic resin)
	Comb	Yellow synthetic resin (* Extruded aluminum)
Floor Plate	Lighted directional indicator (*)	
	Stainless plate with anti-slip grooves	
Exterior Cladding	By others	

**Note** Optional features shown by (\*) marks are available to extra costs.

# MILLENNIUM 30° ESCALATORS LAYOUT PLAN

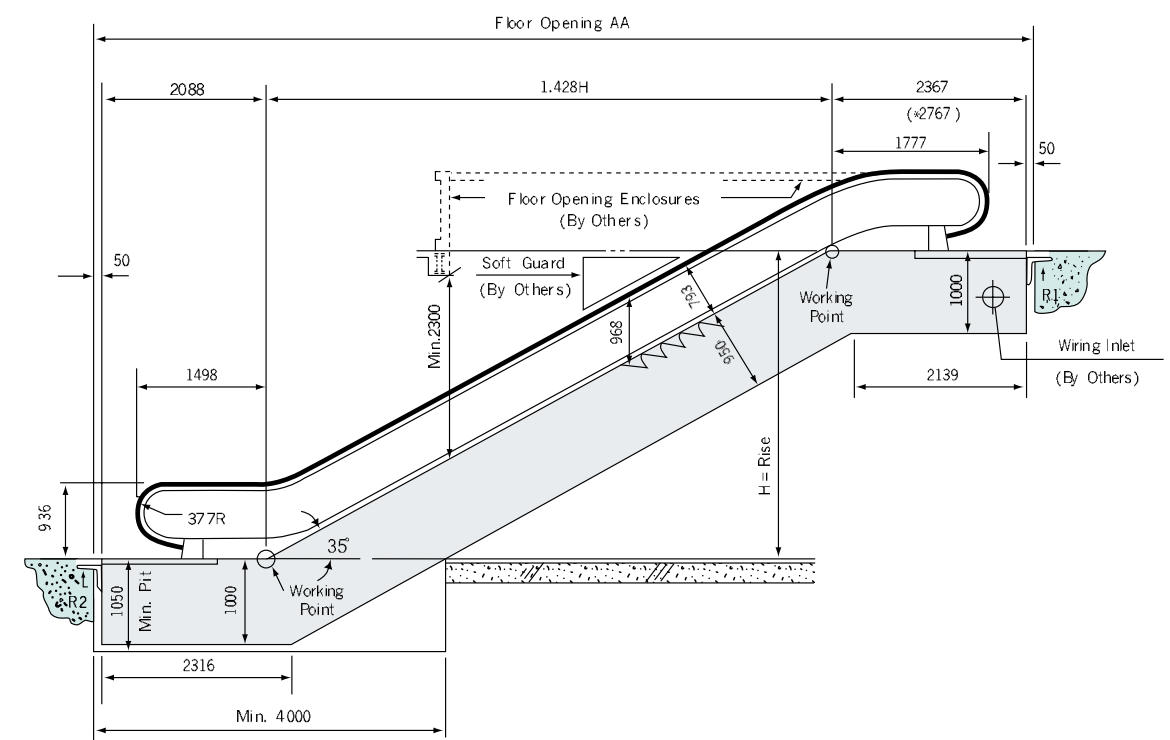
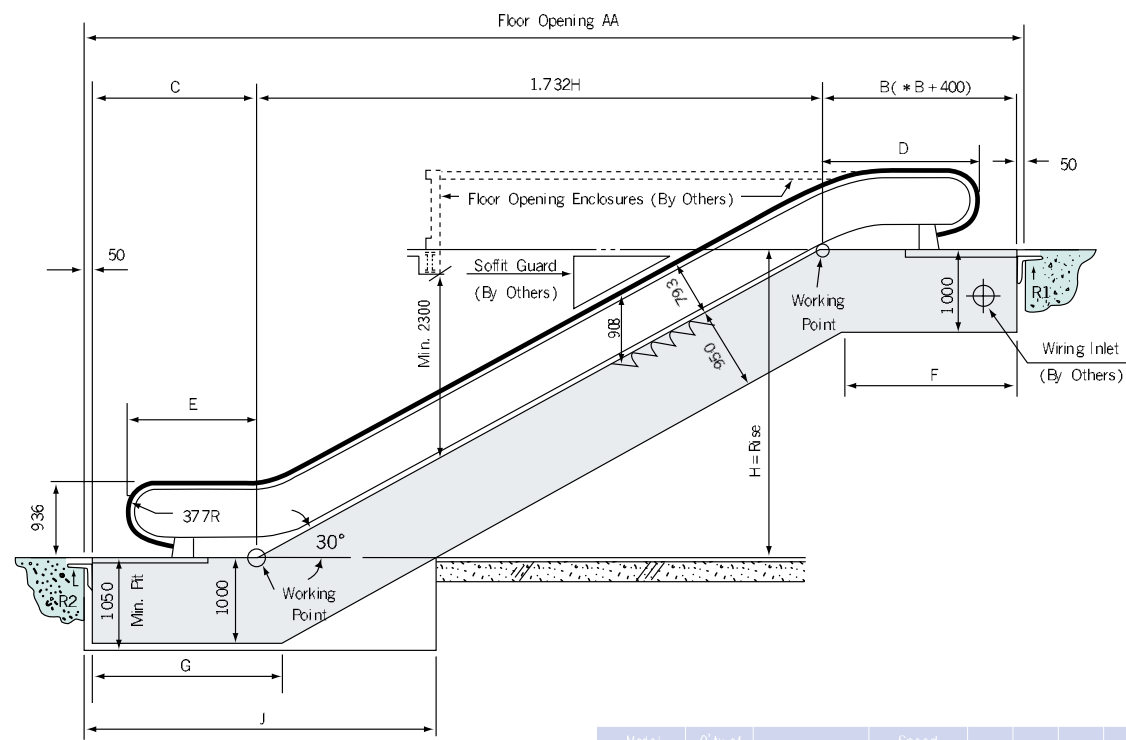
ML-BT, ML-BB

02

# MILLENNIUM 35° ESCALATORS LAYOUT PLAN

ML-BT, ML-BB

03



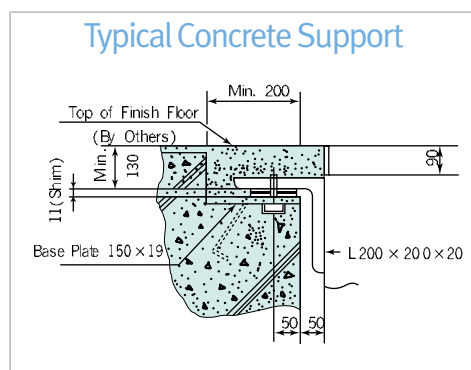
- Notes**
1. AA=1.732H+B+C+100
  2. In case of inverter system is applied, consult Hyundai.
  3. Escalator for subway or semi-outdoor escalator : (\*):Dimension

Model (Inclination)	Qty of Flat Step	Vertical Rise	Speed of Step	B	C	D	E	F	G	J
ML-BT ML-BB (30°)	2	H ≤ 6000	30m/min	2286	2080	1695	1490	2116	2250	4230
	3	6000 < H ≤ 7600		2693	2487	2102	1897	2523	2657	4640
	4	H ≤ 6000	30~40m/min	3476	2556	2236	1966	3306	2727	4720
				3882	2962	2642	2372	3712	3133	5120

- Notes**
1. In case of inverter system is applied, consult Hyundai.
  2. Escalator for subway or semi-outdoor escalator : (\*):Dimension

## Section Dimensions Unit : mm

Type	ML800	ML1000	ML1200
W1	594	813	1014
W2	837	1056	1257
W3	1130	1349	1550
W4	1080	1299	1500
W5	1230	1449	1650



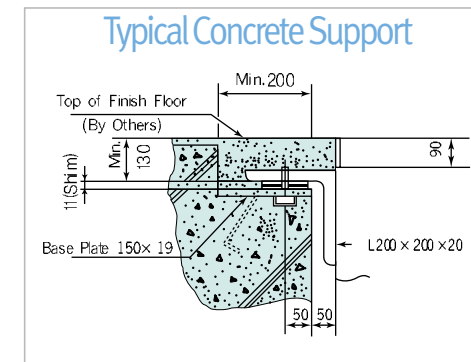
## Reactions Unit : kg

Vertical Rise H (mm)	Reactions	ML800	ML1000	ML1200
3000	R1	0.66H+2600	0.73H+2900	0.79H+3200
~6000	R2	0.66H+2000	0.73H+2300	0.79H+2600

**Note** When rise is over 6000mm, consult Hyundai for reactions data.

## Section Dimensions Unit : mm

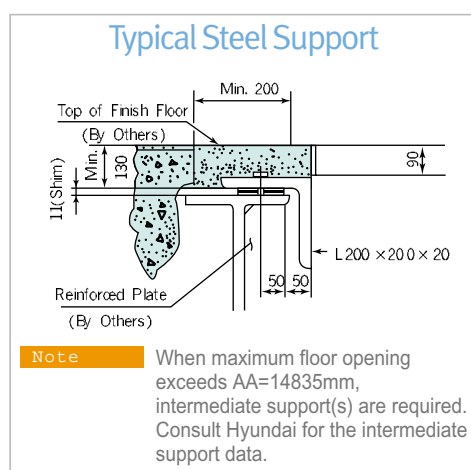
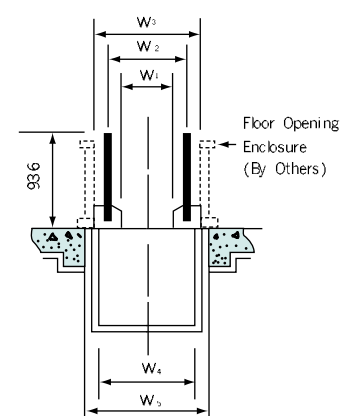
Type	ML800	ML1000	ML1200
W1	612	813	1014
W2	855	1056	1257
W3	1148	1349	1550
W4	1098	1299	1500
W5	1248	1449	1650



## Reactions Unit : kg

Vertical Rise H (mm)	Reactions	ML800	ML1000	ML1200
3000	R1	0.52H+2700	0.6H+3000	0.67H+3300
~6000	R2	0.52H+2200	0.6H+2500	0.67H+2700

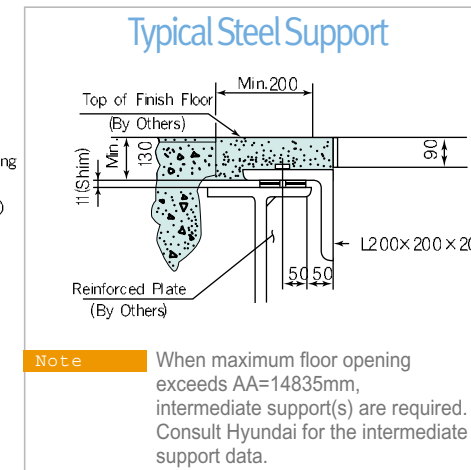
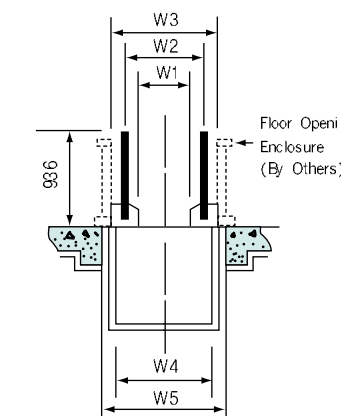
**Note** When rise is over 6000mm, consult Hyundai for reactions data.



## Motor Application Speed:30m/min

Type	Vertical Rise H (mm)			
ML800	H ≤ 7610	H ≤ 10400	H ≤ (11000)	-
ML1000	H ≤ 5577	H ≤ 7610	H ≤ (10800)	-
ML1200	H ≤ 4460	H ≤ 6110	H ≤ 8900	H ≤ 10500
MOTOR(kW)	5.5	7.5	11	15

**Note** When speed is over 40m/min, consult Hyundai.



## Motor Application Speed:30m/min

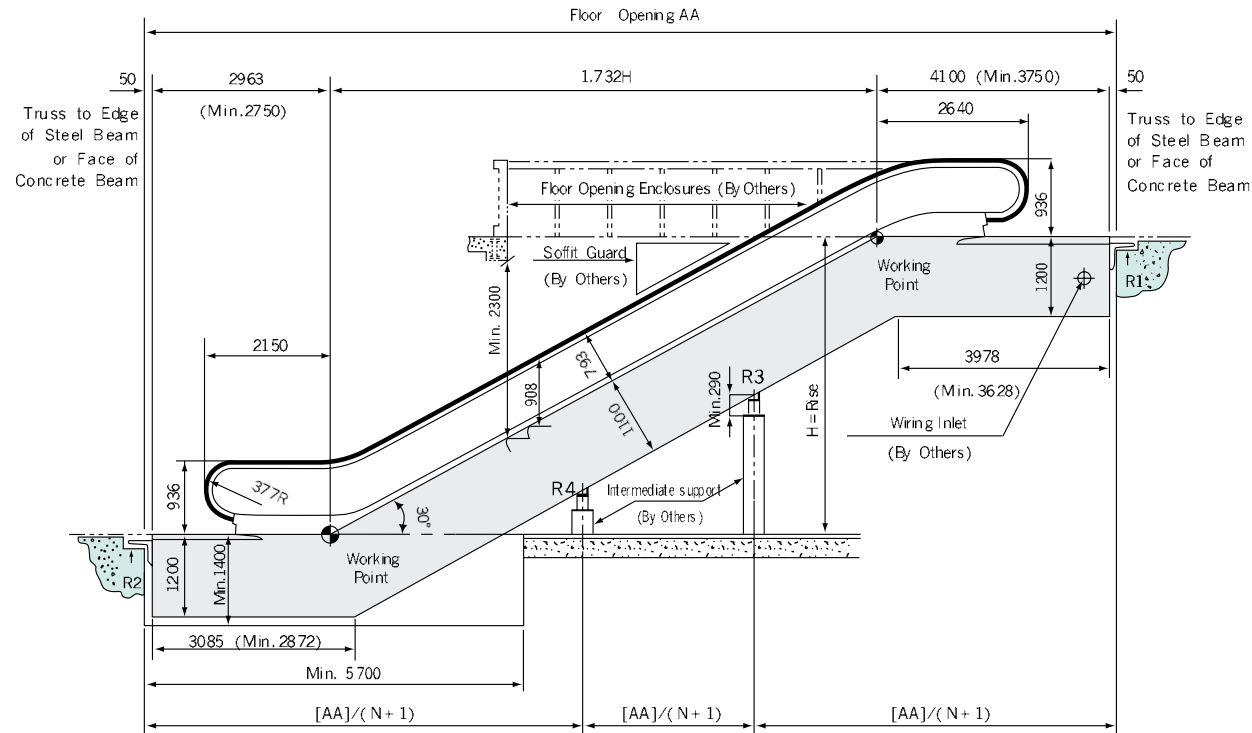
Type	Vertical Rise H (mm)	
ML800	H ≤ 6000	-
ML1000	H ≤ 5580	H ≤ 6000
ML1200	H ≤ 4460	H ≤ 6000
MOTOR(kW)	5.5	7.5

# H-SERIES ESCALATORS LAYOUT PLAN

HA-BB, HA-BT

04

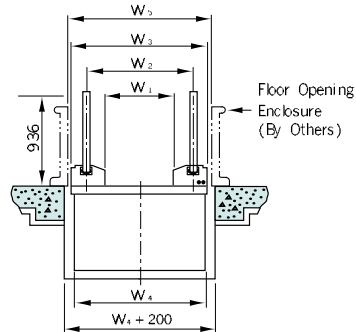
H-Series Escalators are designed for installation in subway stations, multi-sports complexes, and mammoth conference halls or airports. It has also been used to move people outside while protecting them from snowfall, rain, and wind. The H-Series Escalators meet standards set by the American Society of Mechanical Engineers (ASME) and European Norm (EN).  
(Applicable Vertical Rise : 7600~13600 mm)



- Notes**
- N : Number of intermediate support
  - Max. distance between intermediate support: 12m
  - AA=1.732 × H+4100(3750)+2963(2750)+100

## Section Dimensions Unit : mm

Type	HA800	HA1000	HA1200
W <sub>1</sub>	594	813	1014
W <sub>2</sub>	986	1205	1406
W <sub>3</sub>	1330	1549	1750
W <sub>4</sub>	1280	1499	1700
W <sub>5</sub>	1430	1650	1850



## Motor Application Speed:30m/min

Type	Vertical Rise H (mm)			
HA800	H ≤ 13600	H ≤ 16000	-	-
HA1000	-	H ≤ 13400	H ≤ 13600	-
HA1200	-	H ≤ 10100	H ≤ 11700	H ≤ 13600
MOTOR(kw)	11	16	18.5	22

**Note** The sizes shown above are applied to 3 flat step.

## Reactions Unit : kg

Vertical Rise H(mm)	7600	8000	8400	8800	9200	9600	10000	10400	10800	11200	11600	12000	12400	12800	13200	13600	
Floor Opening AA(mm)	20326	21019	21711	22404	23097	23790	24483	25175	25868	26561	27254	27847	28539	29332	29925	30718	
HA800	R1	5840	6010	6190	6360	6530	6700	4980	5100	5220	5330	5450	5570	5680	5800	5910	6030
	R2	5170	5330	5500	5660	5830	6000	4210	4320	4430	4540	4650	4760	4870	4980	5090	5200
	R3	9890	10210	10530	10850	11170	11480	8040	8250	8450	8660	8870	9090	9300	9510	9720	9930
	R4	-	-	-	-	-	-	7760	7980	8190	8410	8630	8840	9060	9280	9490	9710
HA1000	R1	6470	6650	6840	7030	7210	7400	5540	5670	5800	5920	6050	6180	6310	6430	6560	6680
	R2	5640	5820	6000	6190	6360	6540	4600	4720	4840	4960	5080	5200	5320	5440	5560	5680
	R3	10800	11150	11500	11840	12190	12540	8770	9000	9230	9460	9690	9920	10150	10380	10610	10840
	R4	-	-	-	-	-	-	8480	8710	8950	9190	9420	9660	9900	10130	10370	10610
HA1200	R1	6960	7160	7370	7570	7770	7970	5990	6130	6270	6410	6550	6680	6820	6960	7090	7230
	R2	6120	6310	6510	6700	6900	7090	4990	5120	5250	5380	5510	5640	5770	5900	6030	6160
	R3	11730	12110	12480	12860	13240	13620	9520	9770	10010	10260	10520	10770	11020	11270	11520	11770
	R4	-	-	-	-	-	-	9210	9470	9720	9980	10240	10500	10760	11010	11270	11530

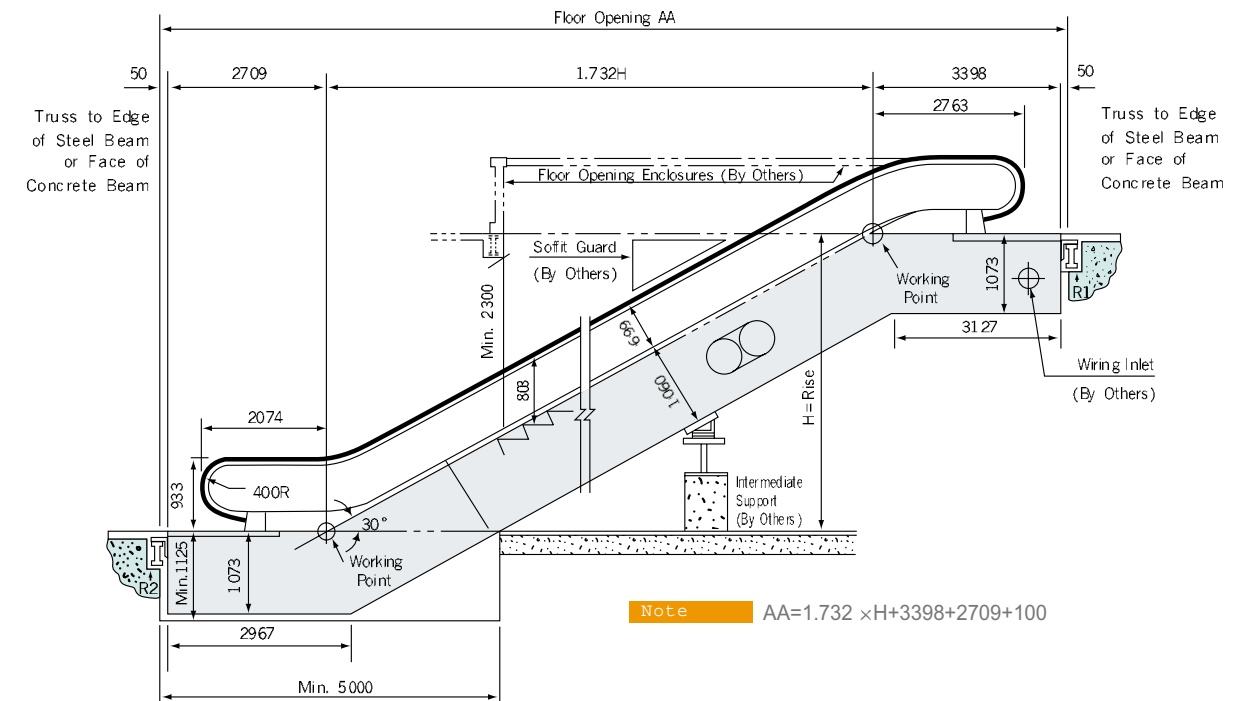
**Note** When maximum vertical rise ranges over 13600mm, consult Hyundai.

# MODULAR ESCALATORS LAYOUT PLAN

M-BB

05

The Modular Escalator's unique construction is especially suited for heavy-duty uses in high rise buildings and in areas of mass transit. The idea of applying multiple drive units makes this system to extend its slope to whatever rise and do not need separate machine rooms. Competitive products use a system of helical gears that have a motor efficiency up to 85%.  
(Applicable Vertical Rise : Max. 36000mm)



**Note** AA=1.732 × H+3398+2709+100

## Reactions Unit : kgs/AA:m

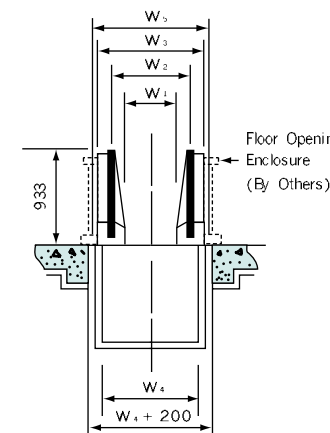
	M800	M1200
R1 = 485(AA + 0.1) - $\frac{3800}{AA + 0.1} + 1500$		R1 = 635(AA + 0.1) - $\frac{3800}{AA + 0.1} + 1800$
R2 = 485(AA + 0.1) + $\frac{3800}{AA + 0.1} + 600$		R2 = 635(AA + 0.1) + $\frac{3800}{AA + 0.1} + 800$

## Notes

- If support spacing AA exceeds 1.732H+TT+TB+100, then truss extensions are required at top or bottom. Floor opening AA cannot exceed 14835mm. Truss extensions are optional available at extra costs. Maximum allowable truss extension is 2438mm.
- When maximum floor opening exceeds 14835mm intermediate support(s) are required. Consult Hyundai for the intermediate support data.
- The reactions calculated from these formulas are actual maximum loads based on escalator dead weight maximum passenger load per ASME code requirements, and a maximum cladding weight of 50kgs/m<sup>2</sup>(10 lbs/ft<sup>2</sup>) over the entire length. No additional factors are included.

## Section Dimensions Unit : mm

Type	M800	M1200
W <sub>1</sub>	594	1014
W <sub>2</sub>	895	1342
W <sub>3</sub>	1275	1695
W <sub>4</sub>	1244	1664
W <sub>5</sub>	1375	1795



## Floor Opening Unit : mm

Vertical Rise(H)	2440 to 36580
Top Truss(TT)	3398
Horizontal Length (W.P.to. W.P.)	1.732 × H
Bottom Truss(TB)	2709
Floor Opening (AA)	1.732 × H + TT + TB + 100
Max. Floor Opening	14835

## Motor Application Speed:30m/min

Type	M800	M1200	MOTOR(k.w)
Vertical Rise : H(mm)	2440 ≤ H ≤ 3660	2440 ≤ H ≤ 3660	5.5 × 1
	H ≤ 9140	H ≤ 6100	7.5 × 1
	H ≤ 10970	H ≤ 7320	5.5 × 2
	H ≤ 14980	H ≤ 11000	7.5 × 2
	H ≤ 27430	H ≤ 18290	7.5 × 3
	H ≤ 36580	H ≤ 24380	7.5 × 4
-	H ≤ 30480	7.5 × 5	
-	H ≤ 36580	7.5 × 6	

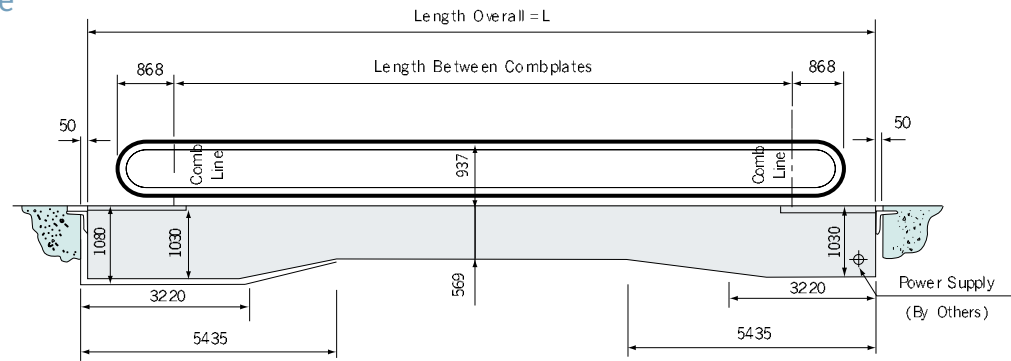
# MOVING WALKS LAYOUT PLAN

PM-BT, PM-BB

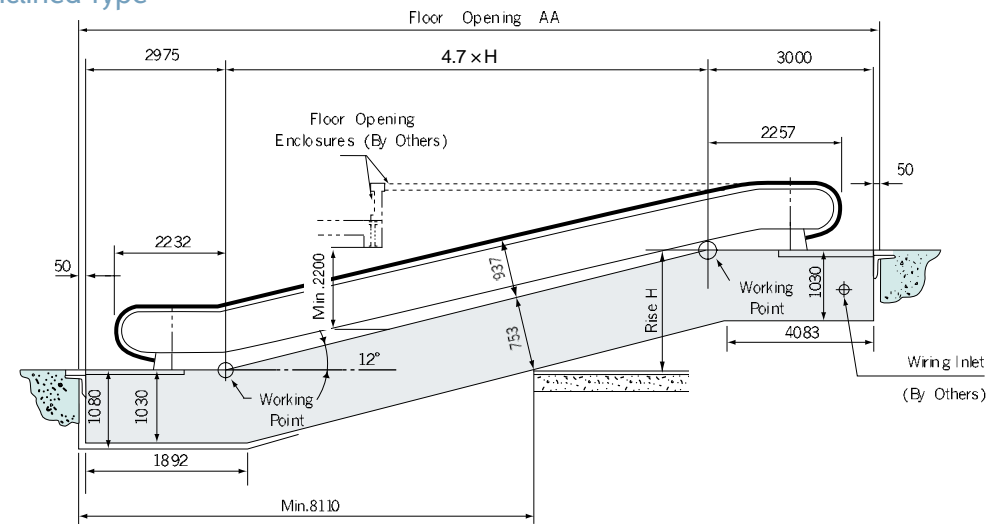
06

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, subway 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.

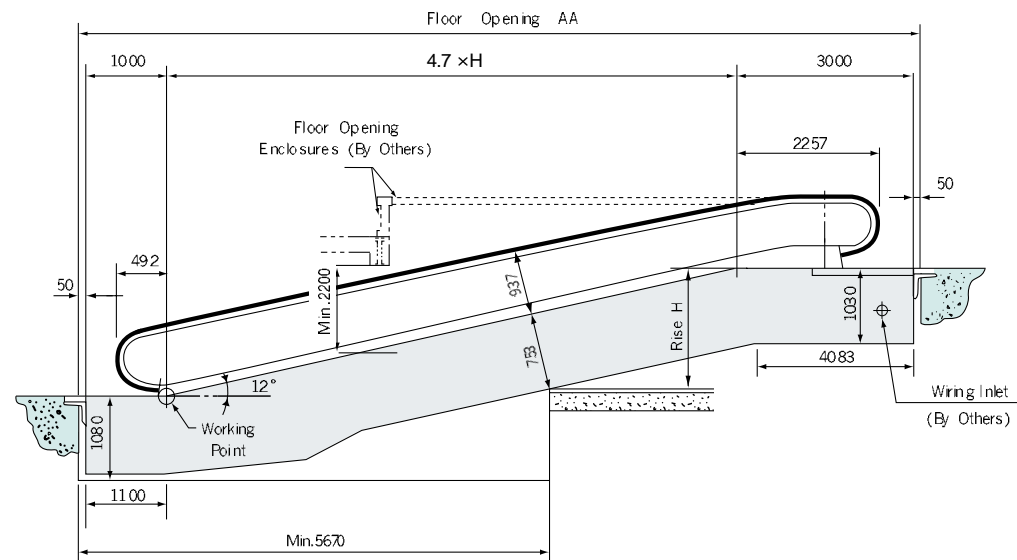
## Horizontal Type



## Horizontal & Inclined Type

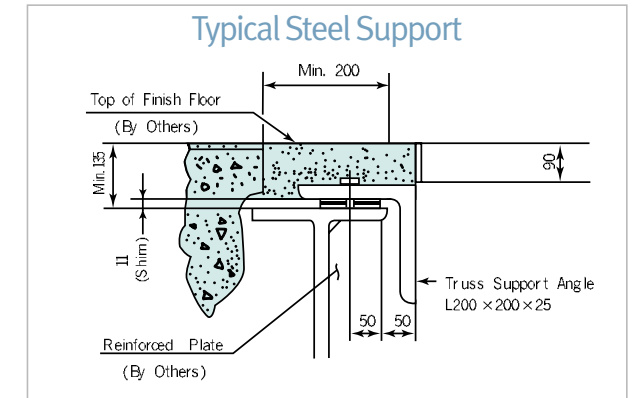
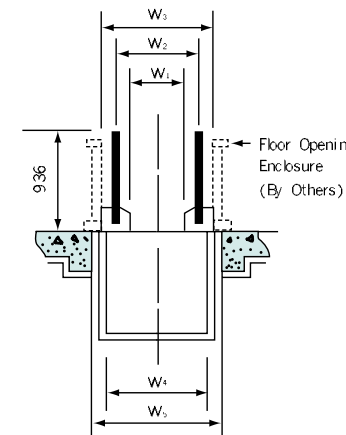
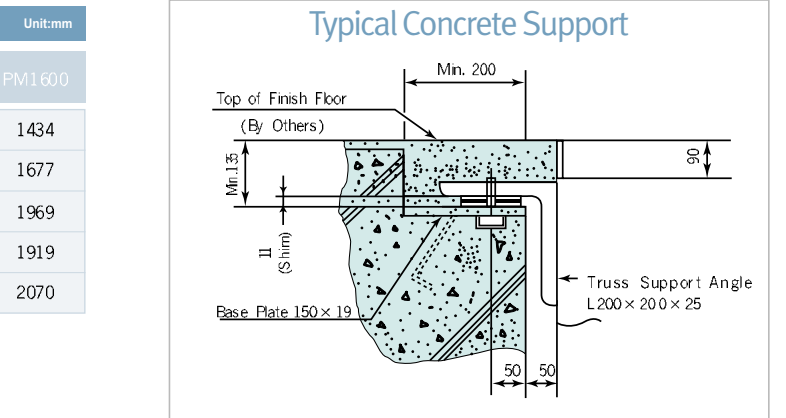


## Compact Type



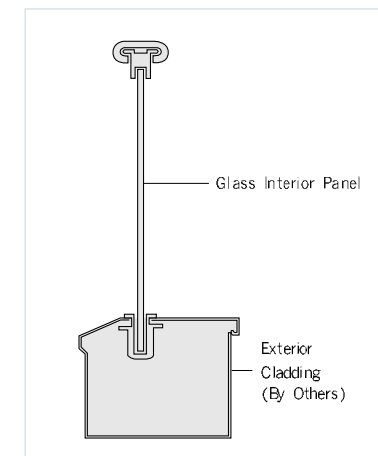
## Section Dimensions

Type	PM800	PM1000	PM1200	PM1400	PM1600
W <sub>1</sub>	594	813	1014	1251	1434
W <sub>2</sub>	838	1054	1257	1494	1677
W <sub>3</sub>	1130	1346	1549	1786	1969
W <sub>4</sub>	1080	1296	1499	1736	1919
W <sub>5</sub>	1230	1445	1650	1888	2070

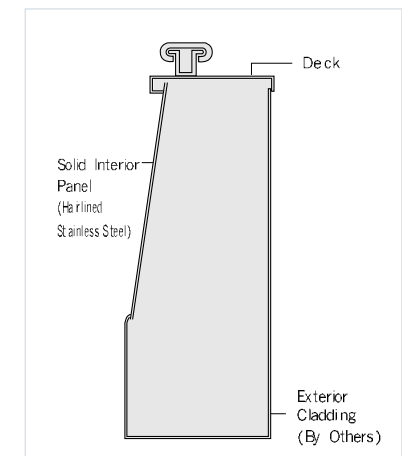


## Balustrade Designs & Finishes for Moving Walks

### BT



### BB(\*)



	BT	BB(*)
Balustrade	Interior Panel	Transparent tempered glass
	Deck	Stainless hairlined steel
	Skirt Panel	Stainless hairlined steel (* Stainless hairlined steel + Teflon coating)
	Handrail Color	To be selected (Basic : Black)
Pallet	Pallet Tread	Extruded aluminum
	Demarcation	Yellow molded safety inserts on 2 sides (Synthetic resin)
	Comb	Extruded aluminum
	Floor Plate	Lighted directional indicator (*) Stainless plate with anti-slip grooves
	Exterior Cladding	By others

Note: Optional features shown by (\*) marks are available to extra costs.

# WORKS TO BE DONE BY OTHER CONTRACTORS

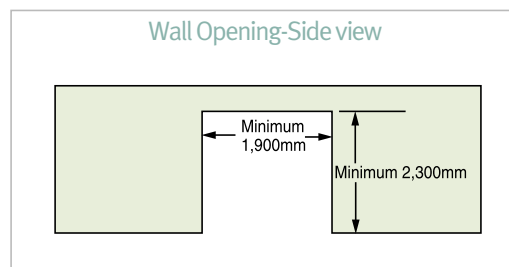
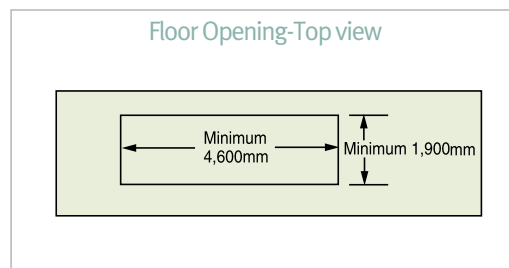
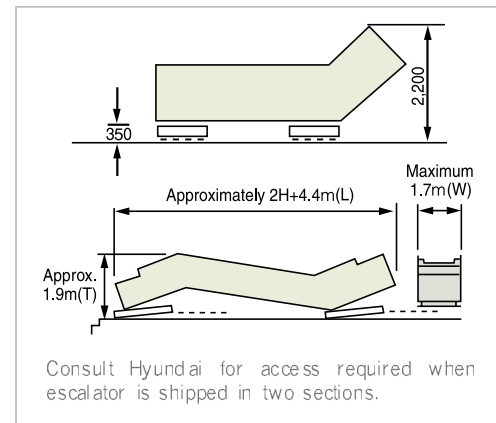
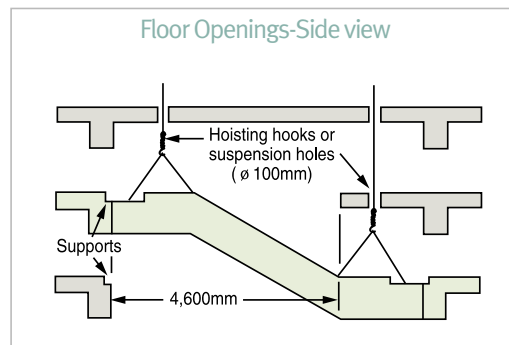
# 07

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.

## I Building Work

- 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.
- 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 25kgs/m<sup>2</sup> (5 lbs/ft<sup>2</sup>) for Millennium escalator and 50kgs/m<sup>2</sup> (10lbs/ft<sup>2</sup>) for Modular escalator and H-series escalator.
- 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.
- Arrangement for proper ventilation of the machine compartment and controller space.
- Finished flooring and its base over the escalator contractor's floor support.
- Provision and maintenance of temporary enclosures or other protection from open wellways during the time the escalator is being installed.
- Painting and finishing of all material other than that described in this specification.
- Any governmentally required safety provisions not directly involved in the escalator installation.
- Soffit guards at the intersecting angle of the outside deck and ceiling.
- Transparent barriers between adjacent parallel escalators and on the outboard side of single escalators.

## Openings and Suspension Holes For Installation (By Others)



## Building Safety Facilities (By Others)

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



## II Electrical Work

- Permanent electric service, as hereafter specified to the controller in the machine compartment, and wiring for lighting.
- Temporary power as required for construction, testing and adjusting of the same characteristics as the permanent power supply.
- 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.
- Any electric circuits and outlets for special use as required.
- Provision of a grounding electrode to the escalator truss if escalator is isolated from building structure.
- Suitable connections from the power mains to each controller, including necessary circuit breakers and fused mainline disconnect switches.
- Power feeders to the controller of each escalator.
- Provide emergency lights and other interior illuminations as required.

## Electric Power Requirements (By Others)

Motor (kW)	Power Supply Capacity (kVA)	Power Supply Voltage (AC-3Phase)	C.B. Rated Current (A)	Power Feeder(mm <sup>2</sup> ) (from power room to escalator controller)					
				20V	40V	60V	80V	100V	120V
5.5	12	I	50	8	14	22	30	38	38
		II	30	5.5	5.5	8	14	14	14
		III	30	5.5	5.5	8	8	14	14
7.5	14	I	60	8	22	30	38	50	50
		II	40	5.5	5.5	8	14	14	22
		III	40	5.5	5.5	5.5	8	14	14
5.5x2/11	19	I	75	14	22	30	38	50	60
		II	50	5.5	8	14	22	22	22
		III	40	5.5	5.5	8	14	14	22
7.5 x2	27	I	125	22	38	50	80	80	100
		II	75	14	22	22	30	38	38
		III	60	5.5	8	14	22	22	22
7.5 x3	40	I	175	30	50	50	100	125	150
		II	100	8	22	30	38	50	50
		III	100	5.5	14	22	22	30	38
7.5 x4	52	I	225	38	80	100	125	200	200
		II	150	14	22	38	50	60	80
		III	125	8	22	22	30	38	50
7.5 x5	65	I	300	50	80	125	200	200	250
		II	175	14	30	50	60	80	80
		III	150	14	22	30	38	50	60
7.5 x6	78	I	350	50	100	150	200	250	300
		II	200	22	38	50	80	80	100
		III	175	14	22	38	50	60	80

Motor (kW)	Power Supply Capacity (kVA)	Power Supply Voltage (AC-3Phase)	C.B. Rated Current (A)	Power Feeder(mm <sup>2</sup> ) (from power room to escalator controller)					
				20V	40V	60V	80V	100V	120V
11	19	I	100	14	22	38	50	50	80
		II	50	5.5	8	14	22	22	22
		III	40	5.5	5.5	8	14	14	22
16	25	I	125	22	30	50	60	80	100
		II	60	5.5	14	22	22	30	30
		III	50	5.5	8	14	14	22	22
18.5	31	I	150	22	38	50	80	100	125
		II	75	8	14	22	30	30	38
		III	75	5.5	14	14	22	22	30
22	36	I	175	22	50	80	100	125	150
		II	100	8	14	22	30	38	50
		III	75	5.5	14	22	22	30	30
26	40	I	175	30	50	80	100	125	150
		II	125	14	22	30	38	50	50
		III	100	5.5	14	22	22	30	38

## Lighting Power

Balustrade Type	Vertical Rise (m)	Power Supply Capacity (kVA)	Power Supply Voltage (AC-1-phase)	C.B. Rated Current	Power Feeder(mm <sup>2</sup> ) (from power room to escalator controller)								
					Span of Length (m)								
					20	40	60	80	100	120			
With Handrail Lighting (BTL Type)	1.83~4.27	1.4 (3)	100-110	30 (40)	5.5	8	14			I	3 ϕ , 200V, 50Hz	3 ϕ , 220V, 60Hz	
	4.28~7.6	2 (6)		40 (70)	5.5	8	14	22					
	1.83~4.27	1.4 (3)	200-265	20	3.5	5.5	8			II	3 ϕ , 346V, 50Hz	3 ϕ , 380V, 60Hz	
	4.28~7.6	2 (6)		20 (40)	3.5	5.5	8						
Without Handrail Lighting	-	1.2	100-110 200-265	20	2	3.5	5.5	8			III	3 ϕ , 415V, 50Hz	3 ϕ , 460V, 60Hz
				2	3.5	5.5	8						

### Notes

- The lighting power shall be supplied separately from the main power.
- The power feeder sizes are based on using copper conductors and metallic conduit.
- The optional comblights can be provided with the given lighting power.
- For the application with other voltages consult with Hyundai for the engineering data.
- Consult Hyundai when rise over 7600 mm.
- The capacity shown by ( ) mark shall be applied to moving walks.