HYUNDAI

ESCALATOR




SHANGHAI HYUNDAI ELEVATOR MFG.CO.,LTD.

W-BT ESCALATORS

01

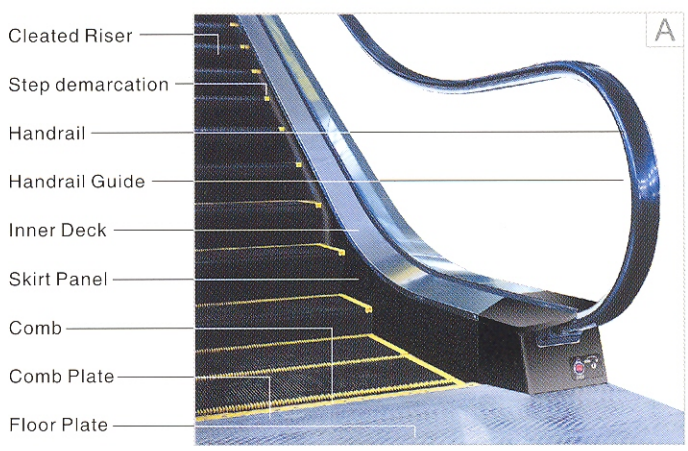
The latest models are W-BT escalator, which are new generation escalators that are controlled by Microprocessors and are ergonomically designed to give a very smooth ride. The new design provides a marked improvement by minimizing the front and back step movement in the down direction. This eliminates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

Main Specification

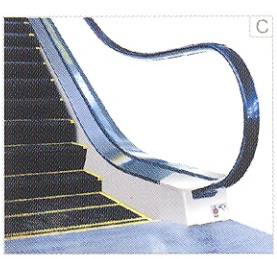
Type		W800	W1000	W1200
Step Width		606mm	807mm	1008mm
Capacity		4500 Person/h	6750 Person/h	9000 Person/h
Vertical Rise	30°	1750mm~10500mm		
	35°	1750mm~6000mm		
Speed of Step		30m/min		
Incline		30°,35°		
Power Source		340V~415V,3PH 50Hz 208V~460V,3PH 60Hz		
Operation System		Key Switch Reversible Operation		

Interior Panel	Transparent tempered glass
Deck	Stainless hairlined steel
Skirt Panel	Teflon coated steel (* Stainless hairlined steel)
Handrail Color	Black
Step Tread	Stainless steel with black color (*Aluminum)
Demarcation	Yellow molded safety inserts on 3 sides (Synthetic resin)
Comb	Yellow synthetic resin (* Extruded aluminum)
Floor Plate	Stainless plate with anti-slip grooves
Exterior Cladding	By others

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



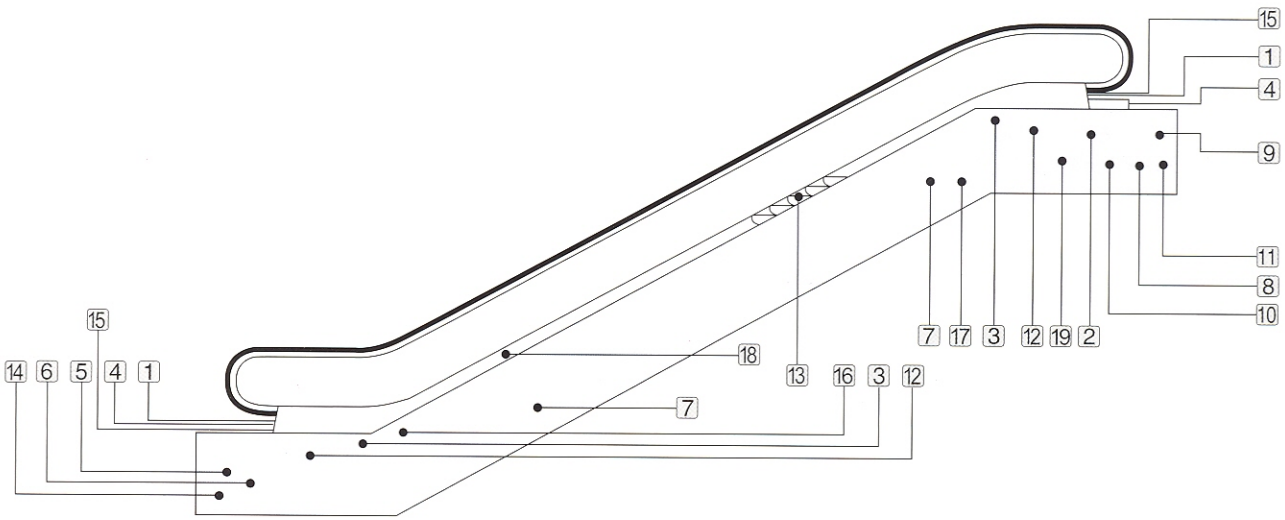
A	Skirt Panel	Teflon coated steel (Black)
	Newel Skirt	Teflon coated steel (Black)
B	Skirt Panel	Stainless hairline steel
	Newel Skirt	Stainless hairline steel
C	Skirt Panel	Teflon coated steel (Gray)
	Newel Skirt	Teflon coated steel (Gray)
D	Skirt Panel	Stainless hairline steel
	Newel Skirt	Teflon coated steel (Black)
E	Skirt Panel	Stainless hairline steel
	Newel Skirt	Teflon coated steel (Gray)



W-BT ESCALATORS

02

Safety Features



	Safety Features	World Class		Safety Features	World Class
1	Handrail Guard Switches	○	11	Disconnect Switch	○
2	Broken Drive Chain Switch	○	12	Understep Lighting	○
3	Skirt Switches	○	13	Step Demarcation Lines	○
4	Starting Switch & Emergency Stop Button	○	14	Floorplate Switches	○
5	Pit Disconnect Switch	○	15	Combplate Switches	○
6	Broken Step Chain (Link) Switches	○	16	Step Upthrust Switch	○
7	Broken Step/Step Level Switches	○	17	Direction Reversal Device	*
8	Magnetic Brake	○	18	Handrail Speed-monitoring Device	*
9	Over/Under Speed Device	○	19	Auxiliary Brake	*
10	Over Load Relay	○	20	Fire Proof Safety Sensor	*

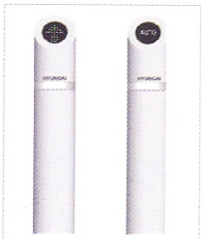
Note Optional features shown by (*) marks are available to extra costs.

Handrail Color-Guide

Note
1. Black is standard. Other colors are optional and available at extra cost.
2. Finished product may vary slightly from these prints.

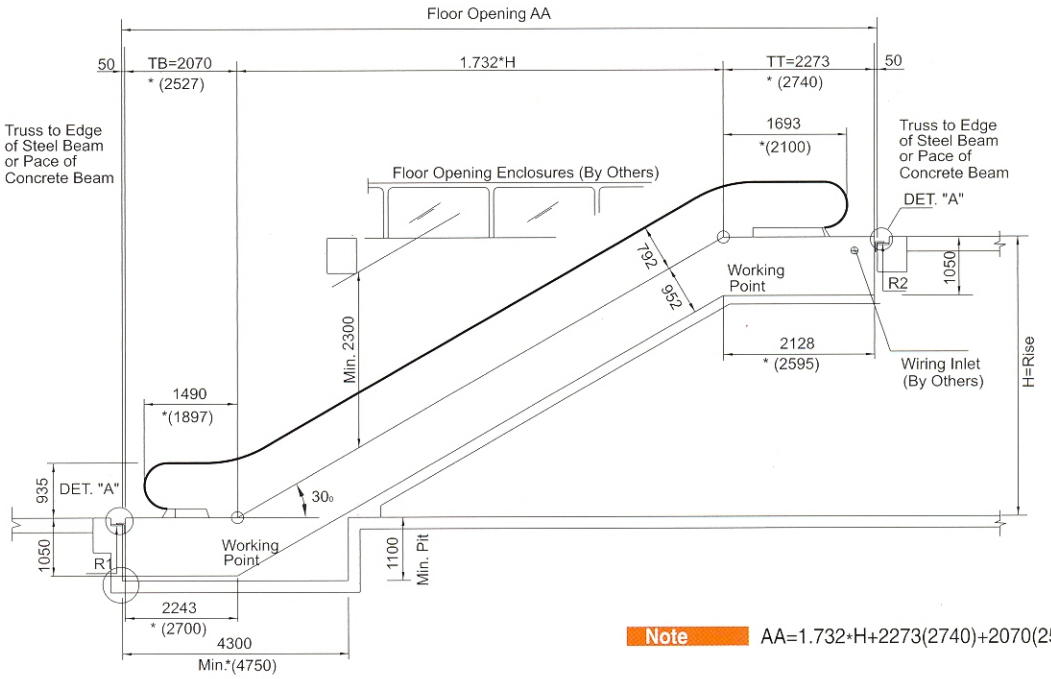
Safety Brush

Multi Post



W-BT 30° ESCALATORS LAYOUT PLAN

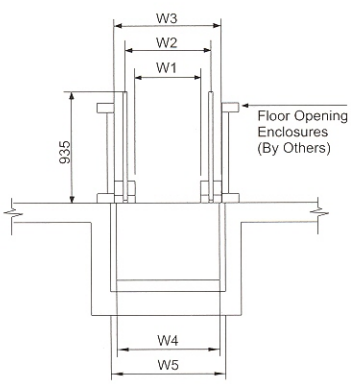
03



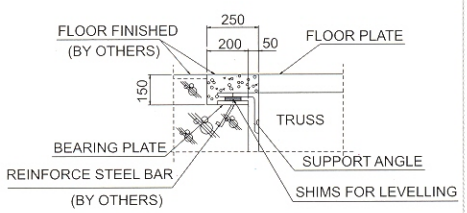
Note AA=1.732*H+2273(2740)+2070(2527)+100

Section Dimensions Unit:mm

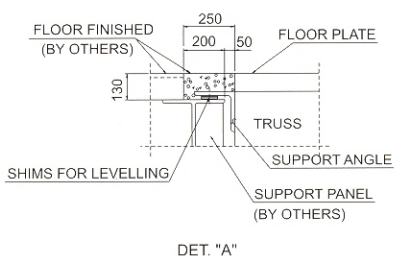
Type	W800	W1000	W1200
W1	612	813	1014
W2	855	1056	1257
W3	1147	1348	1549
W4	1097	1298	1499
W5	1248	1449	1650



Typical Concrete Support



Typical Steel Support



DET. "A"

Reactions Unit:kgs

Vertical Rise H(mm)	W800		W1000		W1200	
	R1	R2	R1	R2	R1	R2
3000	3600	4200	4100	4700	4500	5150
3200	3725	4335	4200	4850	4660	5315
3400	3850	4470	4300	5000	4820	5480
3600	3975	4605	4450	5150	4980	5645
3800	4100	4740	4600	5300	5140	5810
4000	4225	4875	4750	5450	5300	5975
4200	4350	5010	4900	5600	5460	6140
4400	4475	5145	5050	5750	5620	6305
4600	4600	5280	5200	5900	5780	6470
4800	4725	5415	5350	6050	5940	6635
5000	4850	5500	5500	6200	6100	6800
5200	4975	5685	5650	6350	6260	6965
5400	5100	5820	5800	6500	6420	7130
5600	5225	5955	5900	6650	6580	7295
5800	5300	6090	6050	6800	6740	7460
6000	5475	6225	6200	6950	6900	7625

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

Motor Application Unit:mm

Type	Vertical Rise H(mm)				
W800	H≤7600	H≤9000	H≤10500		
W1000	H≤5000	H≤7600	H≤9000	H≤10500	
W1200	H≤4200	H≤6000	H≤7600	H≤9000	H≤10500
MOTOR(kW)	5.5	7.5	11	13	15

Floor Opening Unit:mm

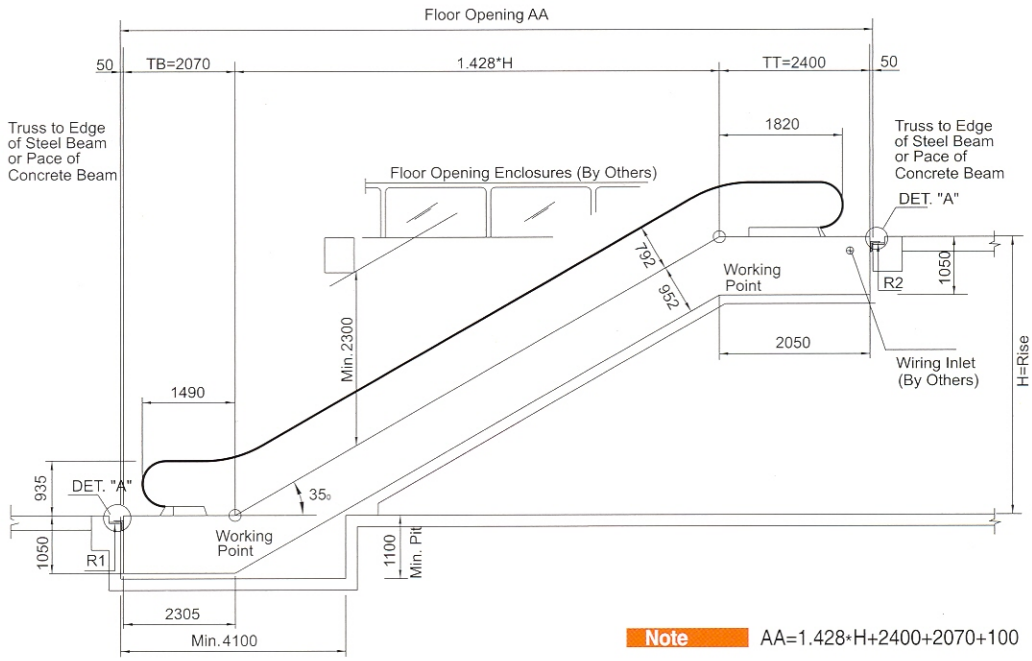
Vertical Rise(H)	1750 to 6000(2Flat Steps)	6000 to 10500(3Flat Steps)
Top Truss(TT)	2273	2740
Horizontal Length(W.P to W.P.)	1.732*H	
Bottom Truss(TB)	2070	2527
Floor Opening(AA)	1.428*H+TT+TB+100	

Note

1. When the vertical rise ranges over 6000mm to 10500mm, an intermediate supports is required.
2. Maximum rise: 10500mm.
3. Maximum cladding weight of 50 kgs/m²(10lbs/ft²)
4. In case of applying EN code, the size of the standing area shall be at least 0.5m long.
5. In case of VVVF system, top truss extension (500mm add.) should be required for installing inverter device.
6. The sizes shown by (*) marks are applied to 3 flat steps.

W-BT 35° ESCALATORS LAYOUT PLAN

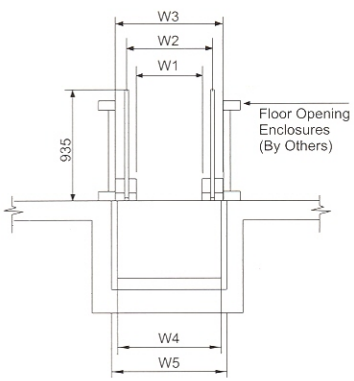
04



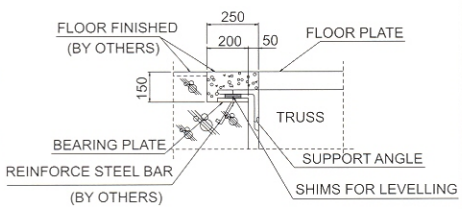
Note AA=1.428*H+2400+2070+100

Section Dimensions Unit:mm

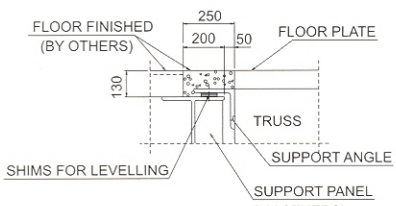
Type	W800	W1000	W1200
W1	612	813	1014
W2	855	1056	1257
W3	1147	1348	1549
W4	1097	1298	1499
W5	1248	1449	1650



Typical Concrete Support



Typical Steel Support



DET. "A"

Reactions Unit:kgs

Vertical Rise H(mm)	W800		W1000		W1200	
	R1	R2	R1	R2	R1	R2
3000	3520	4120	3950	4605	4400	5050
3200	3645	4255	4100	4750	4560	5215
3400	3770	4390	4200	5000	4720	5380
3600	3895	4525	4350	5145	4880	5545
3800	4020	4660	4500	5295	5040	5710
4000	4145	4795	4650	5445	5200	5875
4200	4270	4930	4800	5595	5360	6040
4400	4395	5065	4950	5745	5520	6205
4600	4520	5200	5100	5895	5680	6370
4800	4645	5335	5250	6045	5840	6535
5000	4770	5470	5400	6195	6000	6700
5200	4895	5605	5550	6345	6160	6865
5400	5020	5740	5700	6495	6320	7030
5600	5145	5875	5850	6645	6480	7195
5800	5270	6010	6000	6795	6640	7360
6000	5395	6145	6150	6945	6800	7525

Motor Application Unit:mm

Type	Vertical Rise H(mm)	
W800	H≤5800	H≤6000
W1000	H≤5000	H≤6000
W1200	H≤4200	H≤6000
MOTOR(kW)	5.5	7.5

Floor Opening Unit:mm

Vertical Rise(H)	1750 to 6000
Top Truss(TT)	2400
Horizontal Length(W.P to W.P.)	1.428*H
Bottom Truss(TB)	2070
Floor Opening(AA)	1.428*H+TT+TB+100

Note

1. Maximum rise: 6000mm.
2. Maximum cladding weight of 50 kgs/m² (10lbs/ft²).
3. In case of applying EN code, the size of the standing area shall be at least 0.5m long.
4. In case of VVVF system, top truss extension (500mm add.) should be required for installing inverter device.

WORKS TO BE DONE BY OTHER CONTRACTORS 05

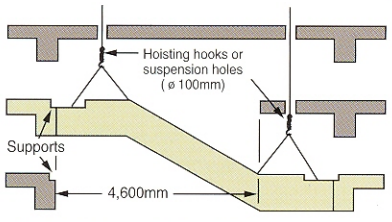
The following list explains the work which is necessary for a normal escalator installation, but is not done by the escalator contractor.
Therefore this work must be provided by others.

I Building Work

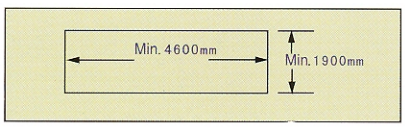
1. Necessary properly framed openings in the floors, necessary supports for the truss per the manufacture's drawings and information. Necessary enclosure, wellway railings, baffles and barricades around the wellway as required. Coordination with the escalator contractor for the location and installation 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 25kgs/m^2(5lbs/ft^2).
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 contracotr's floor support.
6. Provison 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)

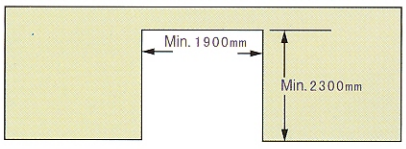
Floor Openings-Side view

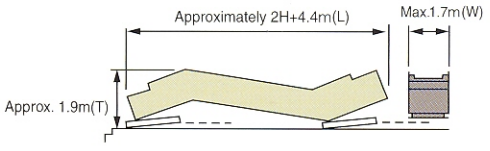


Floor Opening-Top view



Wall Opening-Side view





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

Building Safety Facilities (By Others)

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

II 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)

Motor (kW)	Power Supply Capacity (kVA)	Power Supply Voltage (kVA)	C.B. Rated Current (A)	Power Feeder (mm^2) (from power room to escalator controller)					
				20M	40M	60M	80M	100M	120M
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	5.5	8	8	14
7.5	14	I	60	8	22	30	38	50	50
		II	40	5.5	5.5	8	14	14	22
		III	30	5.5	5.5	5.5	8	14	14
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
15	27	I	125	22	38	50	80	80	100
		II	75	5.5	14	22	22	30	38
		III	60	5.5	8	14	22	22	22

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

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) (from power room to escalator controller) Span of Length (m)					
					20	40	60	80	100	120
Without Handrail Lighting	-	1.2	100-110	20	2	3.5	5.5		8	
			200-265		2		3.5	5.5		8

Note

1. The lighting power shall be supplied separately from the main power.
2. The power feeder sizes are based on using copper conductors and metallic conduit.
3. The optional comblights can be provided with the given lighting power.
4. For the application with other voltages consult with Hyundai for the engineering data.
5. Consult Hyundai when rise over 7600mm.

We reserve the right to change designs and specifications for the product development without prior notice.

SH-C-2006-01
W-BT Escalators
May. 2006

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