



ISO 9001
Certificate



ISO 14001
Certificate



SIGMA

Your Elevator Partner
www.sigmaelevators.com

SIGMA constantly endeavors to improve products. Please be reminded that information in this catalog is subject to change without prior notice.
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Commercial
Escalator

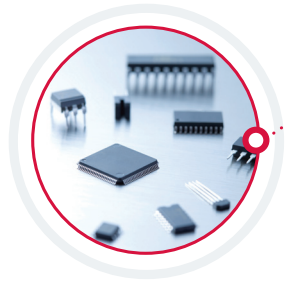


Your Elevator Partner... SIGMA

www.sigmaelevators.com



SIGMA Ride tomorrow, Lift future



Korean Engineered Products

SIGMA products are engineered by highly qualified Korean engineers and ensure customers to receive excellent products with reliable quality.



Aesthetics Design Excellence

SIGMA's Design Center in Korea and China are fully equipped with professionals who follow the most up-to-date aesthetic designs to satisfy customers needs.



Global Network

SIGMA has been with you for more than 45 years serving over 60 Countries.



SIGMA has already exported approximately 100,000 elevators
worldwide since year 1978

● SIGMA SUBS ● DISTRIBUTORS



Khalid Al Attar Tower
UAE



Al Rames Tower
Qatar



Darwaza Tower
Kuwait



Vorobiev Gory
Russia



Triumph Palace
Russia



Antei
Russia



Sheraton Hotel
Puerto Rico



Baiyoke Tower
Thailand



Grand Hyatt Hotel
Indonesia



Emerald Tower
Kazakhstan



LG Beijing Tower
China



ASEM Tower
Korea



Intercontinental Hotel
Korea



Korea World
Trade Center
Korea



Plaza La
Castellana
Venezuela



Torre
Global
Bank
Panama



Ocean
Two
Panama

The Essence of World Best Technologies...

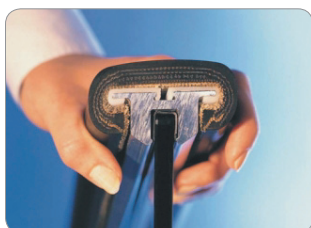
Escalator touches the heart of people all around the world





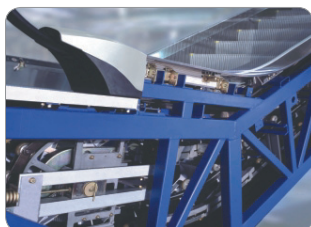
Design

Artistic design with smooth and natural lines



Safety

Elimination of the source of safety hazards



Robust

Strength with comfort and low noise



(Noise Test Room, Dalian Factory)

Low Noise & Minimal Vibration

SIGMA owns the perfect noise Testing room to assure low noise of each escalators to be shipped

Artistic design, best safety and best ride
New concept of engineering
Safe and low noise escalator

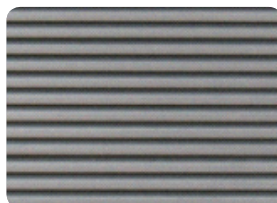
Floor



Stainless steel

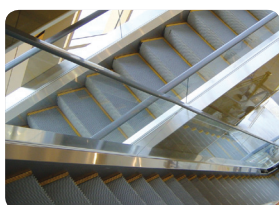


Aluminium (Option)



Aluminium Gray
or Black (Option)

Glass panel



Clear Glass

Various colors for handrails



- Ebony (Black) ES-01
- Orange HF-34 (Option)
- Royal Blue HF-36 (Option)
- Asia Red HF-93 (Option)
- Light Grey HF-19 (Option)
- Ever Green HF-25 (Option)

Green Future in Your Life

Green Technology

SIGMA escalator's unique design and various design options
make assimilation with building
aesthetics possible

Sigma Commercial Escalators are well suited for today's urban structures. New technological advancements have been applied to make escalator the world-best in design and safety. New technology and aero-dynamic design make Sigma escalators appealing while improved strength and Safety features offer security to passengers.

Sigma escalators will continue to meet customer demands with higher goals than expected. With certificates to meet various standards around the world, we offer the best quality and safety with Sigma escalators.

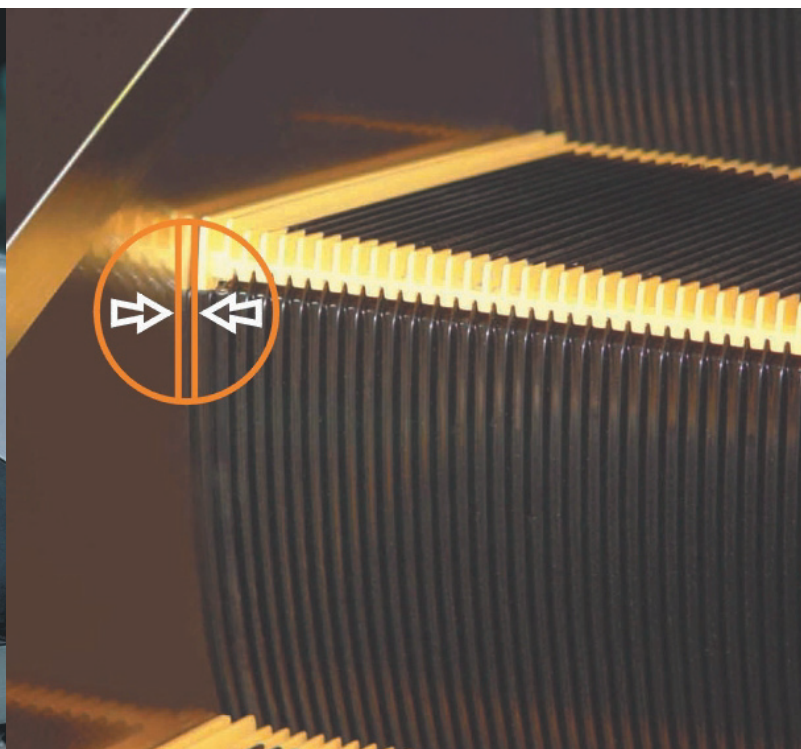


Safety is the foundation of design...

Safety Innovation

Entry Box

Handrail inlet engineered through emergency tests.
If engaging force is over 5kg, the deflect cover will be separated safely.



Gap between step and skirt guard
Surpass EN Code requirements (Gap 3mm)



❶ Comb Plate Switch



❷ Safety Guard at upper
and lower machine rooms



❸ Step Safety Switch



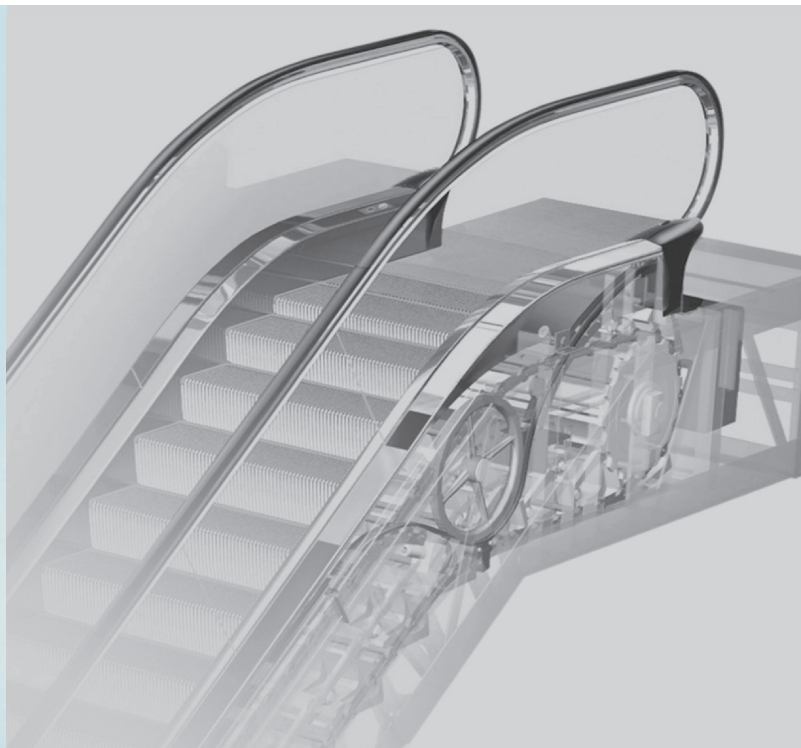
❹ Entry Switch



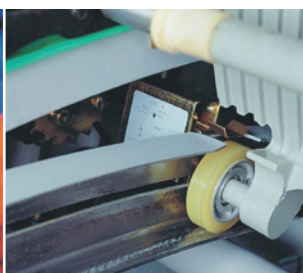
❺ Skirt Guard Safety
Device

Handrail

Engineered to prevent fingers getting caught between frame and handrail (Gap 2mm)



⑥ Driving Chain Safety Device



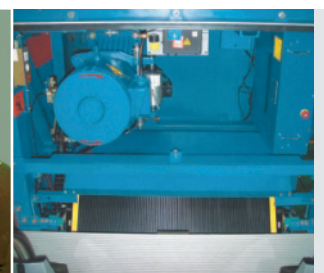
⑦ Step Roller Safety Device



⑧ Step Chain Safety Device



⑨ Emergency Stop Device



⑩ Expanded Maintenance Area

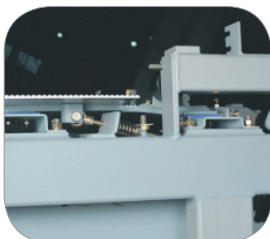
Structure & Safety Device

- Self-diagnostic functions with remote communication
- Engineered through field know-how
- Advanced safety system with robust design



Skirt Guard Safety Device

Stop escalator if objects are caught between step and skirt.



Comb Plate Safety Switch

Stop escalator if objects are caught between comb plate and step treads.



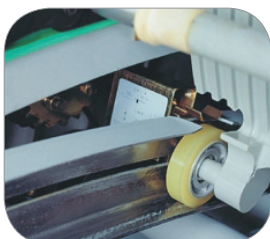
Entry Switch

Stop escalator if hand or object is pulled into the handrail inlet.



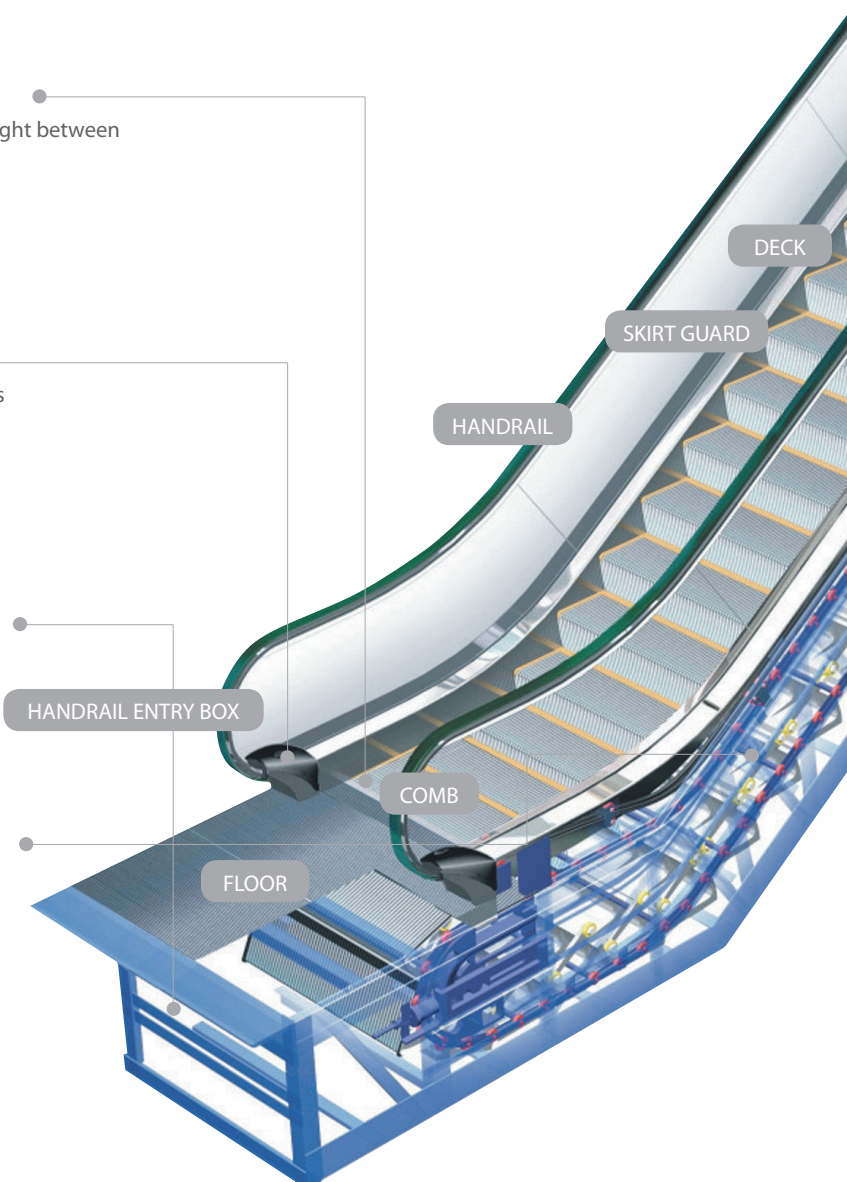
Step chain Safety Device

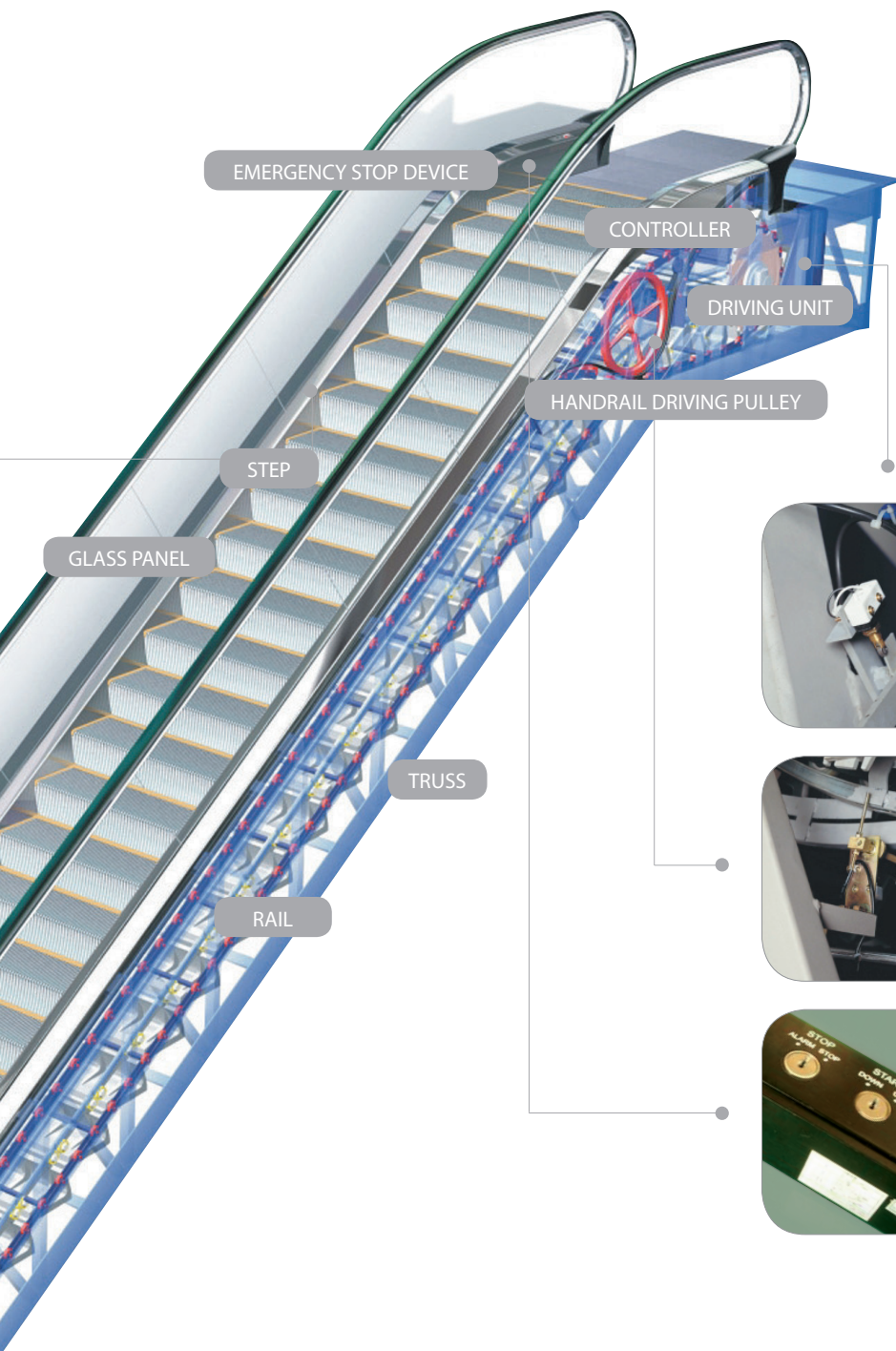
Stop escalator if the step chain breaks or becomes loose.



Step Roller Safety Device

Stop escalator if steps are operating in abnormal manner due to reasons such as foreign matters being caught between steps.





Green Light

Take care of the passengers for riding safety.

Non-reversing Safety Device

Stop escalator if its direction of operating is reversed.

Handrail Static Device

Prevent static electricity with handrail brush installed blocking static electricity



Driving Chain Safety Device

Stop escalator if the driving chain breaks or excessively loosen.



Step Safety Switch

Stop escalator if steps are operating in abnormal manner due to fractured step.



Emergency Stop Device

In an emergency, stop the escalator immediately if pressed.

Additional safety device options

Overspeed Detector

Stop escalator if operating above normal speed

Auxiliary Brake

Stop escalator if the driving chain breaks or over speed

Brake Lining Wear Safety Device

Stop escalator if the lining of main brake is worn abnormally

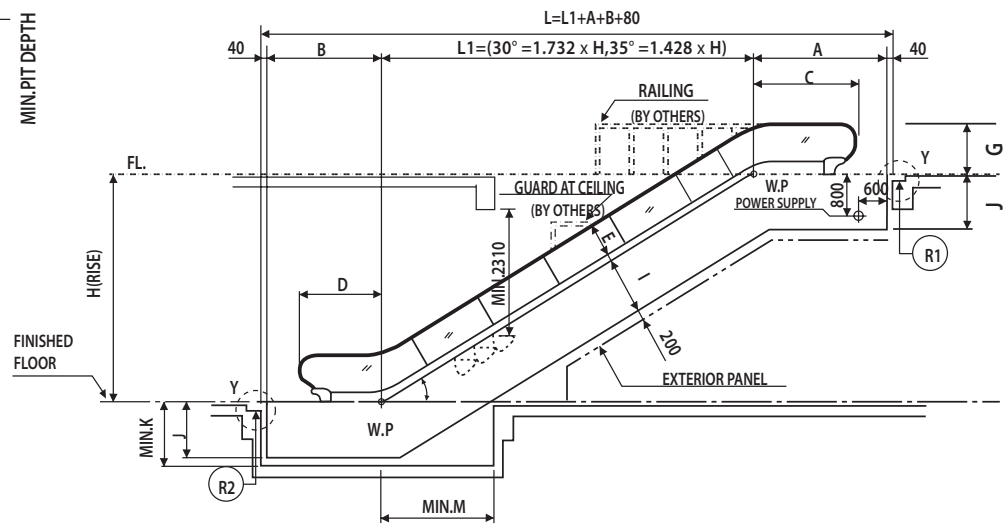
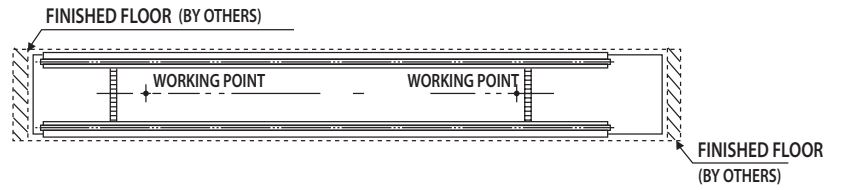
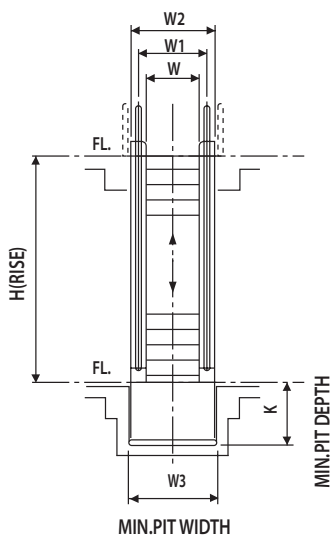
Handrail Speed Detector

Stop escalator if handrail speed is below normal due to handrail breakage or elongations

Handrail Broken Safety Device

Stop escalator if handrail breaks or stops

Layout (Rise : 2550mm ~ 6000mm)



Technical Data (Rise : 2550mm~6000mm)

I Specification

Part	Standard	Option
Control Type	Microprocessor Control (Compact System)	Microprocessor Control (Full Function System) Microprocessor Control (Full Function System with STAND-BY VF Function)
Step	STS Step (Black)	AL Step (Natural), AL Step (Gray), AL Step (Black)
Comb	AL	-
Skirt Guard	Zinc Plate Steel (Black)	STS Skirt
Floor	STS	AL
Lubrication	Auto Lubrication (Without Float Switch)	Auto Lubrication (With Float Switch)
Entry Box	Steel Plate Bended with Black Color Painting	STS Bended

I Dimensions

(units : mm)

Angle of Inclination	No. of Flat Step	Rise (H)	Step Width	A	B	G	C	D	I	J	K	M
30°	2	2550 ~ 6000	600	2900	2172	930	2165	1936	980	997	1050	2500
			800/1000	2400		1000	2198	1969				
		2800 ~ 6000	600	3300		930	2565	2336				2200
			800/1000	2800		1000	2598	2369				
	3	2550 ~ 6000	600	2925	2242	930	2189	2007				2500
			800/1000	2425		1000	2222	2040				
		2800 ~ 6000	600	3325		930	2589	2407				2200
			800/1000	2825		1000	2622	2440				

(units : mm)

No. of Flat Step	Angle of Inclination	Rise(H)	Step Width	W	W1	W2	W3
2/3	30°/35°	2550	600	611	802	1144	1250
		~	800	814	1005	1347	1450
		6000	1000	1017	1208	1550	1650

I Reaction Load

(unit : kN, L1:m, 1kN=100kg)

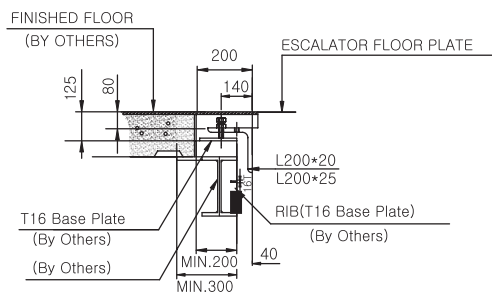
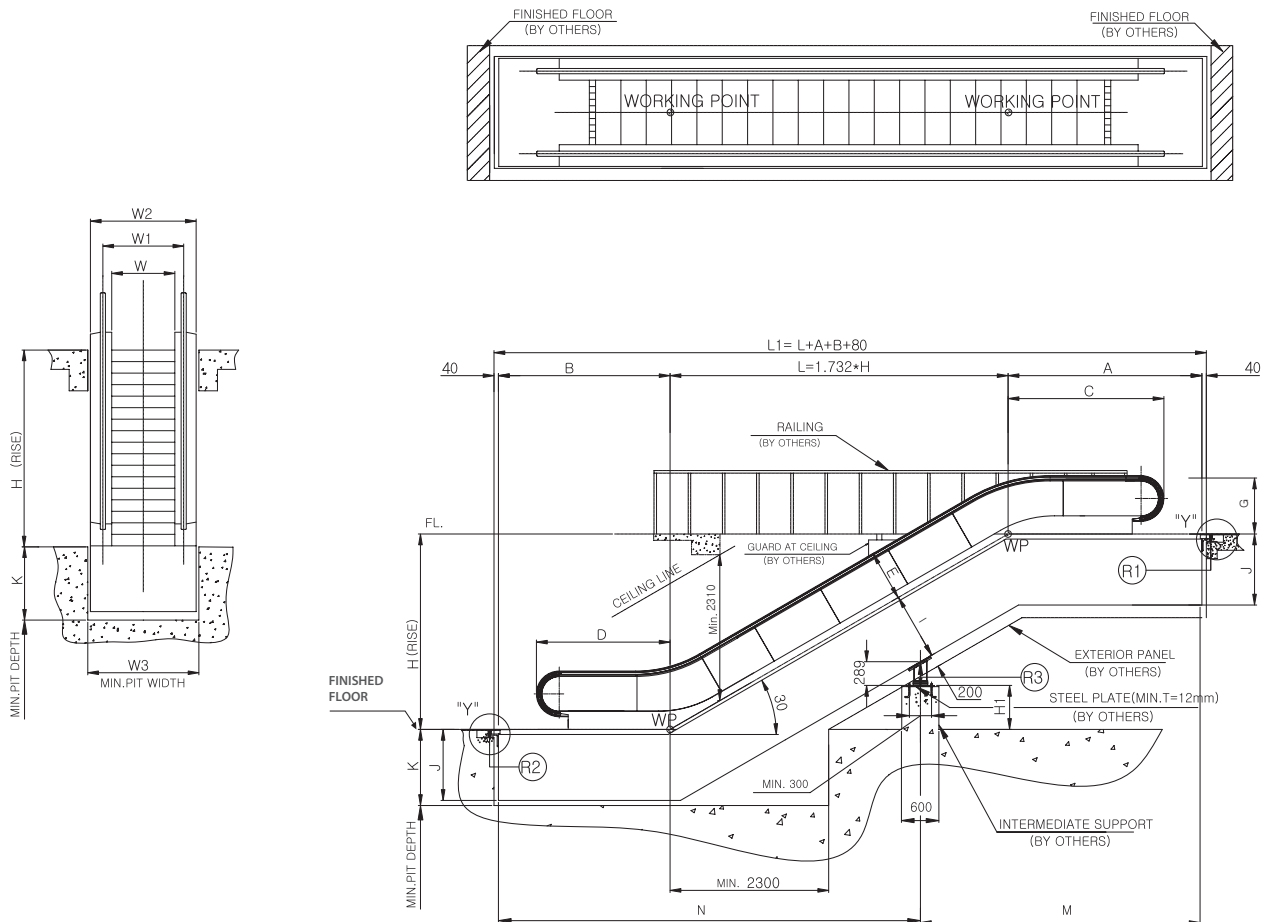
No. of Flat Step	Angle of Inclination	Rise(H)	R1	R2	R3 (With Intermediate Support)
2/3	30°/35°	600	4.214 * L1 + 10	4.214 * L1	-
			1.70 * L1 + 12	1.70 * L1	5.30 * L1
		800	4.890 * L1 + 10	4.890 * L1	-
			1.832 * L1 + 12	1.832 * L1	5.689 * L1
		1000	5.566 * L1 + 10	5.566 * L1	-
			2.075 * L1 + 12	2.075 * L1	6.34 * L1

I Electric Data

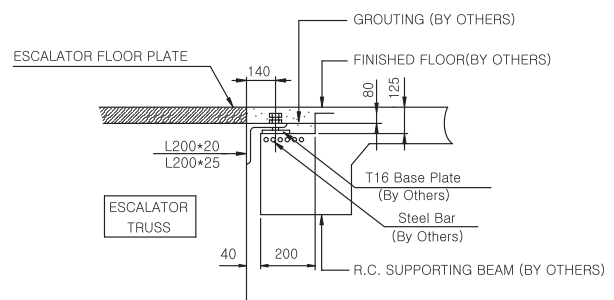
(Based on 400V, Altitude up to 1000m)

No. of Flat Step	Angle of Inclination	Rise(H)	Rise H(mm)	Motor (kW)	Power Source Lead In Wire (mm2)	MCCB Capacity of Building (A)
2/3	30°	600	2550 ~ 6000	7.5	6	30
		800	2550 ~ 6000	7.5	6	30
		1000	2550 ~ 5000	7.5	6	30
			5001 ~ 6000	9	6	30
	35°	600	2800 ~ 6000	7.5	6	30
		800	2800 ~ 6000	7.5	6	30
		1000	2800 ~ 5000	7.5	6	30
			5001 ~ 6000	9	6	30

Layout (Rise : 6050mm ~ 8000mm)



"Y" Detail (Steel structure)



"Y" Detail (Concrete structure)

Technical Data (Rise : 6050mm~8000mm)

Specification

Part	Standard	Option
Control Type	Microprocessor Control (Compact System)	Microprocessor Control (Full Function System)
		Microprocessor Control (Full Function System with STAND-BY VF Function)
Step	STS Step (Black)	AL Step (Natural), AL Step (Gray), AL Step (Black)
Comb	AL	-
Skirt Guard	Zinc Plate Steel (Black)	STS Skirt
Floor	STS	AL
Lubrication	Auto Lubrication (Without Float Switch)	Auto Lubrication (With Float Switch)
Entry Box	Steel Plate Bended with Black Color Painting	STS Bended

Dimensions

(units : mm)

No. of Flat Step	Angle of Inclination	Rise (H)	Step Width	A	B	G	C	D	I	J	K	M
3	30°	6050 ~ 8000	600	3300	2572	930	2565	2336	980	997	1050	2200
			800/1000	2800		1000	2598	2369				
						930	2565	2336				
						1000	2598	2369				

(units : mm)

No. of Flat Step	Angle of Inclination	Rise(H)	Step Width	W	W1	W2	W3
3	30°	6050 ~ 8000	600	611	802	1144	1250
			800	814	1005	1347	1450
			1000	1017	1208	1550	1650

Reaction Load

(unit : kN, L1:m, 1kN=100kg)

No. of Flat Step	Angle of Inclination	Step Width	R1	R2	R3 (With Intermediate Support)
3	30°	600	4.214 * L1 + 10	4.214 * L1	-
			1.70 * L1 + 12	1.70 * L1	5.30 * L1
		800	4.890 * L1 + 10	4.890 * L1	-
			1.832 * L1 + 12	1.832 * L1	5.689 * L1
		1000	5.566 * L1 + 10	5.566 * L1	-
			2.075 * L1 + 12	2.075 * L1	6.34 * L1

Electric Data

(Based on 400V, Altitude up to 1000m)

No. of Flat Step	Angle of Inclination	Step Width	Rise H(mm)	Motor (kW)	Power Source Lead In Wire (mm2)	MCCB Capacity of Building (A)
3	30°	600	6050 ~ 8000	7.5	6	30
			6050 ~ 6600	7.5	6	30
		800	6601 ~ 8000	9	6	30
			6050 ~ 7000	11	6	30
		1000	7001 ~ 8000	15	6	30