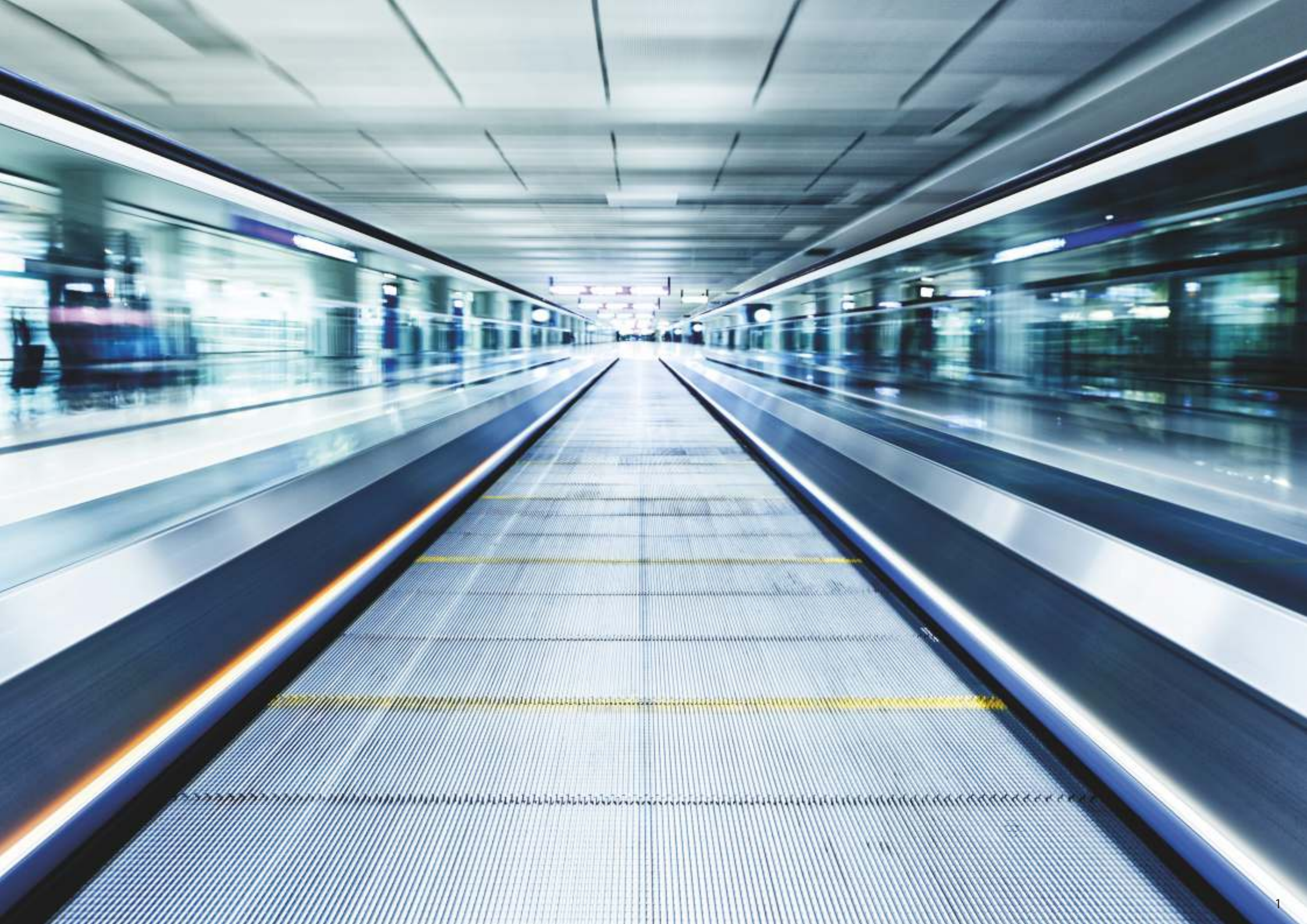


GRON
L I F T



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Escalator
Moving walks



Superb, artistry, exquisite escalator, moving walks

Gron Lift serial escalator and moving walks use the human design ideas. It integrates aesthetic, safety and environmental protection into one. It provides vast customers base with the designed outline, the reliable quality, the outstanding performance.

- The truss adopts the robotic welding technology greatly enhances the manufacturing process. It is high quality, and it is sturdy and durable, beauty and elegance.
- The integral aluminium frontier plate is tough and rugged, stylish and lightweight, and easy for maintenance.
- The diameter of the contact roller is $\geq 70\text{mm}$. This can effectively reduce the roller pressure, and improve the step chain breaking force.
- The B-type escalator adopts the stylish and beautiful stainless handrail bracket suitable for large lifting heights.
- Outside the skirting panel, there is a transparent friction-reducing coating, effectively reducing the friction loss between the step and the skirting panel.
- The wedge has a spring structure and glass bracket. By tightening the spring, users can ensure that the wedge and glass are closely laminated, which is sturdy and steady and easy to be installed.
- According to EN115-2010, Directive machine 2006/42/EC



Marked



The diameter of the contact roller increases



Reduce roller pressure



Step chain breaking force increase greatly



Safety factor improves

Integrated design



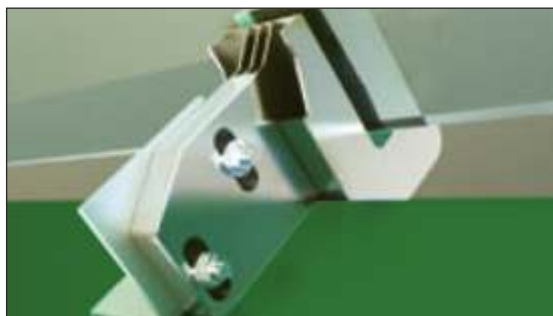
The integrated design of the upper and lower drive and the step track will avoid step moving to GRure a smooth transition to the curve track and drive, and reduce the vibration when the step is running.



Wear-resisting painted skirt panel



Robotic welding



Wedge with spring structure and glass bracket (optional)



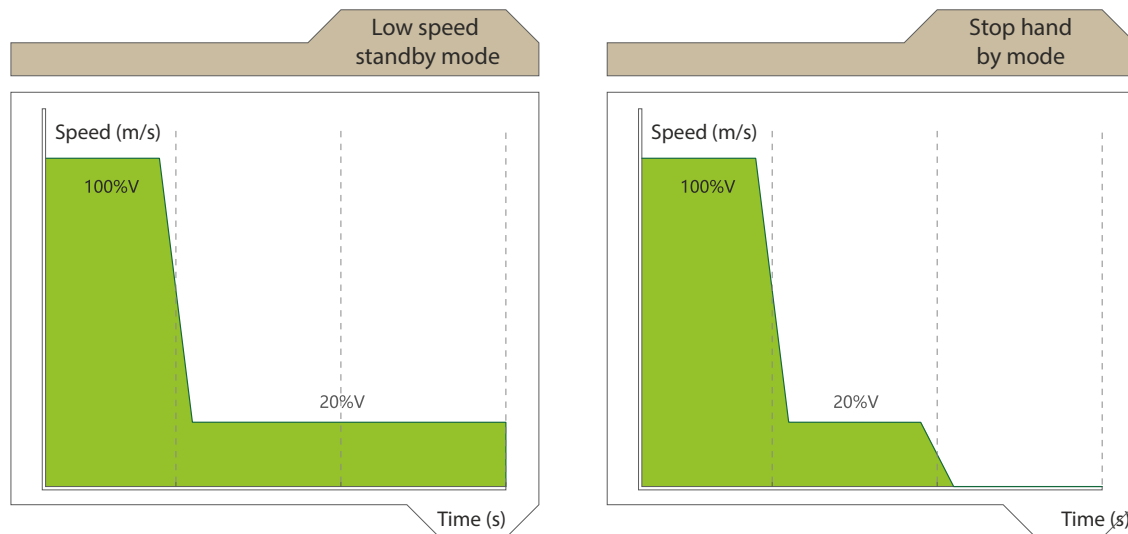
Stainless steel handrail bracket

Green technology, energy-saving

The intellectual control system drives the electric motor into ECO economic running conditions can save 30% - 70% of the energy.



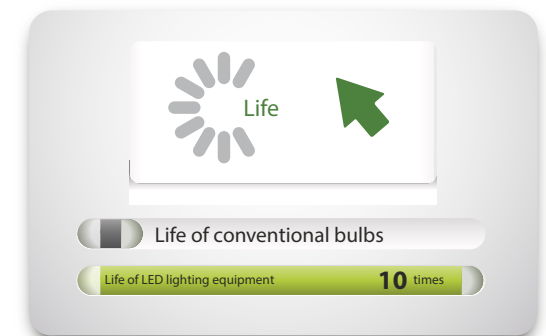
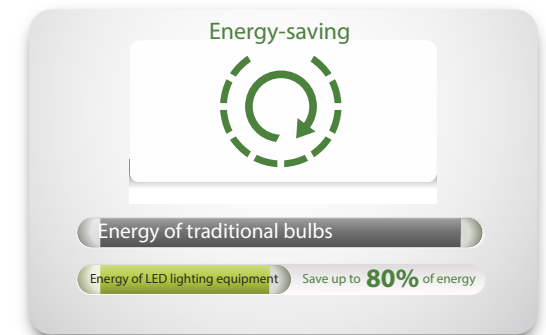
Frequency converter, reduce electricity



When choosing the frequency converter, it can realize the escalator intermittent operation and standby effectively reduces the energy consumption.

LED energy-saving lighting system

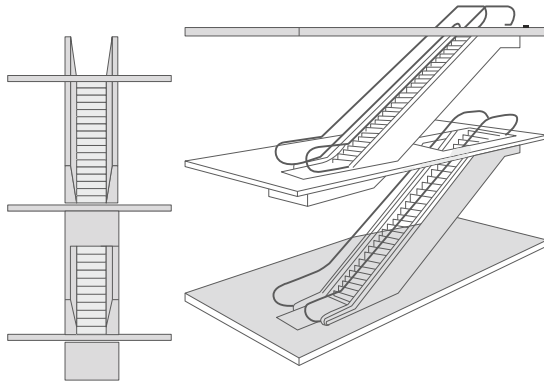
All lighting equipment uses LED lighting technology. Compared with traditional bulbs, it can save up to 80% more energy, and its life is 10 times longer that of the conventional bulbs.



Arrangement planning guide

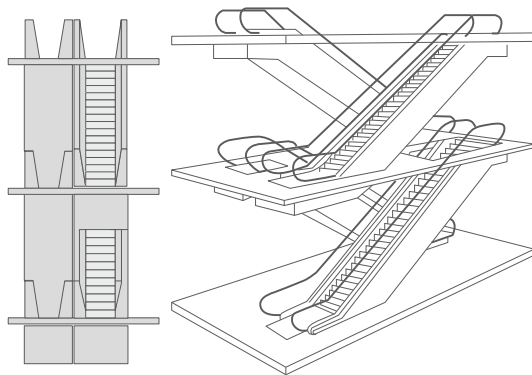
Diverse products, reasonable layout and technical planning.

Interrupted arrangement (one travel direction)



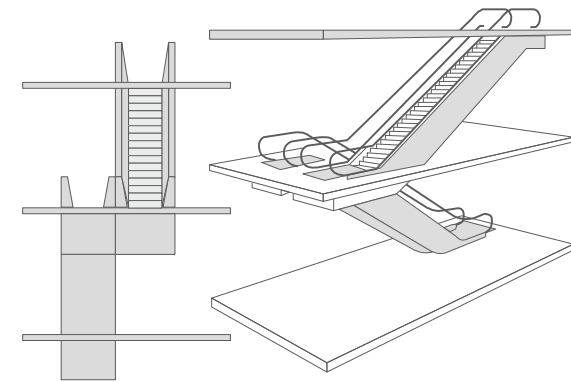
This arrangement will allow the passengers to view the shops around the escalator.

Continuous arrangement (one travel direction)



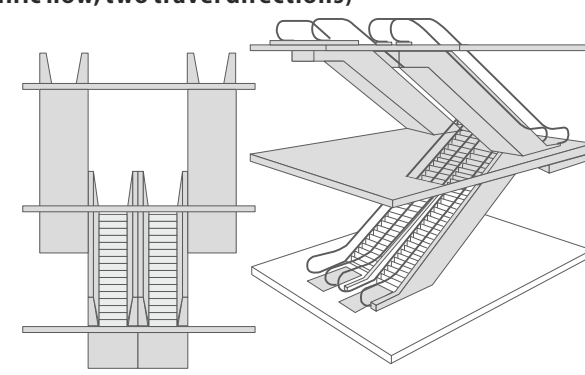
This arrangement is mainly used in large department stores, public buildings and places of public transport.

Multi-level criss-cross arrangement (continuous traffic flow, two travel directions)



This arrangement is mainly used for small department stores. This intermittent arrangement requires more space.

Parallel arrangement (continuous traffic flow, two travel directions)



This arrangement is mainly used for large traffic shopping malls and public transport facilities. When there are three or more escalators, it should be possible to change the direction of movement in accordance with the traffic.

Different types of styles, mobile landscape



Handrail colors



✓ Black

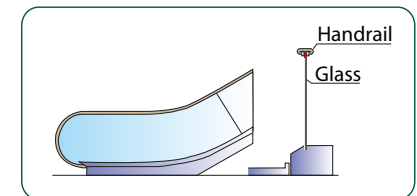
○ Yellow

○ Red

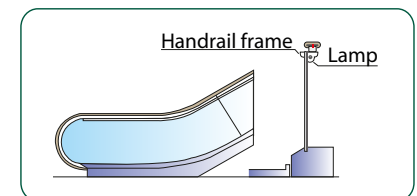
○ Grey

- ✓ Standard
- Optional

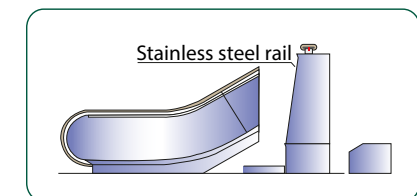
Balustrade design



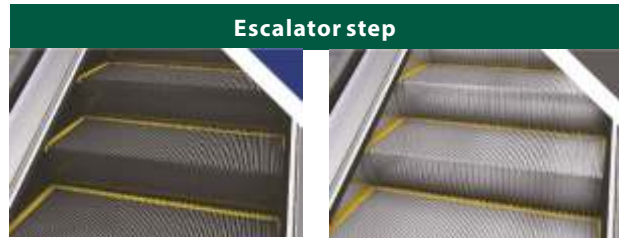
Type-I (slim)



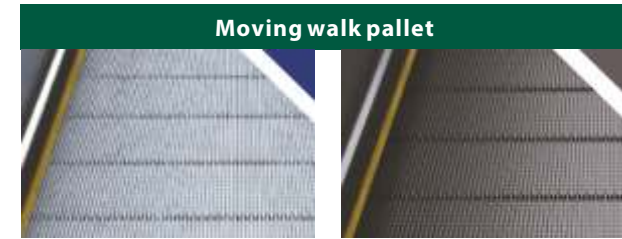
Type-P (normal)
with lighting (inclined)



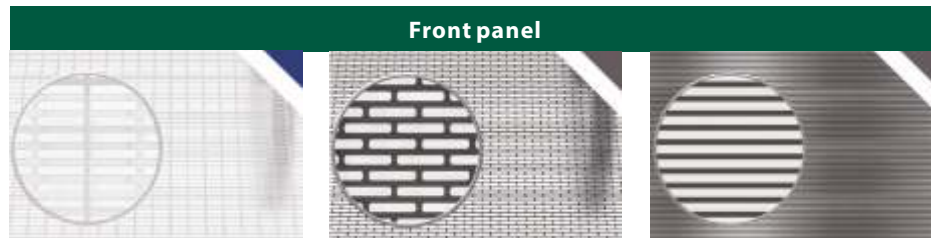
Type-T (inclined) public



- ✓ Black stainless steel with yellow line
- Aluminium with yellow line



- ✓ Aluminium alloy with the yellow line
- Black stainless steel with the yellow line



- ✓ Square groove black painting
- Brick design
- Striped groove black painting



- ✓ Hairline stainless steel
- Aluminium alloy

- ✓ Standard
- Optional



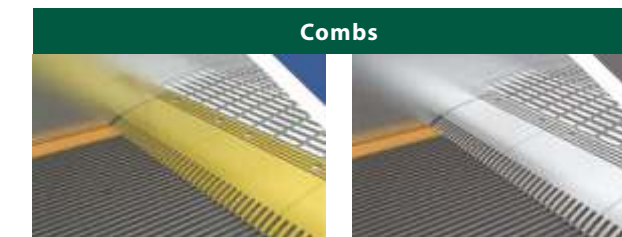
- White
- Yellow



- Transparent plastic Led display
- Black plastic dot matrix display



- White
- Red
- Yellow



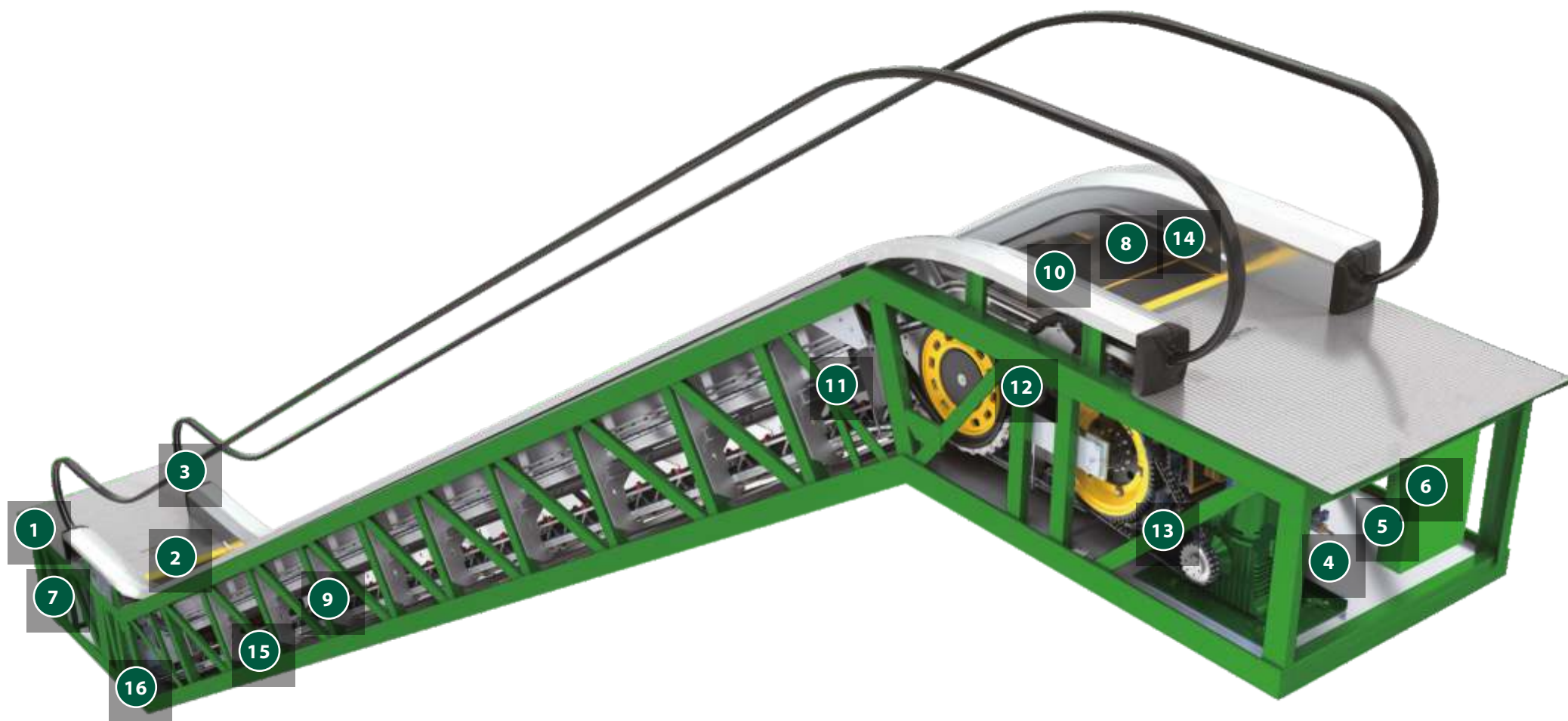
- ✓ Yellow polyester
- Aluminium

Passenger safety

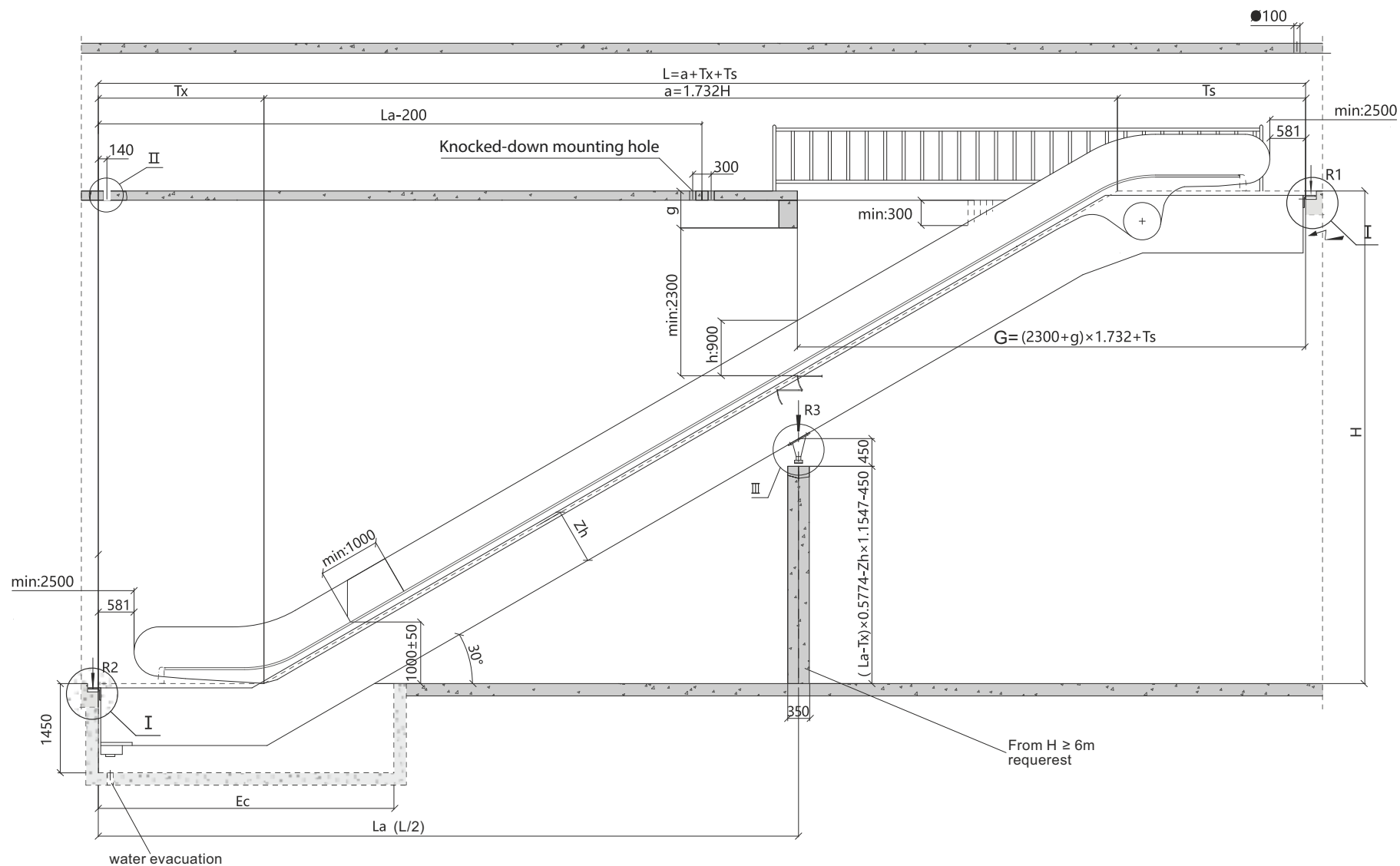
Multiple safety protection functions for escalator and moving walk

Function name	Function description
1 Emergency stop button	Emergency stop device in an emergency, stop immediately if pressed.
2 Comb plate safety device	Comb plate safety device stop if objects are caught between comb plate and step treads.
3 Protective device for handrail	Handrail entry safety device stops if a hand or object is pulled into the handrail entry.
4 Phase (fault phase) protection	Phase monitoring device stops if missing phase or wrong phase occurs.
5 Over speed protection device	Over-speed detector stops if operating above normal speed.
6 Non operation reversal protection device	Non-reversing safety device stops if its direction of operation is reversed.
7 Cascade chain protection device	Step chain safety device stops if the step chain breaks or becomes loose.
8 Apron protection device	Skirting panel safety device stops if objects are caught between the step and skirting panel.
9 Step and pallet protection device	Step safety device stops if steps are operating in abnormal manner due to fractured step.
10 Step gap lighting	Step gap green light under the horizontal steps ease passengers to ride safe.
11* Additional brake device	Auxiliary brake stops if the driving chain breaks or over-speeds.
12 Safety device of brake shoe wear	Brake lining wear safety device stops if the lining of main break is worn abnormally.
13 Drive chain protection device	Driving chain safety device stops if the driving chain breaks are excessively loosed.
14* Comb plate lighting	Comb plate light lighting on both sides of comb plate ease passengers to ride safety.
15 Handrail speed detection device	Handrail speed detector stops if handrail is below normal speed due to handrail breakage or elonga - tion.
16 Protection device with a broken handrail	Handrail broken safety device stops if the handrail breaks or stops.

optional



I II III: p.24

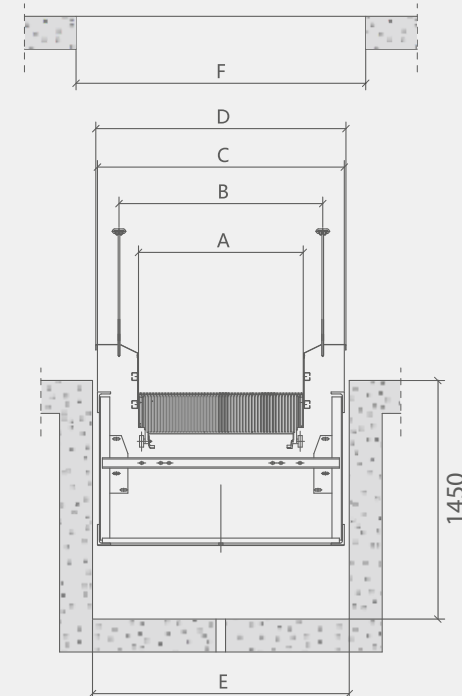


30° GR 800 outdoor / GR 801 indoor

Horizontal step	TS - Up step lenght (mm)			TX - Down step lenght (mm)	EC - Pit lenght (mm)
	600 step	800 step	1000 step		
2	2815	2565	2565	2200	4300
3	3305	3055	3055/3722	2690	5000
R1 (kN)	4,1xL2+15,5	4,1xL1+7,8	4,25xL+9,5		
R2 (kN)	4,5xL2+16,1	4,5xL1+7,8	4,5xL+10,5		
R3 (kN)	5xL2+17,5	5xL1+8,5	5,2xL+11,5		

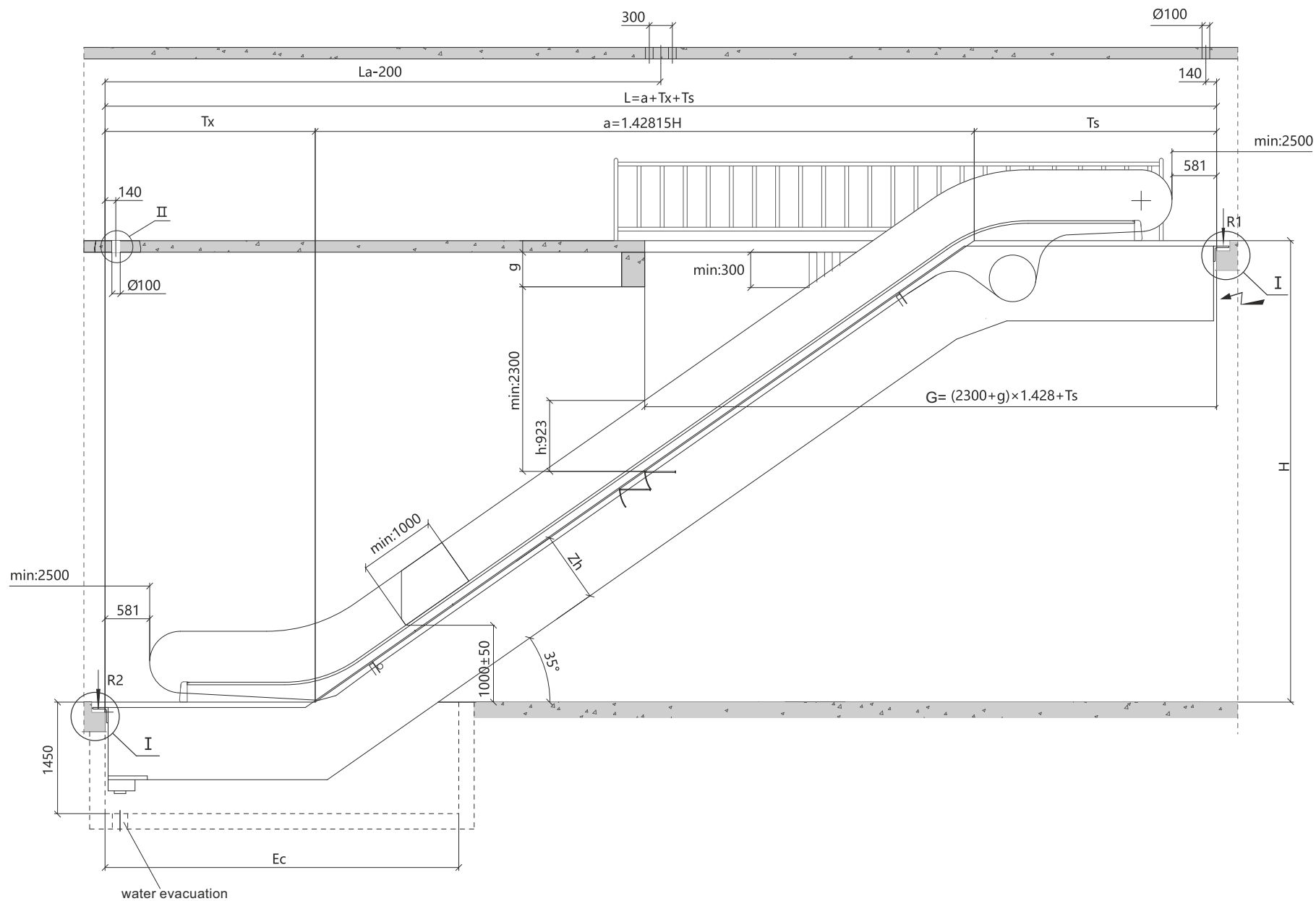
Machine power (kw)	H - Rise (m)		
	600 step	800 step	1000 step
5,5	H ≤ 7,1	H ≤ 4,9	H ≤ 3,7
7,5	H ≤ 9,2	H ≤ 6,6	H ≤ 5
11	H ≤ 11	H ≤ 9,1	H ≤ 7,3
15		H ≤ 11	H ≤ 9,2
2 X 11			H ≤ 11

Specifications		Rise	
Degree of inclinaison	30°	Max. (H,m)	11
Speed	0,5 m/s		
Horizontal steps	2 (standard)	Min. (H,m)	1,2
	3 (optional)		



Step type (mm)	600 step	800 step	1000 step
A	600	800	1000
B	838	1038	1238
C	1100	1300	1500
D	1120	1320	1520
E	1160	1360	1560
F	1800	2000	2200

I II III: p.24

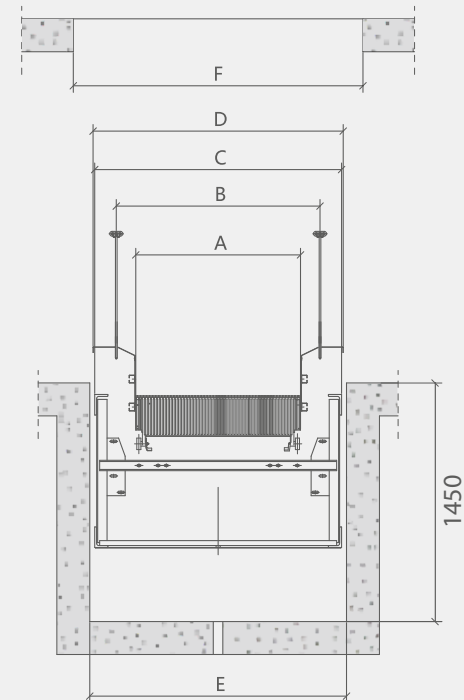


35° GR 800 outdoor / GR 801 indoor

Horizontal step	TS - Up step lenght (mm)			TX - Down step lenght (mm)	EC - Pit lenght (mm)
	600 step	800 step	1000 step		
2	2912	2662	2662	2243	4100
3	3402	3152	3152	2733	4600
R1 (kN)	4,1xL2+16,5	4,1xL1+8,8	4,25xL+10,5		
R2 (kN)	4,5xL2+17,1	4,5xL1+8,8	4,5xL+11,5		

Machine power (kw)	H - Rise (m)		
	600 step	800 step	1000 step
5,5	H ≤ 6	H ≤ 5	H ≤ 3,8
7,5		H ≤ 6	H ≤ 6

Specifications		Rise	
Degree of inclinaison	35°	Max. (H,m)	6
Speed	0,5 m/s		
Horizontal steps	2 (standard)	Min. (H,m)	1,4
	3 (optional)		

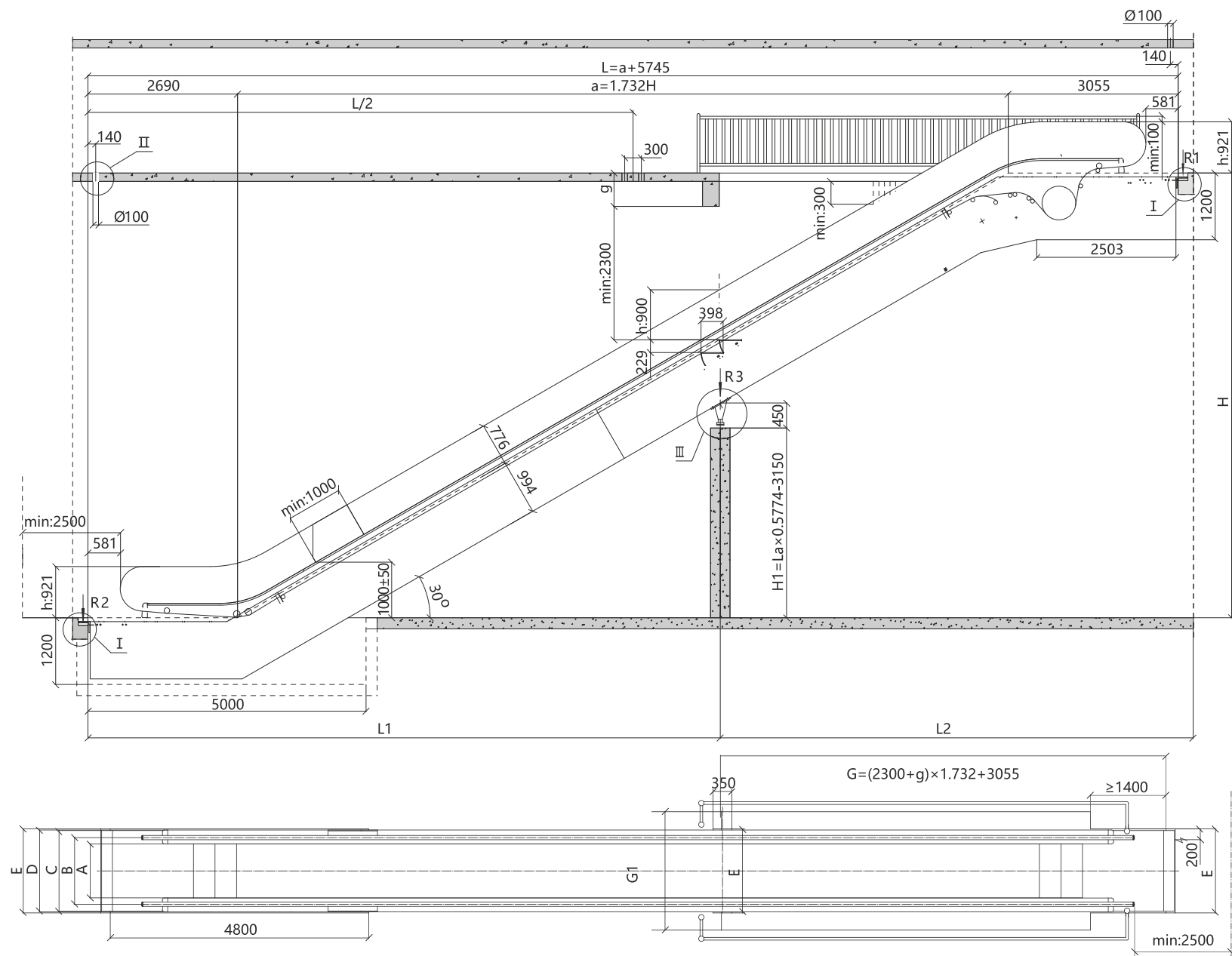


Step type (mm)	600 step	800 step	1000 step
A	600	800	1000
B	838	1038	1238
C	1100	1300	1500
D	1120	1320	1520
E	1160	1360	1560
F	1800	2000	2200

GRON

30° GR 803 indoor

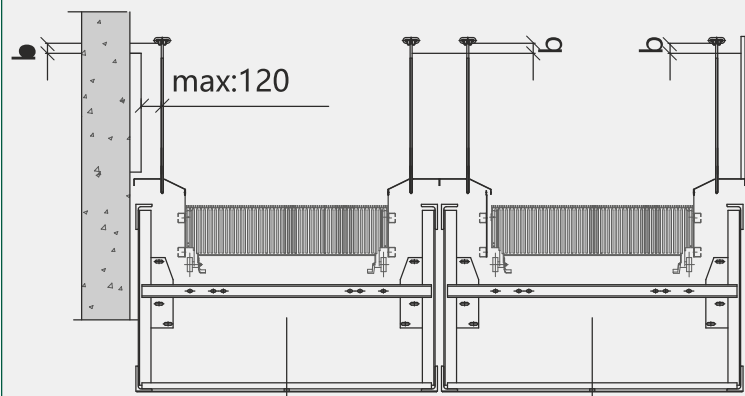
I II III: p.24



Type	Motion speed (m/s)	Rise	Reaction force R1	Reaction force R2	Reaction force R3	Step width A	Balustrade spacer B	Truss width C	Decoration width D	Construction layout opening width E	Construction layout opening width G1
GR803-30-600	0,5	H = mm	4,1xL2+15,5	4,1xL1+7,8	4,25xL+9,5	600	838	1100	1120	1160	1800
GR803-30-800			4,5xL2+16,1	4,5xL1+7,8	4,5xL+10,5	800	1038	1300	1320	1360	2000
GR803-30-1000			5xL2+17,5	5xL1+8,5	5,2xL+11,5	1000	1238	1500	1520	1560	2200

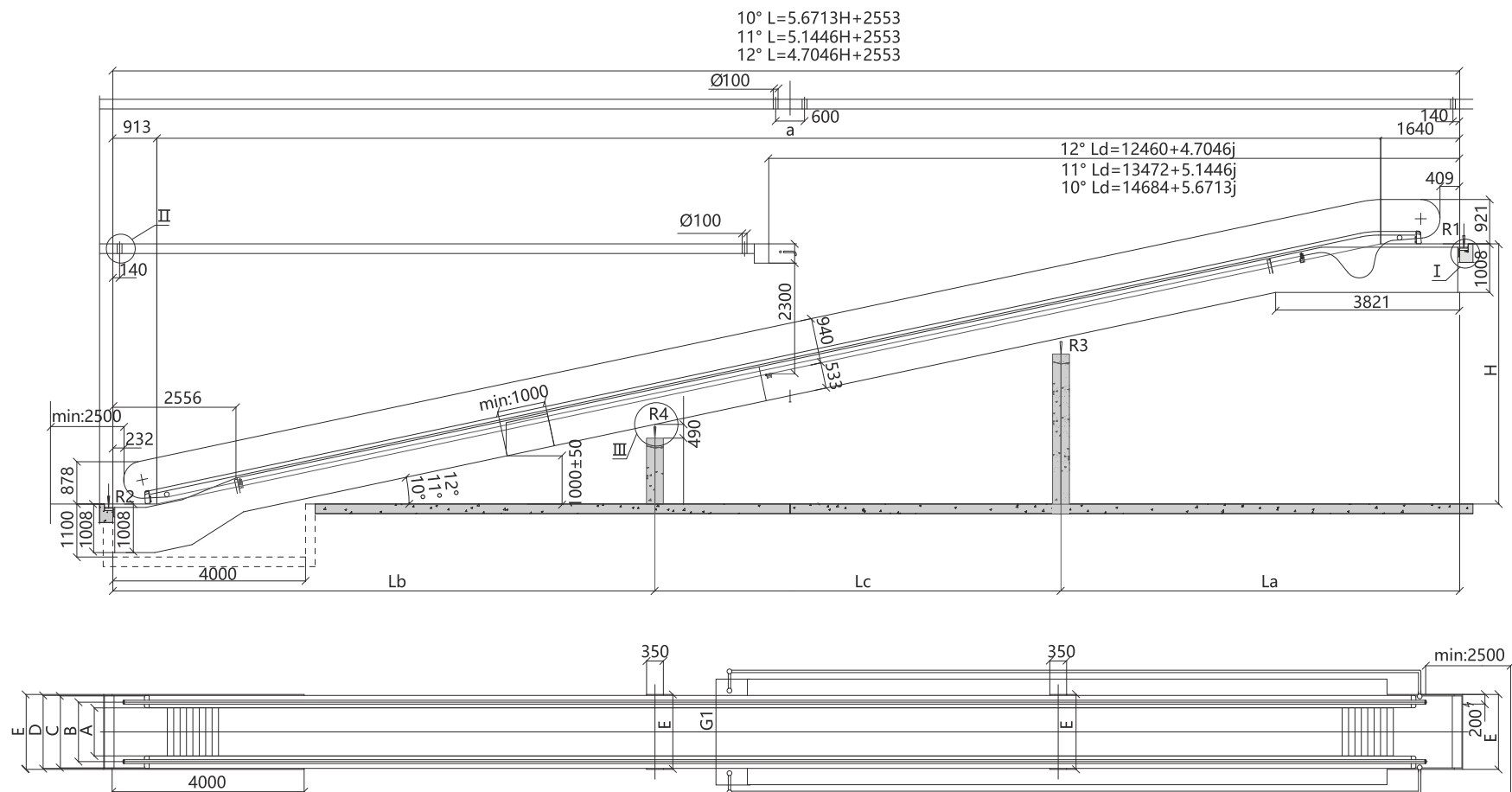
R1, R2, R3 Unit = kN

User protection picture



- This drawing is fit for the construction of 12 m and below single mounted escalators.
- It chooses step width 600 mm. Upper truss shall be extended 300 mm.
- It chooses double-drive; Upper truss shall be extended 417 mm.
- Size unit: mm. It is possible to change some individual sizes. If there are any alterations, advance notice won't be given then.

I II III: p.24

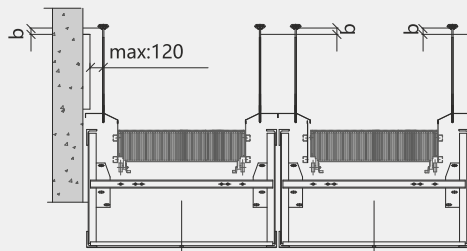


MOVING WALKS GRN900-A GRN901-A indoor

Type	Motion speed (m/s)	Rise	Inclinaison	Reaction force				Reacting force parameters			Pallet widths					
				R1	R2	R3	R4	q	M	N	A	B	C	D	E	G1
GRN900-A-a-800 GRN901-A-a-800	0,5	H = mm	10°	Laxq+M	Lbxq+N	(La+Lc) x1,3xq	Lb+Lc) x1,3xq	0,0039	9,5	4,5	800	1038	1300	1320	1360	2000
GRN900-A-a-1000 GRN901-A-a-1000			11° 12°					0,0045	11	5	1000	1238	1500	1520	1560	2200

R1, R2, R3, R4 Unit = kN

User protection picture



Degree of inclinaison	Rise		Inte. support		La	Lb	Lc
	From	To	R3	R4			
10°	1297	2178	-	-	-	-	-
	2179	4823	1	-	L/2	L/2	-
	4824	6000	1	1	L/3	L/3	L/3
11°	1449	2420	-	-	-	-	-
	2421	5335	1	-	L/2	L/2	-
	5336	6000	1	1	L/3	L/3	L/3
12°	1601	2663	-	-	-	-	-
	2664	5851	1	-	L/2	L/2	-
	5852	6000	1	1	L/3	L/3	L/3

- This graph is applied to the construction of the civil engineering construction of 6m and the following one.
- It chooses double-drive; Upper truss shall be extended 417 mm.
- Size unit: mm. It is possible to change somme individuals sizeq. If there is any alterations, advance notice won't be given then.

All indicates that the inclination angle of sidewalk is 10°, 11° and 12°.

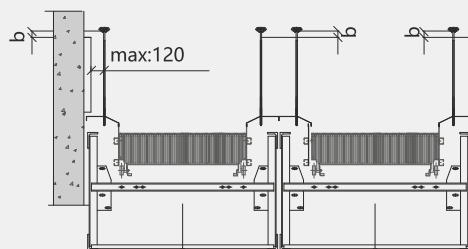
$$\begin{aligned} 10^\circ \text{ L} &= 5.6713\text{H} + 4841 \\ 11^\circ \text{ L} &= 5.1446\text{H} + 4841 \\ 12^\circ \text{ L} &= 4.7046\text{H} + 4841 \end{aligned}$$


MOVING WALKS GRN900-B GRN901-B indoor

Type	Motion speed (m/s)	Rise	Inclinaison	Reaction force				Reacting force parameters			Pallet widths					
				R1	R2	R3	R4	q	M	N	A	B	C	D	E	G1
GRN900-B-a-800 GRN901-B-a-800	0,5	H = mm	10°	Laxq+M	Lbxq+N	(La+Lc) x1,3xq	Lb+Lc) x1,3xq	0,0039	9,5	4,5	800	1038	1300	1320	1360	2000
GRN900-B-a-1000 GRN901-B-a-1000			11° 12°					0,0045	11	5	1000	1238	1500	1520	1560	2200

R1, R2, R3, R4 Unit = kN

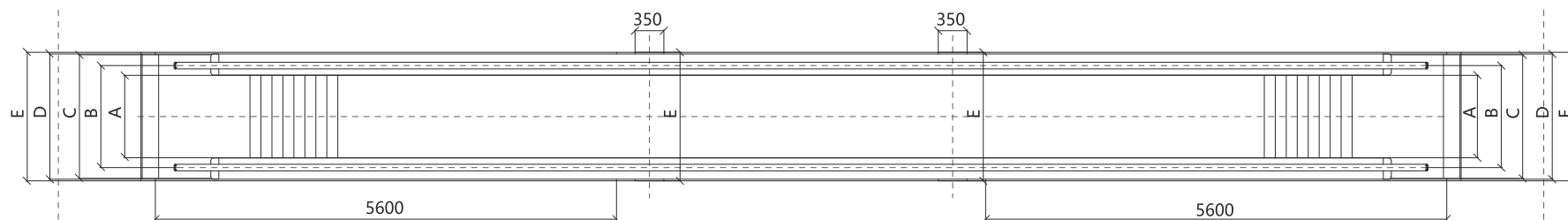
User protection picture



Degree of inclinaison	Rise		Inte. support		La	Lb	Lc
	From	To	R3	R4			
10°	1297	2178	-	-	-	-	-
	2179	4823	1	-	L/2	L/2	-
	4824	6000	1	1	L/3	L/3	L/3
11°	1449	2420	-	-	-	-	-
	2421	5335	1	-	L/2	L/2	-
	5336	6000	1	1	L/3	L/3	L/3
12°	1601	2663	-	-	-	-	-
	2664	5851	1	-	L/2	L/2	-
	5852	6000	1	1	L/3	L/3	L/3

- This graph is applied to the construction of the civil engineering construction of 6 m and the following one.
- It chooses double-drive; Upper truss shall be extended 417 mm.
- Size unit: mm. It is possible to change somme individuals sizes. If there is any alterations, advance notice won't be given then.

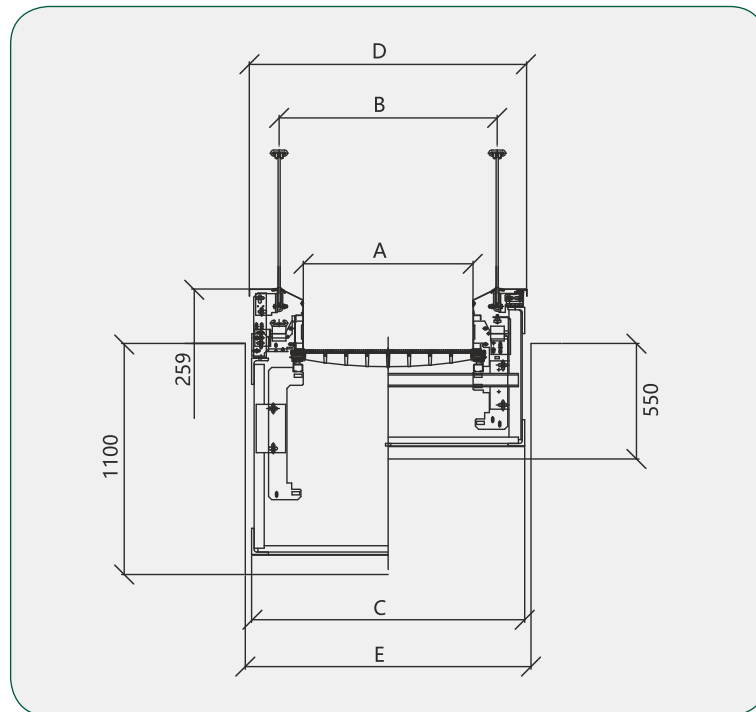
All indicates that the inclination angle of sidewalk is 10°, 11° and 12°.

[illegible]

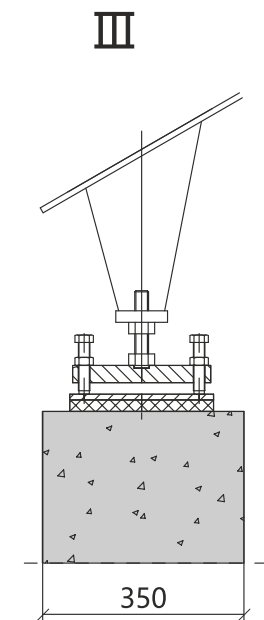
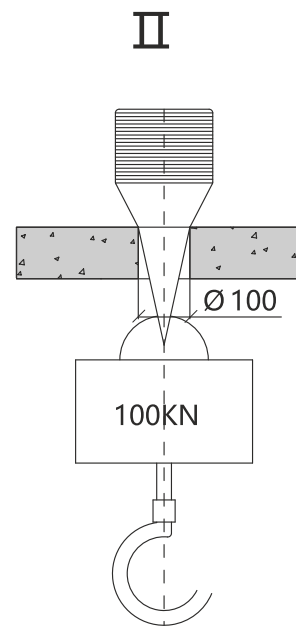
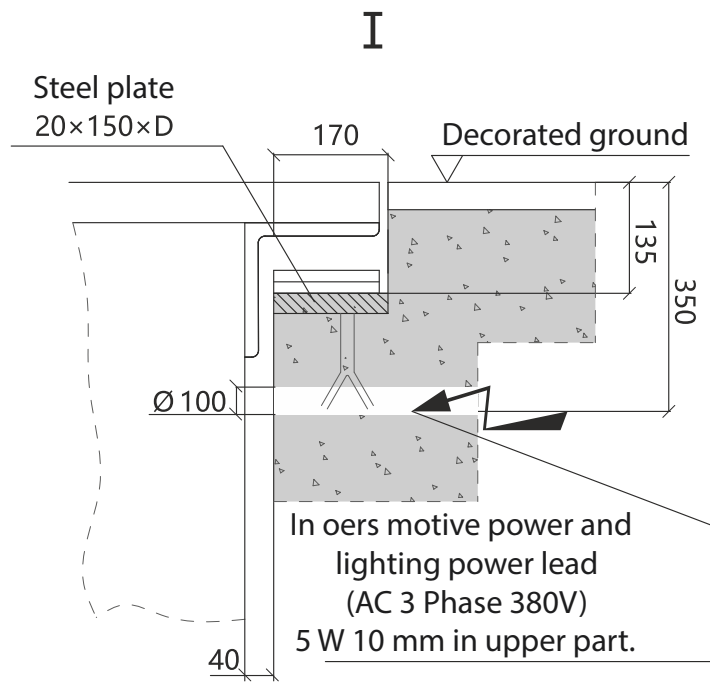
MOVING WALKS GRN900-C GRN901-C indoor

Type	Motion speed (m/s)	Reaction force R1	Reaction force R2	Reaction force R3	Reaction force R4	Reaction force R5	Palletwidth A	Balustrade spacer B	Truss width C	Decoration width D	Construction layout opening width E
GRN900-C-800	0,5	45	31	30	32	44	800	1038	1300	1320	1360
GRN900-C-1000		49	33	32	34	53	1000	1238	1500	1520	1560
GRN900-C-1400		55	38	35	38	66	1400	1638	1900	1920	1960

R1, R2, R3, R4 and R5 Unit = kN



- Size unit: mm. It is possible to change some individual sizes. If there are any alterations, advance notice won't be given then.



Technical specification

	ESCALATOR			MOVING WALKS		
Product line	GR800	GR801	GR803	GRN900/901-A	GRN900/901-B	GRN900/901-C
Working environment	Outdoor	Indoor	Indoor	Indoor	Indoor	Indoor
Application	Commercial	Commercial	Public transport	Public / Commercial	Commercial type	Commercial type
Rated speed (m/s)	0,5	0,5	0,5	0,5	0,5	0,5
Degree on inclination (°)	30/35	30/35	30	10/11/12	10/11/12	0 to 6
Step/Pallet width (mm)	600/800/1000	600/800/1000	1000	800/1000	800/1000	800/1000/1400
Theoretical transporting capacity (Per/h)	4500/6750/9000	4500/6750/9000	9000	6750/9000	6750/9000	6750/9000/12600
Rise/Lenght (m)	11 (30°) / 6 (35°)	11 (30°) / 6 (35°)	20	-	-	-
Horizontal lenght (m)	-	-	-	36	36	36
Horizontal steps/Pallets	2/3	2/3	3	Upper part	Upper and lower part	Horizontal ramp
Power supply	AC 3 phase 380 V 50 Hz	AC 3 phase 380 V 50 Hz	AC 3 phase 380 V 50 Hz	AC 3 phase 380 V 50 Hz	AC 3 phase 380 V 50 Hz	AC 3 phase 380 V 50 Hz
Lighting supply	AC single phase 220V 50 Hz	AC single phase 220V 50 Hz	AC single phase 220V 50 Hz	AC single phase 220V 50 Hz	AC single phase 220V 50 Hz	AC single phase 220V 50 Hz

		ESCALATOR			MOVING WALKS
		GR800	GR801	GR803	GRN900-901 A/B/C
Balustrade design	Type - I (slim)	✓	✓	✓	✓
	Type - P (normal) , w. Lighting	○	○	○	○
	Type - T (Inclined)	○	○	○	-
Balustrade panel	Clear tempered glass	✓	✓	✓	✓
	Hairline stainless steel	○	○	○	-
Balustrade height	900 mm	✓	✓	✓	✓
	1000 mm	○	○	○	○
Balustrade section	Hairline stainless steel	✓	✓	✓	✓
	Aluminium	○	○	-	○
Handrail	Black	✓	✓	✓	✓
	Gray, red, yellow	○	○	○	○
Step / Pallet	Black stainless steel with yellow resin demarcation line	-	✓	✓	○
	Die casting aluminium with yellow resin demarcation line	✓	○	○	✓
Inner & outer decking	Hairline stainless steel	✓	✓	✓	✓
	Painted steel	○	○	○	○
	Aluminium	○	○	○	○
Skirt panel	Hairline stainless steel	✓	✓	✓	✓
	Wear-resisting painted steel	○	○	○	○
Landing plate	Etched stainless steel with anti-slip pattern	✓	✓	✓	✓
	Aluminium	○	○	○	○
Step gap lamp *		○	○	○	○
Footlights *		○	○	○	○
Front panel text *		○	○	○	○
Direction indicator *		○	○	○	○
Fault display *		○	○	○	○
Automatic operation function *		○	○	○	○
Frequency conversion control *		○	○	○	○



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