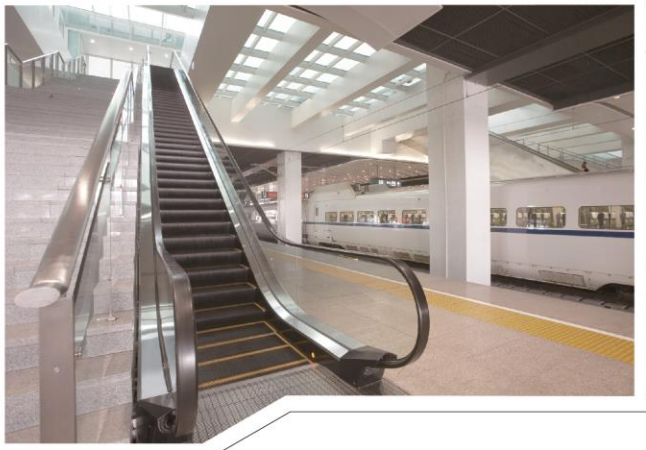
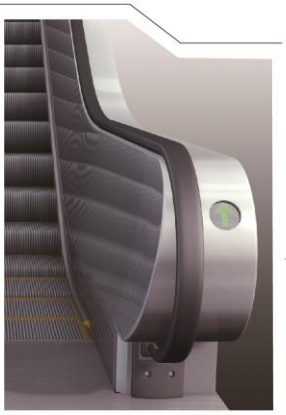
PUBLIC ESCALATOR





2015 Version

The brochure is printed
in environment-protection paper

160 YEARS OTIS

160 years of rich history, leading brand in the elevator industry
Inventor of the world's first safety elevator
Inventor of the world's first escalator
Sales and Service operation located in over 200 countries and a service network covering over 1,700 locations worldwide
Annual escalator and elevator sales of more than 70,000 elevators in 12 of the world's 20 highest buildings

OTIS in CHINA

With 15,000 employees, Otis China offers professional consultancy and installation services and world-class maintenance support, operating 6 manufacturing sites in Tianjin, Hangzhou, Guangzhou, and etc. Otis engineer team located at three sites dedicate to new product development and product quality improvement.

OTIS CHINA FACTORY



Hangzhou Factory

Building Area: 45,754m^2
Capacity:
30,000 units/year
6,000 units/year
CNAS (China National Accreditation Service) Lab

Tianjin Factory

Building Area: 66,673m^2
Capacity:
25,000 units/year
USGBC LEED Gold Certification

Guangzhou Factory

Building Area: 48,900m^2
Capacity:
4,000 units/year
OTIS Escalator Quality Test Center

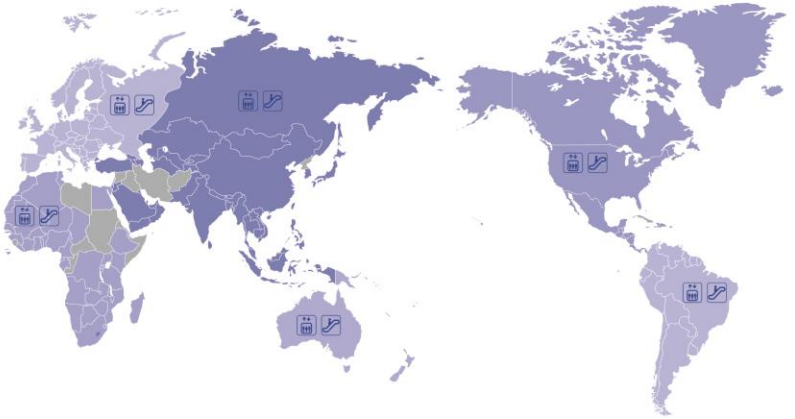
OTIS CHINA INTERNATIONAL BUSINESS

125
Covering more than 125 Countries

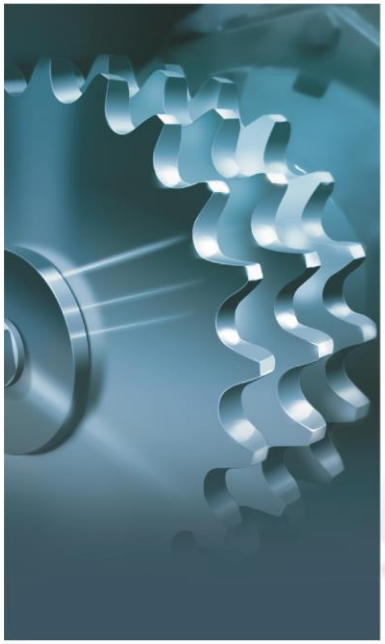
80,000
Having provided over 80,000 units of elevator & escalator worldwide

15
Meeting 15 International Codes including EN, JIS, ANSI, AS1735, COP2010, SS550, KC, GB and so on

EN81-2000（Europe）
EN115-2000（Europe）
JIS（Japan）
ANSI（America）
KC(Korea)
AS1735(Australia)
SAA(Australia)
MS2021:2026
GB16899:2011(China)
SS550(Singapore)



Strongly Powered



Main Machine

We provide various kinds of machine with excellent performance for practical usage and different occasions. Especially, our machine could provide perfect solutions for public large traffic.

- High efficiency gear box
- Compact design structure and small size
- Low noise and smooth operation
- Available for indoor and outdoor use

EM-W1

Beijing Capital Airport

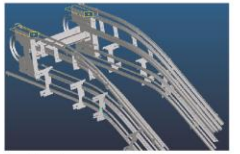
Quality & Reliability

Control System

As new generation escalator control system platform, GECS controller with 32 bit microprocessor can be configured for different functional requirement.

Automatic Lubrication System

Automatic lubrication system ensures low noise and vibration during the operation of chains and rollers.



Track System

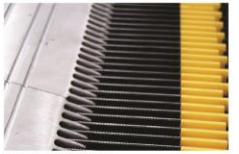
The upper and lower track system is spliced by formed guider which could adjust the error in the part of system, ensure better performance and lower vibration and noise.

Beijing Metro Line 10

	CONFIGURATIONS	XO21NP-S	XO21NP-L	XO-PE
Max Rise	speed- 0.5m/s	13	15	20
	speed- 0.65m/s	10	15	20
Speed	0.5m/s	S	S	S
	0.65m/s	O	O	O
	0.75m/s	N/A	O*	O*
Machine	EM-W1	S	S	N/A
	EM-H2	O	O	O
	ECH2	option only for 50HZ		
	EC2-25	option only for 60HZ		
Controller	GECS	S	S	S
Inclination	30°	S	S	S
	27.3°	O	O	N/A
	23.2°	O	O	N/A
Balustrade	Glass	S	S	N/A
	Sloped opaque	O	O	S
Handrail drive	Friction wheel drive	S	S	N/A
	Newel drive	N/A	O	S
Tension Carriage	Welding side plate	S	S	N/A
	Sprocket	N/A	N/A	S
Step	Stainless steel	S	S	S
	Aluminum	O	O	O
Step chain	Roller inside	S	S	N/A
	Roller outside	N/A	N/A	S
Deflect of Truss		≤1/1000	≤1/1000	≤1/1500
S: Standard	O: Optional	O*: Non-Standard		N/A: Not Available

Outside Roller Step Chain

The safety factor of main drive chain and step chain is greater than 5. When rise is greater than 13 meters, outside roller step chain will be used to ensure the strength.



Stainless Steel Step

Public escalator adopts the stainless steel steps which have nice appearance, easy to maintain, firm, antioxidation and anti-slip. 20 million cycle load tests of OTPE ensure excellent performance.

Safety

The safety devices, electrical safety devices, structures and all their components are strictly in accordance with EN115. In European Union, we can provide public escalators with EN115-2008 which presents the highest performance on safety for escalators. Also, we could supply public escalators with EN115-2008 for other districts as option.

1. Auxiliary Brake
2. Step Broken Control Contact
3. Floor Plate Check Switch
4. Step Chain Control Contact
5. Main Drive Chain Control Contact
6. Integrate Operational Brake
7. Comb Plate Contacts
8. Motor Thermal Device
9. Electronic Non Reversal Device
10. Missing Step Device
11. Emergency Stop Switch
12. Handrail Entry Device
13. Electronic Overspeed Governor

1 Auxiliary Brake

The auxiliary brake will act when the escalator overspeed, and even when the direction of movement of the steps is involuntarily reversed.

2 Step Broken Control Contact

The Step Broken Protection Devices are located at both landings.
The contact is activated if either a step or chain wheel breaks or if a step is lowered due to rupture.

3 Floor Plate Check Switch

A safety switch installed under the floorplate to ensure floorplate is properly closed;
The safety switch will initiate to stop escalator's operation until the floorplate is properly closed.

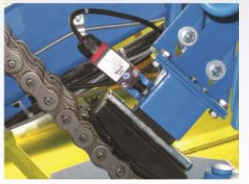
4 Step Chain Control Contact

The safety switch is located on the tensioning carriage of the lower landing. If the step chain breaks or stretches abnormally, the safety switch will initiate to stop the escalator's operation.

5 Main Drive Chain Control Contact

(only for EN115-1995)

Located in the upper landing. In case of excessive sagging or breaking of main drive chain the auxiliary will be activated by a mechanical safety switch.



Standard

- Phase sequence protection
- Step anti-static device
- Handrail anti-static roller
- Motor fan cover contact

Optional

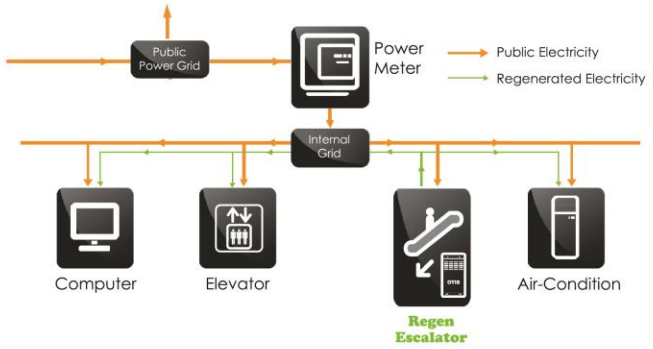
- Control contact for lifted brake*
- Control contact for brake liner wear monitor
- Handrail speed monitor *
- Handrail broken monitor
- Skirt panel safety switch
- Mechanical over speed governor
  Note:(only for EN115-1995)
- Skirt panel brush *

Note:*Standard for EN115-2008

Energy saving

Regen Technology

Public escalator introduces OTIS energy regenerative technology as option. OTIS Regen technology could convert the reduced system potential energy to electricity energy. Regen technology can also filter the regenerated electricity energy and make it clean enough to be re-used.

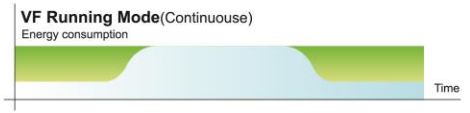


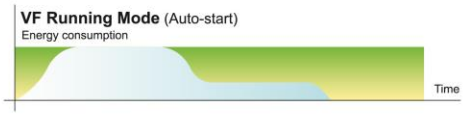
Benefits

- Increase the geard Permanent Magnet machine efficiency by 6%
- Save energy about 40% in average
- OTIS regenerative drives save and regenerate energy by following 3 approaches:
  - Energy saving by means of idle speed running escalator when no passenger on the escalator
  - Energy saving by high efficiency of permanent magnetic machine over all passenger load in VF mode
  - Energy regenerating by the down running mode when generating power

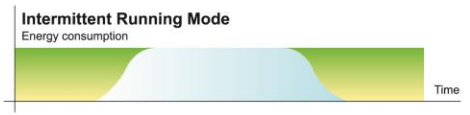
The ETA-Plus Running Mode is normal mode of the operation used under normal circumstances, which is suitable for most of the application.

The VF Running Mode is generally applicable for low traffic flow locations such as hotels and office buildings.
In "Continuouse" Mode, the escalator will slow down while no passenger on it.
In "Auto-start" Mode, once the escalator detects that there is no passenger on the escalator, it will slow down. And moments later, the escalators will stop.
VF mode cuts down on noise levels and can save considerable energy depending on passenger flow.





The Intermittent Running Mode is designed for museum or exhibition center where daily traffic flow is inconsistent with long periods of little or no traffic.



Energy-saving

Balustrade Type

G Type | Sloped Opaque | S Type

Handrail Type

C Type | V Type

Outdoor

All-weather Surface Treatment
Hot-dipped galvanizing and outdoor surface anticorrosion spray techniques, such as Dacromet, are used to meet a long-term anticorrosion requirements.

Machine Room Heating
Heating device adopts radiator, prevent the lubrication and machine from freezing.

Handrail Heating
Handrail heating adopts cable-type heater, could be used to melt the ice on the handrail.

Comb Heating
Comb heating adopts underlay-type heater, installed under the upper and lower landing, ensure the normal operation of escalators.

Chain Cover
Chain cover will protect the chain drive and keep the rain water away from the chain drive.

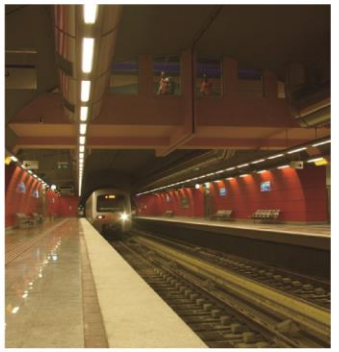
Water Levels Switch
Monitor the water level of pit, and activate when the water exceed the preset limitation.

Water-oil Separator
The device, installed in the lower landing, prevent scrap lubricating oil from discharging directly and protect the environment.

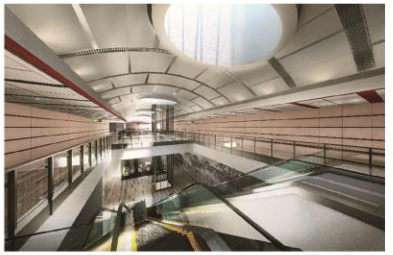
Package	Location	Ambient Temperature	Limitation	Humidity
A1	With Canopy and side cladding	2℃-40℃	No	<80%
A2	With Canopy but no side cladding	2℃-40℃	No	<80%
B	Directly expose to weather	2℃-40℃	No	<80%
C	Directly expose to weather	-10℃-40℃	No	<80%
D	Directly expose to weather	-25℃-40℃	Only st.st. sloped opaque balustrade applicable	<80%

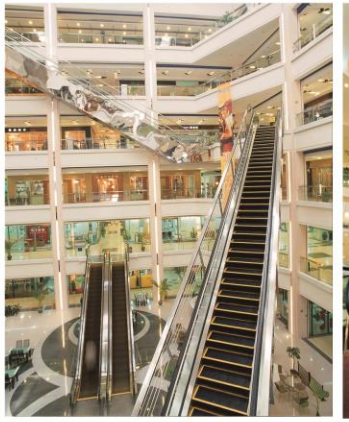
Notes:
Package A1:The escalator does not expose itself to the external environment directly with canopy and enclosure, and the rain water could not get to the escalator directly.
Package A2:The escalator does not expose itself to the external environment directly with canopy , but the rain water would get to the escalator directly from both sides.
Package B: The escalator expose itself to the external environment directly. Ambient temperature is in the range of +2℃ to +40℃.
Package C: The escalator expose itself to the external environment directly. Ambient temperature is in the range of -10℃ to +40℃.
Package D: The escalator expose itself to the external environment directly. Ambient temperature is in the range of -25℃ to +40℃.

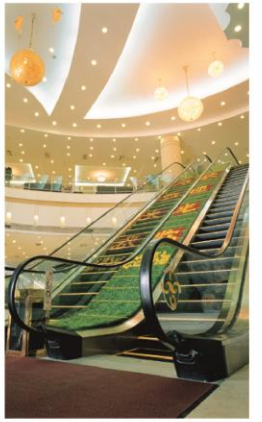
Providing Perfect Solutions For The City Transport Hub



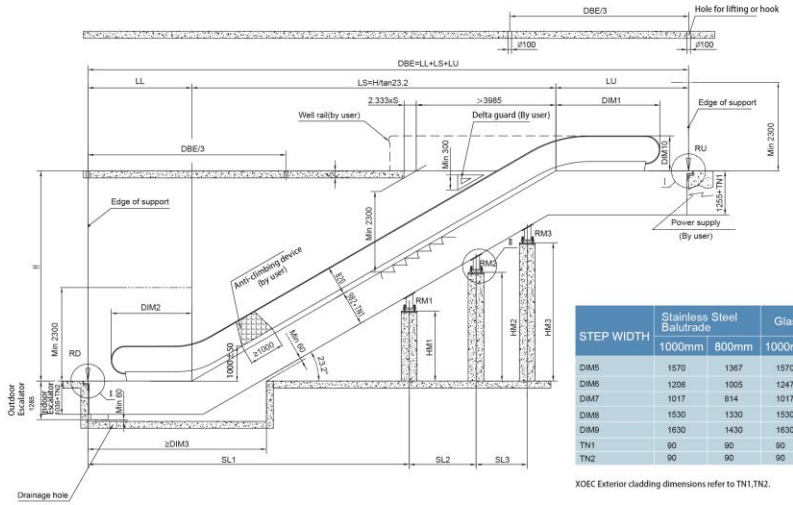
1. Saudi Arabia Mecca Metro
2. Singapore Thomson-East Coast MRT Line
3. UAE Abu Dhabi International Airport
4. Beijing Capital Airport
5. Greece Thessaloniki Metro
6. Beijing MACALLINE
7. Shanghai MACALLINE
8. Tianjin Hotel





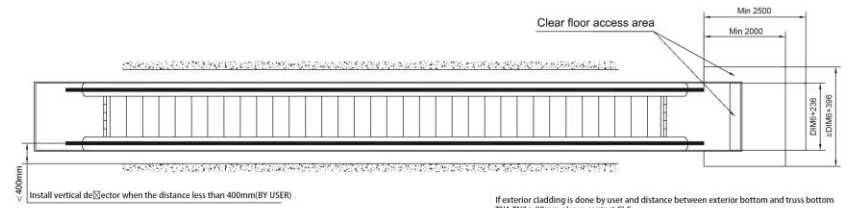


XO21NP-23.2°



STEP WIDTH	Stainless Steel Balutrade		Glass Balutrade	
	1000mm	800mm	1000mm	800mm
DIM5	1570	1367	1570	1367
DIM6	1208	1005	1247	1044
DIM7	1017	814	1017	814
DIM8	1530	1330	1530	1330
DIM9	1630	1430	1630	1430
TN1	90	90	90	90
TN2	90	90	90	90

XOEC Exterior cladding dimensions refer to TN1,TN2.



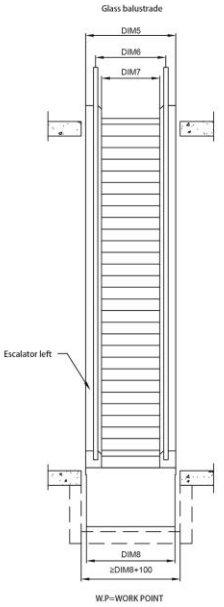
If exterior cladding is done by user and distance between exterior bottom and truss bottom TN1,TN2≥90mm,please contact CLC

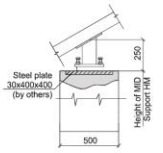
This page drawing be complied with the code EN115-2008 or GB16899-2011

Stainless Steel Balustrade

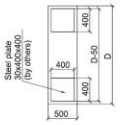
ESCALATOR TYPE	ESCS TYPE			ESCL TYPE		
FL. STEP	2	3	4	2	3	4
LL	2120+TRUSEXL	2520+TRUSEXL	2920+TRUSEXL	2279+TRUSEXL	2679+TRUSEXL	3079+TRUSEXL
LU	2705+TRUSEXU	3105+TRUSEXU	3505+TRUSEXU	2910+TRUSEXU	3310+TRUSEXU	3710+TRUSEXU
DIM1	1901	2301	2701	2105	2505	2905
DIM2	1517	1917	2317	1676	2076	2476
DIM3	2030+TRUSEXL	5030+TRUSEXL	5830+TRUSEXL	5300+TRUSEXL	5700+TRUSEXL	6100+TRUSEXL

Note:
1. TRUSEXU is the extension length for upper landing, TRUSEXL is the extension length for lower landing.
2. When the escalator is equipped with EM-H2 machine or VF inverter, it should extend the truss LU by 500mm at least .





MID Support Detail



MID Support Detail (Planform)

Attention

1/ This technical layout anly use for XO21NP23.2° and when its rise in 3-15 metres.

2/ All gaps between escalator and building must be closed with elastic material.(by user)

3/ For special conditinons such as extended free span,bottom or left side or right side exterior cladding weight exceeding 20 kg/m², wind loads or earthquake loads please contact clc.

4/ TRUSEXU is the extension length for upper landing,TRUSEXL is the extension length for lower landing.

5/ The unif for DBE in support force calculation is meter.

6/ When the escalator is equipped with EM-H2 machine or transducer,it should extend the truss LU by 500mm at least.

7/ When two escalators are arranged as scissors and the customer calls for ends in one level, the lower landing's extension should be(TRUSEXL+202)mm.

8/ One intermediate support,0.4XDBE≤SL1≤0.6XDBE;
Two intermediate supports,0.27XDBE≤SL1&SL1≤0.4XDBE;
HM1=(SL1-LL)xtan(23.2)-1349.
HM2=(SL1+SL2-LL)xtan(23.2)-1349.
HM3=(SL1+SL2+SL3-LL)xtan(23.2)-1313.

9/ Power supply cable requirement:
Power and heating supply,380v 50HZ
Lighting supply,220v 50HZ

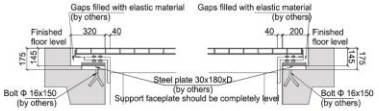
	Machine Power	Voltage	
		<380V	≥380V
Main Power Wupply Cable Type	P≤11.7KW	10mm²	10mm²
	11.7<P≤15KW	16mm²	10mm²
	15<P≤20KW	25mm²	10mm²
	20<P≤30KW		16mm²
	30<P≤37KW		25mm²
Supply Cable Length		L=3m+DL1	
		L=1.5m+DL2	
Heater Power Supply Cable Type	Radiant heater	10mm WATERPROOF	
		10mm² WATERPROOF	
		SOFT² WIRE CABLE	

10/ Interface between escalator and buil ding(by user):access restriction Device、anti-slide device, vertical deflector device acc.to GB16899-2011-5.5.2.2

11/ While CLAD=PIT arrangement,TN2=0.Definition of exterior cladding arrangement refer to xaa28321bc

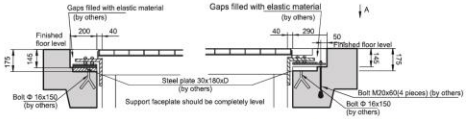
12/ If exterior cladding is done by others,distance between exterior bottom and truss bottom TN1 and TN2 would be defined be defined according to customer's requirement.

ARRANGEMENT WITH PIEZO CONTACT MAT



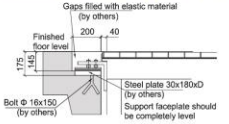
D SUPPORT DETAIL U SUPPORT DETAIL

ANTI VIBRATION SUPPORT, FIXED UPPER LANDING AND SLIDE LOWER LANDING



D SUPPORT DETAIL U SUPPORT DETAIL

STANDARD SUPPORT STEEL PLATE SUPPORT

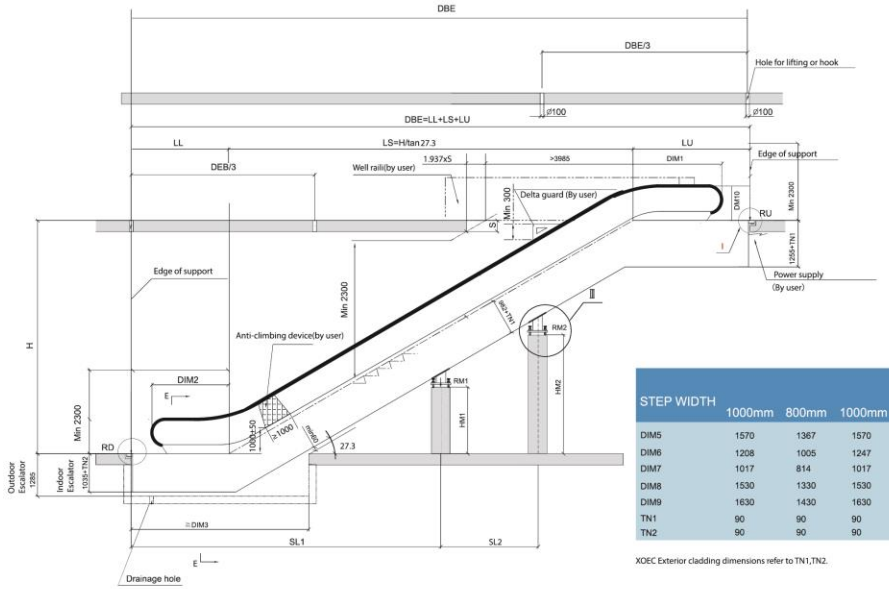


U/D SUPPORT DETAIL (Symmetry)

Glass Balustrade Configurations

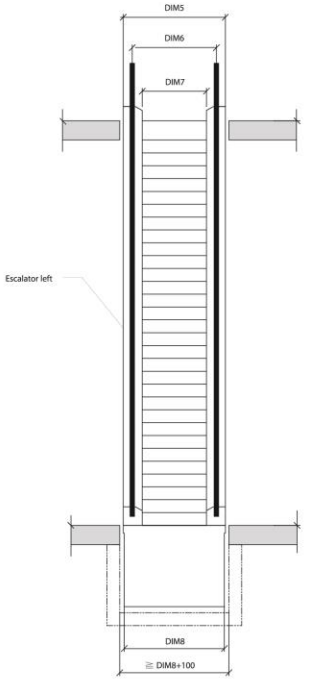
ESCALATOR TYPE				ESCS TYPE			ESCS TYPE		
FL.STEP				2	3	4	2	3	4
LL				2121+TRUSEXL	2521+TRUSEXL	2921+TRUSEXL	2279+TRUSEXL	2679+TRUSEXL	3079+TRUSEXL
LU				2706+TRUSEXL	3106+TRUSEXL	3506+TRUSEXL	2910+TRUSEXL	3310+TRUSEXL	3710+TRUSEXL
DIM1	Glass Balustrade	DIM10	1000	1938	2338	2738	2142	2542	2942
			930	1903	2303	2703	2107	2507	2907
	S Type Glass Balustrade		1000	1918	2318	2718	2122	2522	2922
			930	1883	2283	2683	2087	2487	2887
DIM2	Glass Balustrade	DIM10	1000	1553	1953	2353	1713	2113	2513
			930	1518	1918	2318	1678	2078	2478
	S Type Glass Balustrade		1000	1533	1933	2333	1693	2093	2493
			930	1498	1898	2298	1658	2058	2458
DIM3				5030+TRUSEXL	5430+TRUSEXL	5490+TRUSEXL	5300+TRUSEXL	5700+TRUSEXL	6100+TRUSEXL

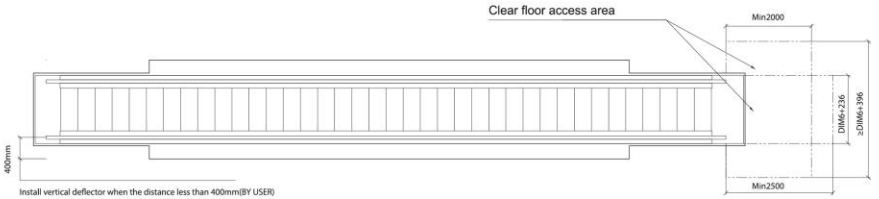
XO21NP 27.3



STEP WIDTH	1000mm	800mm	1000mm	800mm
DIM5	1570	1367	1570	1367
DIM6	1208	1005	1247	1044
DIM7	1017	814	1017	814
DIM8	1530	1330	1530	1330
DIM9	1630	1430	1630	1430
TN1	90	90	90	90
TN2	90	90	90	90

XOEC Exterior cladding dimensions refer to TN1,TN2.





Install vertical deflector when the distance less than 400mm(BY USER)

If exterior cladding is done by user and distance between exterior bottom and truss bottom TN1,TN2≥90mm,please contact CLC

This page drawing be complied with the code EN115-2008 or GB16899-2011

Attention

1/ This technical layout only use for XO21NP27.3° and when its rise in 3-15 metres.

2/ All gaps between escalator and building must be closed with elastic material.(by user)

3/ For special conditinons such as extended free span,bottom or left side or right side exterior cladding weight exceeding 20 kg/m^{2}, wind loads or earthquake loads please contact clc;

4/ TRUSEXU is the extension length for upper landing,TRUSEXL is the extension length for lower landing.

5/ The unif for DBE in support force calculation is meter.

6/ When the escalator is equipped with EM-H2 machine or transducer,it should extend the truss LU by 500mm at least.

7/ When two escalators are arranged as scissors and the customer calls for ends in one level, the lower landing's extension should be(TRUSEXL+202)mm.

8/ One intermediate support,0.4XDBE≤SL1≤0.6XDBE;
Two intermediate supports,0.27XDBE≤SL1&SL1≤0.4XDBE;
HM1=(SL1-LL)xtan(27.3)-1349.
HM2=(SL1+SL2-LL)xtan(27.3)-1349.

9/ Power supply cable requirement:
1>. Indoor,A1,A2,B package need client provide one cable and connect directly to main power box;
2>..C and D package need client provide two cables and connect directly main power box and heating power box;

		Voltage	
Main Power Wupply Cable Type	Machine Power	＜380V	≥380V
	P≤11.7KW	10mm²	10mm²
	11.7＜P≤15KW	16mm²	10mm²
	15＜P≤20KW	25mm²	10mm²
	20＜P≤30KW		16mm²
	30＜P≤37KW		25mm²
Supply Cable Length		L=3m+DL1	
		L=1.5m+DL2	
Heater Power Supply Cable Type	Radiant heater	10mm² WATERPROOF SOFT² WIRE CABLE	

10/ Interface between escalator and buil ding(by user):access restriction Device、anti-slide device、vertical deflector device acc.To GB16899-2011-5.5.2.2

11/ While CLAD=PIT arrangement,TN2=0.Definition of exterior cladding arrangement refer to xaa28321bc

12/ If exterior cladding is done by others,distance between exterior bottom and truss bottom TN1 and TN2 would be defined be defined according to customer's requirement.

Stainless Steel Balustrade

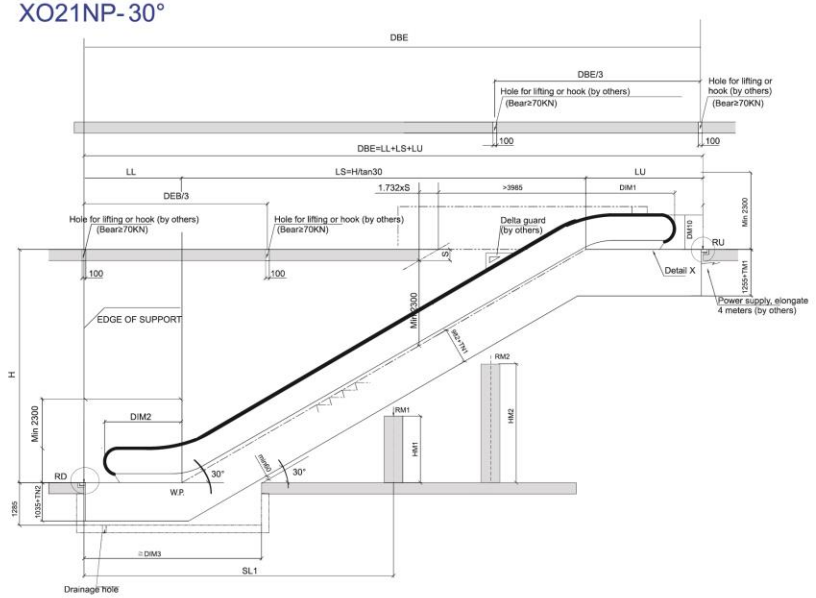
ESCALATOR TYPE	ESCS TYPE			ESCL TYPE		
FL. STEP	2	3	4	2	3	4
LL	2197+TRUSEXL	2597+TRUSEXL	2997+TRUSEXL	2389+TRUSEXL	2789+TRUSEXL	3189+TRUSEXL
LU	2728+TRUSEXU	3128+TRUSEXU	3528+TRUSEXU	2974+TRUSEXU	3374+TRUSEXU	3774+TRUSEXU
DIM1	1923	2323	2723	2169	2569	2969
DIM2	1593	1993	2393	1785	2185	2585
DIM3	4690+TRUSEXL	5090+TRUSEXL	5490+TRUSEXL	4890+TRUSEXL	5290+TRUSEXL	5690+TRUSEXL

Note:
1. TRUSEXU is the extension length for upper landing, TRUSEXL is the extension length for lower landing.
2. When the escalator is equipped with EM-H2 machine or VF inverter, it should extend the truss LU by 500mm at least .

Glass Balustrade Configurations

ESCALATOR TYPE			ESCS TYPE			ESCL TYPE		
FL.STEP			2	3	4	2	3	4
LL			2197+TRUSEXL	2597+TRUSEXL	2997+TRUSEXL	2389+TRUSEXL	2789+TRUSEXL	3189+TRUSEXL
LU			2728+TRUSEXU	3128+TRUSEXU	3528+TRUSEXU	2974+TRUSEXU	3374+TRUSEXU	3774+TRUSEXU
DIM1	Glass Balustrade	1000	1960	2360	2760	2206	2606	3006
		930	1925	2325	2725	2171	2571	2971
	Glass Balustrade	DIM10 1000	1940	2340	2740	2186	2586	2986
		930	1905	2305	2705	2151	2551	2951
DIM2	Glass Balustrade	1000	1630	2030	2430	1822	2222	2622
		930	1595	1995	2395	1787	2187	2587
	Glass Balustrade	DIM10 1000	1610	2010	2410	1802	2202	2602
		930	1575	1975	2375	1767	2167	2567
DIM3			4690+TRUSEXL	5090+TRUSEXL	5490+TRUSEXL	4890+TRUSEXL	5290+TRUSEXL	5690+TRUSEXL

XO21NP-30°



Slopped opaque balustrade Configurations

ESCALATOR TYPE		ESCS			ESCL		
FL. STEP	2	3	4	2	3	4
LL	2248+TRUSEXL	2648+TRUSEXL	3048+TRUSEXL	2481+TRUSEXL	2881+TRUSEXL	3281+TRUSEXL
LU	2762+TRUSEXU	3162+TRUSEXU	3562+TRUSEXU	3056+TRUSEXU	3456+TRUSEXU	3856+TRUSEXU
DIM1	1957	2357	2757	2251	2651	3051
DIM2	1644	2044	2444	1877	2277	2677
DIM3	4550+TRUSEXL	4950+TRUSEXL	5350+TRUSEXL	4880+TRUSEXL	5280+TRUSEXL	5680+TRUSEXL

STEP WIDTH	1000mm	800mm
DIM5	1570	1367
DIM6	1247	1044
DIM7	1000	800
DIM8	1530	1330
DIM9	1630	1430
TN1	90	90
TN2	90	90

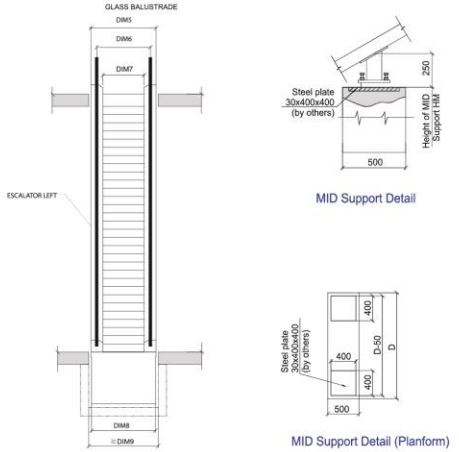
Glass balustrade Configurations

ESCALATOR TYPE			ESCS			ESCL		
FL. STEP			2	3	4	2	3	4
LL			2248+TRUSEXL	2648+TRUSEXL	3048+TRUSEXL	2481+TRUSEXL	2881+TRUSEXL	3281+TRUSEXL
LU			2762+TRUSEXU	3162+TRUSEXU	3562+TRUSEXU	3056+TRUSEXU	3456+TRUSEXU	3856+TRUSEXU
DIM1	G Type Glass Balustrade	1000	1994	2394	2794	2289	2689	3089
		930	1959	2359	2759	2254	2654	3054
	S Type Glass Balustrade	1000	1974	2374	2774	2288	2688	3088
		930	1939	2339	2739	2237	2637	3037
DIM2	G Type Glass Balustrade	1000	1682	2082	2482	1914	2314	2714
		930	1647	2047	2447	1879	2279	2679
	S Type Glass Balustrade	1000	1662	2062	2462	1894	2294	2694
		930	1627	2027	2427	1859	2259	2659
DIM3			4550+TRUSEXL	4950+TRUSEXL	5350+TRUSEXL	4880+TRUSEXL	5280+TRUSEXL	5680+TRUSEXL

STEP WIDTH	1000mm	800mm
DIM5	1570	1367
DIM6	1208	1005
DIM7	1000	800
DIM8	1530	1330
DIM9	1630	1430
TN1	90	90
TN2	90	90

Note:
1.TRUSEXU is the extension length for upper landing,TRUSEXL is the extension length for lower landing.
2.When the escalator is equipped with EM-H2 machine or VF inverter,it should extend the truss LU by 500mm at least .

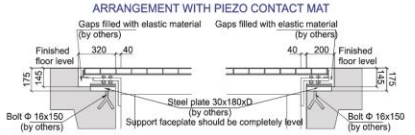
NOTE:DO NOT SCALE THIS DRAWING, UNLESS OTHERWISE STATED.



W.P=WORK POINT

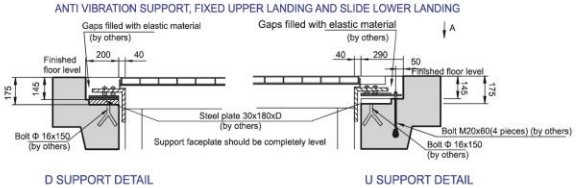
MID Support Detail

MID Support Detail (Planform)



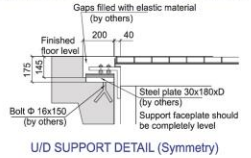
D SUPPORT DETAIL

U SUPPORT DETAIL

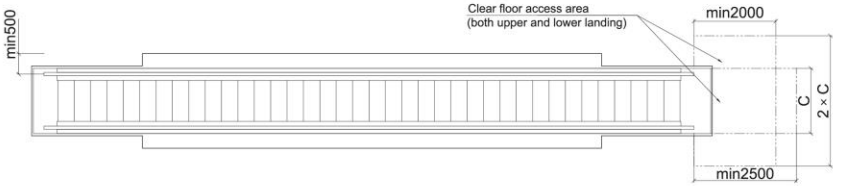


D SUPPORT DETAIL

U SUPPORT DETAIL



U/D SUPPORT DETAIL (Symmetry)



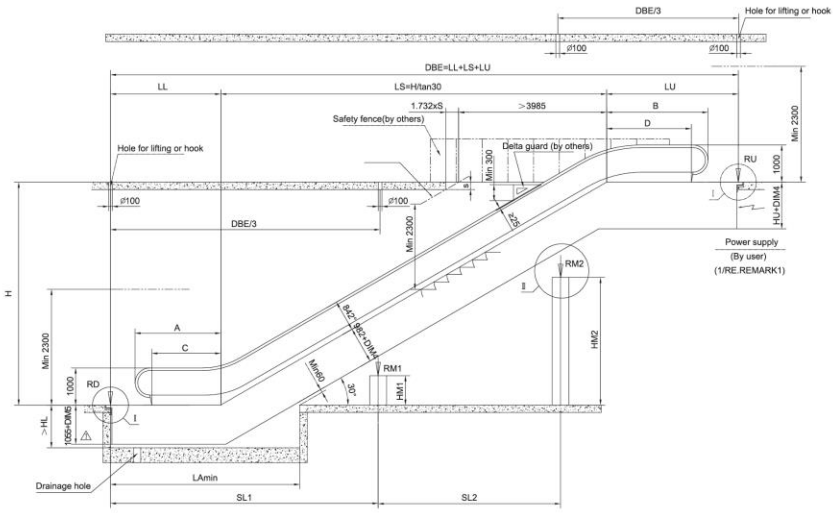
Attention

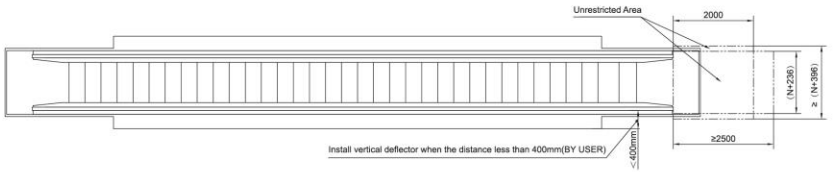
1、This technical layout only use for x021np 30° and when its rise in 3-15 metres
2、All gaps between escalator and building must be closed with elastic material.(by user)
3、For special conditions such as extended free span.exterior cladding exceeding 200 n/m².Wind loads or earthquake loads please contact CLC;
4、TRUSEXU is the extension length for upper landing, TRUSEXL is the extension length for lower landing.
5、The unit for DBE is meter.
6、When the escalator is equipped with EM-H2 machine or VF inverter, it should extend the truss LU by 500mm at least .
7、When two escalators are arranged as scissors and the customer calls for ends in one level, then lower landing's extension should be (trusexl+202)mm.
8、One intermediate support, 0.4XDBE≤SL1≤0.6XDBE;
two intermediate supports, 0.27XDBE≤SL1&SL2≤0.4XDBE;
HM1=(SL1-LL)*tan(30)-1384.
HM2=(SL1+SL2-LL)*tan(30)-1384.
9、Power supply cable requirement:
1) Indoor,A1,A2,B package need client provide one cable and connect directly to main power box;
2) C and D package need client provide two cables and connect directly main power box and heat power box

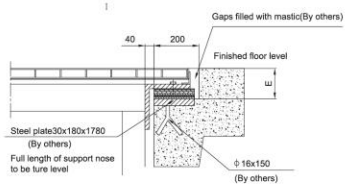
DIRECTLY MAIN POWER BOX AND HEAT POWER BOX	MACHINE POWER	VOLTAGE <380V	VOLTAGE ≥380V
	P≤11.7KW	10mm	10mm
	11.7<P≤15KW	16mm	10mm
MAIN POWER SUPPLY CABLE TYPE	15<P<20KW	25mm	10mm
	20<P<30KW	-	16mm
	30<P<37KW	-	25mm
SUPPLY CABLE LENGTH		L=3M+DL1	
		L=15M+DL2	
HEATER POWER SUPPLY CABLE TYPE	RADIANT HEATER	10mm WATERPROOF	
		10mm WATERPROOF SOFT WIRE CABLE	

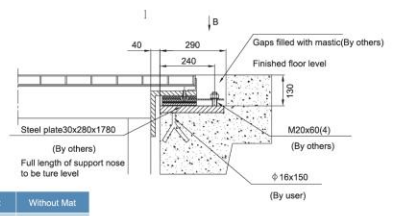
10、While clad=pit arrangement, TN2=0.definition of exterior cladding arrangement refer to xaa28321bc.
11、If exterior cladding is done by others, distance between exterior bottom and truss bottom TN1 and TN2 would be defined according to customer's requirement.

XO-PE≤16m

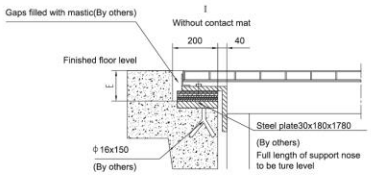


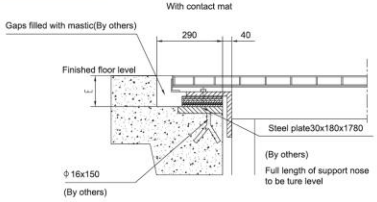


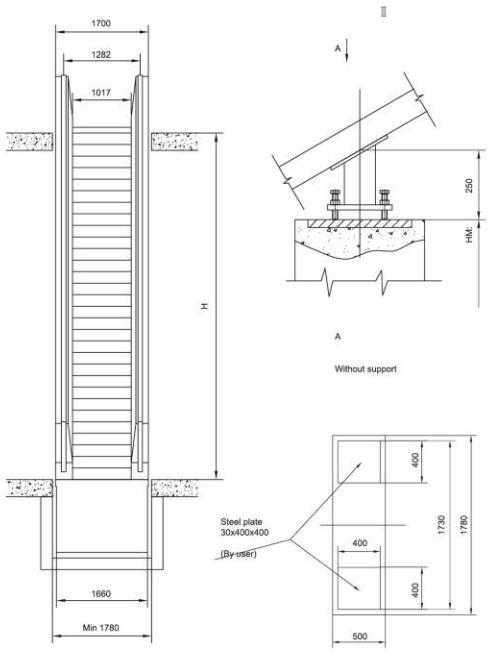




	With Mat	Without Mat
E	130	110







Attention

1/ This technical layout only use for XOPE which use stainless steel balustrade and when its rise in 1.5-16 metres.

2/ All gaps between escalator and building must be closed with elastic material.(by user)

3/ For special conditinons such as extended free span,bottom or left side or right side exterior cladding weight exceeding 20 kg/m^{2}, wind loads or earthquake loads please contact clc;

4/ Power supply cable requirement:

	Machine Power	Voltage	
		＜380V	≥380V
Main Power Wupply Cable Type	P≤11.7KW	10mm²	10mm²
	11.7＜P≤15KW	16mm²	10mm²
	15＜P≤20KW	25mm²	10mm²
	20＜P≤30KW		16mm²
	30＜P≤37KW		25mm²
Heater Power Supply Cable Type	Radiant heater	10mm² WATERPROOF SOFT³ WIRE CABLE	

5/ DL1 is the extension for upper landing.
DL2 is the extension for lower landing.

6/ One intermediate support,SL1=0.4xDBE¯0.6xDBE,SL2=0,SL3=0
Two intermediate support,SL1=SL2=0.27xDBE¯0.4xDBE,SL3=0
Three intermediate support,SL1=SL2=SL3=0.2xDBE¯0.3xDBE
HM1=(SL1-LL)xTan(30)-1384
HM2=(SL1+SL2-LL)xTan(30)-1384
HM3=(SL1+SL2+SL3-LL)xTan(30)-1384

7/ The unit for DBE in support force calculation is meter.

8/ When the escalator is equipped with EM-H2 machine or transducer,it should extend the truss by 500mm at least.

9/ When use EM-H2 machine of which the power is 30kW or 37kW,truss should be nonstandard.

10/ If exterior cladding is done by user and distance between exterior bottom and truss bottom DIM4,DIM5≥90mm,please contact CLC

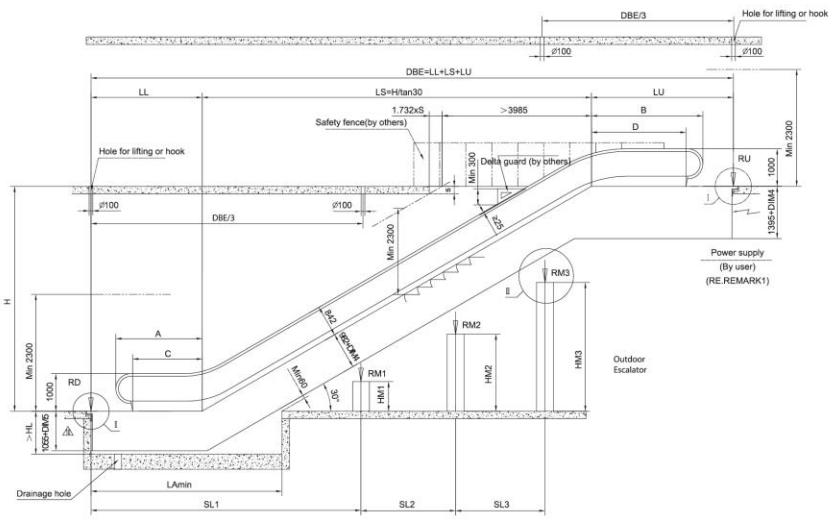
11/ While CLAD=PIT arrangement,TN2=0.Definition of exterior cladding arrangement refer to xaa28321bc

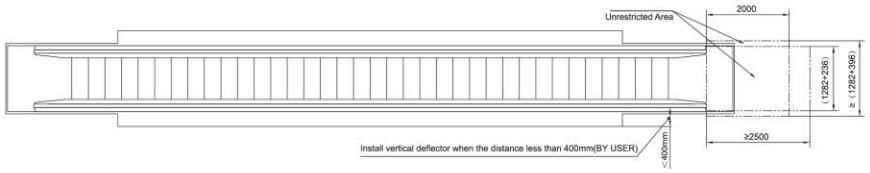
12/ If exterior cladding is done by others,distance between exterior bottom and truss bottom TN1 and TN2 would be defined be defined according to customer's requirement.

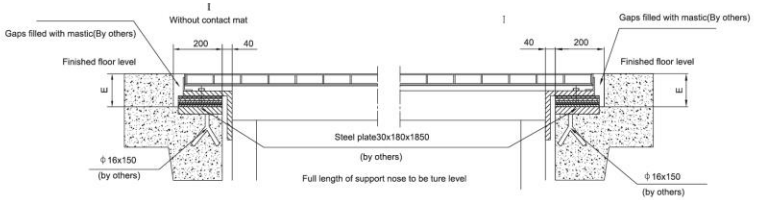
	HU	5	1240	1400	90	90	6080+DL2	3084	2666	3534	3105	4349+DL2	3769+DL2
KW≥30kw EM-H2	1395	4					5680+DL2	2684	2266	3134	2705	3949+DL2	3369+DL2
		3					5280+DL2	2284	1866	2734	2305	3549+DL2	2969+DL2
<> (KW≥30kw EM-H2)	1255		In door	Out door	DIM5	DIM4	LA	D	C	B	A	LU	LL
		FL.STEP	HL										

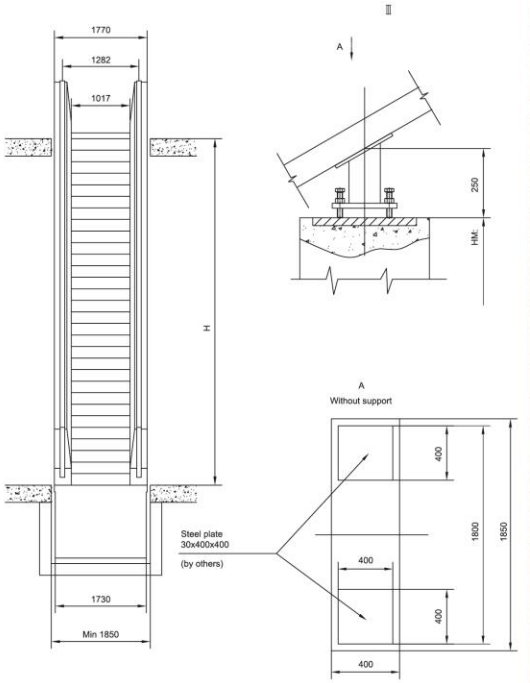
6.3xDBE+7	6.3xDBE+22	2.4xDBE+3	2.4xDBE+23	7.8xDBE+15	1.67xDBE+5	1.67xDBE+11	4.55xDBE+2	4.55+DBE+2	Standard
RD	RU	RD	RU	RM1	RD	RU	RM1	RM2	
No Mid.Support		One Intermedaite Supports			Two Intermedaite Supports				Arrangement
Support Force(kn)									

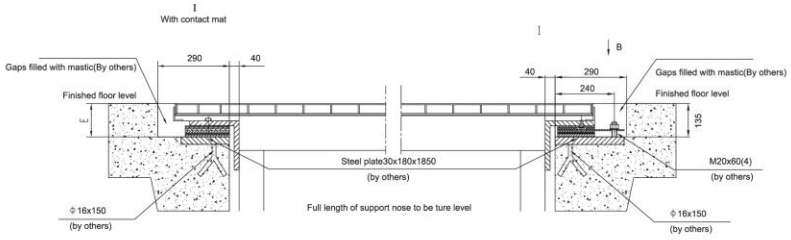
XO-PE(16~20M)











	With Mat	Without Mat
E	130	110

Attention

1/ This technical layout only use for XOPE which use stainless steel balustrade and when its rise in 16-20 metres.

2/ All gaps between escalator and building must be closed with elastic material.(by user)

3/ For special conditinons such as extended free span,bottom or left side or right side exterior cladding weight exceeding 20 kg/m^2, wind loads or earthquake loads please contact clc;

4/ Power supply cable requirement:

	Machine Power	Voltage	
		＜380V	≥380V
Main Power Wupply Cable Type	P≤11.7KW	10mm²	10mm²
	11.7＜P≤15KW	16mm²	10mm²
	15＜P≤20KW	25mm²	10mm²
	20＜P≤30KW		16mm²
	30＜P≤37KW		25mm²
Heater Power Supply Cable Type	Radiant Heater	10mm² WATERPROOF SOFT³ WIRE CABLE	

5/ DL1 is the extension for upper landing.
DL2 is the extension for lower landing.

6/ One intermediate support,SL1=0.4xDBE~0.6xDBE,SL2=0,SL3=0
Two intermediate support,SL1=SL2=0.27xDBE~0.4xDBE,SL3=0
Three intermediate support,SL1=SL2=SL3=0.2xDBE~0.3xDBE
HM1=(SL1-LL)xTan(30)-1384
HM2=(SL1+SL2-LL)xTan(30)-1384
HM3=(SL1+SL2+SL3-LL)xTan(30)-1384

7/ The unit for DBE in support force calculation is meter.

8/ When the escalator is equipped with EM-H2 machine or transducer,it should extend the truss by 500mm at least.

9/ When use EM-H2 machine of which the power is 30KW or 37KW,truss should be nonstandard.

10/ If exterior cladding is done by user and distance between exterior bottom and truss bottom DIM4,DIM5≥90mm,please contact CLC

11/ While CLAD=PIT arrangement,TN2=0.Definition of exterior cladding arrangement refer to xaa28321bc

12/ If exterior cladding is done by others,distance between exterior bottom and truss bottom TN1 and TN2 would be defined be defined according to customer's requirement.

5	1240	1400	90	90	6080+DL2	3336	2666	3775	3105	4590+DL2	3769+DL2	1.67xDBE+5	1.67xDBE+11	4.55xDBE+2	4.55xDBE+2	1.5xDBE+3	1.5xDBE+15	4.2xDBE	3.7xDBE	4.2xDBE	Standard
4					5680+DL2	2936	2266	3375	2705	4190+DL2	3369+DL2	RD	RU	RM1	RM2	RD	RU	RM1	RM2	RM3	
3					5280+DL2	2536	1866	2975	2305	3790+DL2	2969+DL2	Two Intermedaite Supports				Two Intermedaite Supports					Arrangement
	In Door	Out Door	DIM5	DIM4	LA	D	C	B	A	LU	LL	Support Force(Kn)									
FL.STEP	HL																				