

515NPE

# Public Escalator



# Robust & Versatile

Regardless of airports, metros, railways and transportation hubs, our CP 515NPE public escalator could meet your extreme and varied demands. Through this classic public escalator, you could enjoy an efficient, reliable and safe riding experience.



**Airport**



**Railway/ Metro**



**Transportation Hub**

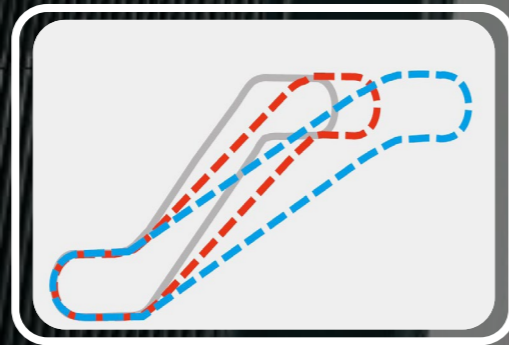
## 515NPE Public Escalator

Max. Rise	15 m
Inclination	30° (Std) / 27.3° (TR2600)
Step Width	800 / 1000 mm
Speed	0.5 / 0.65 m/s
Balustrade Type	Opaque / Glass / Slim st.st
Code	EN115-12017/ GB16899-2011/ SS626, HK
Application	Indoor/ Semi-outdoor/ Outdoor (-10~40 °C)
Step Chain Roller	Inside

# Reliable in your every trip

## VARIETY SPECIFICATION

Fully considering the use environment, we launched Public Escalator with degrees of 30° and 27.3° to meet different requirements.



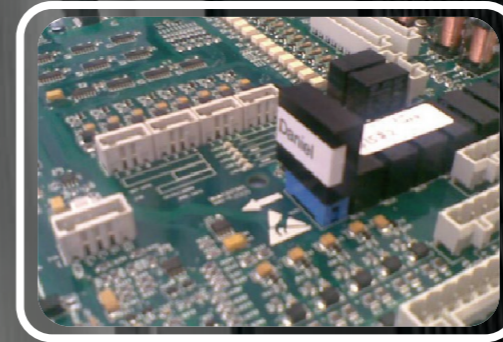
## HIGH-EFFICIENCY MACHINE

The professional R&D team uses the design concept of excellent quality to create an unparalleled mature system. It integrates compact, efficient and powerful power to realize top craft.



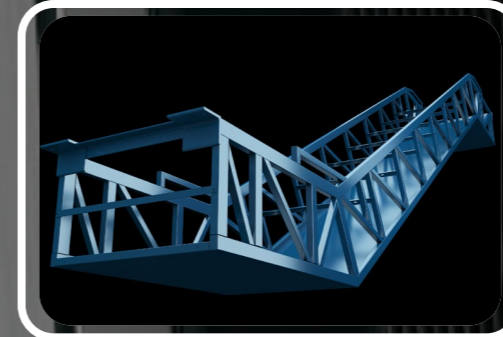
## ADVANCED MICRO CONTROL

Smarter control system is adopted in CP 515NPE, with 30 groups of fault code (Standard), and 2,000 error code could be recorded. With IoT board integrated in the controller, it improves the function of control system, to ensure excellent performance.



## ROBUST TRUSS SYSTEM

Tube truss has been selected as better deflection, rigidity and stability than angle steel in the same section. The inner wall of the fully closed tube has no air circulation to prevent the inner wall from oxidation and rust.

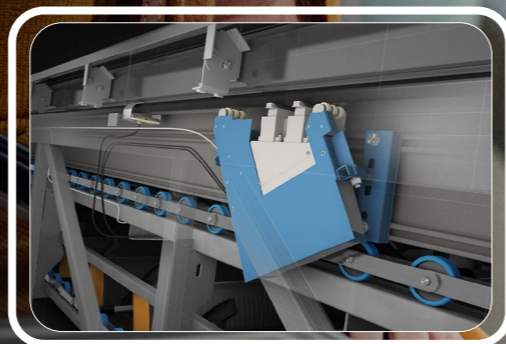


# Care for your Riding Healthy

Regardless of airports, metros, railways and transportation hubs, our CP 515NPE public escalator could meet your extreme and varied demands. Through this classic public escalator, you could enjoy an efficient, reliable and safe riding experience.

## Automatic Clean Device

As all new innovation from Otis in lift industry, Handrail Automatic Cleaning System will bring you a clean and refreshing riding experience, which also reducing the labor input with automatic operation.



## Antimicrobial Handrail

The antimicrobial additive is combined with TPU pellets during the handrail production process. The antimicrobial additive in handrail destroys or inhibits the cell's ability to function, grow and reproduce. The cleaner handrail encourages passengers to hold on to handrail, which is the best ways to defend against accidental falls.



## LED UV-C Handrail Sterilizer

Otis LED UV-C Handrail Sterilizer module is mounted internally on your escalator handrails to effectively sterilize handrail surfaces. Fully guided, the handrail passes through the modules as it runs, exposing the handrail to UV-C light.

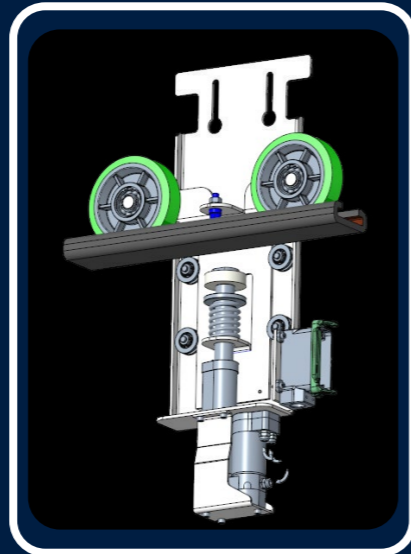


# Safety Ensurance

At Otis, we put every passengers' safety as most important when we design and produce an escalator. Our 515NPE public escalator complies with EN115:2017 as standard. And the electrical safety devices complies with both CENELEC and IEC requirement.

## SAHS- Self-Adjusting Handrail System

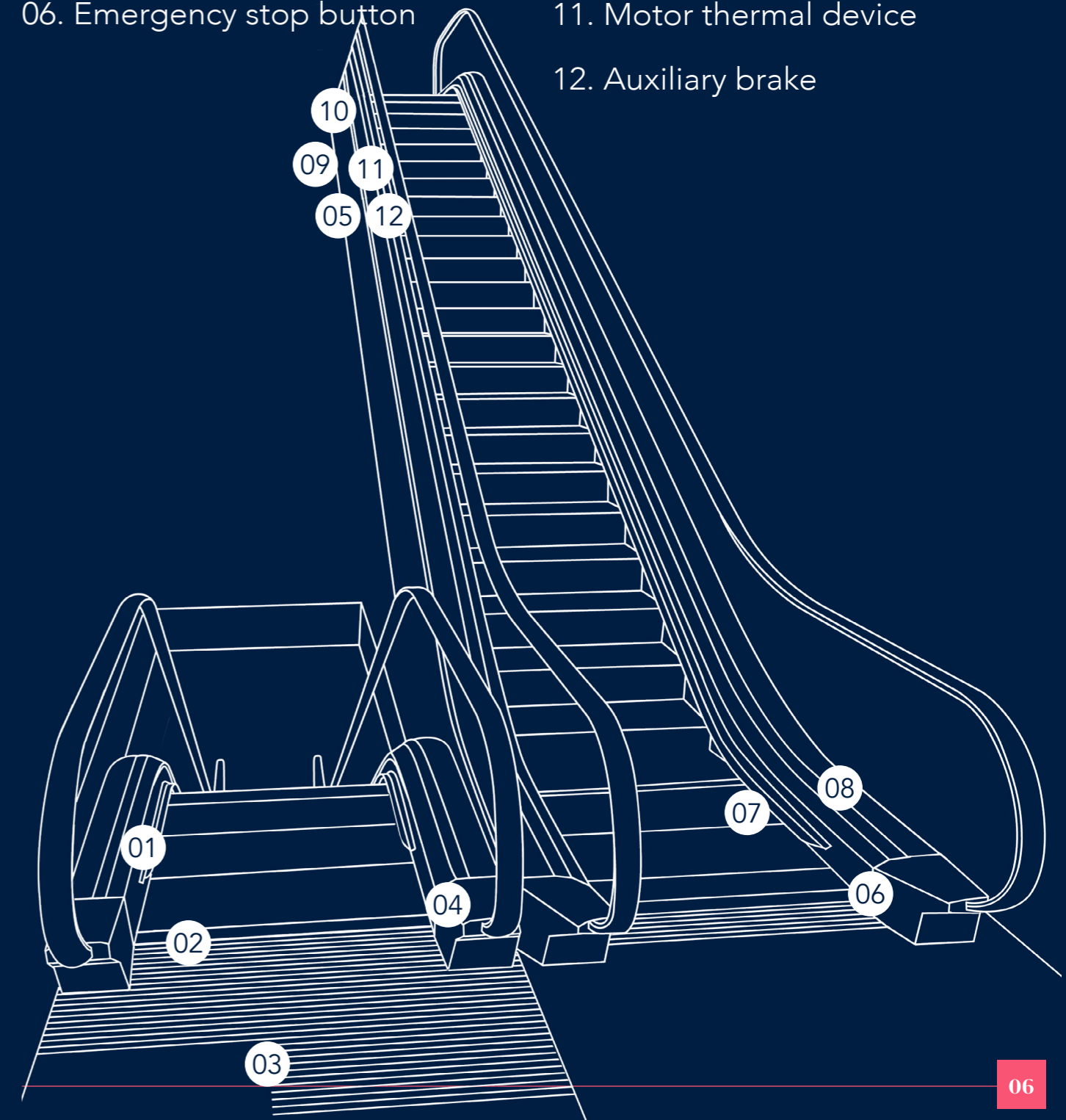
This device can automatically and accurately adjust handrail tension dynamically. Handrail tension status can be monitored on real time by IoT. SAHS could adjust handrail tension in an appropriate level all the time, which eliminates the potential issues caused by too loose or too tight handrail.



## Mini Moving Skirt

The 9mm extrusion from tread and riser surfact could isolate passengers' feet from the skirt panel. It leads to 75% reduction on entrapment probability between skirt panel and steps, which brings a more safe riding for passengers.

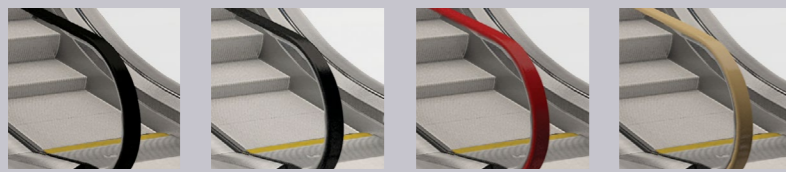
- 01. Skirt panel brush
- 02. Comb plate safety device
- 03. Floor plate contacts
- 04. Handrail entry device
- 05. Missing step device
- 06. Emergency stop button
- 07. Skirt panel safety device
- 08. Handrail speed monitoring device
- 09. Non-reversal device
- 10. Overspeed monitoring device
- 11. Motor thermal device
- 12. Auxiliary brake



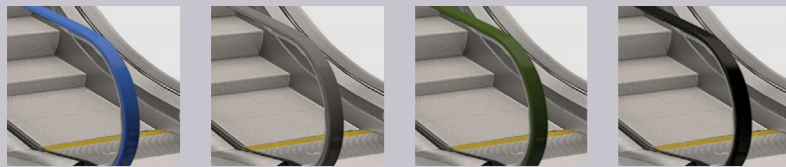
# Customized for your Building

We firmly believe that there is always an escalator that will perfectly fit your building, no matter from color, light and shadow or temperament. We customize the special one for you from every detail.

## HANDRAILS

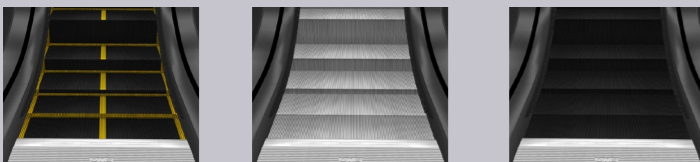


Black dull    Black glossy    Red    Beige



Blue    French gray    Green    Carbon black

## STEP



Stainless-steel black    Aluminum gray    Aluminum black

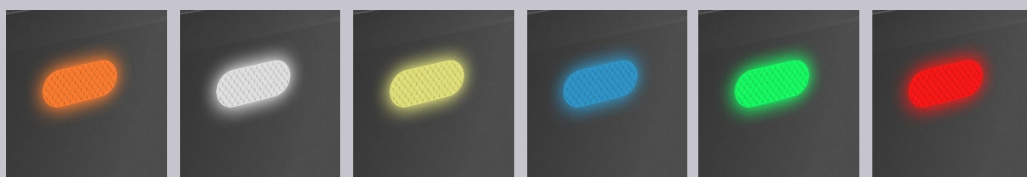
\*Available with yellow demarcation lines

## UNDER STEP LIGHTING



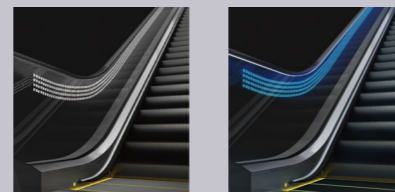
Green    White    Red

## COMB LIGHTING

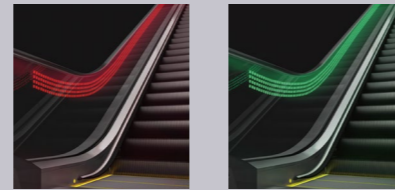


Yellow    White    Warm White    Blue    Green    Red

## BALUSTRADE LIGHTING

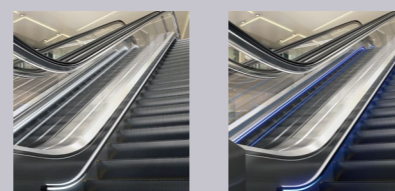


White    Blue

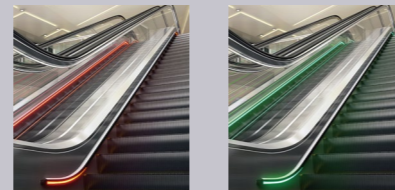


Red    Green

## SKIRT LIGHTING

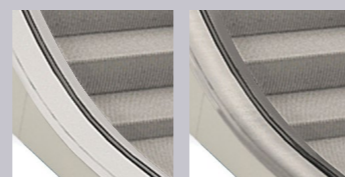


White    Blue



Red    Green

## DECKING



Hairline stainless-steel    Hairline stainless-steel (Avail. 304 + 316)

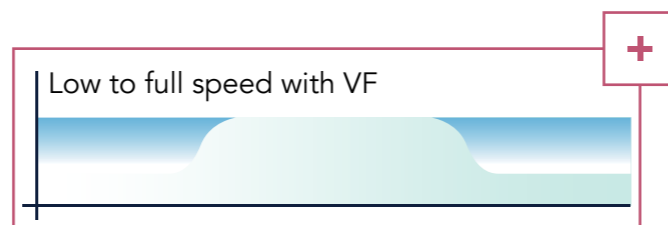
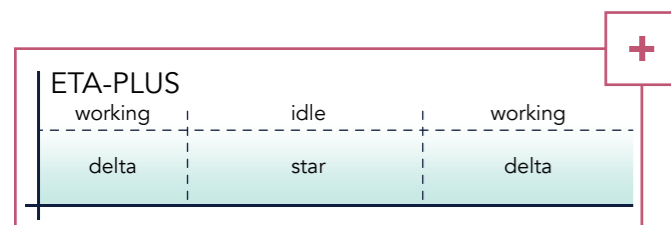
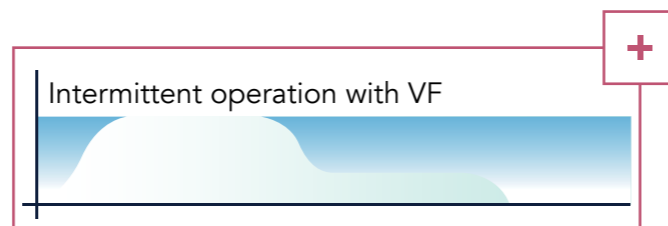
> Design your custom escalator at [otis.com](https://www.otis.com)



# Sustainable Sophistication

## MULTIPLE ENERGY SAVING MODE

ETA-Plus, VF technology, multiple energy saving mode, meet different passenger flow in different occasions.

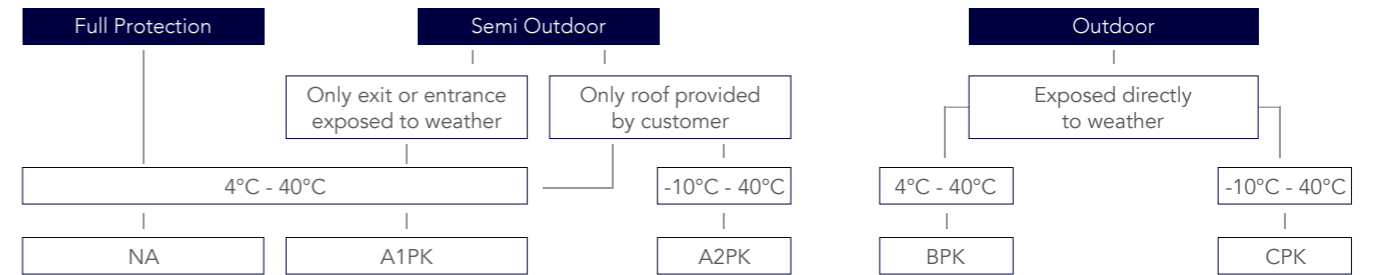


## INTELLIGENT LUBRICATION

Use automatic system to replace manual oiling mode, to avoid the risk that the oil quantity is difficult to control or can not achieve the expected lubrication effect.



# Work around your needs



## MAIN SOLUTIONS TO PROTECT YOUR ESCALATOR



Chain cover protection   Comb heating   Truss heating   Oil separator   Main drive chain cover



# A commitment to exceptional service

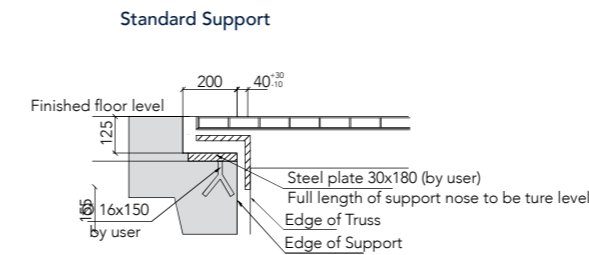
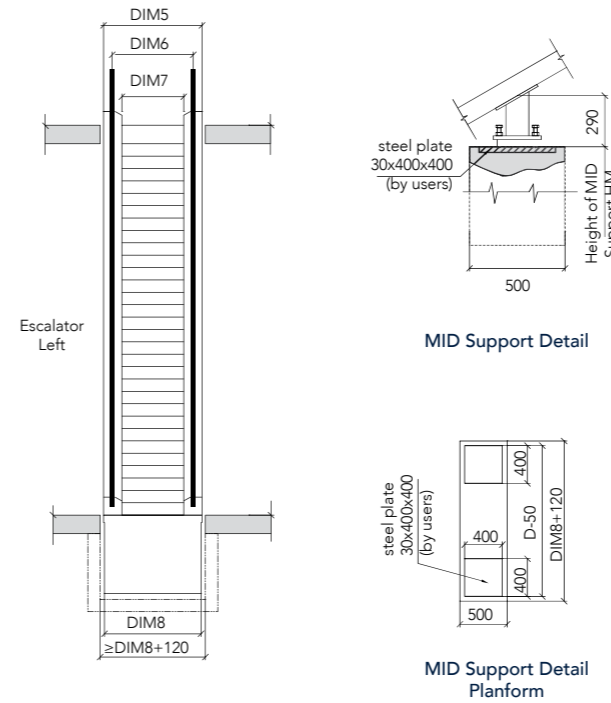
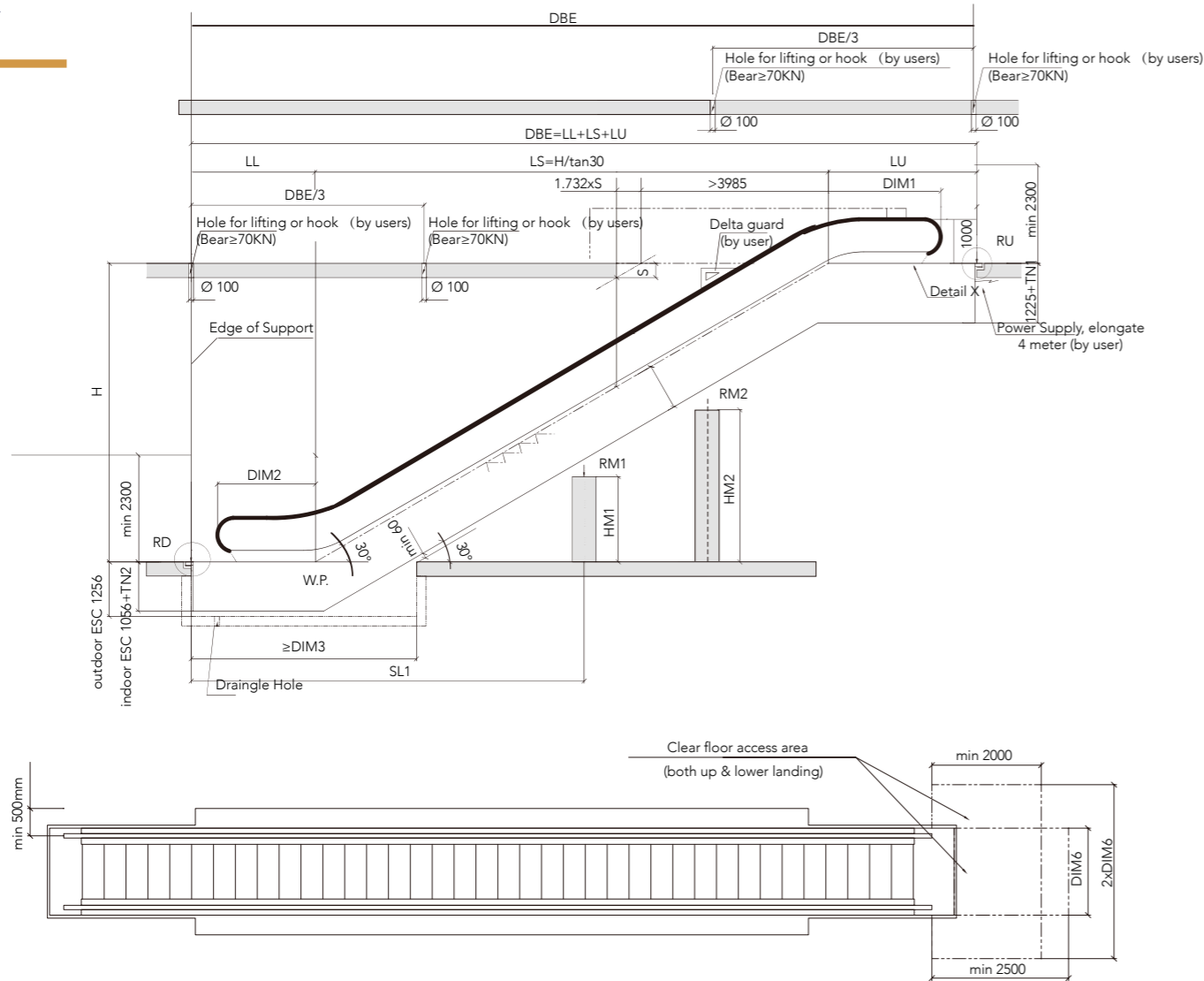
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At Otis, you own our commitment that provide you continuous excellent service. No one knows your equipments like Otis. And we devotes to invest in more new tools and methods, so as to ensure a faster return to service. Alongside our 24/7 OTISLINE® support team, our mechanics have a suite of digital support tools enabling expedited onsite maintenance and safe, comfortable rides.





# 515NPE 30° specifications



1. This technical layout only use for 515NPE 30° and when its rise in 3-15 meters.
2. All gaps between escalator and building must be closed with elastic material (by user).
3. For special conditions such as extended free span, bottom or left side or right-side exterior cladding weight exceeding 20 kg/m<sup>2</sup>, 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 in support force calculation is meter.
6. When the escalator is equipped with EMC-H1 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,  $0.4 \times DBE \leq SL1 \leq 0.6 \times DBE$   
 Two intermediate supports,  $0.27 \times DBE \leq SL1 \& SL2 \leq 0.4 \times DBE$   
 $HM1 = (SL1 - LL) \times \tan(30) - 1384$   
 $HM2 = (SL1 + SL2 - LL) \times \tan(30) - 1384$

Main Power Supply Cable Type	Machine Power	Volatage (V)	
		200/ 208/ 220	380/ 400/ 415/ 440/ 460/ 480
	5.5/ 7.5	6mm <sup>2</sup>	6mm <sup>2</sup>
	9.5/ 11	10mm <sup>2</sup>	6mm <sup>2</sup>
	13/ 15	16mm <sup>2</sup>	6mm <sup>2</sup>
	19 (9.5x2)	/	16mm <sup>2</sup>
	22 (11x2)	/	16mm <sup>2</sup>
	26 (13x2)	/	16mm <sup>2</sup>
	30 (15x2)	/	16mm <sup>2</sup>
Maintenance Lighting Cable		2x2.5mm <sup>2</sup>	
Heater Power Supply Cable Type		10mm <sup>2</sup> Waterproof Soft Cable	

9. Power supply cable requirement
  - 1) Indoor A1, A2 and 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 to main power box and heat power box.
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 by customer's requirement.
12. For two units with side-by-side layout, pit width  $\geq$  sum of two units' width (w) + (distance between two units) + 70mm
13. Tube O.D  $\varnothing$  76mm, wall thickness 3mm of oil separator at outdoor escalator rainspout

Upper Landing Track Radius		1500		2600	
Flat Step		3	4	3	4
LL		2649	3049	2900.5	3300.5
LU		3004.5	3404.5	3272.5	3672.5
DIM1	Stainless Steel Balustrade	2383	2783	2682.5	3082.5
	S Type Glass Balustrade	2368.5	2768.5	2595	2995
DIM2	Stainless Steel Balustrade	2027.5	2427.5	2310.5	2710.5
	S Type Glass Balustrade	2013	2413	2223	2723
DIM3		4750+TRUSEEXL	5150+TRUSEEXL	5001.5+TRUSEEXL	5401.5+TRUSEEXL

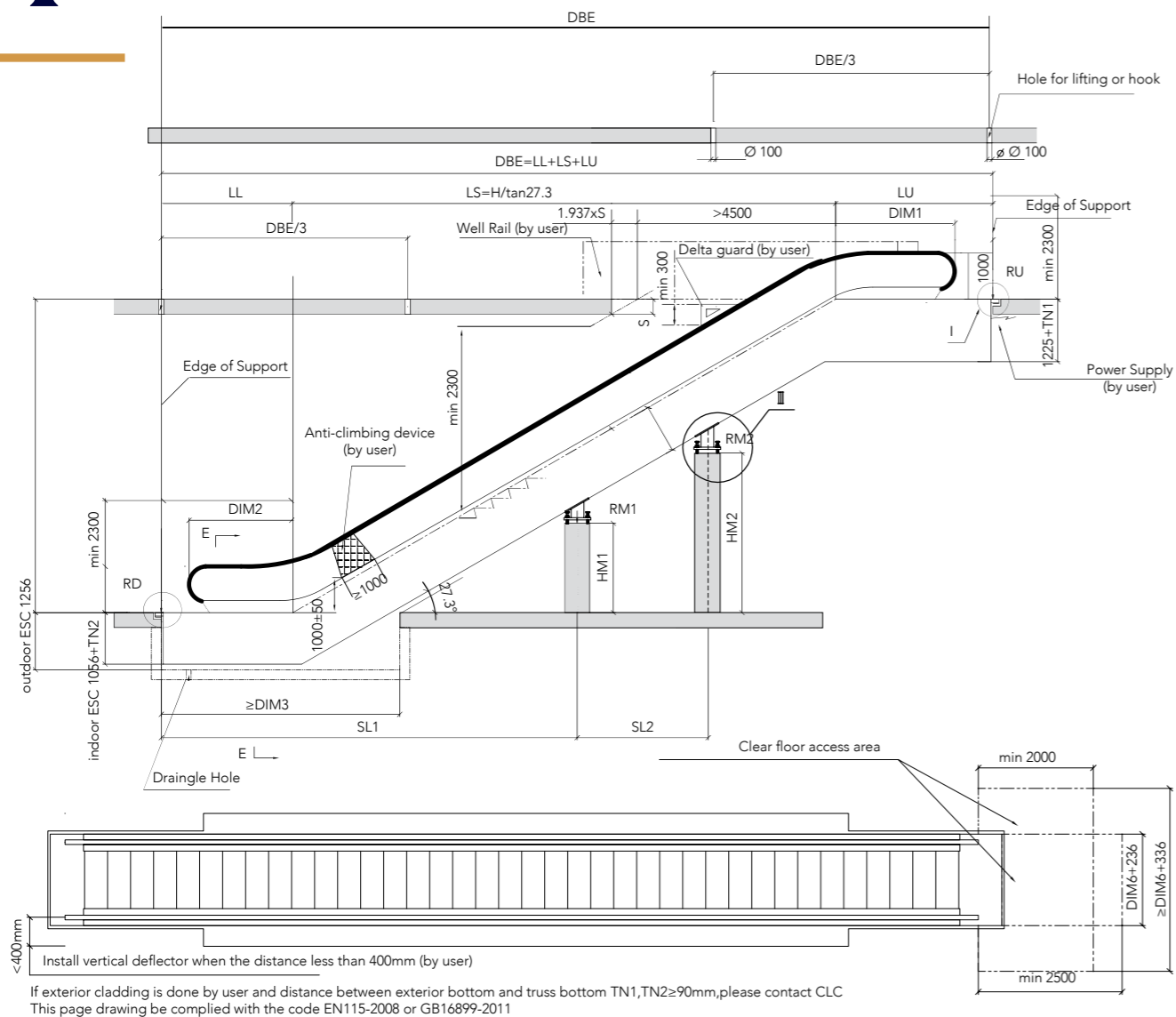
Step	Glass Balustrade		St.St Balustrade	
	1000mm	800mm	1000mm	800mm
DIM5	1540	1337	1540	1337
DIM6	1247	1044	1208	1005
DIM7	1017	814	1017	814
DIM8	1500	1297	1500	1297
TN1	90	90	90	90
TN2	90	90	90	90

Exterior cladding dimensions refer to TN1, TN2.

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 EMC-H1 machine or VF inverter, it should extend the truss LU by 500mm at least.

# 515NPE 27.3° specifications



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

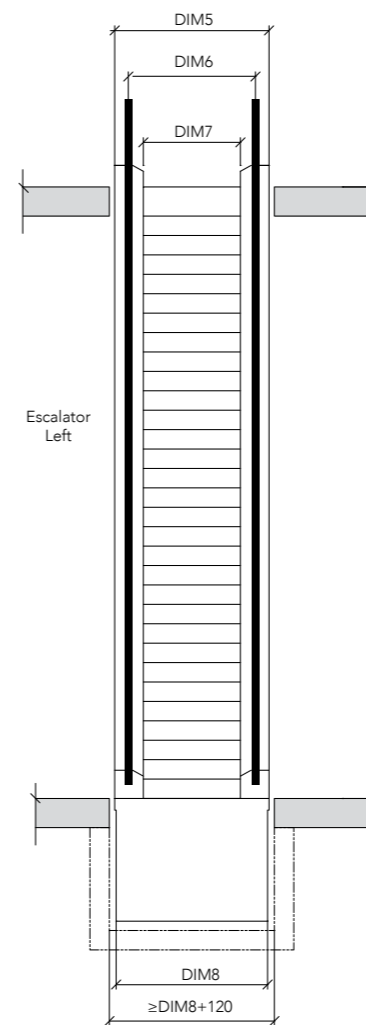
## Stainless Steel Balustrade Configurations

Upper Landing Track Radius	2600		
Flat Step	3	4	
LL	2834.9	3234.9	
LU	3222.6	3622.6	
DIM1	Glass Balustrade	2632.6	3032.6
	Stainless Steel Balustrade	2545	2945
DIM2	Glass Balustrade	2245	2645
	Stainless Steel Balustrade	2157	2557
DIM3	5105+TRUSEEXL	5505+TRUSEEXL	

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 EMC-H1 machine or VF inverter, it should extend the truss LU by 500mm at least.

Step	Glass Balustrade		St.St Balustrade	
	1000mm	800mm	1000mm	800mm
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TN1	90	90	90	90
TN2	90	90	90	90

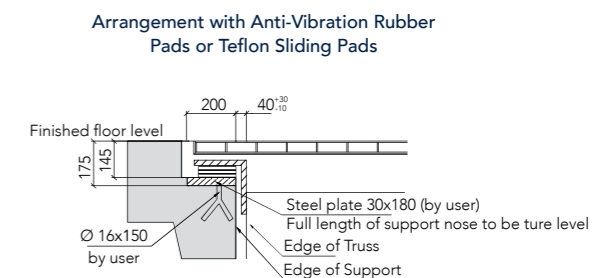
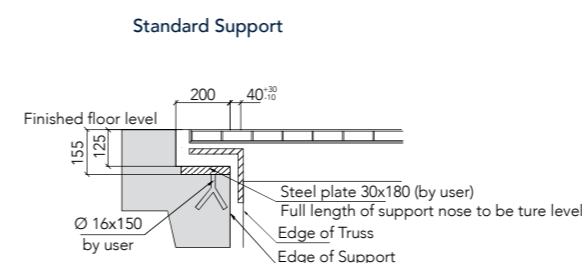
Exterior cladding dimensions refer to TN1, TN2.



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Maintenance Lighting Cable	2x2.5mm <sup>2</sup>		
Heater Power Supply Cable Type	10mm <sup>2</sup> Waterproof Soft Cable		

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12. For two units with side-by-side layout, pit width ≥ sum of two units' width (w) + (distance between two units) + 70mm
13. Tube O.D Ø 76mm, wall thickness 3mm of oil separator at outdoor escalator rainspout



Built on a legacy of innovation, Otis invented the elevator safety brake in 1852, giving rise to the modern city and forever changing how people connect and thrive in a taller, faster, smarter world. Today, we're the world's leading elevator and escalator manufacturing, installation and service company. We can be found in many of the world's most recognizable buildings, as well as the busiest transportation hubs and retail centers – we're everywhere people are on the move. With a global maintenance portfolio of more than 2 million elevators and escalators, approximately 2 billion people are moved by our products every day. Headquartered in Connecticut, USA, Otis is 68,000 people strong, including 40,000 field professionals, all committed to meeting the diverse needs of our customers and passengers in more than 200 countries and territories worldwide. For more information, visit [www.otis.com](http://www.otis.com) and follow us on LinkedIn, Instagram, Facebook and Twitter @OtisElevatorCo.