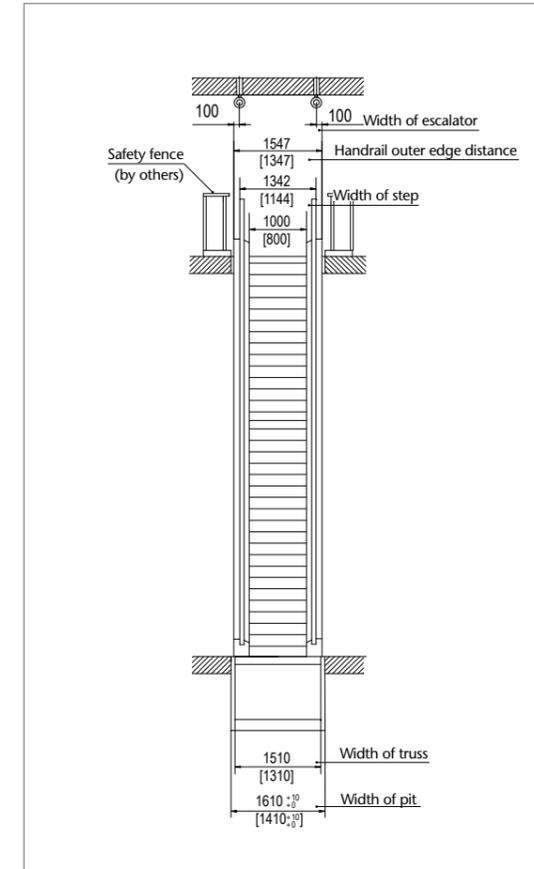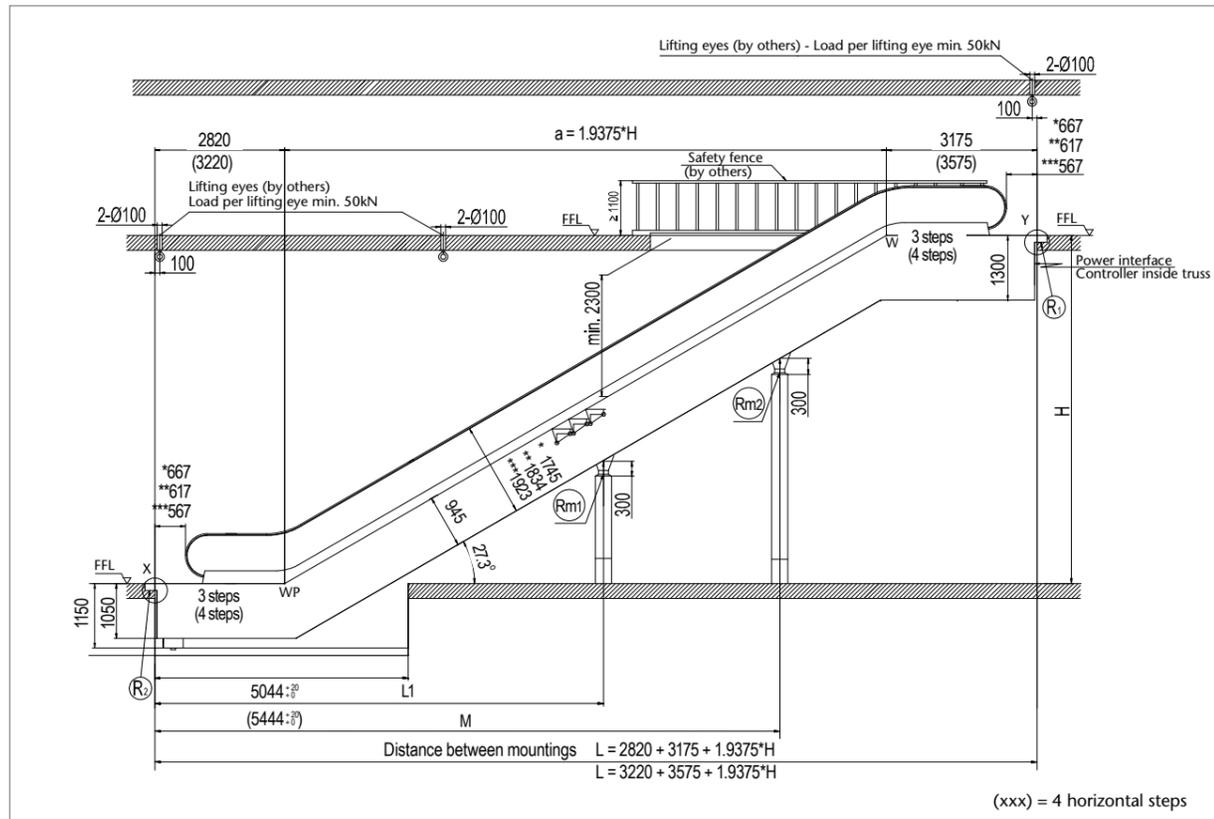# KONE TravelMaster™ 120 planning dimensions

Architectural planning data

27.3° inclination / 2.7 transition radii / 3 or 4 horizontal steps at each landing
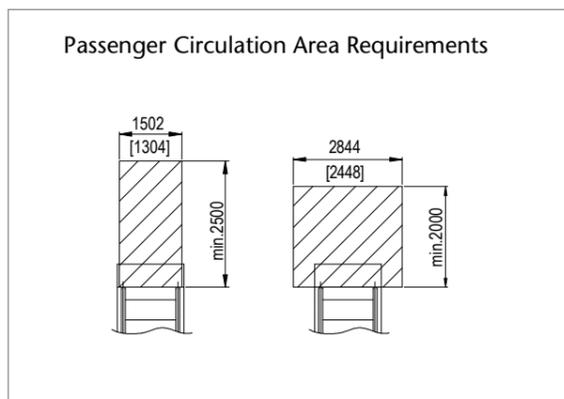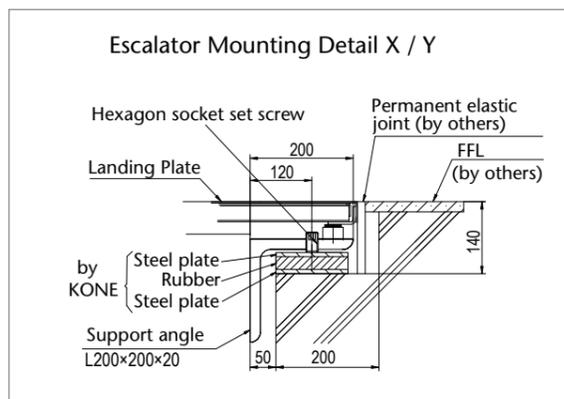
Code: EN 115-1:2008 + A1:2010[1]

Lifting eyes (by others) - Load per lifting eye min. 50kN

2-Ø100

100

2820 (3220)

a = 1.9375*H

3175 (3575)

*667 **617 ***567

Safety fence (by others)

Lifting eyes (by others) Load per lifting eye min. 50kN

2-Ø100

2-Ø100

FFL

≥1100

3 steps (4 steps)

Y

FFL

Power interface Controller inside truss

1300

min. 2300

Rm2

300

*667 **617 ***567

* 1765 ** 1684 *** 1603

Rm1

945

300

27.3°

H

FFL

X

3 steps (4 steps)

WP

1150 1050

R₁

5044 -0/+8

(5444 -0/+8)

L1

M

Distance between mountings L = 2820 + 3175 + 1.9375*H
L = 3220 + 3575 + 1.9375*H

(xxx) = 4 horizontal steps

Escalator Mounting Detail X / Y

Hexagon socket set screw

Permanent elastic joint (by others)

FFL (by others)

Landing Plate

200

120

140

by KONE { Steel plate / Rubber / Steel plate }

Support angle
L200×200×20

50   200

Passenger Circulation Area Requirements

1502 [1304]

2844 [2448]

min. 2500

min. 2000

100   100   Width of escalator

1547 [1347]   Handrail outer edge distance

1342 [1144]   Width of step

1000 [800]

Safety fence (by others)

1510 [1310]   Width of truss

1610 -0/+8 [1410 -0/+8]   Width of pit

- All dimensions are in millimeters
- Maximum vertical rise H = 15000 mm
- One intermediate support is required when span (L) exceeds 16400 mm. A second intermediate support is required when span (L) exceeds 30000 mm.
- If intermediate support is required, please contact your KONE sales organization.
- Truss extensions are required when either the rise requires the use of double drives or the use of an inverter. For these dimensions please contact your local sales organization
- Additional cladding material maximum 15 kg/m²
- (XXX) = 4 horizontal steps
    - * = Balustrade height 900 mm
    - ** = Balustrade height 1000 mm
    - *** = Balustrade height 1100 mm
- [XXX] = Step width 800 mm
- For escalator with step width of 600 mm please contact your KONE sales office

Note:
There is a possibility of having an escalator without intermediate support however a reinforced truss is required. Please contact KONE for more dimensional information.

If you would like to obtain the exact dimensions for your specific project, we recommend you use the Escalator Design Tools, which can be found on www.kone.com.

Position of intermediate support		
Span (mm)	L1, M (mm)	
	3 horizontal steps	4 horizontal steps
16400 <L<= 30000	L1 = (a1*1200+887)*0.889+945*0.459+2820 a1 = Round{[(0.5*L-2820)/0.889-887]/1200,0}	L1 = (a1*1200+887)*0.889+945*0.459+3220 a1 = Round{[(0.5*L-3220))/0.889-887]/1200,0}
30000 <L<= 45000	L1 = (a1*1200+887)*0.889+945*0.459+2820 M = (a2*1200+887)*0.889+945*0.459+2820 a1 = Round{[(0.333*L-2820)/0.889-887]/1200,0} a2 = Round{[(0.667*L-2820)/0.889-887]/1200,0}	L1 = (a1*1200+887)*0.889+945*0.459+3220 M = (a2*1200+887)*0.889+945*0.459+3220 a1 = Round{[(0.333*L-3220)/0.889-887]/1200,0} a2 = Round{[(0.667*L-3220)/0.889-887]/1200,0}

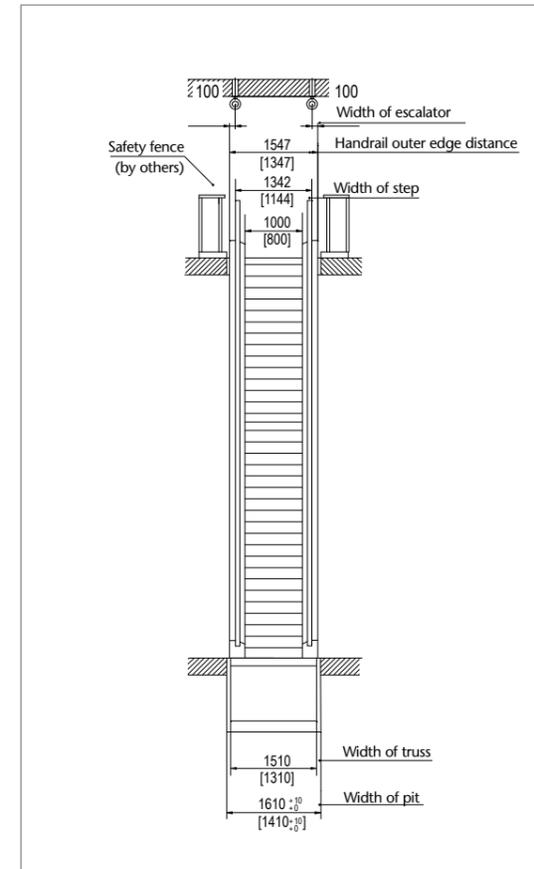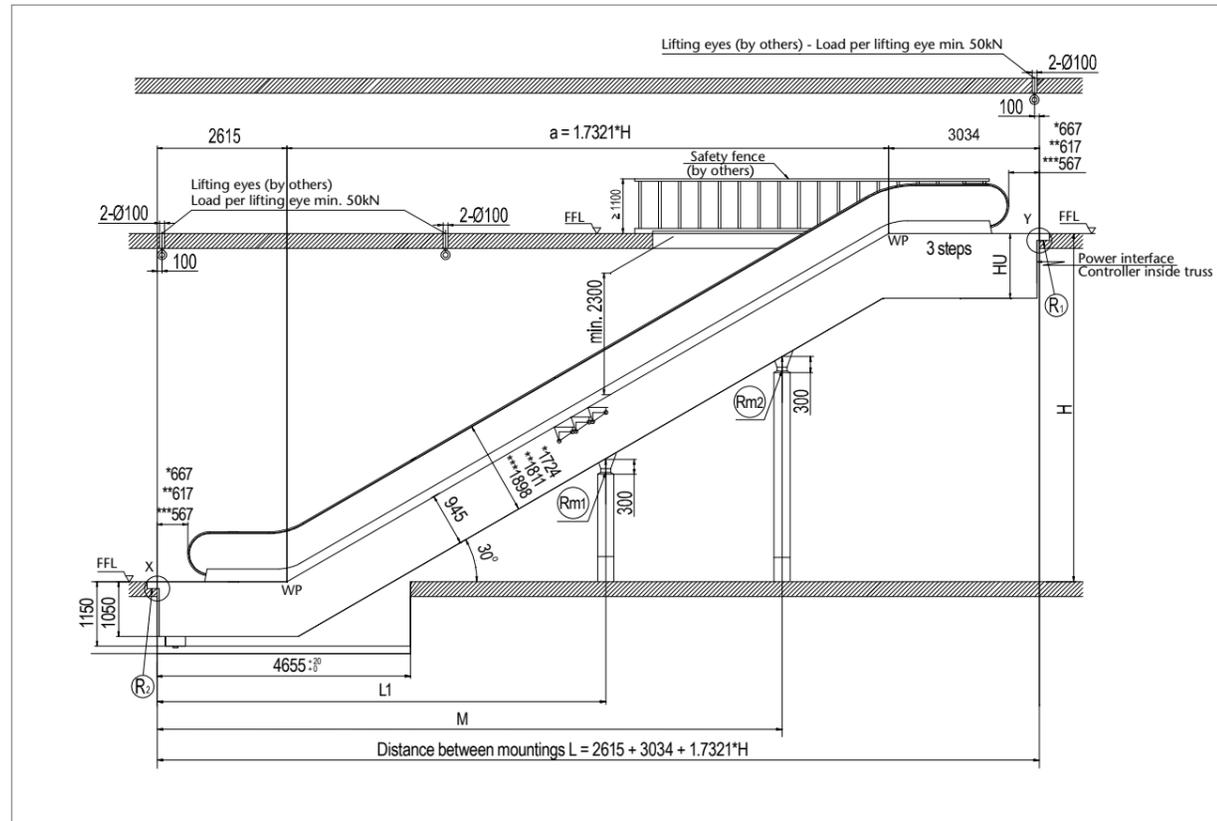| Reaction force (kN)				
	800 mm step width		1000 mm step width	
Without intermediate support L < = 16400	R1=4.5L/1000+10	R2=4.5L/1000+2	R1=5L/1000+12	R2=5L/1000+3
With one intermediate support 16400 < L < = 30000	R1=4.5(L-L1)/1000+10	R2=4.5L1/1000+2	R1=5(L-L1)/1000+12	R2=5L1/1000+3
	RM1=4.5L/1000+6		RM1=5L/1000+8	
With two intermediate supports 30000 < L < = 45000	R1=4.5(L-M)/1000+15	R2=4.5L1/1000+3.5	R1=5(L-M)/1000+15	R2=5L1/1000+4
	RM1=6.1M/1000	RM2=6.1(L-L1)/1000	RM1=6.8M/1000	RM2=6.8(L-L1)/1000

[1] Other local codes dimensional requirements are available upon request, please contact your local KONE Sales representative for more information.

KONE TravelMaster™ 120 planning dimensions

Architectural planning data

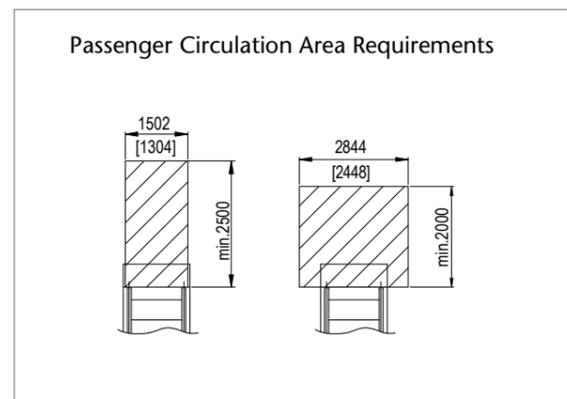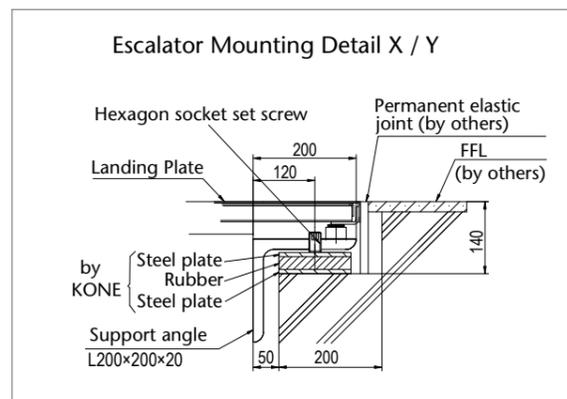## 30° inclination / 1.5 transition radii / 3 horizontal steps at each landing

Code: EN 115-1:2008 + A1:2010[1]

Lifting eyes (by others) - Load per lifting eye min. 50kN

Distance between mountings L = 2615 + 3034 + 1.7321*H

Escalator Mounting Detail X / Y

Hexagon socket set screw
Permanent elastic joint (by others)
Landing Plate
FFL (by others)
by KONE — Steel plate / Rubber / Steel plate
Support angle L200×200×20

Passenger Circulation Area Requirements

1502 [1304]   2844 [2448]
min.2500   min.2000

- All dimensions are in millimeters
- Maximum vertical rise H = 13000 mm
- One intermediate support is required when span (L) exceeds 16400 mm. A second intermediate support is required when span (L) exceeds 30000 mm.
- If intermediate support is required, please contact your KONE sales organization.
- Truss extensions are required when either the rise requires the use of double drives or the use of an inverter. For these dimensions please contact your local sales organization
- Additional cladding material maximum 15 kg/m²

  * = Balustrade height 900 mm
  ** = Balustrade height 1000 mm
  *** = Balustrade height 1100 mm
- [XXX] = Step width 800 mm
- For escalator with step width of 600 mm please contact your KONE sales office

Note:
There is a possibility of having an escalator without intermediate support however a reinforced truss is required. Please contact KONE for more dimensional information.

If you would like to obtain the exact dimensions for your specific project, we recommend you use the Escalator Design Tools, which can be found on www.kone.com.

Position of intermediate support

Span (mm)	L1, M (mm)
16400<L<=19330	L1=9053
19330<L<=21410	L1=10092
21410<L<=23704	L1=11131
23704<L<=30000	L1=(a1*1200+887)*0.866+945*0.5+2615 a1=Round{[(0.5*L-2615)/0.866-887]/1200,0}
30000<L<=45000	L1=(a1*1200+887)*0.866+945*0.5+2615 M=(a2*1200+887)*0.866+945*0.5+2615 a1=Round{[(0.333*L-2615)/0.866-887]/1200,0} a2=Round{[(0.667*L-2615)/0.866-887]/1200,0}

Truss depth of upper head

Condition	HU
H <=6000 & speed=0.5	1050
H > 6000, or speed>0.5	1300

Reaction force (kN)

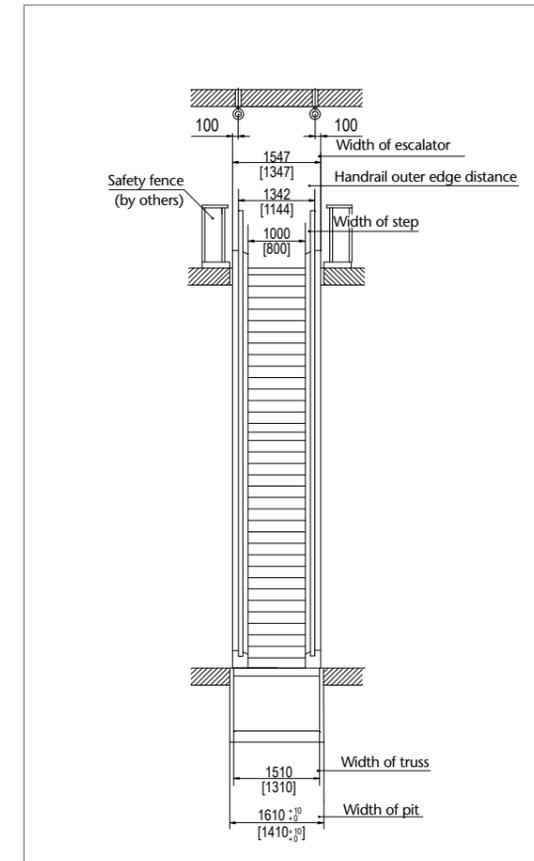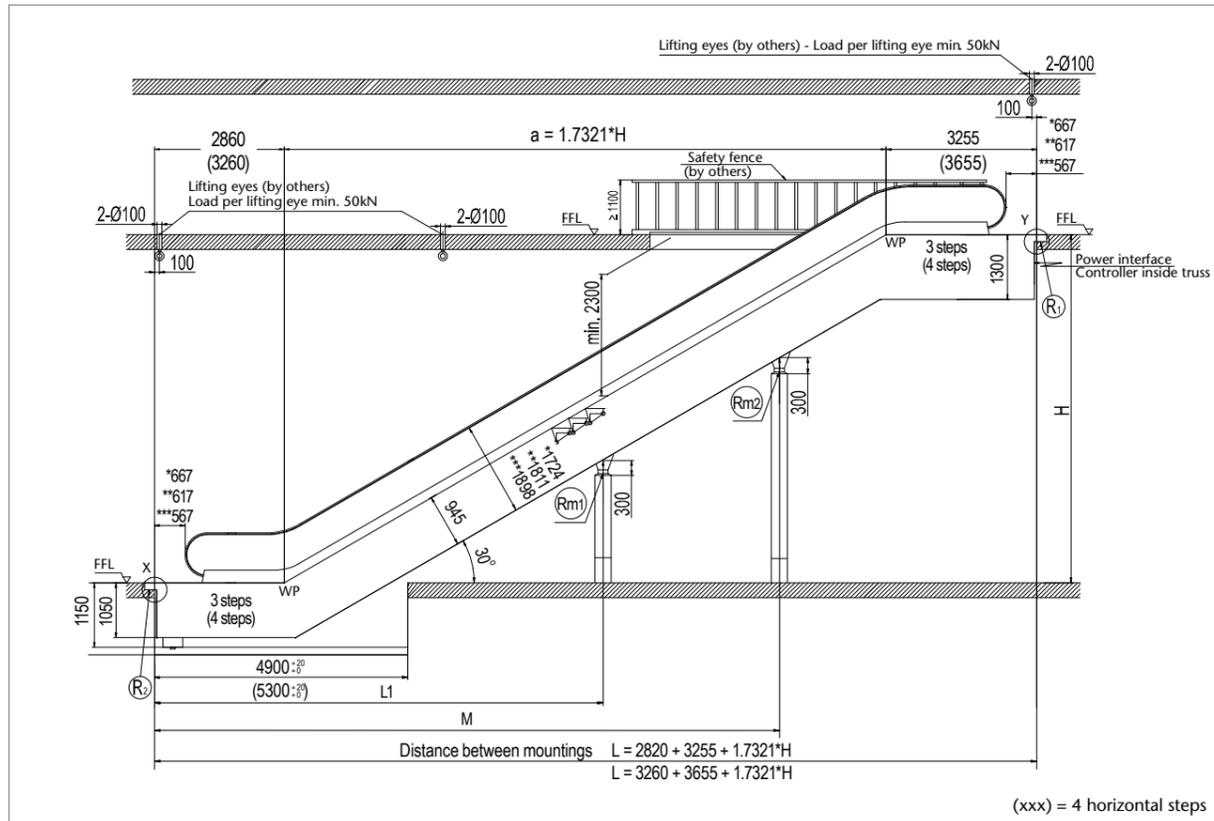|	800 mm step width		1000 mm step width	
Without intermediate support L <= 16400	R1=4.5L/1000+10	R2=4.5L/1000+2	R1=5L/1000+12	R2=5L/1000+3
With one intermediate support 16400 < L <= 30000	R1=4.5(L-L1)/1000+10	R2=4.5L1/1000+2	R1=5(L-L1)/1000+12	R2=5L1/1000+3
	RM1=4.5L/1000+6		RM1=5L/1000+8	
With two intermediate supports 30000 < L <= 45000	R1=4.5(L-M)/1000+15	R2=4.5L1/1000+3.5	R1=5(L-M)/1000+15	R2=5L1/1000+4
	RM1=6.1M/1000	RM2=6.1(L-L1)/1000	RM1=6.8M/1000	RM2=6.8(L-L1)/1000

[1] Other local codes dimensional requirements are available upon request, please contact your local KONE Sales representative for more information.

KONE TransitMaster™ 120 planning dimensions

Architectural planning data

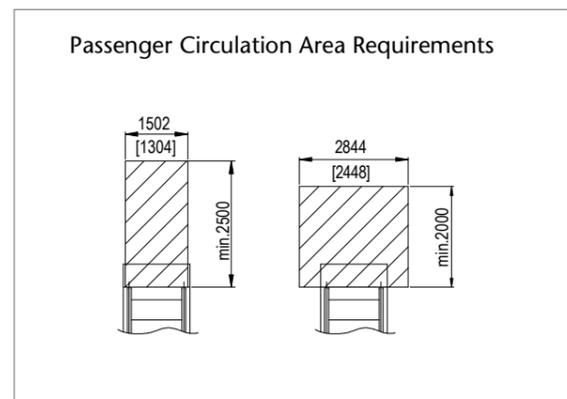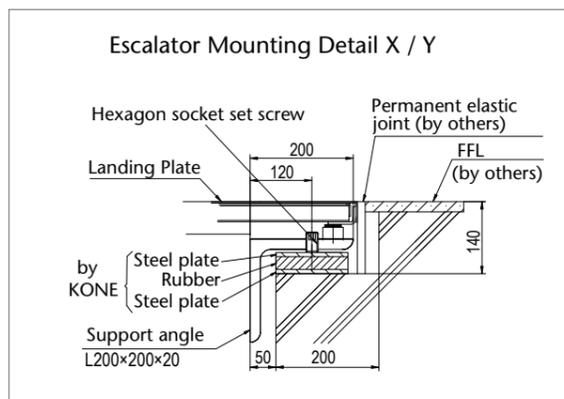## 30° inclination / 2.7 transition radii / 3 or 4 horizontal steps at each landing

EN 115-1:2008 + A1:2010[1]

Lifting eyes (by others) - Load per lifting eye min. 50kN

a = 1.7321*H

(xxx) = 4 horizontal steps

Escalator Mounting Detail X / Y

- Hexagon socket set screw
- Permanent elastic joint (by others)
- Landing Plate
- FFL (by others)
- by KONE: Steel plate / Rubber / Steel plate
- Support angle L200×200×20

Passenger Circulation Area Requirements

- All dimensions are in millimeters
- Maximum vertical rise H = 15000 mm
- One intermediate support is required when span (L) exceeds 16400 mm. A second intermediate support is required when span (L) exceeds 30000 mm.
- If intermediate support is required, please contact your KONE sales organization.
- Truss extensions are required when either the rise requires the use of double drives or the use of an inverter. For these dimensions please contact your local sales organization
- Additional cladding material maximum 15 kg/m²
- (XXX) = 4 horizontal steps
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- [XXX] = Step width 800 mm
- For escalator with step width of 600 mm please contact your KONE sales office

Note:
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Position of intermediate support

Span (mm)	L1, M (mm)	
	3 horizontal steps	4 horizontal steps
16400<L<=30000	L1=(a1*1200+887)*0.866+945*0.5+2860 a1=Round{[(0.5*L-2860)/0.866-887]/1200,0}	L1=(a1*1200+887)*0.866+945*0.5+3260 a1=Round{[(0.5*L-3260)/0.866-887]/1200,0}
30000<L<=45000	L1=(a1*1200+887)*0.866+945*0.5+2860 M=(a2*1200+887)*0.866+945*0.5+2860 a1=Round{[(0.333*L-2860)/0.866-887]/1200,0} a2=Round{[(0.667*L-2860)/0.866-887]/1200,0}	L1=(a1*1200+887)*0.866+945*0.5+3260 M=(a2*1200+887)*0.866+945*0.5+3260 a1=Round{[(0.333*L-3260)/0.866-887]/1200,0} a2=Round{[(0.667*L-3260)/0.866-887]/1200,0}

Reaction force (kN)

	800 mm step width		1000 mm step width	
Without intermediate support L < = 16400	R1=4.5L/1000+10	R2=4.5L/1000+2	R1=5L/1000+12	R2=5L/1000+3
With one intermediate support 16400 < L < = 30000	R1=4.5(L-L1)/1000+10	R2=4.5L1/1000+2	R1=5(L-L1)/1000+12	R2=5L1/1000+3
	RM1=4.5L/1000+6		RM1=5L/1000+8	
With two intermediate supports 30000 < L < = 45000	R1=4.5(L-M)/1000+15	R2=4.5L1/1000+3.5	R1=5(L-M)/1000+15	R2=5L1/1000+4
	RM1=6.1M/1000	RM2=6.1(L-L1)/1000	RM1=6.8M/1000	RM2=6.8(L-L1)/1000

[1] Other local codes dimensional requirements are available upon request, please contact your local KONE Sales representative for more information.