KONE TransitMaster™ 120 planning dimensions
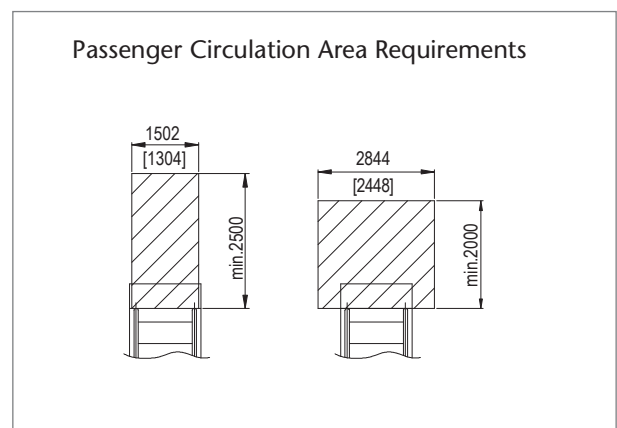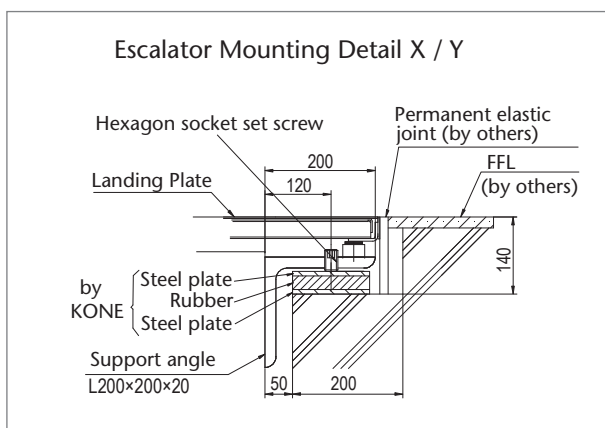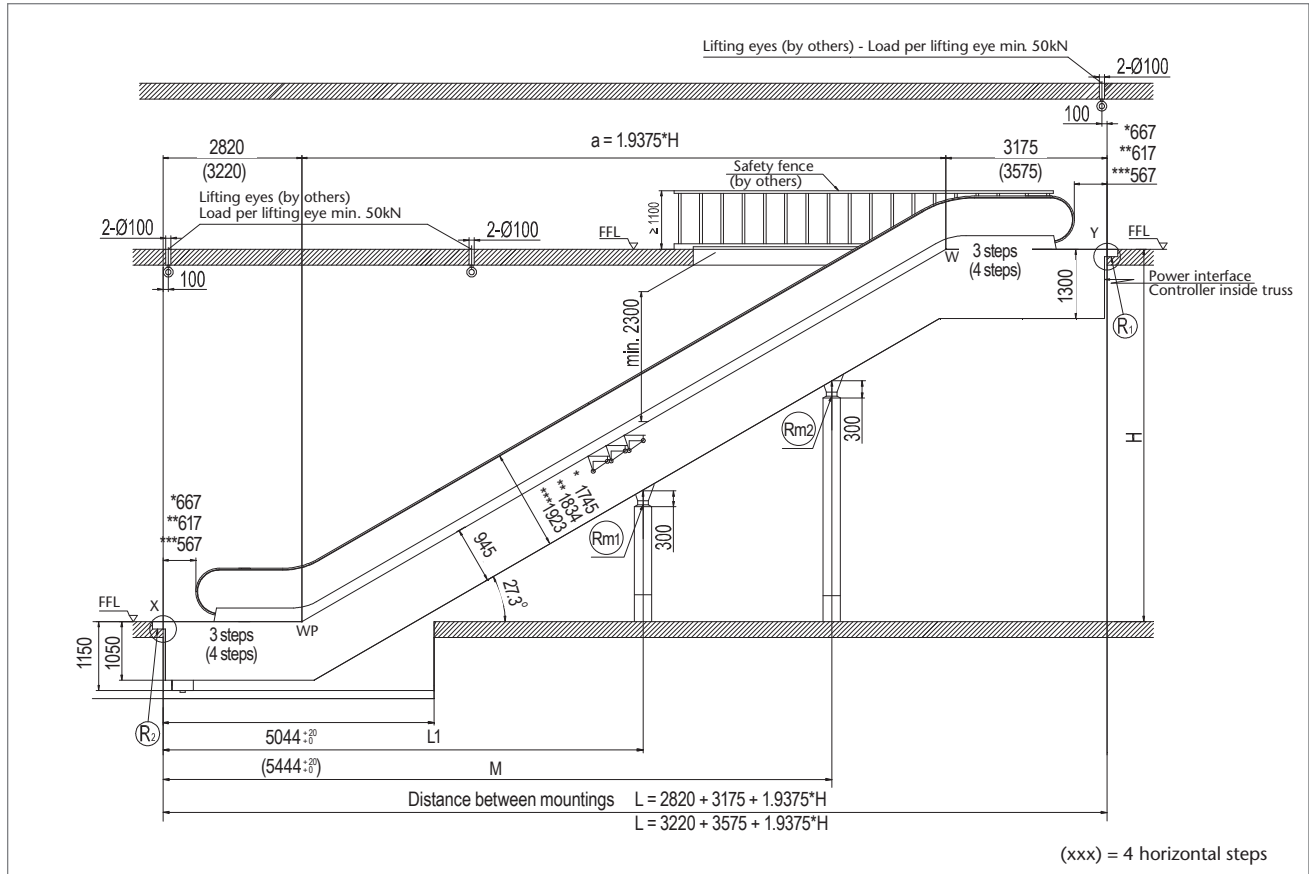
Architectural planning data

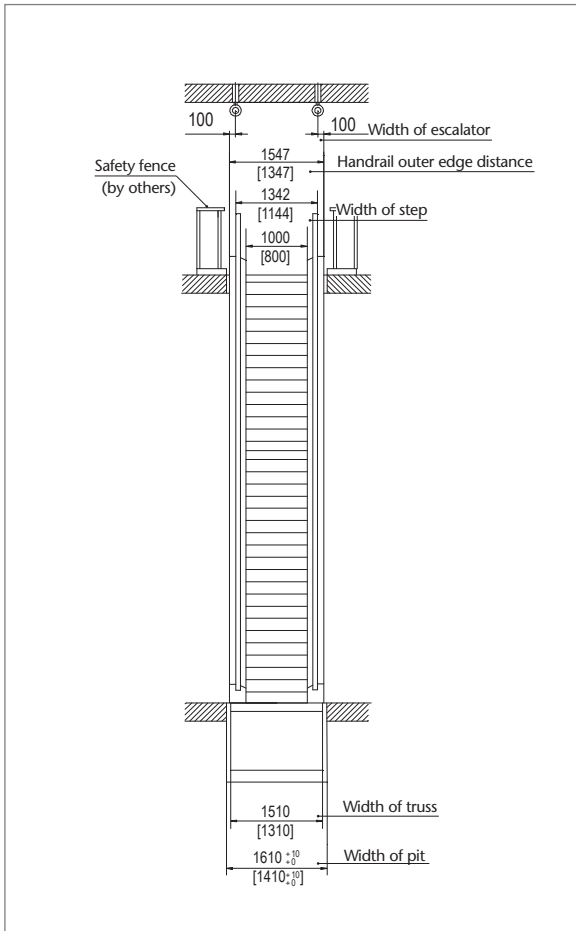### 27.3° inclination / 2.7 transition radii / 3 or 4 horizontal steps at each landing

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

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

2-Ø100

100

*667
**617
***567

2820
(3220)

a = 1.9375*H

3175
(3575)

Safety fence
(by others)

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

2-Ø100

2-Ø100

100

FFL

≥1100

min. 2300

3 steps
(4 steps)

W

Y

FFL

1300

Power interface
Controller inside truss

R₁

*667
**617
***567

Rm2

300

H

* 1745
** 1634
*** 1923

945

Rm1

300

27.3°

FFL

X

3 steps
(4 steps)

WP

1150
1050

R₂

5044^{+20}_{0}
(5444^{+20}_{0})

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)

Landing Plate

FFL
(by others)

200

120

140

by
KONE

Steel plate
Rubber
Steel plate

Support angle
L200×200×20

50   200

Passenger Circulation Area Requirements

1502
[1304]

min.2500

2844
[2448]

min.2000

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.

- 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/m^2
- (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.
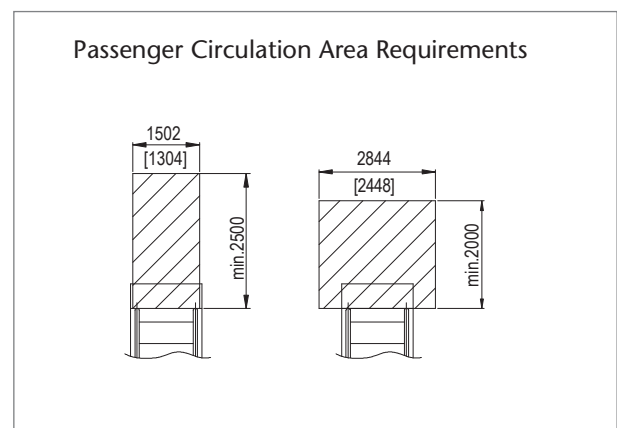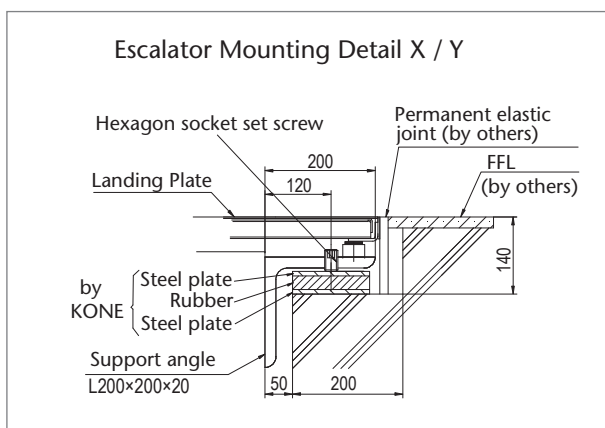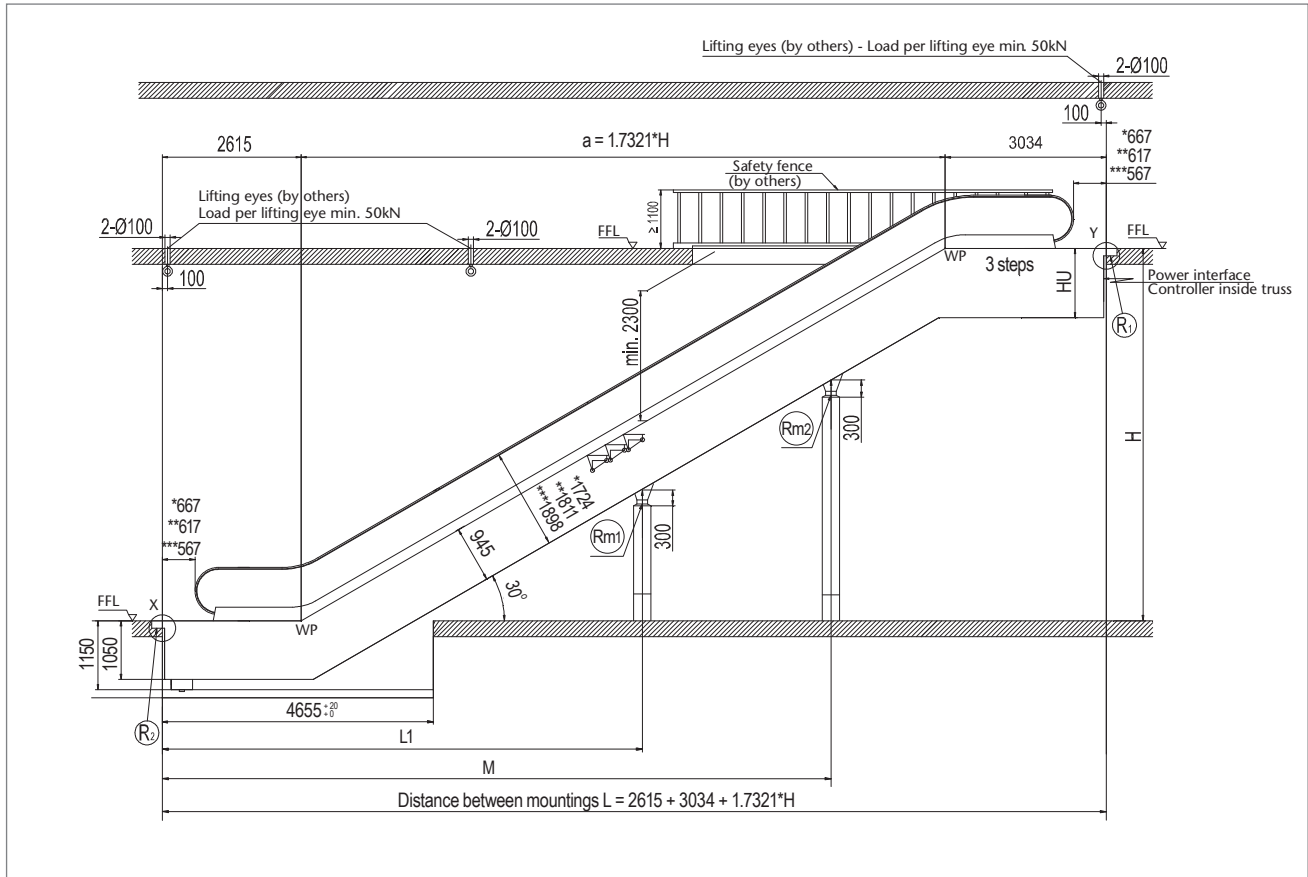
Position of intermediate support		
Span (mm)	L1, M (mm)	
	3 horizontal steps	4 horizontal steps
16400 <L<= 30000	L1 = (a1*1200+887)*0.889+945*0.459+2820 a1 = Round{[(0.5*L-2820)/0.889-887]/1200,0}	L1 = (a1*1200+887)*0.889+945*0.459+3220 a1 = Round{[(0.5*L-3220))/0.889-887]/1200,0}
30000 <L<= 45000	L1 = (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}

KONE TransitMaster™ 120 planning dimensions

Architectural planning data
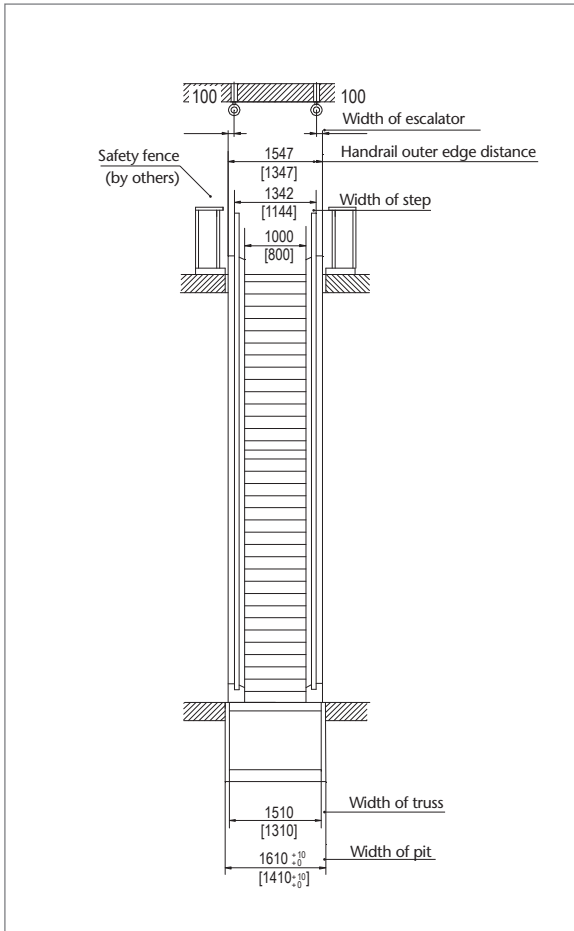### 30° inclination / 1.5 transition radii / 3 horizontal steps at each landing
Code: EN 115-1:2008 + A1:2010[1]

Lifting eyes (by others) - Load per lifting eye min. 50kN
2-Ø100
100
*667 **617 ***567

2615   a = 1.7321*H   3034

Lifting eyes (by others) Load per lifting eye min. 50kN
2-Ø100   2-Ø100   FFL   Safety fence (by others)   ≥1100   WP   3 steps   HU   Y   FFL   Power interface Controller inside truss   R1
100   min. 2300

Rm2   300

*667 **617 ***567   *1724 **1811 ***1898   945   Rm1   300   30°   H

FFL   X   WP   1150 1050   4655 +20/-0   L1   M   R2

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   200   FFL (by others)
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

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.

- 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.

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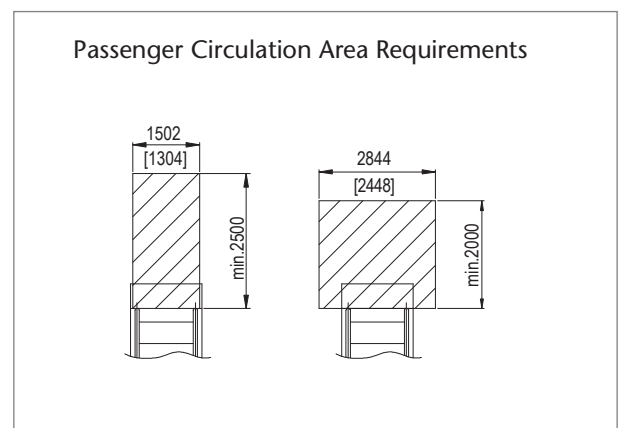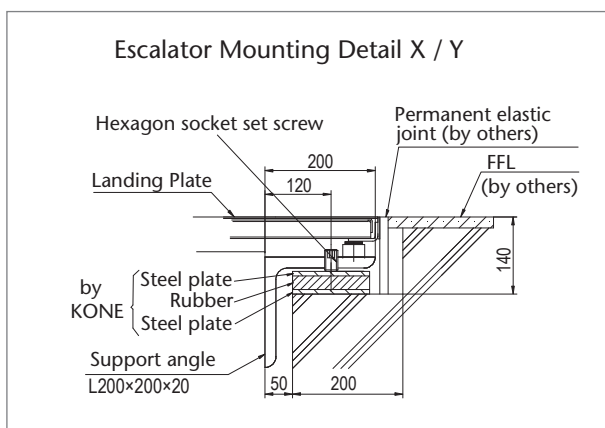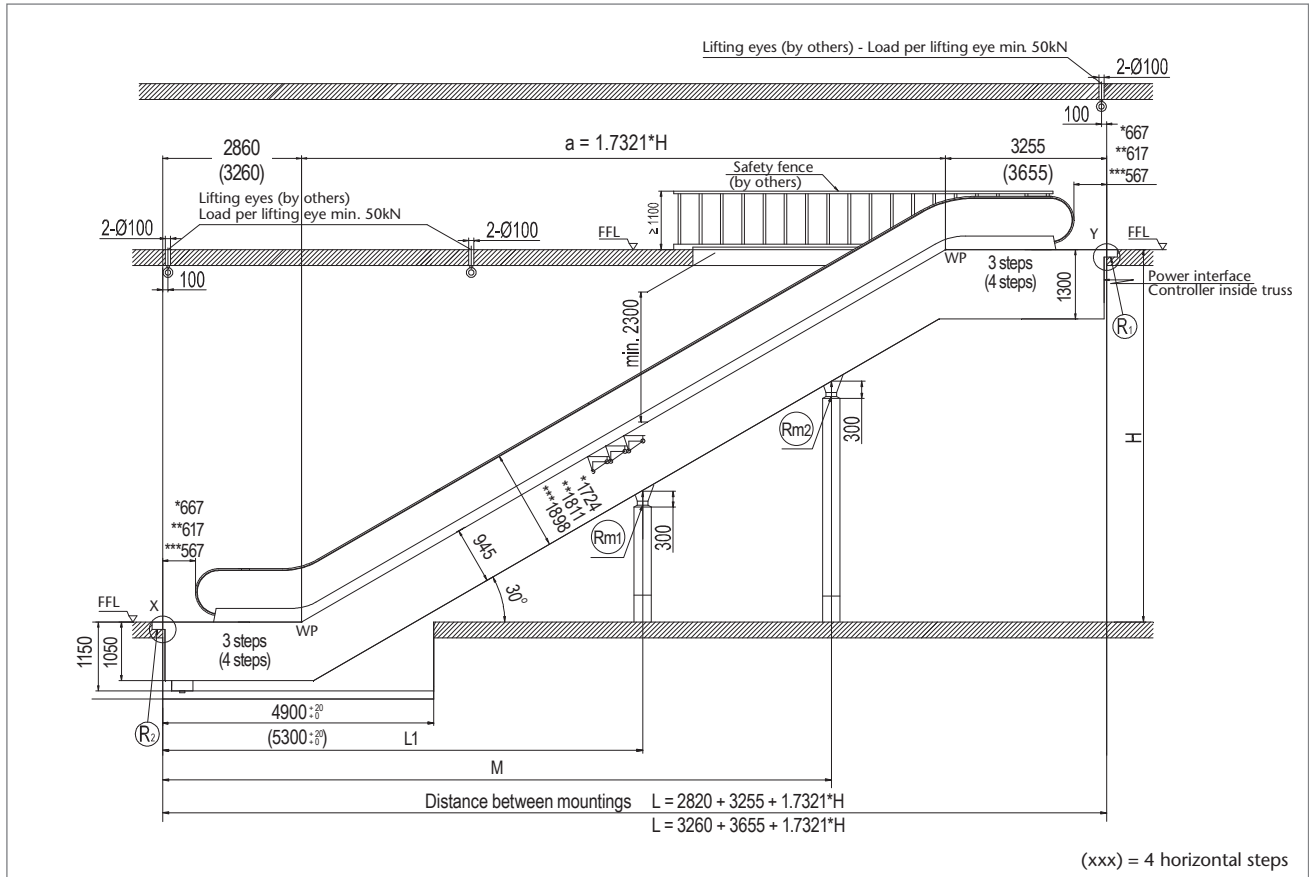| Position of intermediate support	
Span (mm)	L1, M (mm)
16400<L<=19330	L1=9053
19330<L<=21410	L1=10092
21410<L<=23704	L1=11131
23704<L<=30000	L1=(a1*1200+887)*0.866+945*0.5+2615 a1=Round{[(0.5*L-2615)/0.866-887]/1200,0}
30000<L<=45000	L1=(a1*1200+887)*0.866+945*0.5+2615 M=(a2*1200+887)*0.866+945*0.5+2615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

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

2-Ø100

a = 1.7321*H

Safety fence (by others)

2860 (3260)

3255 (3655)

*667
**617
***567

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

2-Ø100

2-Ø100

FFL

≥1100

WP

3 steps
(4 steps)

1300

Y

FFL

Power interface
Controller inside truss

R₁

min. 2300

Rm2

300

H

*667
**617
***567

*724
**811
***898

Rm1

300

945

30°

FFL

X

1150
1050

3 steps
(4 steps)

WP

R₂

4900⁺²⁰₋₀
(5300⁺²⁰₋₀)

L1

M

Distance between mountings   L = 2820 + 3255 + 1.7321*H
L = 3260 + 3655 + 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)

200
120

by KONE

Steel plate
Rubber
Steel plate

140

Support angle
L200×200×20

50   200

Passenger Circulation Area Requirements

1502
[1304]

min. 2500

2844
[2448]

min. 2000

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
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	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

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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}