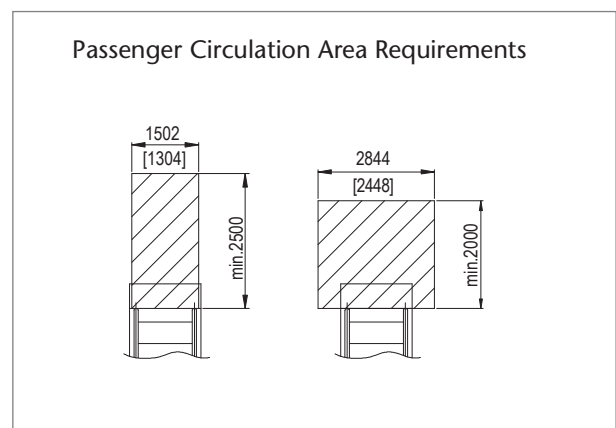
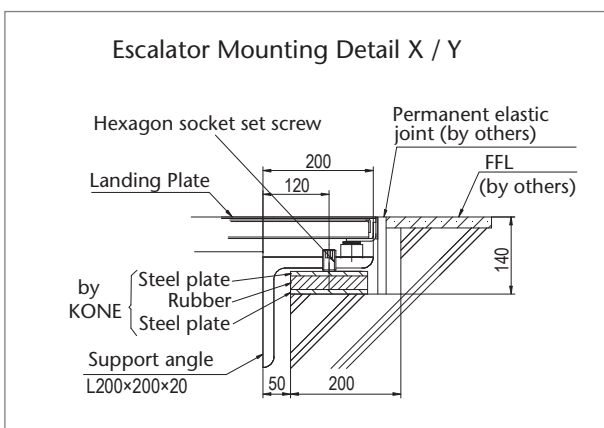
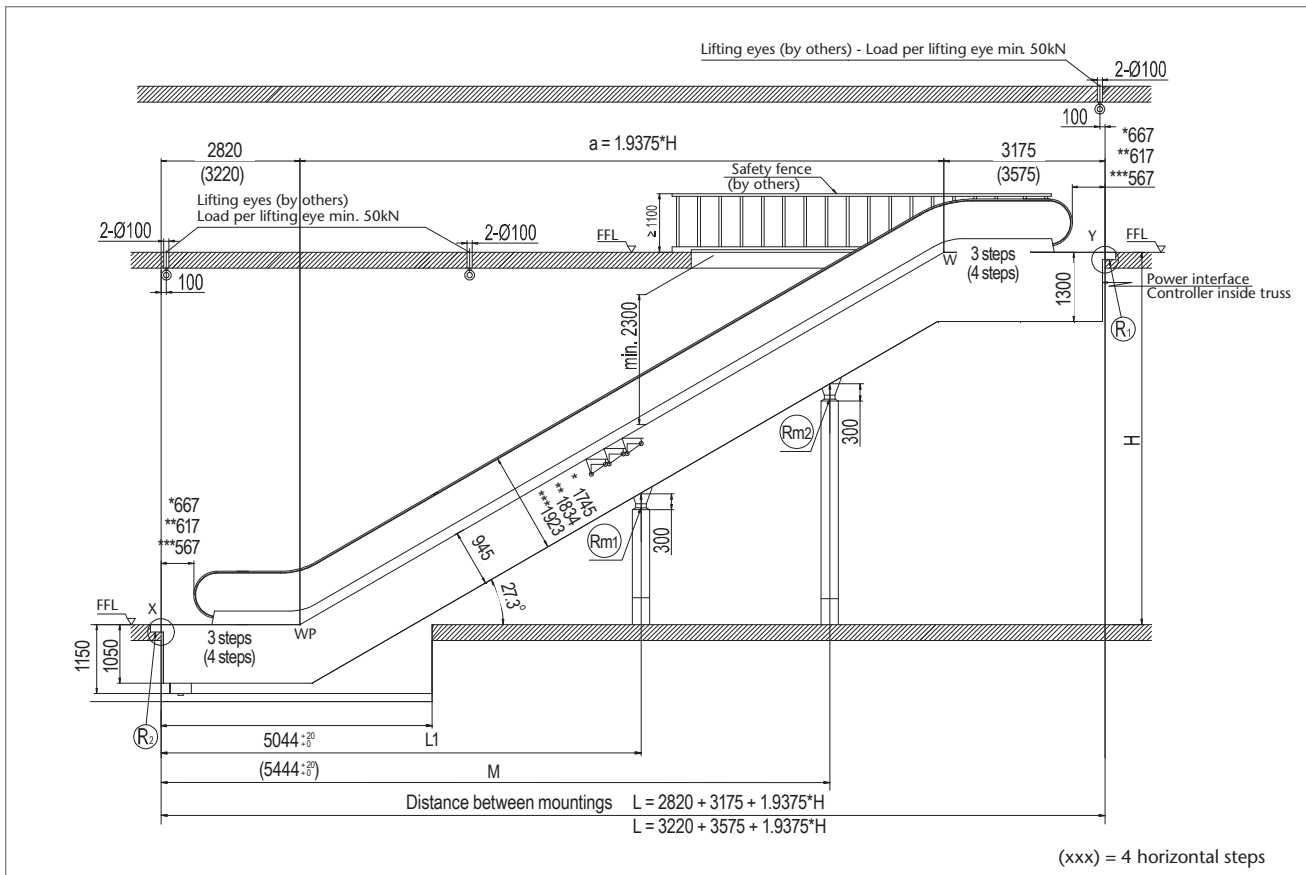


# KONE TransitMaster™ 120 planning dimensions

Architectural planning data

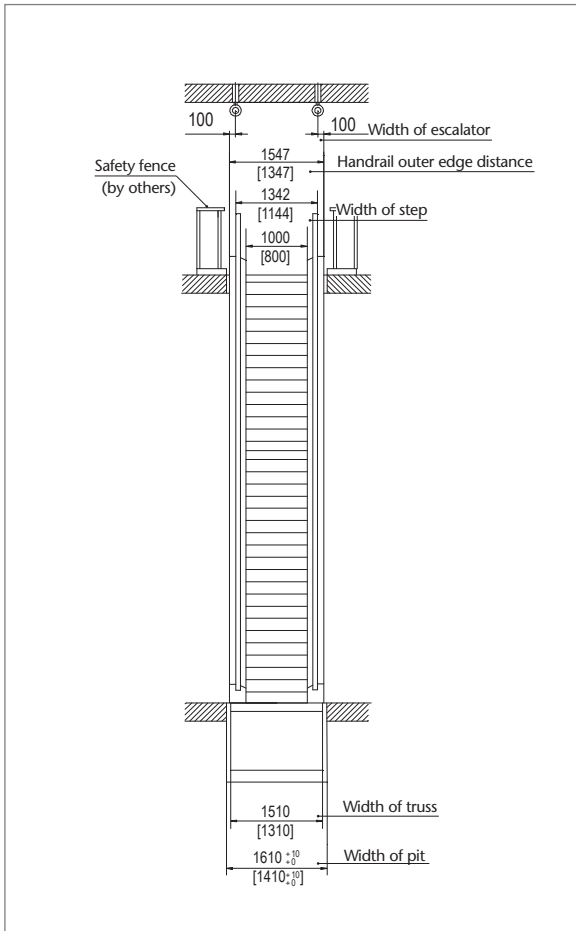
**27.3° inclination / 2.7 transition radii / 3 or 4 horizontal steps at each landing**

Code: EN 115-1:2008 + A1:2010<sup>1)</sup>



	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 $30000 < L <= 45000$	$R1=4.5(L-M)/1000+15$	$R2=4.5L1/1000+3.5$	$R1=5(L-M)/1000+15$	$R2=5L1/1000+4$
	$RM1=6.1M/1000$	$RM2=6.1(L-L1)/1000$	$RM1=6.8M/1000$	$RM2=6.8(L-L1)/1000$

<sup>1)</sup> 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<sup>2</sup>
- (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](http://www.kone.com).

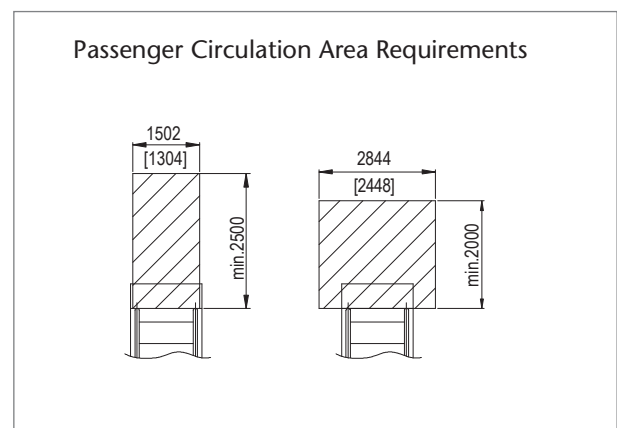
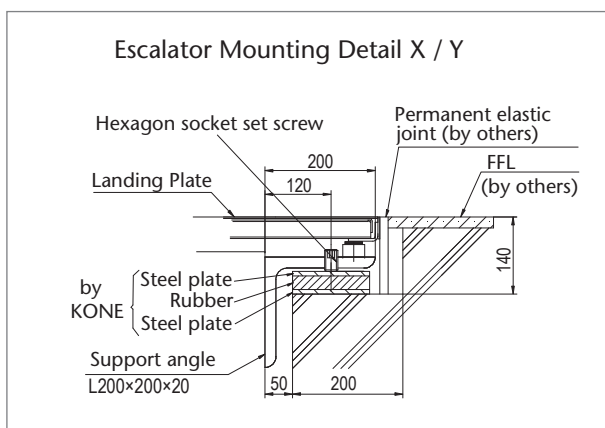
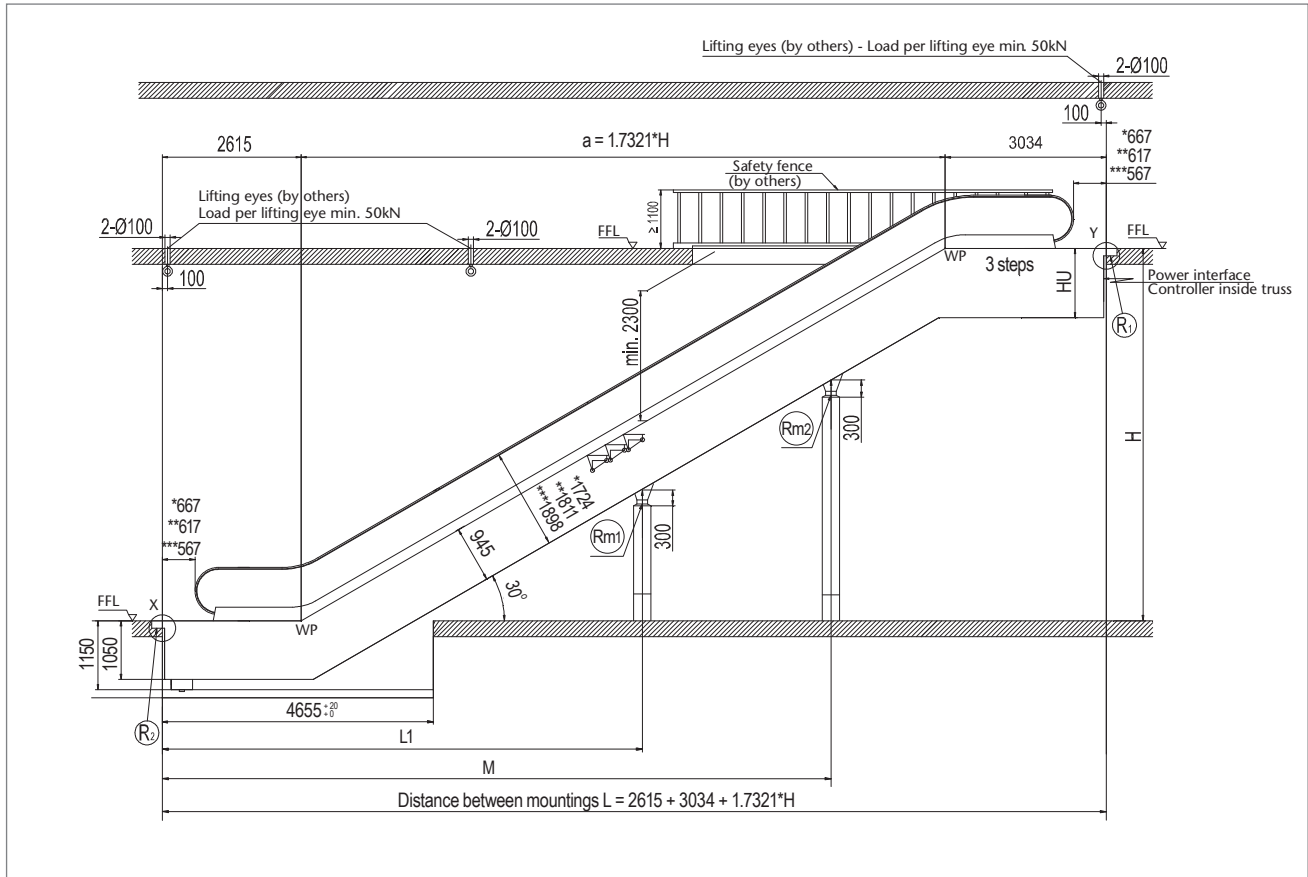
Position of intermediate support		
Span (mm)	L1, M (mm)	
	3 horizontal steps	4 horizontal steps
16400 <L≤ 30000	$L1 = (a1*1200+887)*0.889+945*0.459+2820$ $a1 = \text{Round}\{[(0.5*L-2820)/0.889-887]/1200,0\}$	$L1 = (a1*1200+887)*0.889+945*0.459+3220$ $a1 = \text{Round}\{[(0.5*L-3220)/0.889-887]/1200,0\}$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

# KONE TransitMaster™ 120 planning dimensions

Architectural planning data

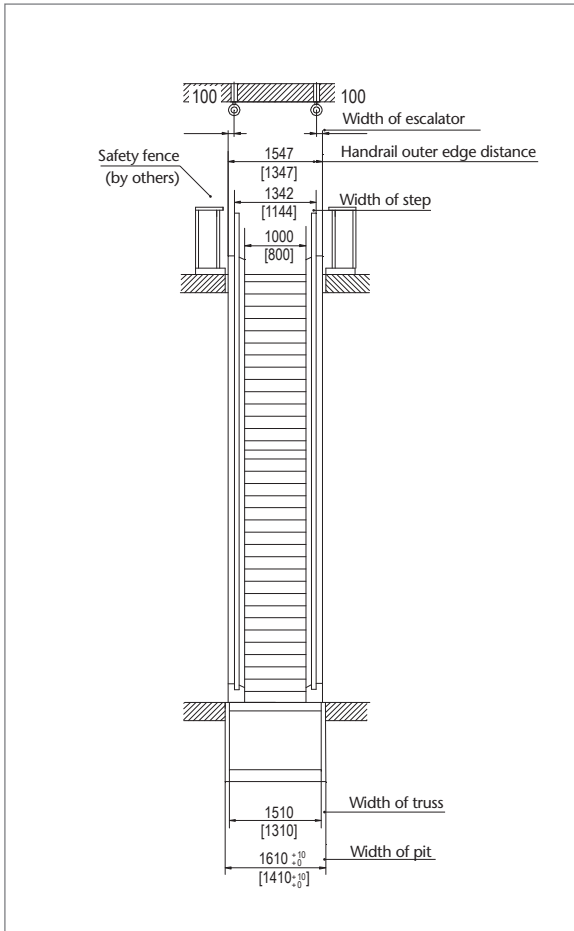
**30° inclination / 1.5 transition radii / 3 horizontal steps at each landing**

Code: EN 115-1:2008 + A1:2010<sup>1)</sup>



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

<sup>1)</sup> 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/m<sup>2</sup>
  - \* = 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}

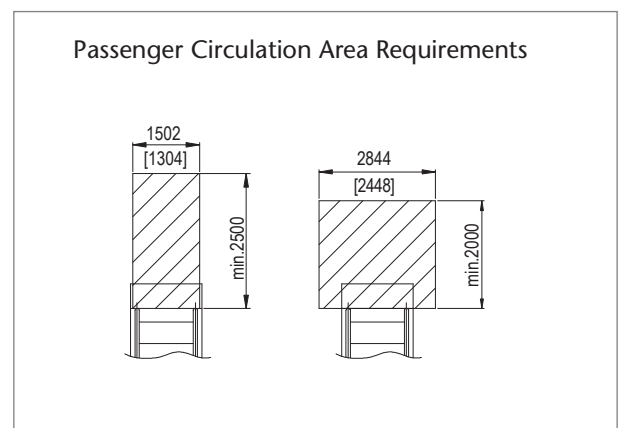
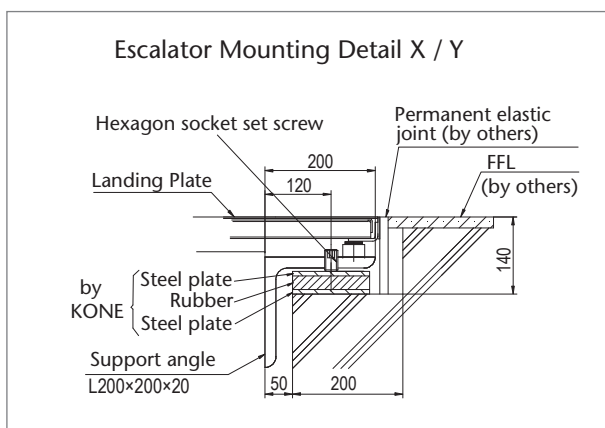
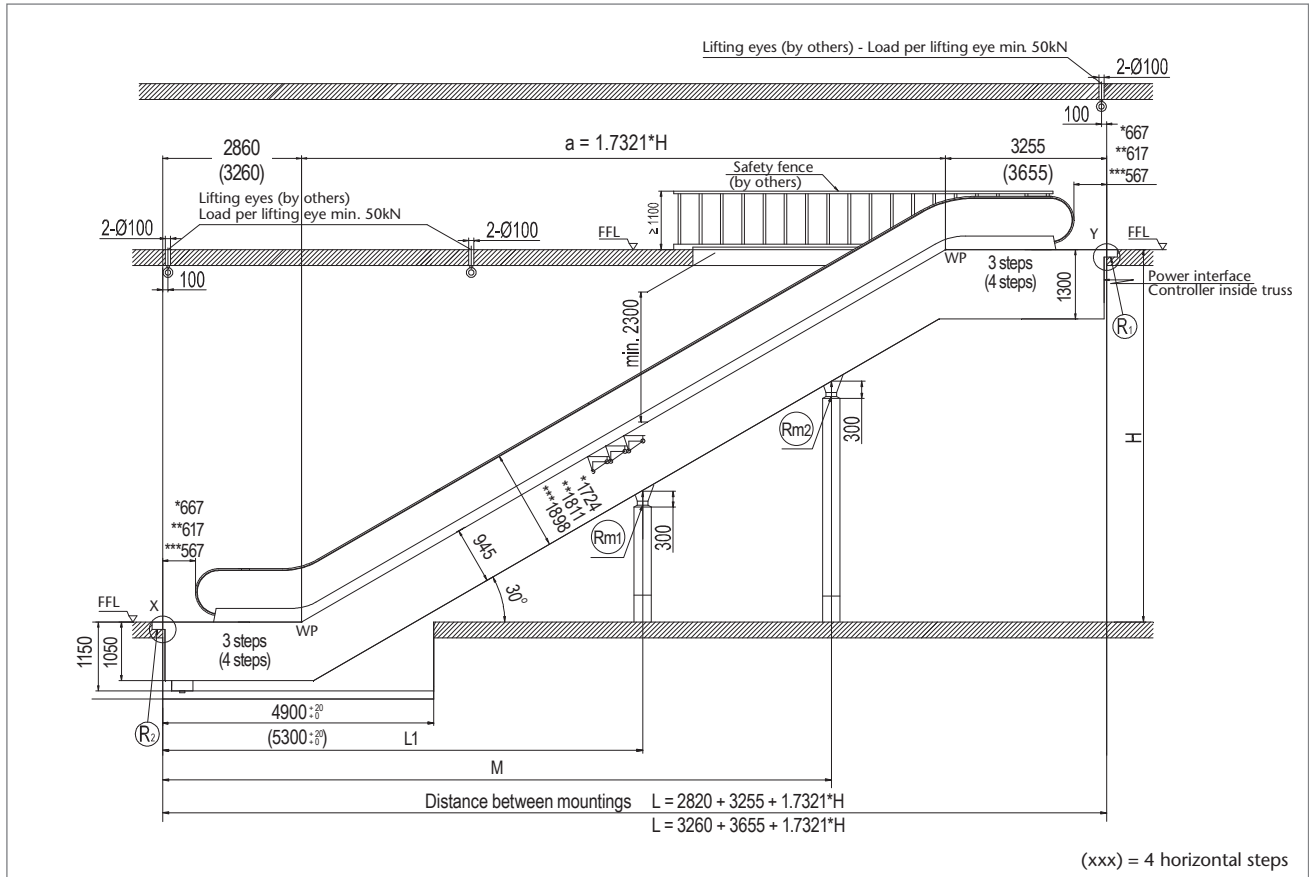
Truss depth of upper head	
Condition	HU
H ≤ 6000 & speed=0.5	1050
H > 6000, or speed>0.5	1300

# KONE TransitMaster™ 120 planning dimensions

Architectural planning data

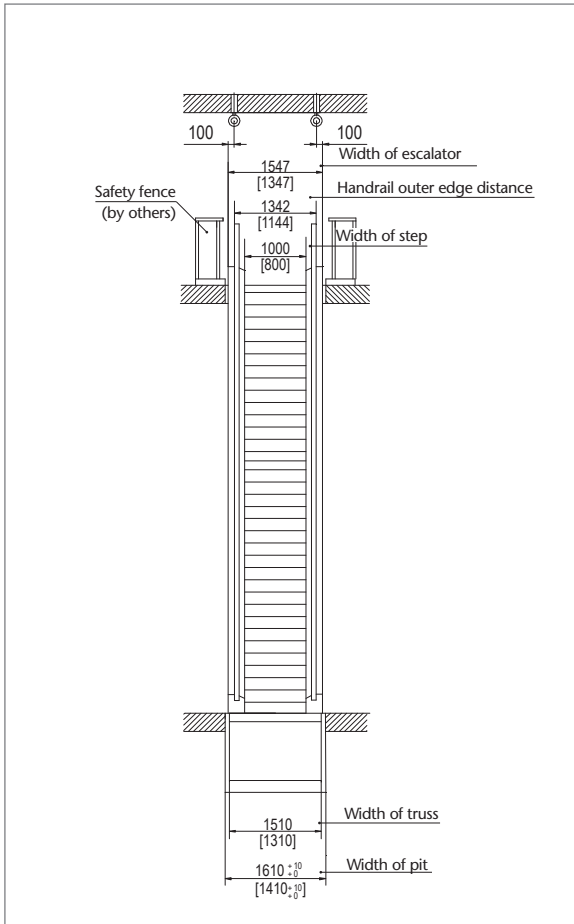
**30° inclination / 2.7 transition radii / 3 or 4 horizontal steps at each landing**

EN 115-1:2008 + A1:2010<sup>1)</sup>



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

<sup>1)</sup> 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<sup>2</sup>
- (XXX) = 4 horizontal steps
  - \* = Balustrade height 900 mm
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- [XXX] = Step width 800 mm
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**Note:**

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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](http://www.kone.com).

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