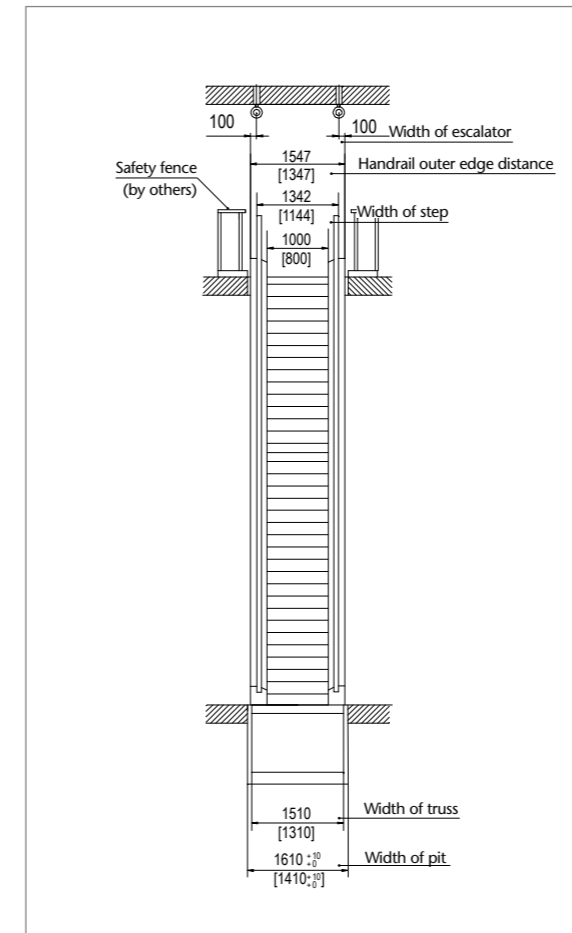
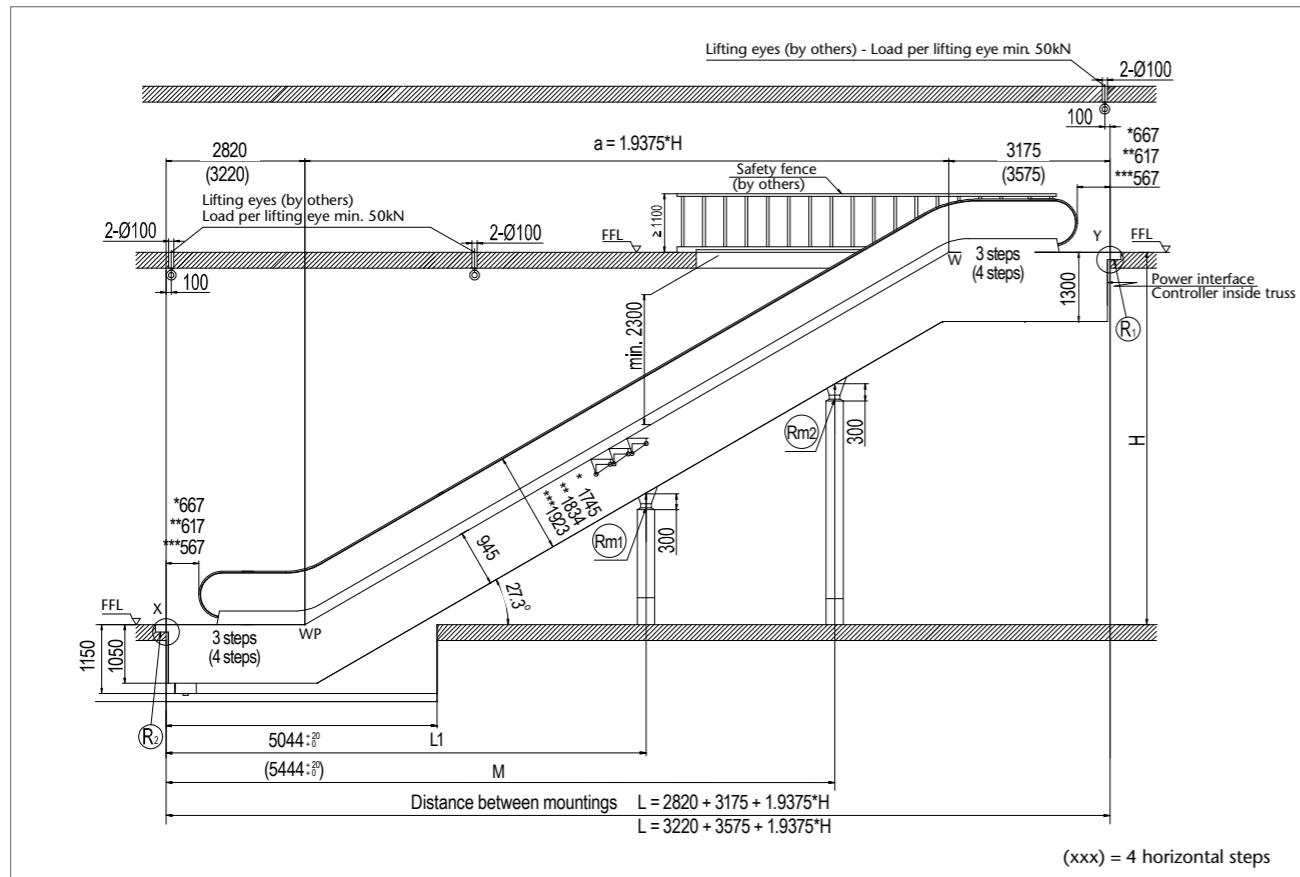


# KONE TravelMaster™ 120 planning dimensions

Architectural planning data

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

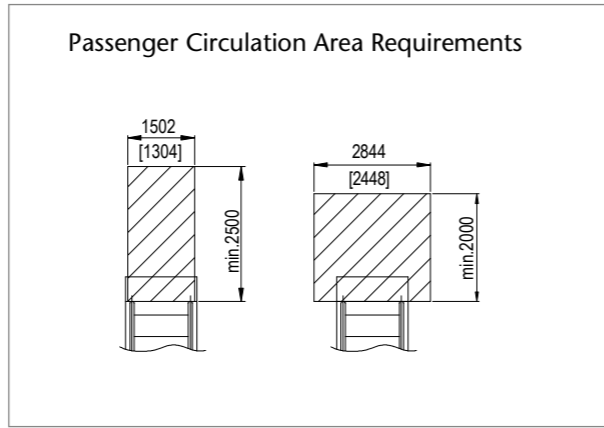
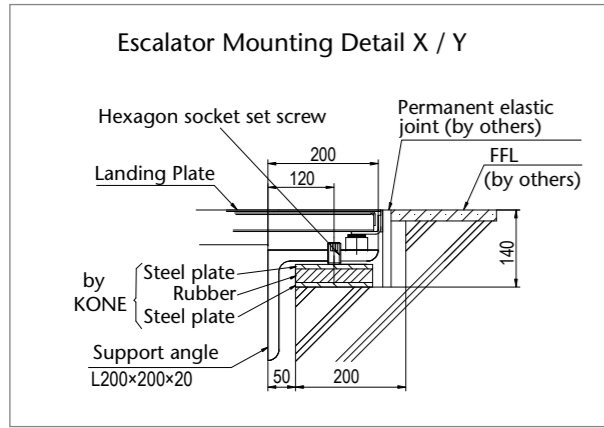
Code: EN 115-1:2008 + A1:2010<sup>1)</sup>



- 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).



Span (mm)	Position of intermediate support	
	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

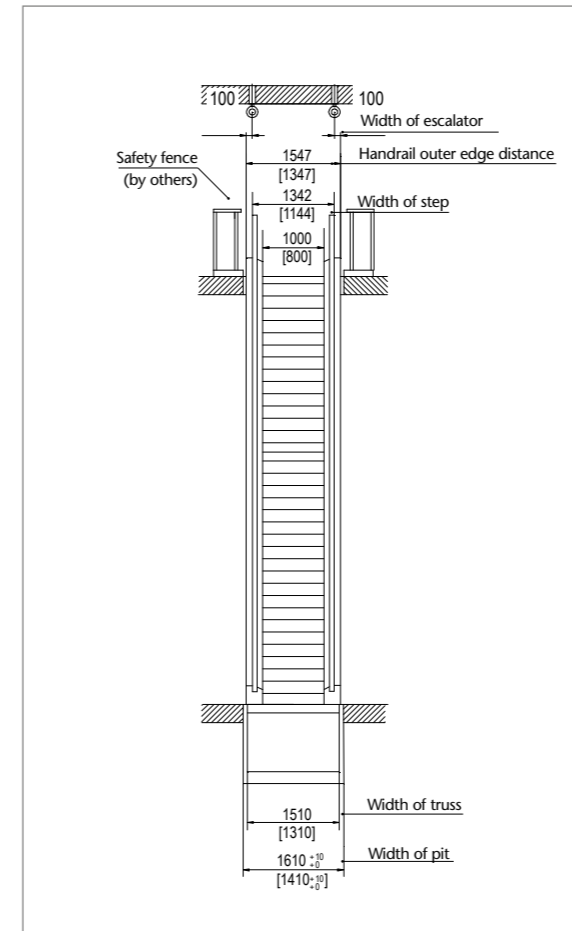
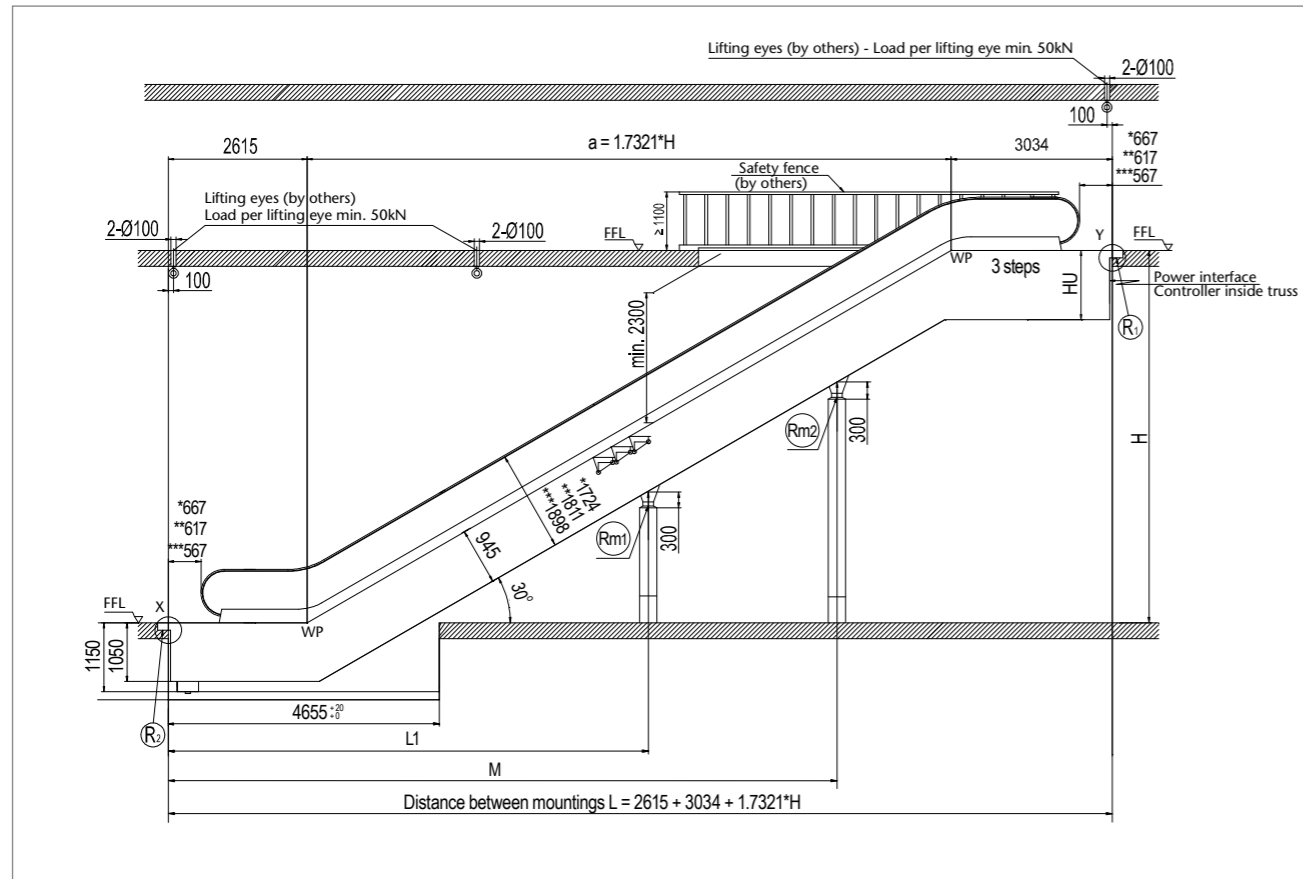
<sup>1)</sup> Other local codes dimensional requirements are available upon request, please contact your local KONE Sales representative for more information.

# KONE TravelMaster™ 120 planning dimensions

Architectural planning data

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

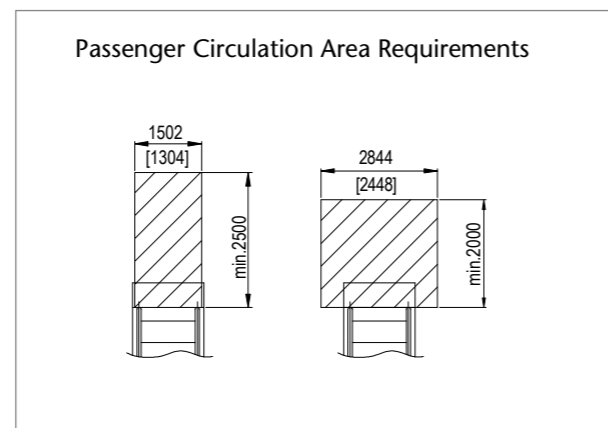
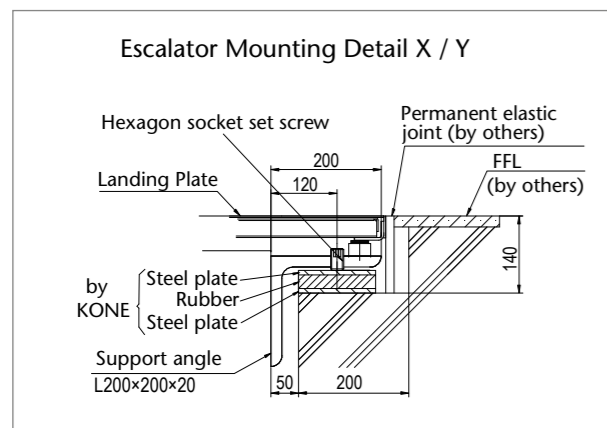
Code: EN 115-1:2008 + A1:2010<sup>1)</sup>



- 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.

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).



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

Position of intermediate support	
Span (mm)	L1, M (mm)
$16400 < L \leq 19330$	$L1 = 9053$
$19330 < L \leq 21410$	$L1 = 10092$
$21410 < L \leq 23704$	$L1 = 11131$
$23704 < L \leq 30000$	$L1 = (a1 * 1200 + 887) * 0.866 + 945 * 0.5 + 2615$ $a1 = \text{Round}(\{(0.5 * L - 2615) / 0.866 - 887\} / 1200, 0)$
$30000 < L \leq 45000$	$L1 = (a1 * 1200 + 887) * 0.866 + 945 * 0.5 + 2615$ $M = (a2 * 1200 + 887) * 0.866 + 945 * 0.5 + 2615$ $a1 = \text{Round}(\{(0.333 * L - 2615) / 0.866 - 887\} / 1200, 0)$ $a2 = \text{Round}(\{(0.667 * L - 2615) / 0.866 - 887\} / 1200, 0)$

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

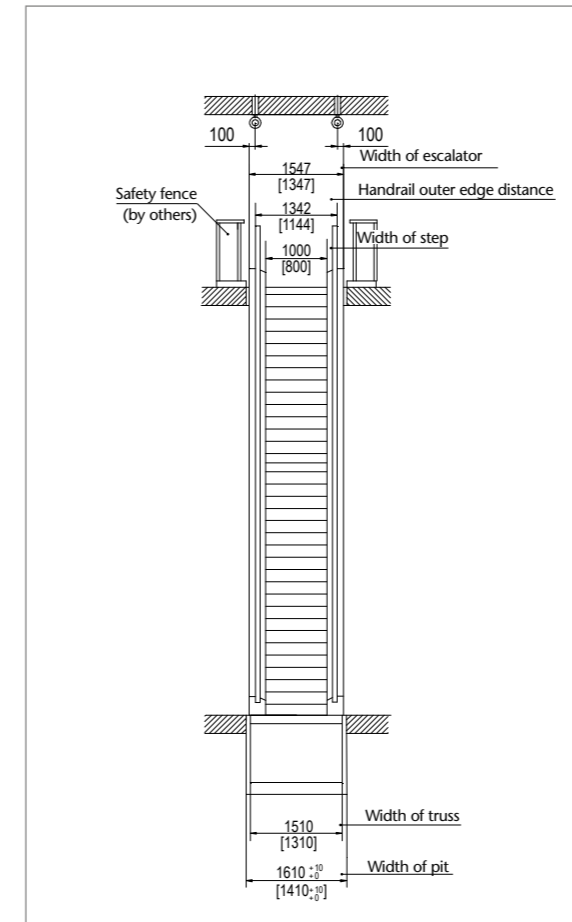
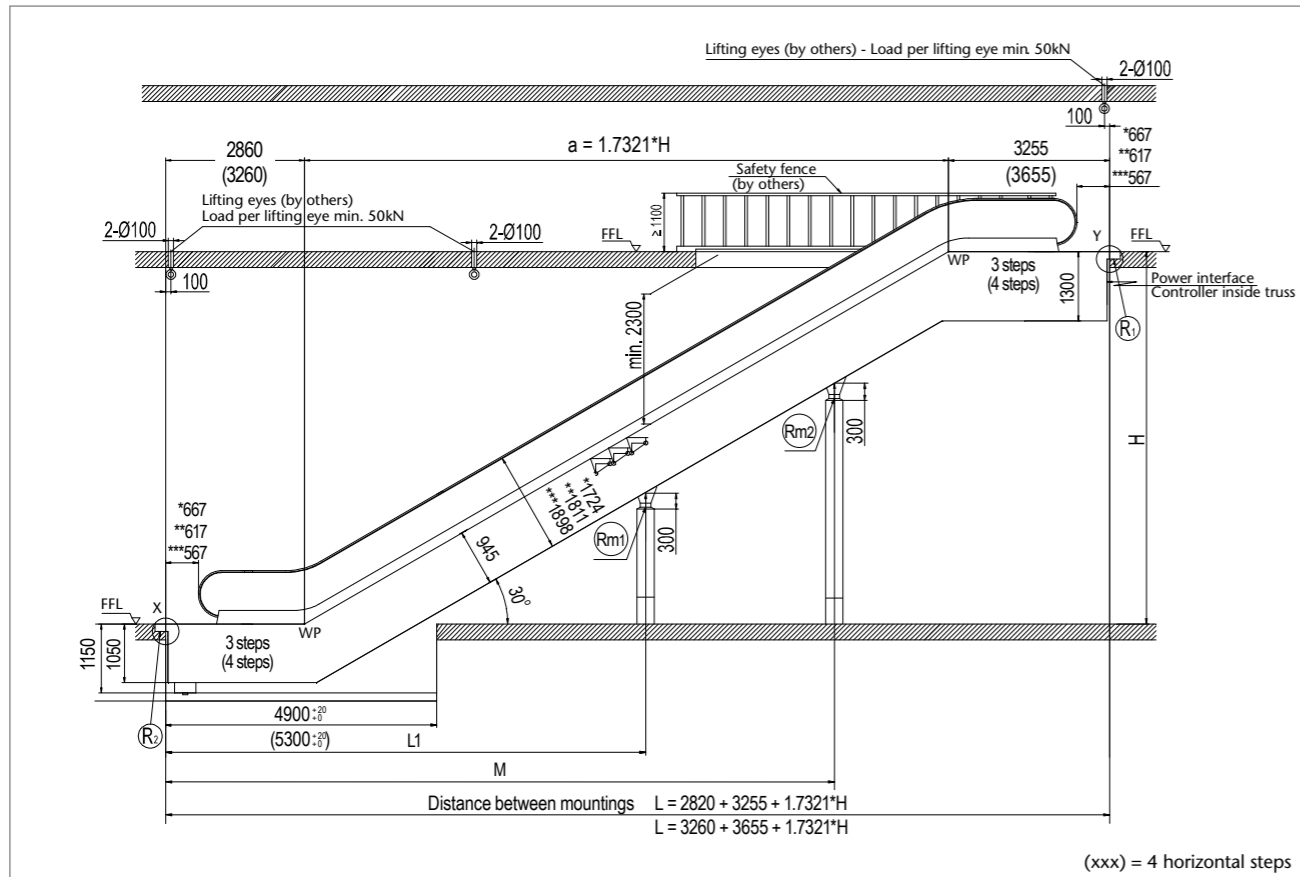
<sup>1)</sup> Other local codes dimensional requirements are available upon request, please contact your local KONE Sales representative for more information.

# KONE TransitMaster™ 120 planning dimensions

Architectural planning data

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

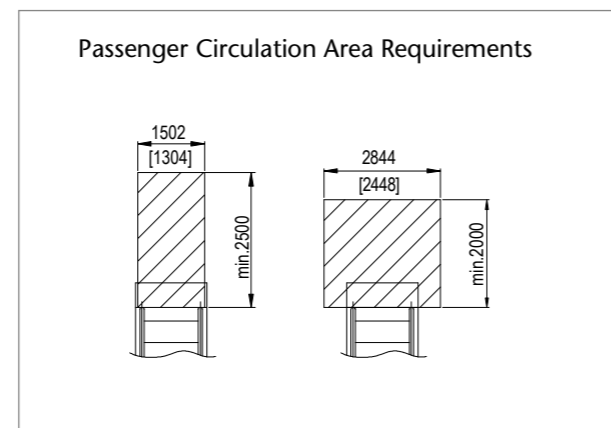
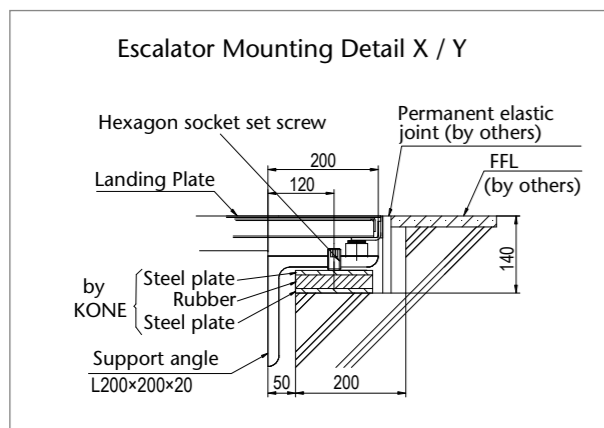
EN 115-1:2008 + A1:2010<sup>1)</sup>



- 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).



Span (mm)	Position of intermediate support	
	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

<sup>1)</sup> Other local codes dimensional requirements are available upon request, please contact your local KONE Sales representative for more information.