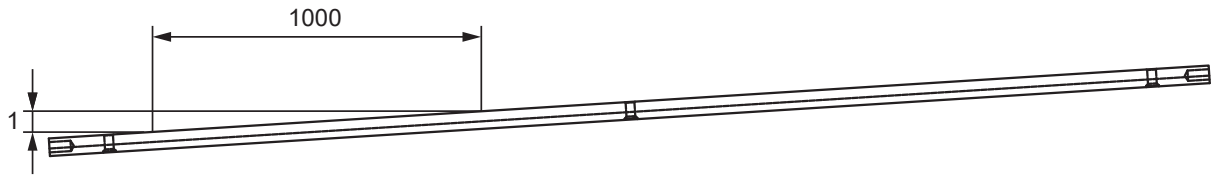
Regulations for installing rails

When positioning a rail, make sure to check the following things:

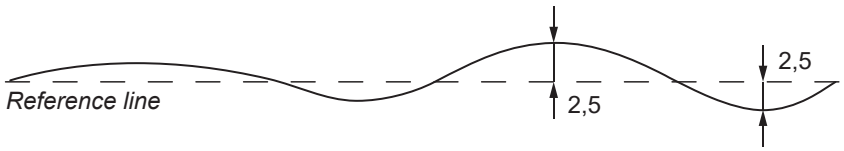
Maximum inclination of rails

At any point on the rail, the slope of the rail should not exceed 1 mm over a 1 000 mm length.



Absolute vertical tolerance

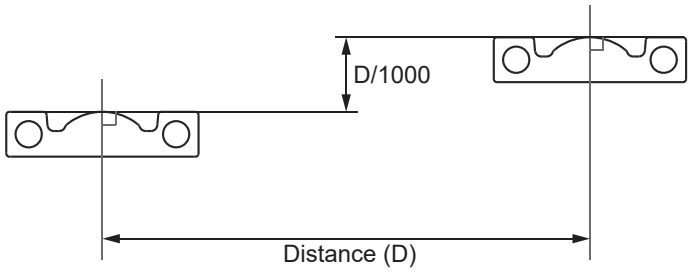
The rails should be installed to 2,5 mm of a reference line in longitudinal direction of the rail. This reference point/line shall be determined in the next chapter of this manual.



Relative vertical tolerance

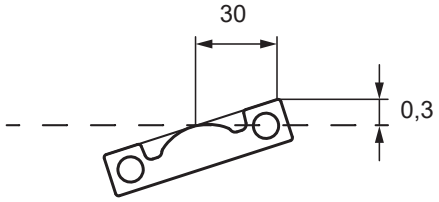
The differences in level between adjacent rails at any point should be limited to D/1000, where D is the distance between the central axes of the rails.

D	D/1000
1 m	1 mm
1,5 m	1,5 mm
2 m	2 mm
2,5 m	2,5 mm



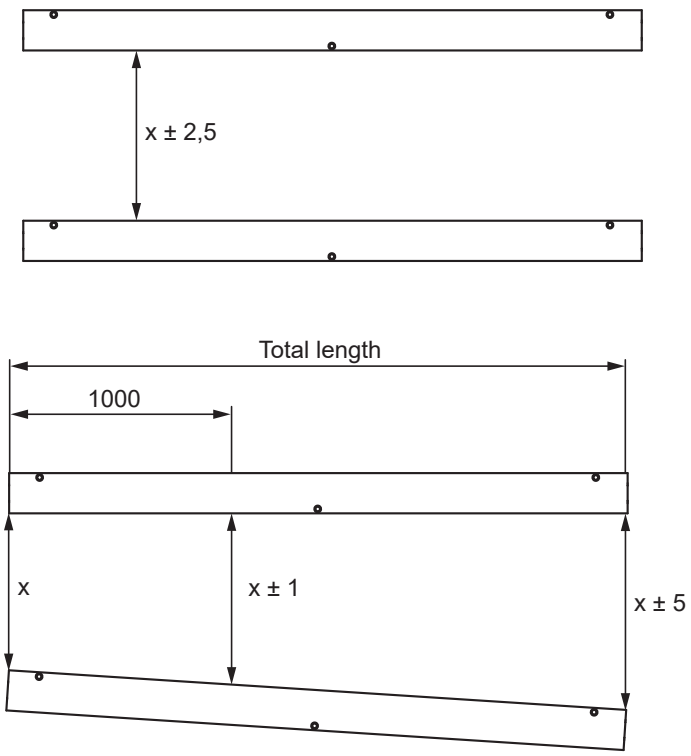
Twist of the rail

The slope of the width of the rail (caused by twisting of the rail) should not exceed 0,3mm over 30mm.



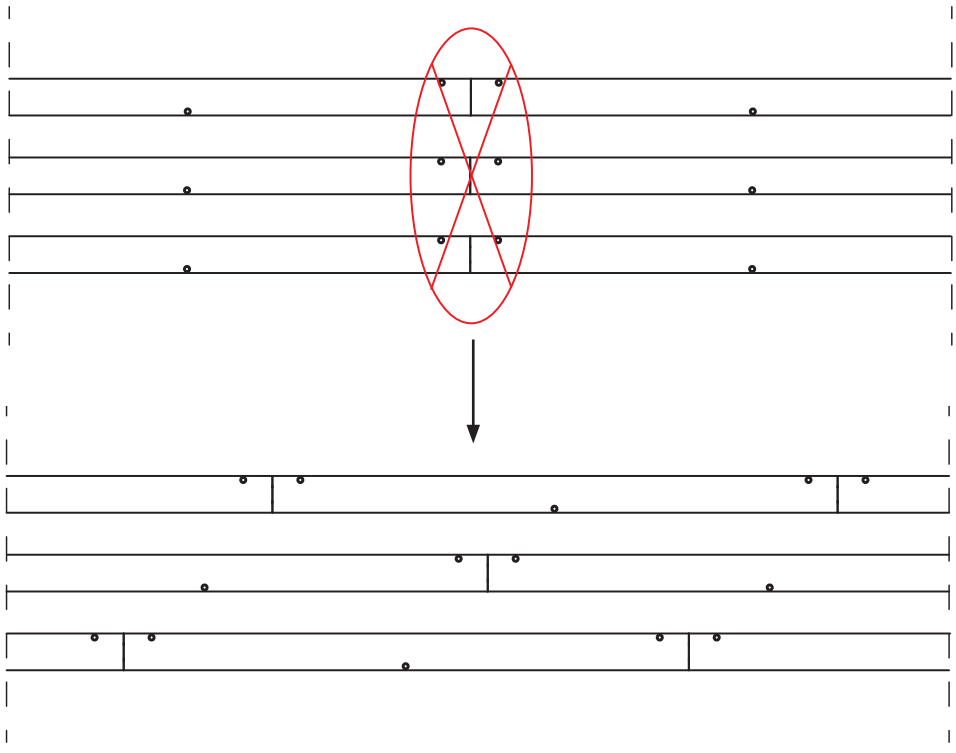
Parallelism of the rail

The differences of parallelism between two rails should not exceed 2,5mm. It should not exceed 1mm per meter and 5mm over the total length of the rails.



Staggered positioning of rail sections

Start by sorting all rail sections by length. When placing the rail sections, make sure to position all rails in staggered position; i.e., start each row with a rail section with different length. The reason behind this is that it prevents all wheels of a mobile base encountering the ends of the rails at the same time, which could lead to unstable movement of the system.



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