

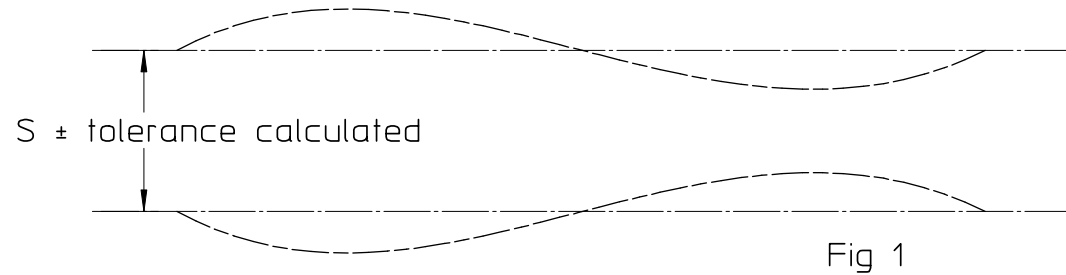
TRACK LAYOUT - DIAGRAMATIC

1 TRACK GAUGE OR SPAN

The actual value for the span may vary from the nominal value by the following amount:

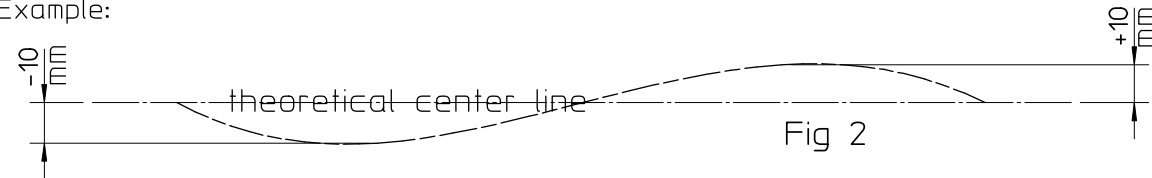
Tolerance: $T = \pm [3 + 0.25 \times (s - 15)]$ max. $T = \pm 25\text{mm}$ "T" in mm, "s" in meters

Example: For a span of 30m (100ft) the tolerance is $\pm 6.75\text{mm}$

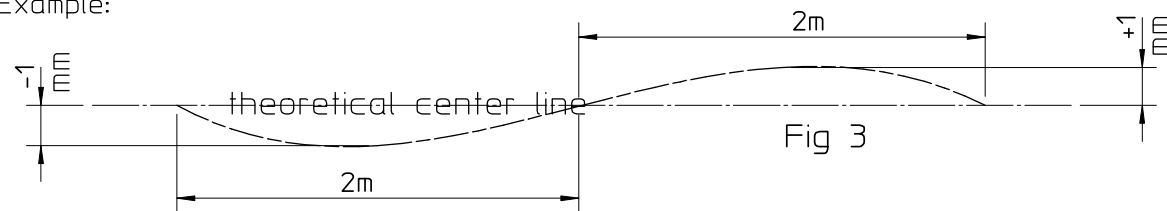


2 CRANE RAIL ALIGNMENT (HORIZONTAL)

(a) The overall alignment must not differ by more than $\pm 10\text{mm}$ from the true center line of rail
Example:

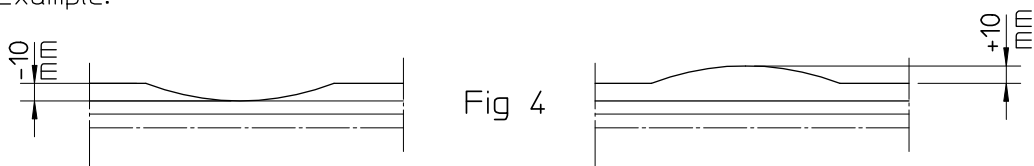


(b) The alignment must not exceed 1 mm over a distance of 2 m
Example:



3 CRANE RAIL LEVEL (VERTICAL) - ALLOWABLE UNDULATION

(a) The crane rail level must not vary more than $\pm 10\text{mm}$ over the total length of rail
Example:



(b) The crane rail level must not vary more than $\pm 2\text{mm}$ in any 2m rail length
Example:



4 RELATIVE CRANE RAIL HEIGHTS

The height difference between seaside and landside rails shall not exceed $\pm 10\text{mm}$

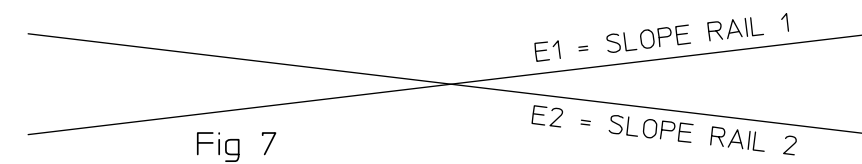
Example:



NOTE : If the crane is required to operate on a sloped pier, the crane rails can be set at different heights.

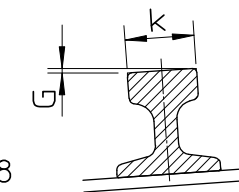
The height difference must be stated clearly when ordering.

5 RAIL SLOPE IN ALTERNATE DIRECTIONS



PERMISSIBLE
SLOPE DIFFERENCE:
 $E = E1 - E2 = 0.5 \text{ ‰}$
(i.e. 5 mm over 10 m)

6 RAIL TILTING

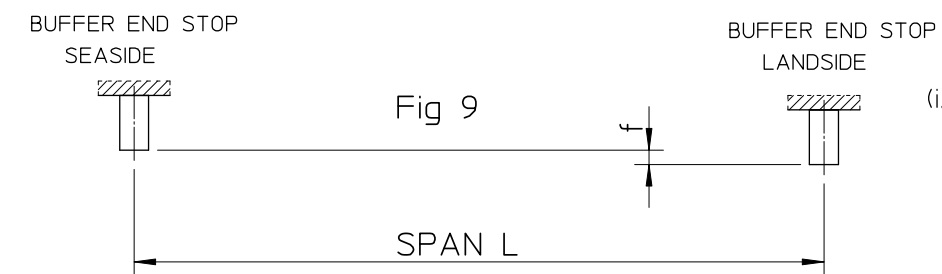


$G = 3 \text{ ‰ of } k$

(i.e. 0.3 mm over 100 mm)

7 BUFFER END STOP

The alignment of both buffer endstops along the track must not differ by more than 0.7 ‰ of the span and not more than 20 mm.



$f = 0.7 \text{ ‰ of } L$
(i.e. 7 mm over 10 m SPAN)
 $f = \text{max. } 20 \text{ mm}$

NOTE: THE TOLERANCES SPECIFIED APPLY TO NEW CRANES. IF IN THE COURSE OF USE, THESE TOLERANCES ARE EXCEEDED BY 20%, THE TRACK MUST BE REALIGNED. IF THE TRAVELLING BEHAVIOUR IS NOTICEABLY DETERIORATING, IT MAY BE NECESSARY TO REALIGN THE TRACK, EVEN IF THE TOLERANCE EXCESS HAS NOT REACHED 20%.