



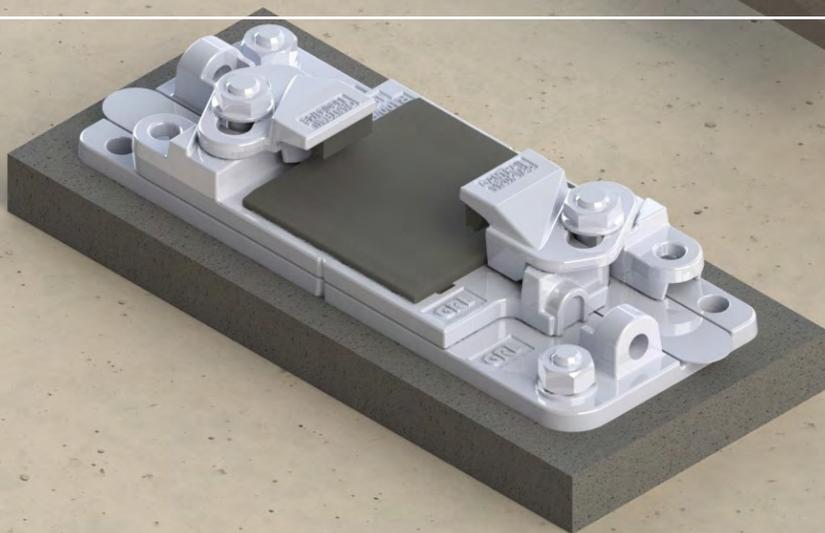
# Technical Datasheets

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## R100-R60

### Gantrail Re-levelling & Re-alignment System

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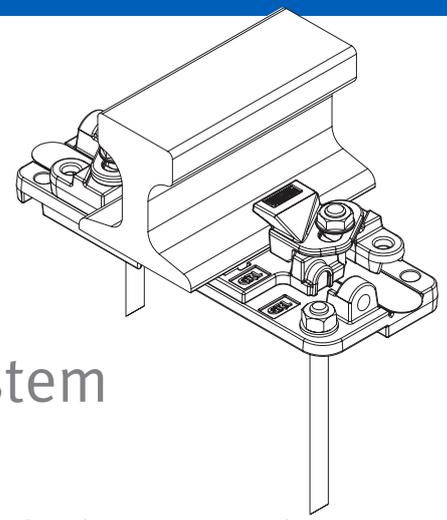
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UK Patent Application number GB1513369.7

# R100-R60

## Gantrail Re-levelling & Re-alignment System



The Gantrail fully adjustable re-levelling and re-alignment crane rail system has been designed for all situations where post-installation vertical and horizontal settlements/movements of the foundation are expected in both the short and long term.

With the ever increasing demands for space to build new or expand container port backup yards, reclaiming land has become commonplace but with this comes many challenges for the designers, not least is the issue of foundation settlement and how to deal with it.

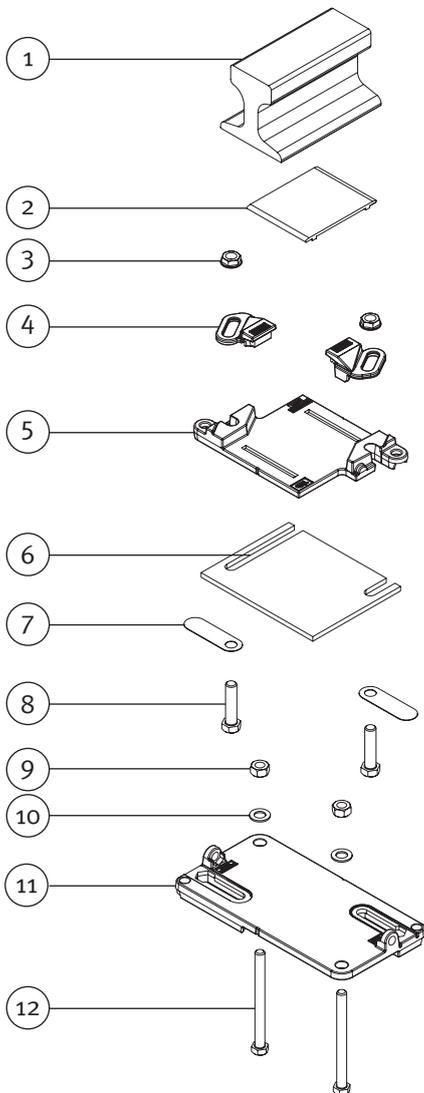
With many construction projects now taking the form of Engineering, Procurement, and Construction (EPC) or Design and Build, it is the Contractor's responsibility to develop the most cost effective solution that meets the client's performance specification.

To design a foundation that will not move is unrealistic and ultimately not cost effective. The Gantrail re-levelling and re-alignment system offers designers an economical solution that allows significant cost reductions in foundation design by allowing reasonable amounts of settlement to occur post installation.

If the crane rail system begins to move outside of operational tolerances, it can be re-levelled or re-aligned with minimal downtime.

This makes concrete beam type construction a more viable option and serious alternative to traditional concrete sleeper and ballast systems that require regular annual maintenance and associated downtime.

### COMPONENTS



1. Rail
2. Gantrail MK10 pad
3. Locking nut
4. Gantrail 1120-21 clip caps
5. Top plate
6. Packing plate(s) (When required)
7. Slot cover
8. Assembly bolt
9. Nut
10. Washer
11. Bottom plate
12. Holding down bolt

### SPECIFICATIONS:

RECOMMENDED MAX VERTICAL LOAD;  
R100-R60-165 = 350 kN  
R100-R60-220 = 500 kN  
RECOMMENDED MAX HORIZONTAL LOAD = 120kN

### ADJUSTMENT:

100mm VERTICAL RAIL ADJUSTMENT  
60mm HORIZONTAL RAIL ADJUSTMENT

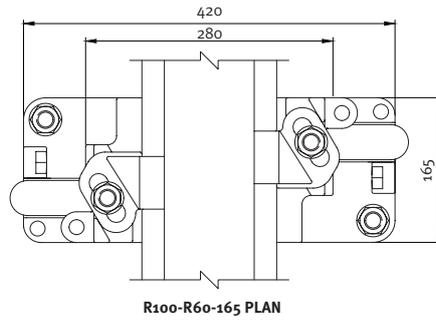
### DIMENSIONS (mm):

REF NO.	X	Y	WEIGHT (KG)
R100/R60/165	420	165	16.3
R100/R60/220	420	220	20.9

### FEATURES:

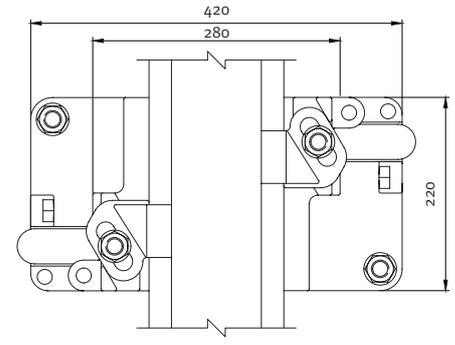
- 100mm vertical adjustment via introduction of shim plates
- 60mm horizontal adjustment via slotted holes
- Interchangeable hex head bolts to allow for variations in vertical settlements
- Integral re-levelling and re-alignment system for ease of adjustment
- Alignment markings to aid installation.

## THE R100-R60 SYSTEM COMPRISES;



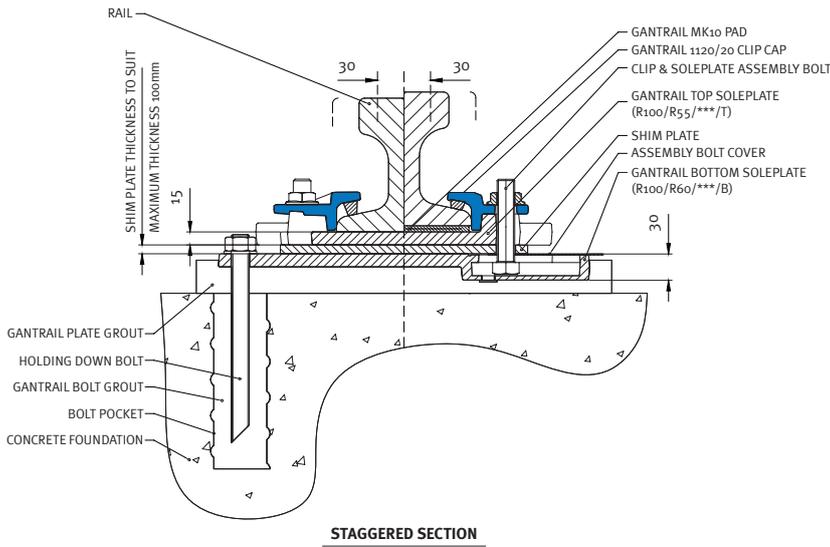
R100-R60-165 PLAN

HARD MOUNTED SYSTEM



R100-R60-165 PLAN

SOFT MOUNTED SYSTEM



STAGGERED SECTION

### APPLICATIONS:

- Container port backup yards – ASC/RMG systems
- Stacker/Reclaimer systems
- Automated Warehouses

### Design Characteristics

The Gantrail fully adjustable re-levelling and re-alignment crane rail system comprises individual rail support assemblies that are generally at even spacings along the rail. These can be anywhere from 500 to 900mm providing rail stress and deflection remain within acceptable limits.

Each individual assembly consists of two plates that are fixed together with two standard hexagon head assembly bolts. The bolts also act to fix the Gantrail rail clips which allows the use of their proven 'double wedge' design to provide additional locking of the plates when lateral loads are applied. The integral self-tightening Gantrail rail clips rigidly fix the rail from lateral movement whilst allowing longitudinal movement resulting from thermal variations. At the initial installation, the assembly bolts are provided in a suitable length to allow an initial amount of vertical adjustment whilst providing adequate clearance to crane guide wheels and bogeys. Between the top plate and underside of the rail is Gantrail MK10 that ensures an even distribution and transmission of vertical loads into the plates and ultimately the concrete foundation. The bottom plate is fixed to the concrete foundation by two holding down bolts. Once the precise final level of the rail is achieved, a layer of non-shrink epoxy grout is placed between the bottom plate and concrete foundation.

Regular surveys at specified intervals will determine whether the crane rail system is moving outside of operational tolerances. This will identify any areas of the rail that need vertical or horizontal adjustment.

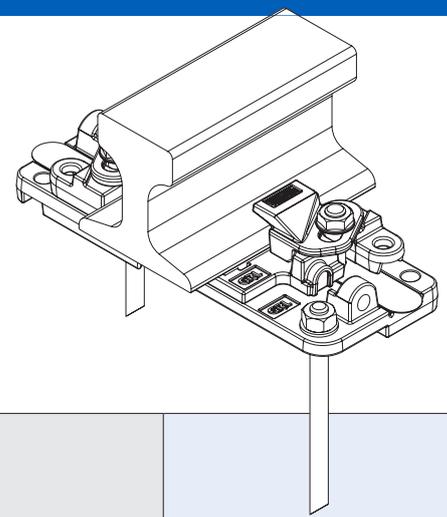
To adjust the system vertically, the nuts securing the assembly bolts are loosened or removed. Nuts are inserted into the special apertures in the top plate to create a unique levelling facility. Screws are inserted and rotated to accurately raise the level of the top plate and rail to the precise level required. Shim plates are then inserted between the top and bottom plates. If sufficient vertical adjustment cannot be achieved with the original assembly bolts these can be interchanged easily with longer bolts.

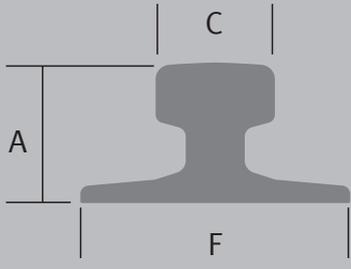
To adjust the system horizontally, this can initially be achieved with 20mm of adjustment from the Gantrail rail clips without the need to adjust the complete plate assembly. However, if this is not sufficient, the nuts securing the assembly bolts are loosened and the top plate repositioned via the 40mm slotted holes in the bottom plate. Precise repositioning is made easy by inserting nuts into the special apertures in the bottom plate to create a unique alignment facility. Screws are inserted and rotated to reposition the top plate and rail laterally to the precise alignment required.

Once all adjustments have been made, all nuts are re-tightened to the specified torque.

# R100-R60

## Gantrail Re-levelling & Re-alignment System



	<b>F MM</b>	<b>C MM</b>	<b>A MM</b>	<b>1. CLIP REFERENCE FOR RAIL WITH PAD</b>	<b>2. CLIP REFERENCE FOR RAIL WITHOUT PAD*</b>
MRS 85	152.4	102.9	152.4	1120/21/45	1120/21/38
AS 86	150	101.6	152.46	1120/21/45	1120/21/38
MRS 87 A	152.4	101.4	152.4	1120/21/45	1120/21/38
MRS 87 B	152.4	102.2	152.4	1120/21/38	1120/21/38
QU 100	150	100	150	1120/21/38	1120/21/38
ISCR 100	150	100	150	1120/21/38	1120/21/38
UIC 60	150	72	172	1120/21/38	1120/21/38
SP 100	150	108	150	1120/21/38	1120/21/38
171 CR	152.4	102.9	152.4	1120/21/45	1120/21/38
175 CR	152.4	102.2	152.4	1120/21/38	1120/21/38
131 AREA	152.4	74.2	180	1120/21/38	1120/21/38
132 AREA	152.4	74.6	181	1120/21/38	1120/21/38
66 kg	152.4	75.1	181	1120/21/38	1120/21/38
68 kg	152.4	73.4	185.7	1120/21/38	1120/21/38
KP 100	150	100	150	1120/21/38	1120/21/38

This system is designed for rails with an approximate foot width (F) of 150mm, but can be used for a wider selection of rails than illustrated. This may result in a loss of adjustment from the clips. Please contact GANTRAIL to discuss other possible rails. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

HOLD DOWN BOLT TIGHTENING TORQUE to suit project requirements (typically 120Nm)  
 ASSEMBLY BOLT TIGHTENING TORQUE 475Nm (impact wrenches can be used)  
 Please contact GANTRAIL, for full installation instructions.

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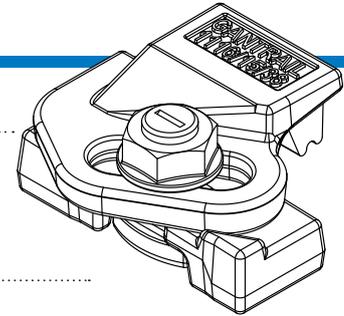


Certificate No. 5180

# 1116/15

## Gantrail Welded Base Fixing

www.gantrail.com



1116/15

The GANTRAIL 1116/15 adjustable crane rail clip is designed to fix heavy rails, on narrow supports, in the most arduous applications. It can withstand a horizontal force from the rail of 120kN (12.2 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

MAX SIDE LOAD 120kN  
15mm HORIZONTAL RAIL ADJUSTMENT

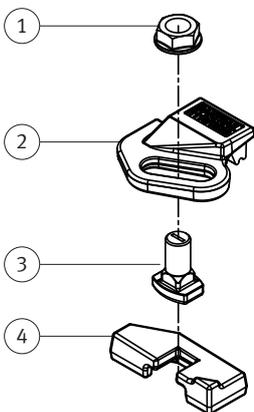
### DIMENSIONS (mm):

REF NO.	X	Y	Z	WEIGHT kg
1116/15/30	30	45	29	0.78
1116/15/38	38	45	29	0.81
1116/15/45	45	45	29	0.84

### FEATURES

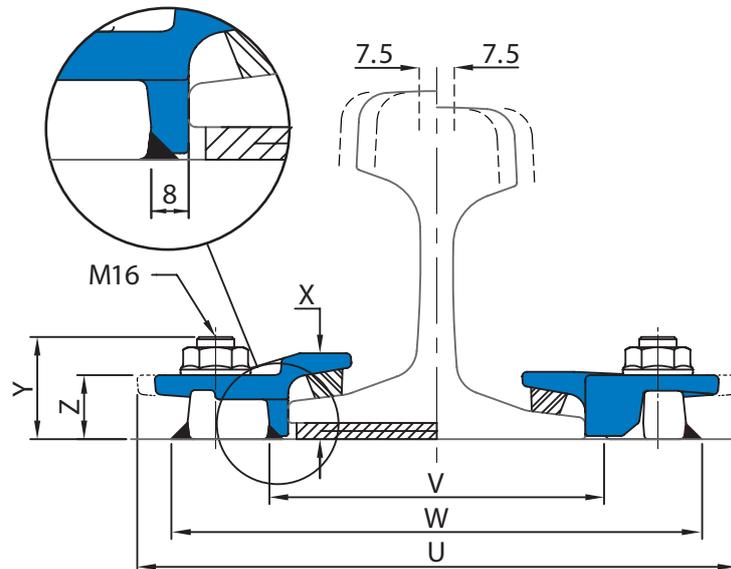
- The proven design has been used successfully for many years throughout the world.
- The clip is welded to the rail support. No access is required from below.
- The two main parts are locked together on tightening the grade 10.9 bolt.
- The clip has a self-tightening mechanism.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

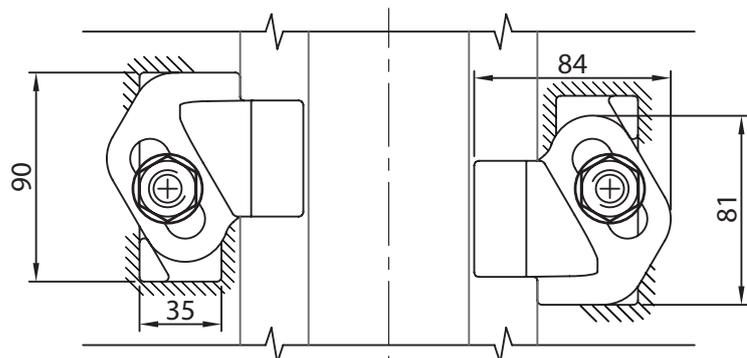


1. Flange nut
2. Clip cap with integral rubber block
3. M16 Captive bolt
4. Weldable base

### 1 RAIL WITH PAD



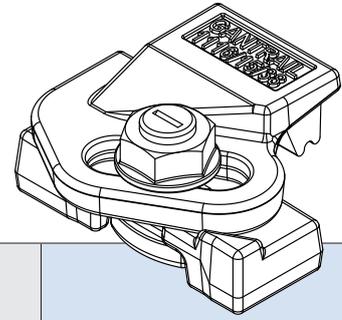
### 2 RAIL WITHOUT PAD

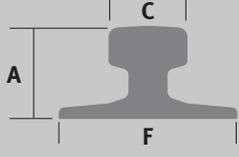


Minimum assembly width -  $W = \text{Rail width (F)} + 100\text{mm}$      $V = \text{Rail width (F)} + 16\text{mm}$   
 $U = \text{Rail width (F)} + 129\text{mm}$

# 1116/15

## Gantrail Welded Base Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD*
A45	125	45	55	1116/15/38	1116/15/30
A55	150	55	65	1116/15/38	1116/15/30
A65	175	65	75	1116/15/38	1116/15/30
A75	200	75	85	1116/15/38	1116/15/30
A100	200	100	95	1116/15/38	1116/15/30
MRS 87 A	152	102	152	1116/15/45	1116/15/38
S20	82	44	100	1116/15/38	1116/15/30
S30	108	60	108	1116/15/38	1116/15/30
S33	105	58	134	1116/15/38	1116/15/30
S41	125	67	138	1116/15/38	1116/15/30
S49	125	67	149	1116/15/38	1116/15/30
GCR 108	263	61+61	100	1116/15/38	1116/15/30
QU 70	120	70	120	1116/15/38	1116/15/30
QU 80	130	80	130	1116/15/38	1116/15/30
UIC 54	140	70	159	1116/15/38	1116/15/30
UIC 60	150	72	172	1116/15/38	1116/15/30
JIS 37	122	63	122	1116/15/38	1116/15/30
ASCE 80	127	64	127	1116/15/38	1116/15/30
ACSE 85	132	65	132	1116/15/38	1116/15/30
56 E 1	140	70	159	1116/15/38	1116/15/30
31 kg AS	108	64	118	1116/15/38	1116/15/30
41 kg AS	127	64	137	1116/15/38	1116/15/30
50 kg AS	127	70	154	1116/15/38	1116/15/30

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

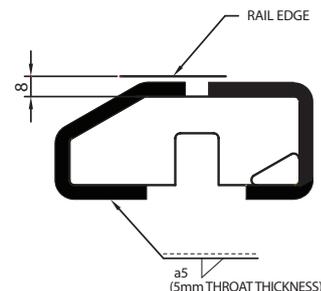
Weld all round the clip base with a 5mm throat thickness fillet weld, using low hydrogen electrodes. Recommended electrodes AWS E7018 or E7028. Clip base is made from weldable grade steel.

\* For rail without pad, weld closest to and parallel with the rail must be omitted. Please consult Gantrail for guidance.

**TIGHTENING TORQUE 200Nm**

Please contact GANTRAIL, for full installation instructions.

### WELD DETAIL



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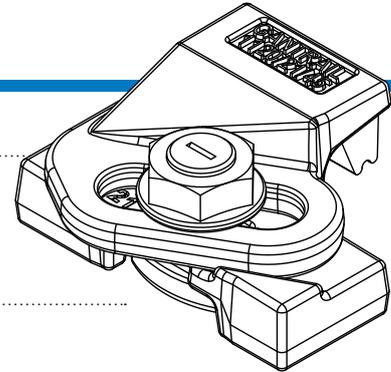


Certificate No. 5180

# 1120/21

## Gantrail Welded Base Fixing

www.gantrail.com



1120/21

The GANTRAIL 1120/21 adjustable crane rail clip is designed to fix heavy rails, on narrow supports, in the most arduous applications. It can withstand a horizontal force from the rail of 165kN (16.8 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

**MAX SIDE LOAD 165kN**  
**21mm HORIZONTAL RAIL ADJUSTMENT**

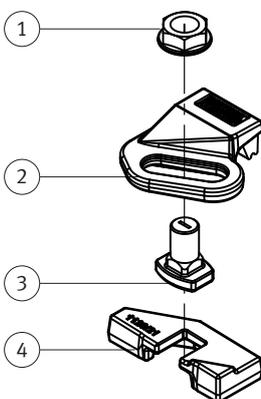
### DIMENSIONS (mm):

REF NO.	X	Y	Z	WEIGHT kg
1120/21/38	38	47	31	1.30
1120/21/45	45	47	31	1.37

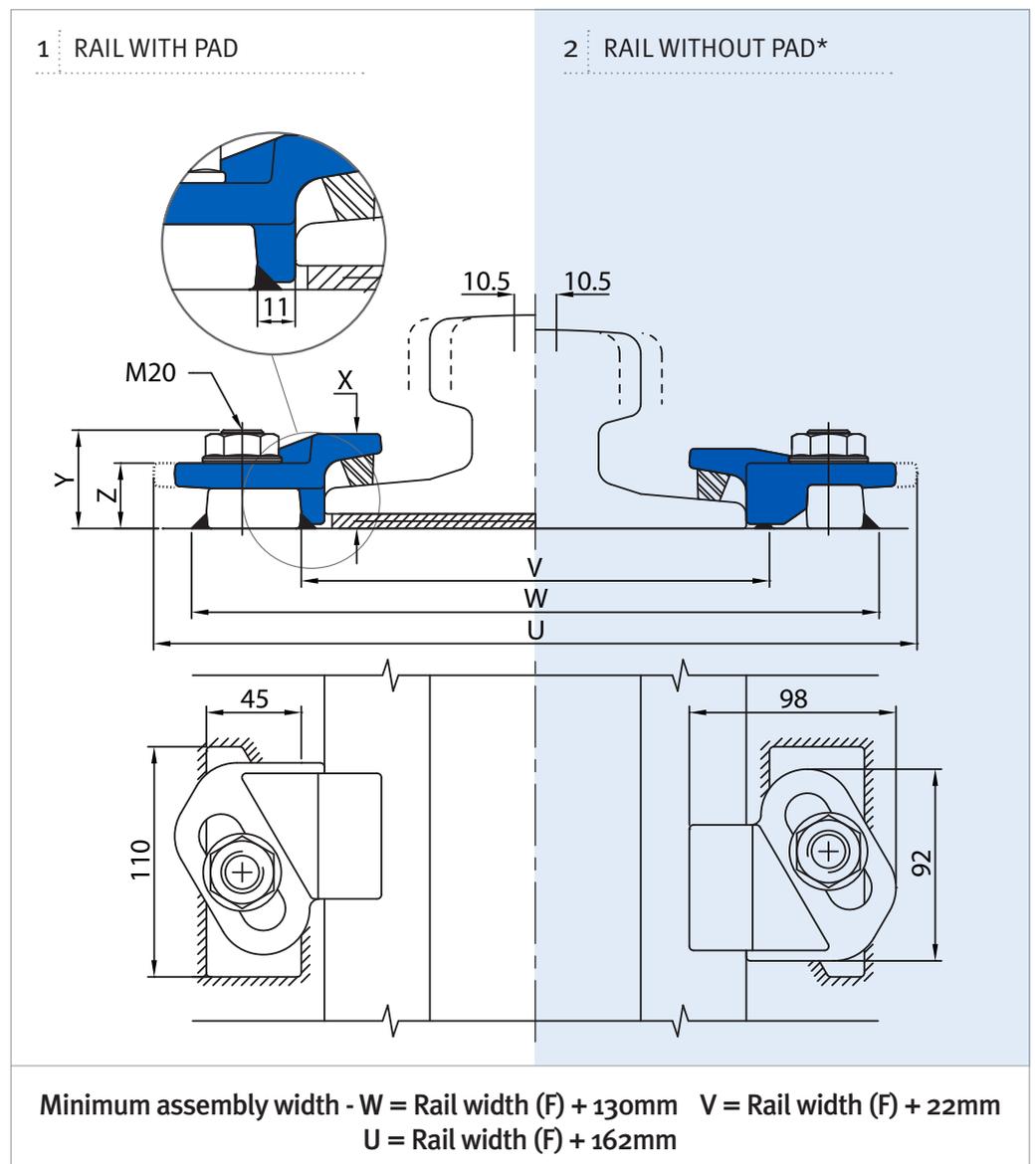
### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is welded to the rail support. No access is required from below.
- The two main parts are locked together on tightening the grade 10.9 bolt.
- The clip has a self-tightening mechanism.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

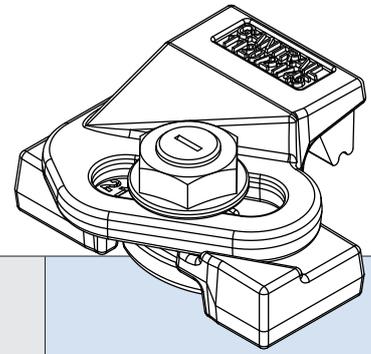


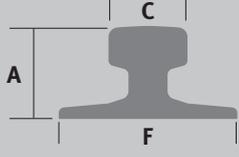
1. Flange nut
2. Clip cap with integral rubber block
3. M20 Captive bolt
4. Weldable base



# 1120/21

## Gantrail Welded Base Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD*
A 75	200	75	85	1120/21/38	1120/21/38
A 100	200	100	95	1120/21/45	1120/21/38
A 120	220	120	105	1120/21/45	1120/21/38
A 150	220	150	150	1120/21/45	1120/21/38
S 49	125	67	149	1120/21/38	1120/21/38
89 kg CR	178	102	114	1120/21/45	1120/21/38
MRS 67 (135 CR)	132	79	146	1120/21/45	1120/21/38
MRS 85 (171 CR)	152	103	152	1120/21/45	1120/21/38
MRS 86	165	102	102	1120/21/45	1120/21/38
MRS 87 A (PRI85R)	152	102	152	1120/21/45	1120/21/38
MRS 87 B (175 CR)	152	102	152	1120/21/45	1120/21/38
GCR 108	263	61 + 61	100	1120/21/38	1120/21/38
GCR 183	280	75	120	1120/21/45	1120/21/38
ISCR 100	150	102	150	1120/21/45	1120/21/38
ISCR 120	170	120	170	1120/21/45	1120/21/38
QU 100	150	100	150	1120/21/45	1120/21/38
QU 120	170	120	170	1120/21/45	1120/21/38
JIS 50	127	63	145	1120/21/45	1120/21/38
JIS 60	145	64	174	1120/21/45	1120/21/38
CR 73	140	100	135	1120/21/45	1120/21/38
CR 100	155	120	150	1120/21/45	1120/21/38
68 kg AS	152	73	186	1120/21/45	1120/21/38
86 kg AS	165	102	102	1120/21/45	1120/21/38
UIC 54 E	125	66	161	1120/21/45	1120/21/38

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

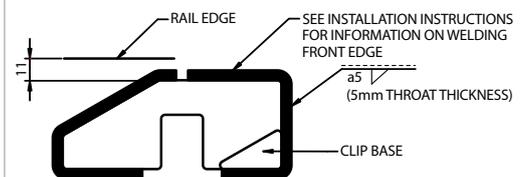
Weld all round the clip base with a 5mm throat thickness fillet weld, using low hydrogen electrodes. Recommended electrodes AWS E7018 or E7028. Clip base is made from weldable grade steel.

\* For rail without pad, weld closest to and parallel with the rail must be omitted. Please consult Gantrail for guidance.

TIGHTENING TORQUE 350Nm

Please contact GANTRAIL, for full installation instructions.

### WELD DETAIL



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# 1216/15

## Gantrail Welded Base Fixing

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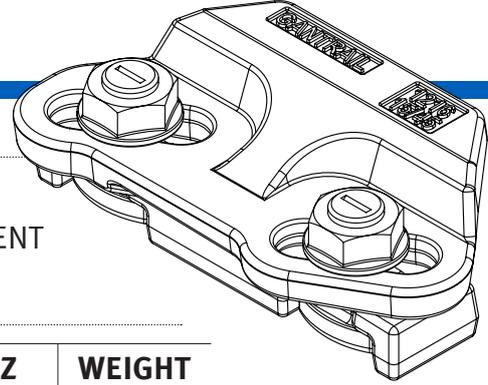
The GANTRAIL 1216/15 adjustable crane rail clip is designed to fix heavy rails, on narrow girders, in the most arduous applications. It can withstand a horizontal force from the rail of 165kN (16.8 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

MAX SIDE LOAD 165kN  
15mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

REF NO.	X	Y	Z	WEIGHT KG
1216/15/38	38	45	29	1.64
1216/15/45	45	45	29	1.67

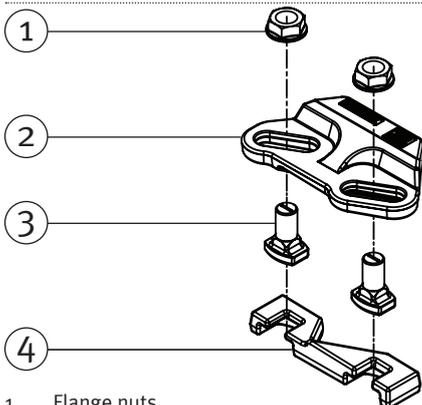


1216/15

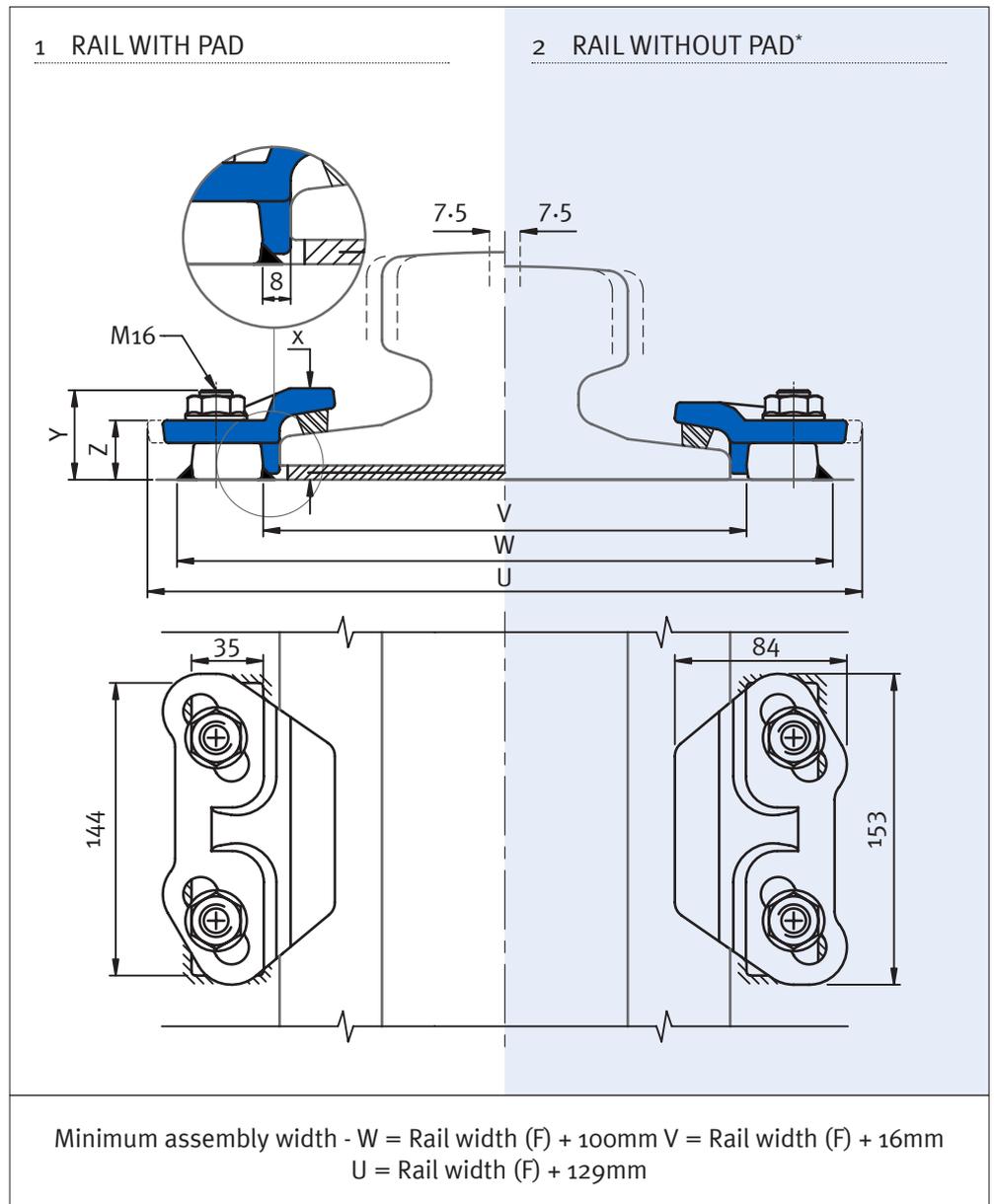
### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is welded to the rail support. No access is required from below.
- The two main parts are locked together on tightening the grade 10.9 bolts.
- The clip has a self-tightening mechanism.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

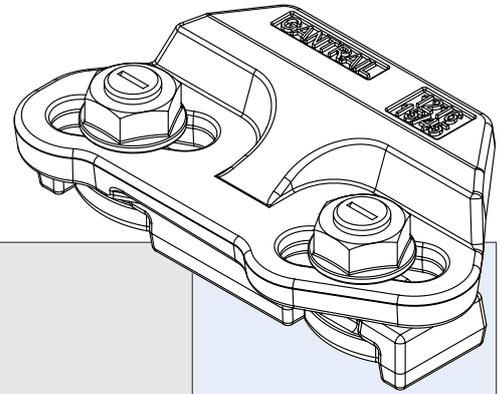


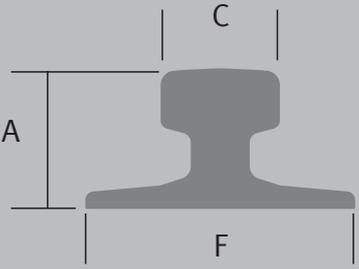
1. Flange nuts
2. Clip cap with integral rubber block
3. M16 Captive bolts
4. Weldable base



# 1216/15

## Gantrail Welded Base Fixing



	F MM	C MM	A MM	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD*
A 75	200	75	85	1216/15/45	1216/15/38
A 100	200	100	95	1216/15/45	1216/15/38
A 120	220	120	105	1216/15/45	1216/15/38
S 49	125	67	149	1216/15/45	1216/15/38
S 54	125	67	154	1216/15/45	1216/15/38
56 E 1	140	70	159	1216/15/45	1216/15/38
89 KG CR	178	102	114	1216/15/45	1216/15/38
MRS 67 (135 CR)	132	79	146	1216/15/45	1216/15/38
MRS 86	165	102	102	1216/15/45	1216/15/38
MRS 87 A (PRI85R)	152	102	152	1216/15/45	1216/15/38
MRS 221	220	220	160	-	1216/15/45
GCR 183	280	75	120	1216/15/45	1216/15/38
ISCR 80	130	82	130	1216/15/45	1216/15/38
ISCR 100	150	102	150	1216/15/45	1216/15/38
ISCR 120	170	120	170	1216/15/45	1216/15/38
QU 80	130	80	130	1216/15/45	1216/15/38
QU 100	150	100	150	1216/15/45	1216/15/38
QU 120	170	120	170	1216/15/45	1216/15/38
JIS 50N	127	64	153	1216/15/45	1216/15/38
JIS 60	145	64	174	1216/15/45	1216/15/38
CR 73	140	100	135	1216/15/45	1216/15/38
CR 100	155	120	150	1216/15/45	1216/15/45

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact **GANTRAIL** for the full range of possible rails. All rails can be fastened with bolted or welded base clips.

**GANTRAIL** may change or improve their products and also alter specifications without notice.

**INSTALLATION INSTRUCTIONS:**

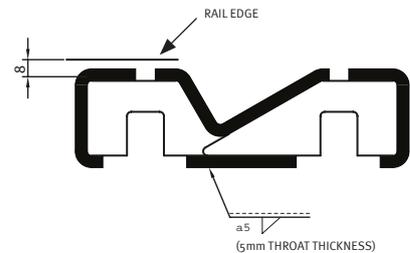
Weld all round the clip base with a 5mm throat thickness fillet weld, using low hydrogen electrodes. Recommended electrodes AWS E7018 or E7028. Clip base is made from weldable grade steel.

\* For rail without pad, weld closest to and parallel with the rail must be omitted. Please consult Gantrail for guidance.

TIGHTENING TORQUE 200Nm

Please contact **GANTRAIL**, for full installation instructions.

**WELD DETAIL**



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Certificate No. 5180

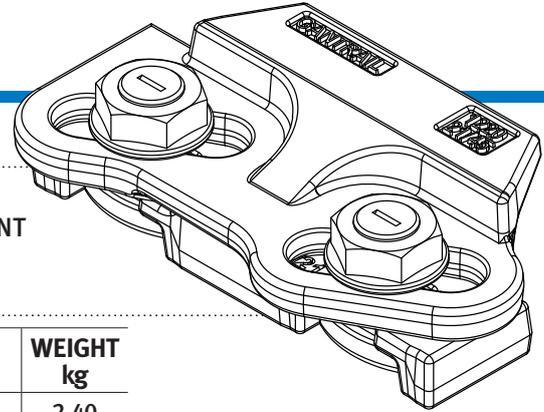
# 1220/21

## Gantrail Welded Base Fixing

www.gantrail.com



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1220/21

The GANTRAIL 1220/21 adjustable crane rail clip is designed to fix the largest rails in the most arduous applications. It can withstand a horizontal force from the rail of 300kN (30.6 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

MAX SIDE LOAD 300kN  
21mm HORIZONTAL RAIL ADJUSTMENT

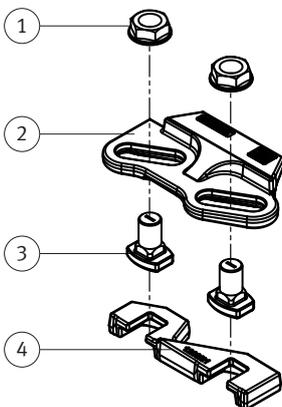
### DIMENSIONS (mm):

REF NO.	X	Y	Z	WEIGHT kg
1220/21/38	38	47	31	2.40
1220/21/45	45	47	31	2.47

### FEATURES

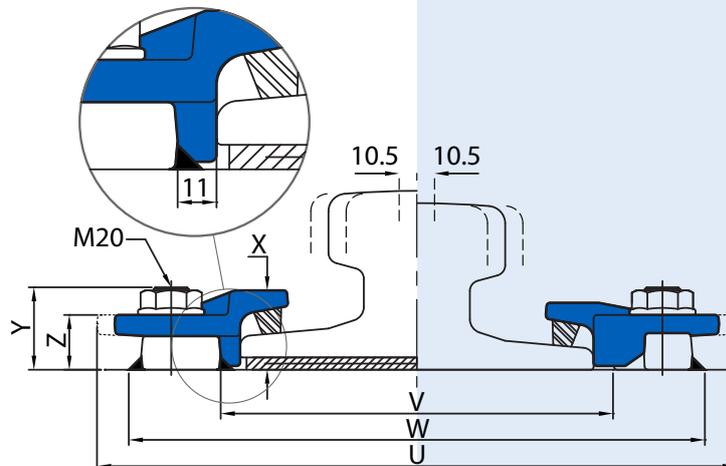
- The proven design has been used successfully for many years throughout the world.
- The clip is welded to the rail support. No access is required from below.
- The two main parts are locked together on tightening the grade 10.9 bolts.
- The clip has a self-tightening mechanism.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

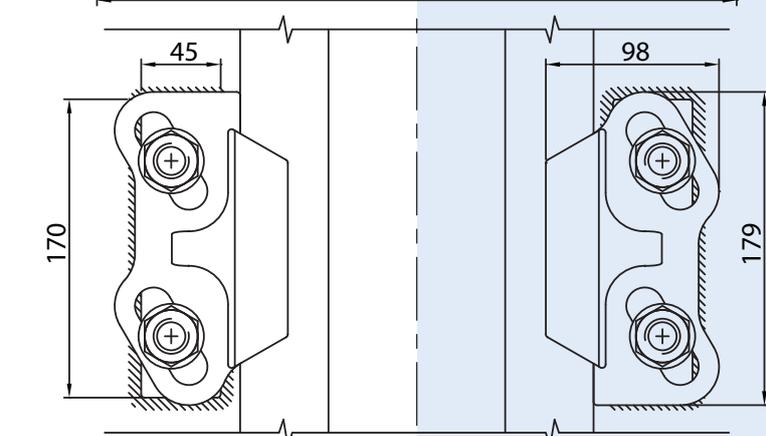


1. Flange nuts
2. Clip cap with integral rubber block
3. M20 Captive bolts
4. Weldable base

### 1 RAIL WITH PAD



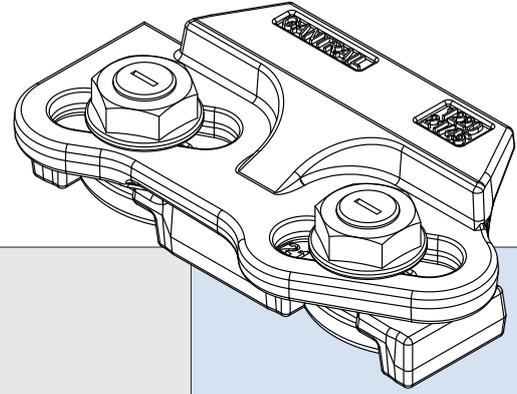
### 2 RAIL WITHOUT PAD\*

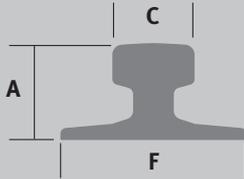


Minimum assembly width -  $W = \text{Rail width (F)} + 130\text{mm}$      $V = \text{Rail width (F)} + 22\text{mm}$   
 $U = \text{Rail width (F)} + 162\text{mm}$

# 1220/21

## Gantrail Welded Base Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD*
A 100	200	100	95	1220/21/45	1220/21/38
A 120	220	120	105	1220/21/45	1220/21/38
A 150	220	150	150	1220/21/45	1220/21/38
89 kg CR	178	102	114	1220/21/45	1220/21/38
MRS 86	165	102	102	1220/21/45	1220/21/38
MRS 87 A (PRI85R)	152	102	152	1220/21/45	1220/21/38
MRS 125	180	120	180	-	1220/21/45
MRS 221	220	220	160	-	1220/21/45
ISCR 100	150	102	150	1220/21/45	1220/21/38
ISCR 120	170	120	170	1220/21/45	1220/21/38
ISCR 140	170	140	170	-	1220/21/45
QU 100	150	100	150	1220/21/45	1220/21/38
QU 120	170	120	170	1220/21/45	1220/21/38
ISCOR 57	140	70	165	1220/21/45	1220/21/38
CR 73	140	100	135	1220/21/45	1220/21/38
CR 100	155	120	150	1220/21/45	1220/21/38
73 kg AS	146	70	157	1220/21/45	1220/21/38
86 kg AS	165	102	102	1220/21/45	1220/21/38

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

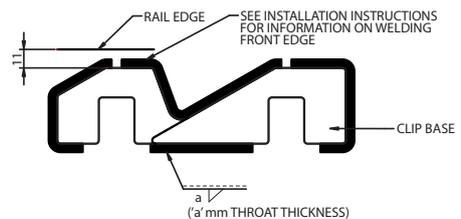
Fillet weld all round the clip base using low hydrogen electrodes. Refer to table for sizes. Recommended electrodes AWS E7018 or E7028. Clip base is made from weldable grade steel.

\* For rail without pad, weld closest to and parallel with the rail must be omitted. Please consult Gantrail for guidance.

TIGHTENING TORQUE 350Nm

Please contact GANTRAIL, for full installation instructions.

### WELD DETAIL



'a' mm	MAX SIDE LOAD kN
5	235
6	300

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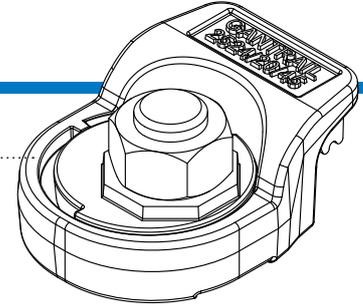


Certificate No. 5180

# 2524/20

## Gantrail Bolted Fixing

www.gantrail.com



The GANTRAIL 2524/20 adjustable crane rail clip is designed to fix heavy rails in the most arduous applications. It can withstand a horizontal force from the rail of 125kN (12.7 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

BOLT GRADE	8.8	10.9
MAX SIDE LOAD (kN)	125	140
BOLT TORQUE (Nm)	600	750

20mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

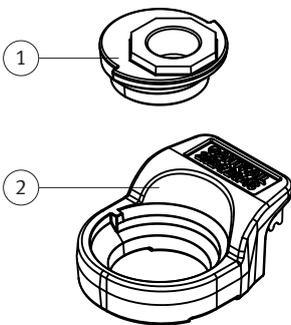
REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT kg
2524/20/45	45	55	50	32	1.1

\*weight without nut, bolt and washer.

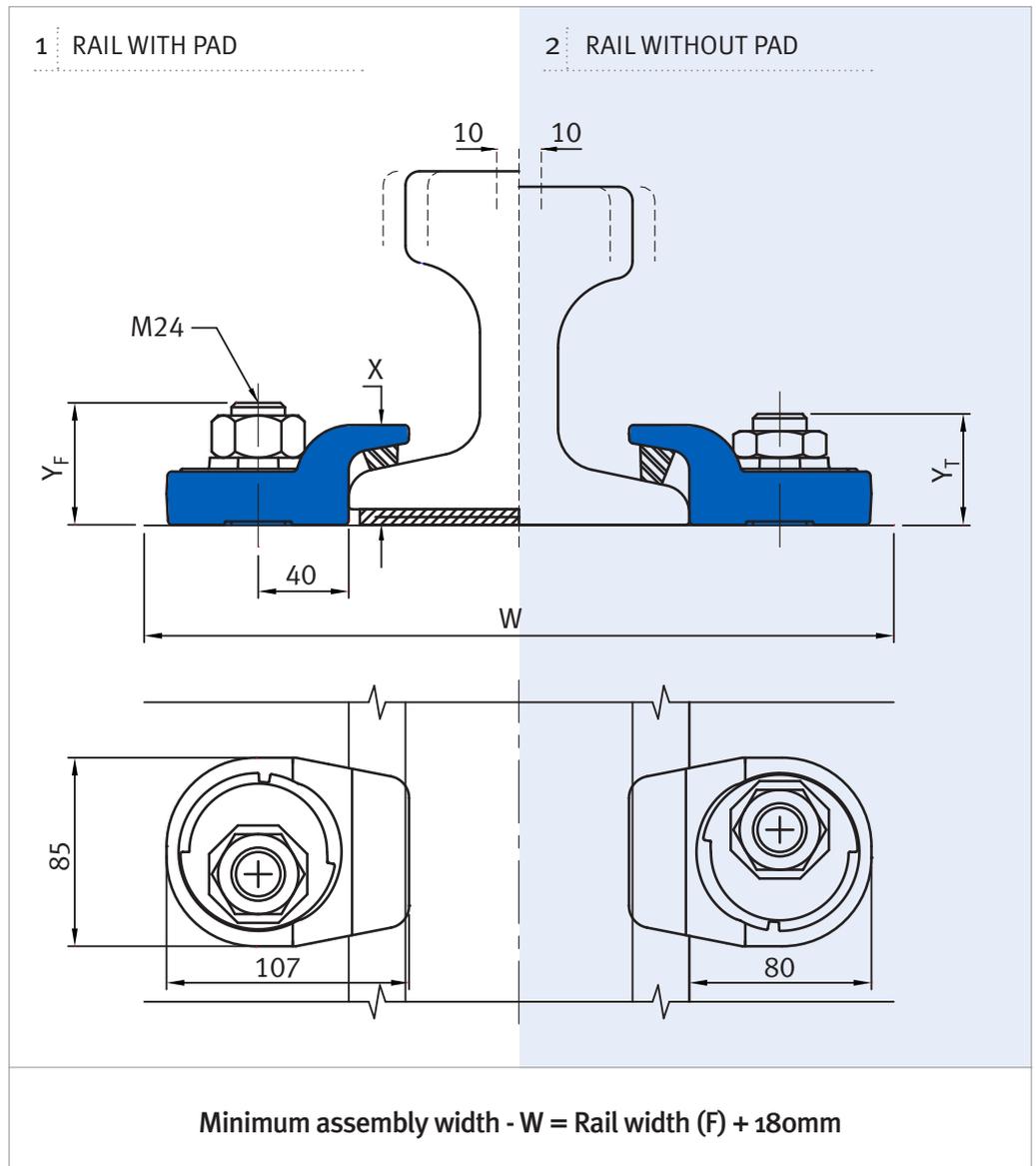
### FEATURES

- The clip has a unique self-tightening mechanism (patent pending)
- The unique design ensures that incorrect installation is avoided
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS



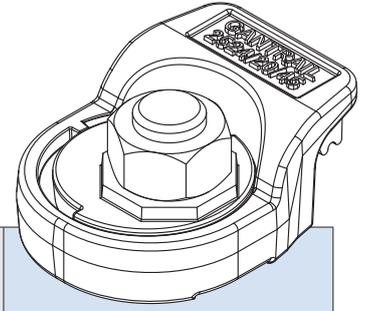
1. Clip cam
2. Clip body with integral rubber block

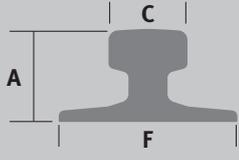


2524/20

# 2524/20

## Gantrail Bolted Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR PAD MOUNTED RAIL	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
68 kg	152	75	186	2524/20/45	2524/20/45
73 kg	146	70	157	2524/20/45	2524/20/45
86 kg	165	102	102	2524/20/45	2524/20/45
A120	220	120	105	2524/20/45	2524/20/45
A150	220	150	150	2524/20/45	2524/20/45
MRS 73	146	70	157	2524/20/45	2524/20/45
MRS 86	165	102	102	2524/20/45	2524/20/45
MRS 87A	152	102	152	2524/20/45	2524/20/45
CR 73	140	100	135	2524/20/45	2524/20/45
CR 100	140	100	135	2524/20/45	2524/20/45
QU 120	150	100	150	2524/20/45	2524/20/45
ISCR 120	170	120	170	2524/20/45	2524/20/45
SP 120	170	120	170	2524/20/45	2524/20/45
171 CR	152	103	152	2524/20/45	2524/20/45
175 CR	152	102	152	2524/20/45	2524/20/45

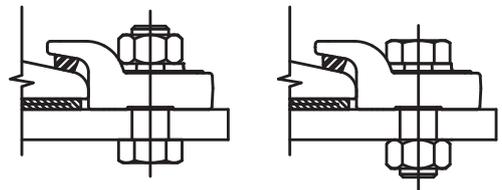
**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**  
Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

**TIGHTENING TORQUE**  
Grade 8.8 bolt 600Nm  
Grade 10.9 bolt 750Nm  
Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



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Certificate No. 5180

# 2530/14

## Gantrail Bolted Fixing

www.gantrail.com

UK Patent Application Number GB1612711.0



The GANTRAIL 2530/14 adjustable crane rail clip is designed to fix heavy rails in the most arduous applications. It can withstand a horizontal force from the rail of 200kN (20.4 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

BOLT GRADE	8.8
MAX SIDE LOAD (kN)	200
BOLT TORQUE (Nm)	900-1000

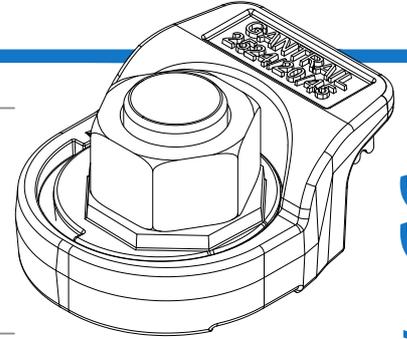
14mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

REF NO.	X	Y	Z	WEIGHT kg
2530/14/45	45	66	32	1.1

\*weight without nut, bolt and washer.

2530/14/45 clip comprises 2524/20/45 clip body and 2530 Cam

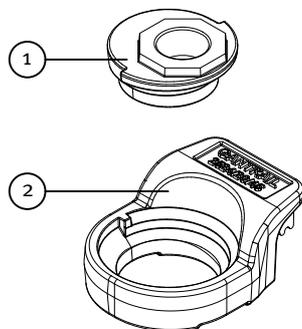


2530/14

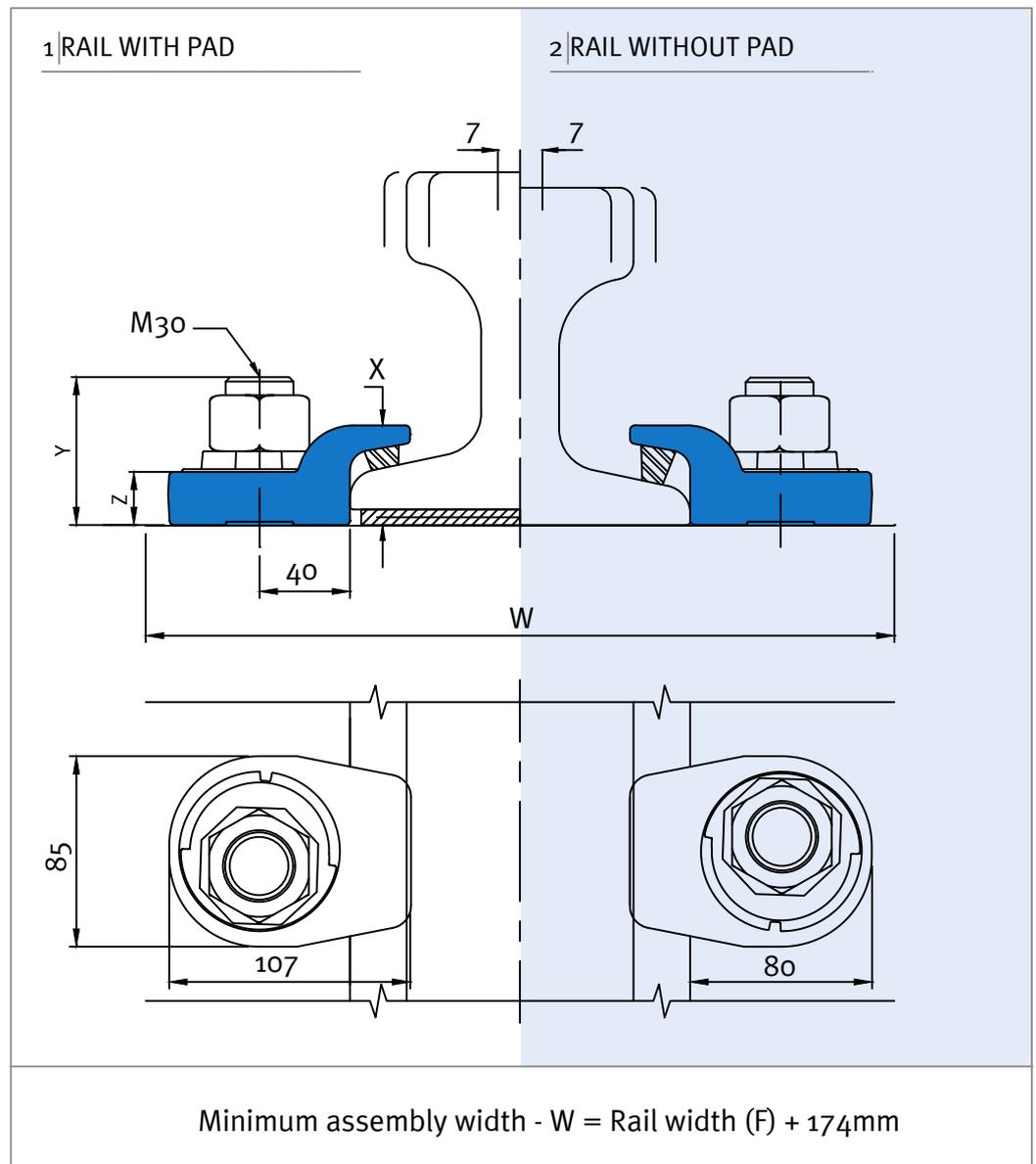
### FEATURES

- The clip has a unique self-tightening mechanism (patent pending)
- The unique design ensures that incorrect installation is avoided
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

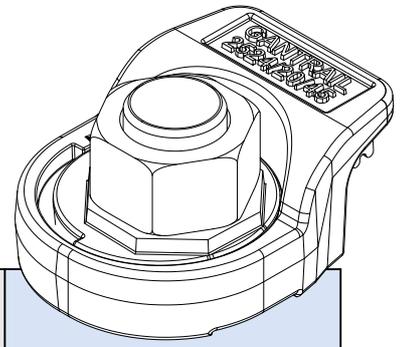


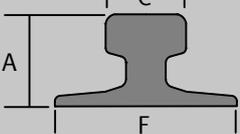
1. Clip cam
2. Clip body with integral rubber block



# 2530/14

## Gantrail Bolted Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR PAD MOUNTED RAIL	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
68 kg	152	75	186	2530/14/45	2530/14/45
73 kg	146	70	157	2530/14/45	2530/14/45
86 kg	165	102	102	2530/14/45	2530/14/45
88 kg	152.4	74.6	185.7	2530/14/45	2530/14/45
A120	220	120	105	2530/14/45	2530/14/45
A150	220	150	150	2530/14/45	2530/14/45
MRS 73	146	70	157	2530/14/45	2530/14/45
MRS 86	165	102	102	2530/14/45	2530/14/45
MRS 87A	152	102	152	2530/14/45	2530/14/45
CR 73	140	100	135	2530/14/45	2530/14/45
CR 100	140	100	135	2530/14/45	2530/14/45
QU 120	150	100	150	2530/14/45	2530/14/45
ISCR 120	170	120	170	2530/14/45	2530/14/45
SP 120	170	120	170	2530/14/45	2530/14/45
171 CR	152	103	152	2530/14/45	2530/14/45
175 CR	152	102	152	2530/14/45	2530/14/45

THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED. Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

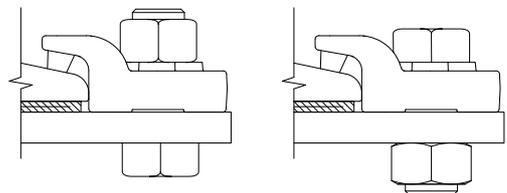
### INSTALLATION INSTRUCTIONS:

The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

**TIGHTENING TORQUE**  
Grade 8.8 bolt 900 - 1000Nm

Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



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Certificate No. 5180

# 3112/10

## Gantrail Bolted Fixing

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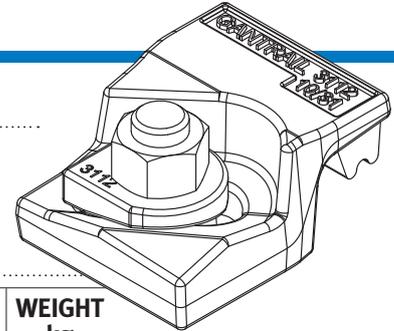
The GANTRAIL 3112/10 adjustable crane rail clip is designed to fix light rails in the most arduous applications. It can withstand a horizontal force from the rail of 21kN (2.1 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

MAX SIDE LOAD using Grade 8.8 bolt 21kN  
10mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT kg
3112/10/24	24	35	30	20	0.27
3112/10/31	31	35	30	20	0.29

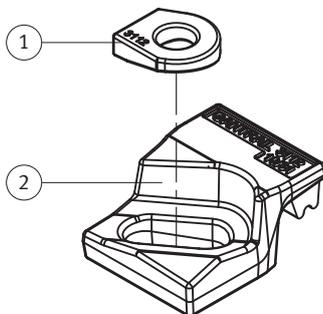


3112/10

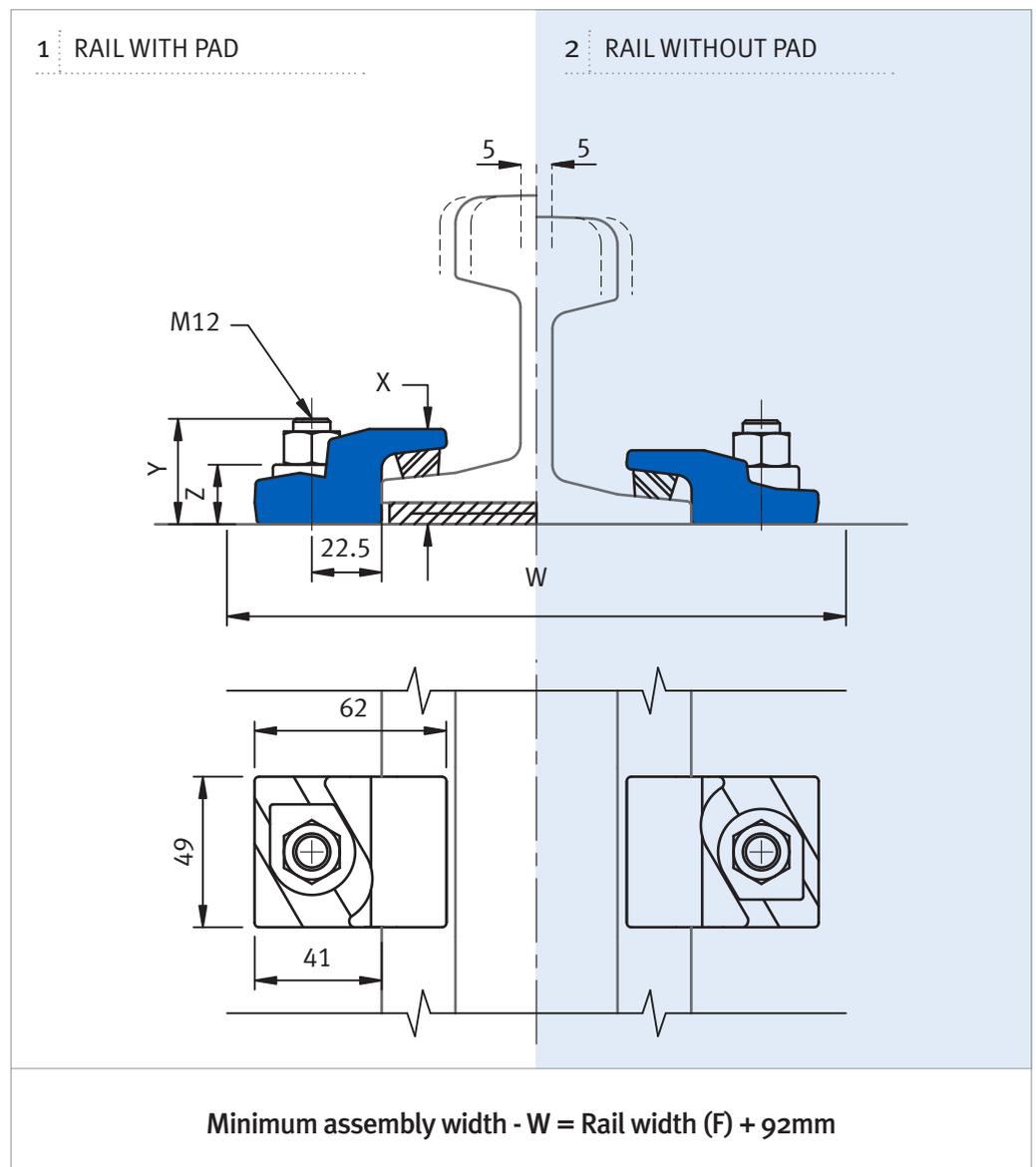
### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

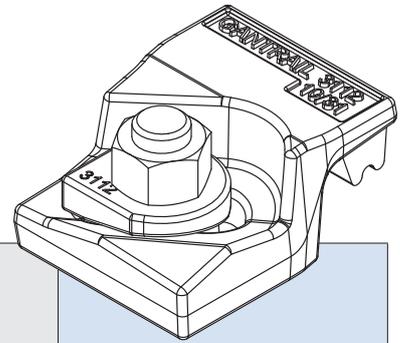


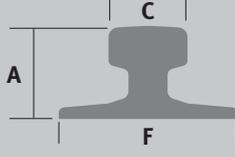
1. Special washer
2. Clip with integral rubber block



# 3112/10

## Gantrail Bolted Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR PAD MOUNTED RAIL	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
A 45	125	45	55	3112/10/31	3112/10/24
S 7	50	25	65	3112/10/31	3112/10/24
S 10	58	32	70	3112/10/31	3112/10/24
S 14	70	38	80	3112/10/31	3112/10/24
S 18	82	43	92	3112/10/31	3112/10/24
S 20	82	44	100	3112/10/31	3112/10/24
S 24	90	53	115	3112/10/31	3112/10/24
ASCE 30	79	43	79	3112/10/31	3112/10/24
ASCE 40	89	48	89	3112/10/31	3112/10/24
ISCOR 22	95	50	95	3112/10/31	3112/10/24
9 kg	64	32	64	3112/10/31	3112/10/24
12 kg	70	43	70	3112/10/31	3112/10/24
15 kg	80	43	80	3112/10/31	3112/10/24
22 kg	94	51	94	3112/10/31	3112/10/24
JIS 12	70	38	70	3112/10/31	3112/10/24
JIS 15	79	43	79	3112/10/31	3112/10/24
JIS 22	94	51	94	3112/10/31	3112/10/24
15 kg BHP	79	43	79	3112/10/31	3112/10/24
22 kg BHP	94	51	94	3112/10/31	3112/10/24

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips.

GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

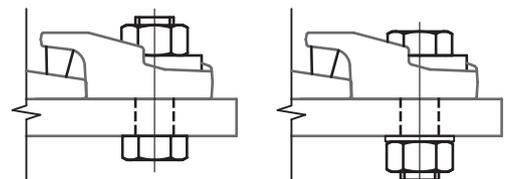
The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

If it is desired to fix the clip with a welded stud, this may be possible. Please consult GANTRAIL for guidance.

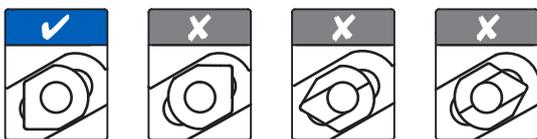
**TIGHTENING TORQUE**  
Grade 8.8 bolt 85Nm

Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



### POSITIONING OF SPECIAL WASHER



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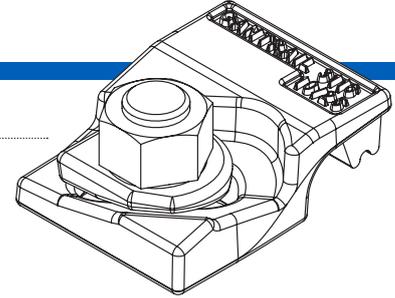
Tel: +971 4 8812 935  
Fax: +971 4 8812 936  
E-mail: [gme@gantrail.com](mailto:gme@gantrail.com)



# 3116/10

## Gantrail Bolted Fixing

www.gantrail.com



The GANTRAIL 3116/10 adjustable crane rail clip is designed to fix light rails in the most arduous applications. It can withstand a horizontal force from the rail of 38kN (3.9 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

BOLT GRADE	8.8	10.9
MAX SIDE LOAD (kN)	38	50
BOLT TORQUE (Nm)	200	300

10mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

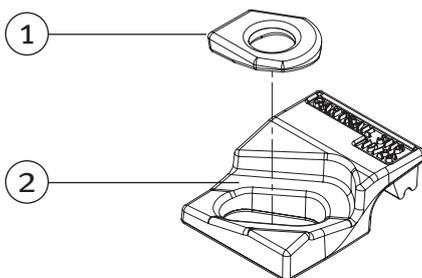
REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT KG
3116/10/25	25	35	30	19	0.32
3116/10/32	32	40	35	26	0.38
3116/10/37	37	45	40	33	0.44

3116/10

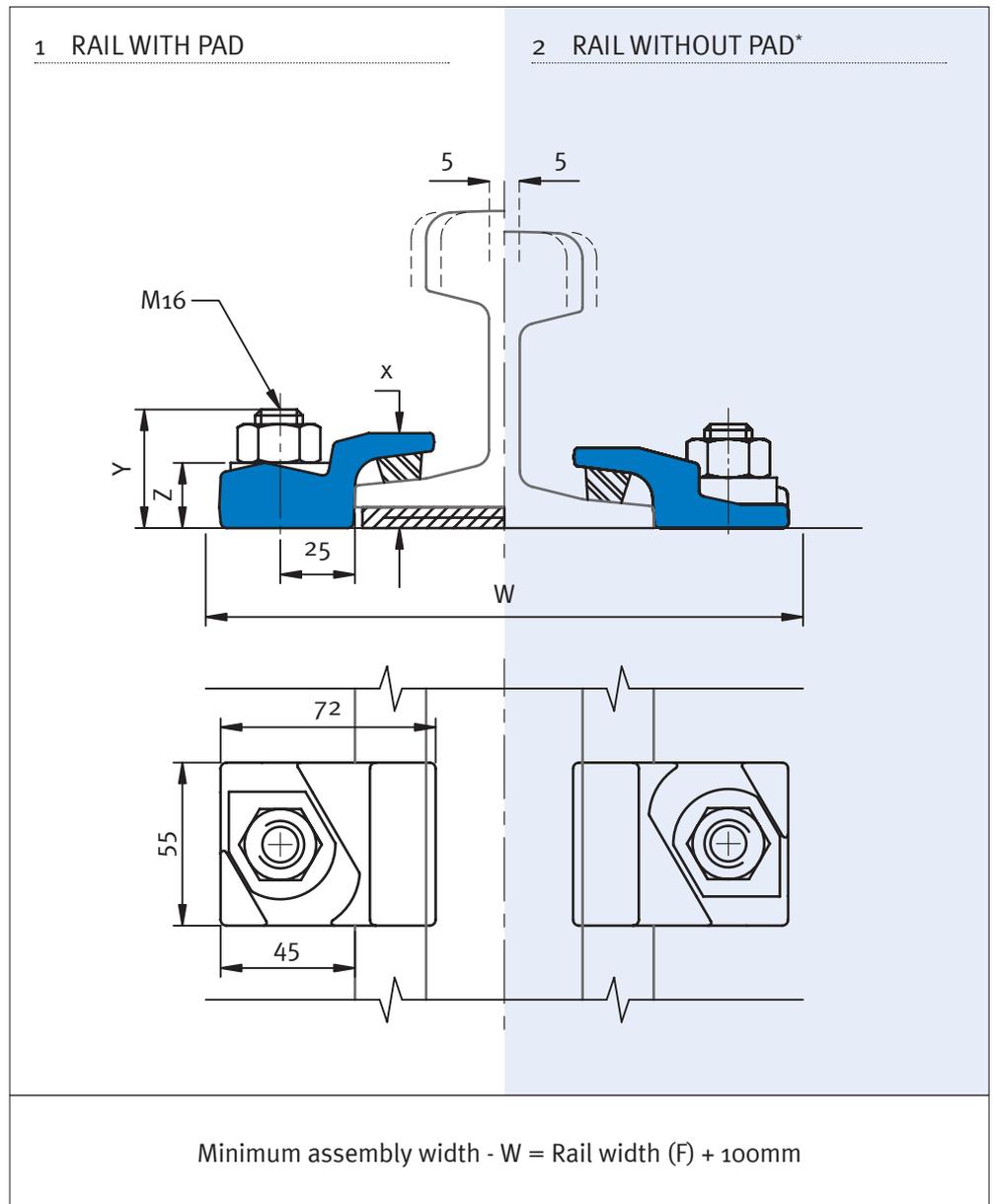
### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.
- The clip has a self-tightening mechanism.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

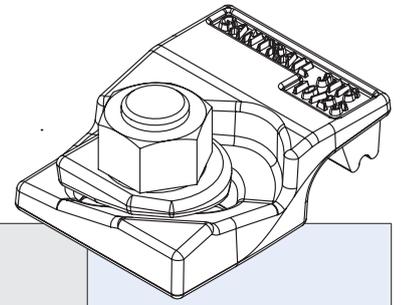


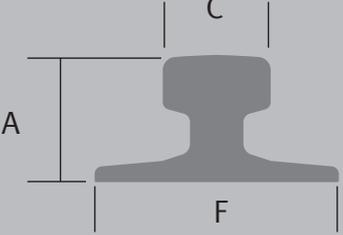
1. Special washer
2. Clip with integral rubber block



# 3116/10

## Gantrail Welded Base Fixing



	F MM	C MM	A MM	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD*
A 45	125	45	55	3116/10/32	3116/10/25
A 55	150	55	65	3116/10/32	3116/10/25
A 65	175	65	75	3116/10/32	3116/10/25
S 14	70	38	80	3116/10/32	3116/10/25
S 20	82	44	100	3116/10/32	3116/10/25
S 30	108	60	108	3116/10/32	3116/10/25
S 41	125	67	138	3116/10/32	3116/10/25
BS 50 'o'	100	52	100	3116/10/32	3116/10/25
AFNOR 26	100	50	100	3116/10/32	3116/10/25
AFNOR 30	106	56	126	3116/10/32	3116/10/25
ASCE 60	108	60	108	3116/10/32	3116/10/25
ASCE 80	127	64	127	3116/10/32	3116/10/25
ASCE 85	132	65	132	3116/10/32	3116/10/25
ISCOR 22	95	50	95	3116/10/32	3116/10/25
ISCOR 30	110	57	110	3116/10/32	3116/10/25
JIS 37	122	63	122	3116/10/32	3116/10/25
JIS 40	122	64	140	3116/10/32	3116/10/25
15 kg.m BHP	79	43	79	3116/10/32	3116/10/25
22 kg.m BHP	94	51	94	3116/10/32	3116/10/25
24kg	92	51	107	3116/10/37	N/A
30kg	107.95	60.33	107.95	3116/10/37	3116/10/37
38kg	114	68	134	3116/10/37	3116/10/37
QU 70	120	70	120	3116/10/37	3116/10/37
QU 80	130	80	130	3116/10/37	3116/10/37
QU 100	150	100	150	3116/10/37	3116/10/37

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact **GANTRAIL** for the full range of possible rails. All rails can be fastened with bolted or welded base clips.

**GANTRAIL** may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

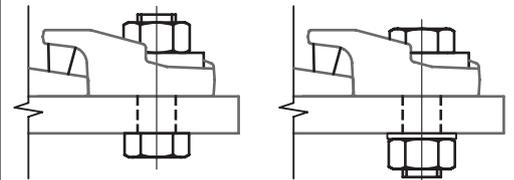
The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

If it is desired to fix the clip with a welded stud, this may be possible. Please consult GANTRAIL for guidance.

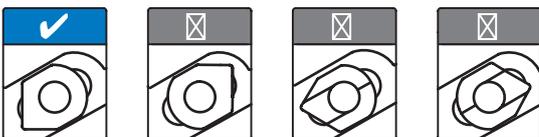
**TIGHTENING TORQUE**  
Grade 8.8 bolt 200Nm  
Grade 10.9 bolt 300Nm

Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



### POSITIONING OF SPECIAL WASHER



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E-mail: gme@gantrail.com



Certificate No. 5180

# 3120/15

## Gantrail Bolted Fixing

www.gantrail.com



The GANTRAIL 3120/15 adjustable crane rail clip is designed to fix heavy rails in the most arduous applications. It can withstand a horizontal force from the rail of 75kN (7.6 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

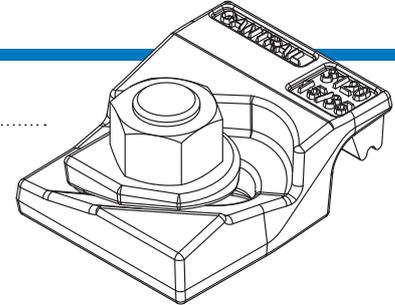
### SPECIFICATIONS:

BOLT GRADE	8.8	10.9
MAX SIDE LOAD (kN)	75	100
BOLT TORQUE (Nm)	390	600

15mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT kg
3120/15/35	35	45	40	23	0.70
3120/15/40	40	50	45	30	0.83

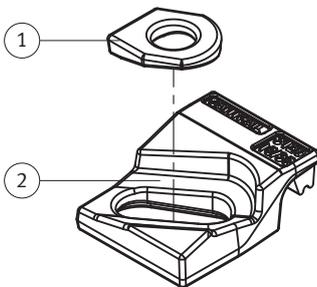


3120/15

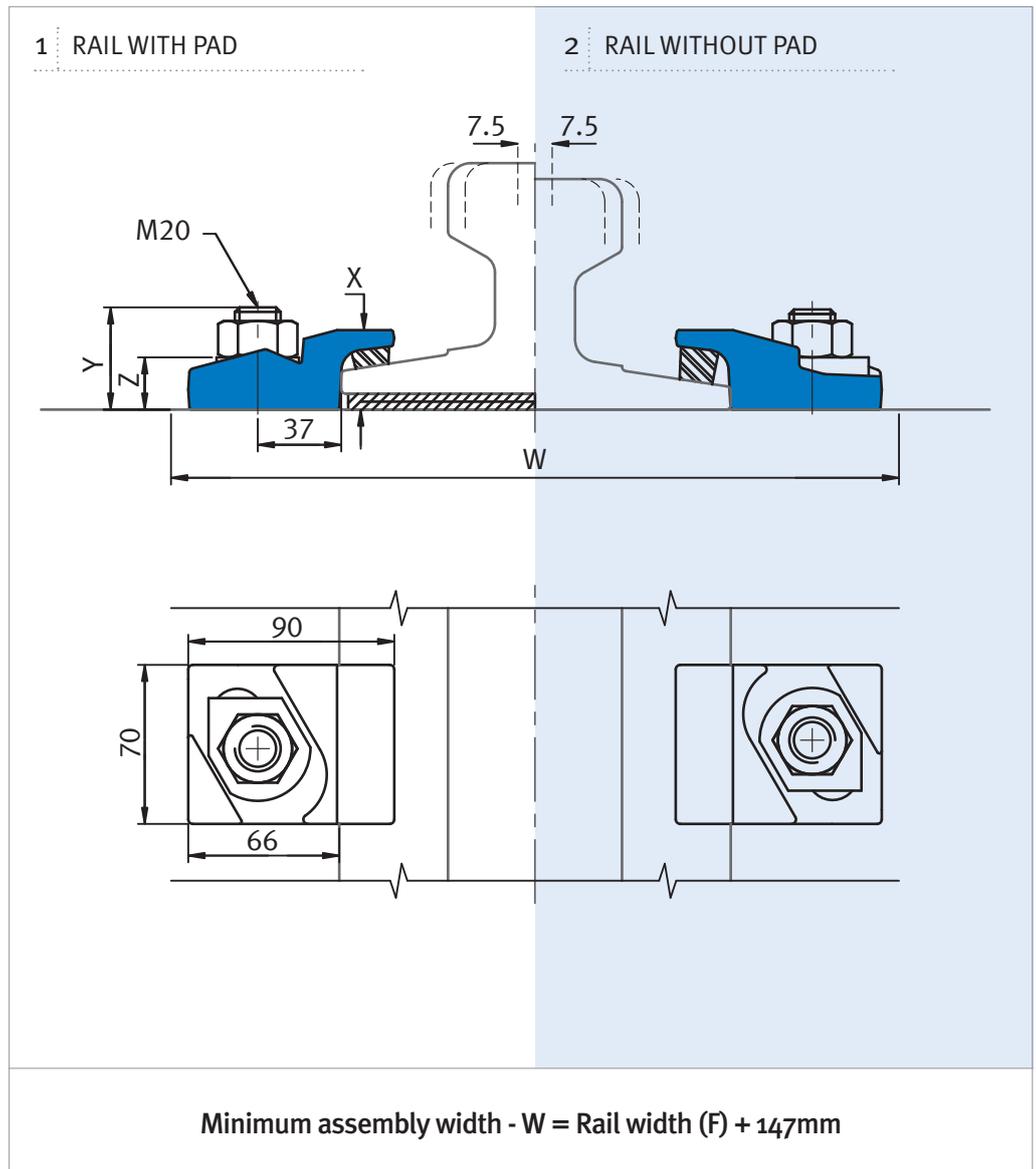
### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

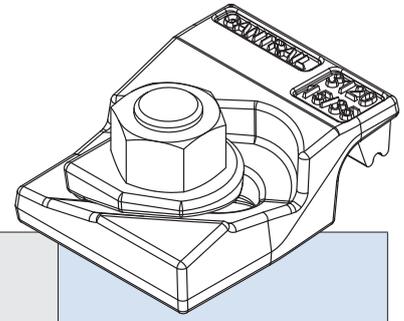


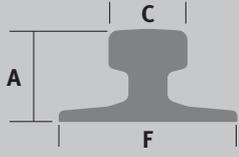
1. Special washer
2. Clip with integral rubber block



# 3120/15

## Gantrail Bolted Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
A 65	175	65	75	3120/15/35	3120/15/35
A 75	200	75	85	3120/15/35	3120/15/35
A 100	200	100	95	3120/15/35	3120/15/35
S 33	105	58	134	3120/15/35	3120/15/35
S 41	125	67	138	3120/15/35	3120/15/35
S 49	125	67	149	3120/15/35	3120/15/35
S 54	125	67	154	3120/15/35	3120/15/35
56 E 1	140	70	159	3120/15/35	3120/15/35
MRS 87 A (PRI85R)	152	102	152	3120/15/40	3120/15/35
AFNOR 46	134	62	145	3120/15/35	3120/15/35
ISCR 60	105	60	105	3120/15/35	3120/15/35
ISCR 80	130	82	130	3120/15/35	3120/15/35
QU 70	120	70	120	3120/15/35	3120/15/35
QU 80	130	80	130	3120/15/35	3120/15/35
JIS 37	122	63	122	3120/15/35	3120/15/35
41 kg AS	127	65	136.5	3120/15/35	3120/15/35
50 kg AS	127	70	154	3120/15/35	3120/15/35
53 kg AS	146	70	157	3120/15/35	3120/15/35
UIC 54	140	70	159	3120/15/35	3120/15/35
UIC 60	150	72	172	3120/15/35	3120/15/35

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

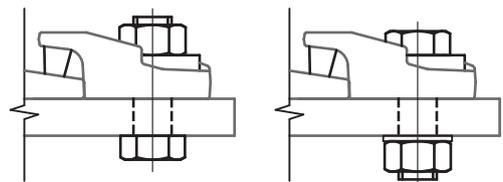
The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

If it is desired to fix the clip with a welded stud, this may be possible. Please consult GANTRAIL for guidance.

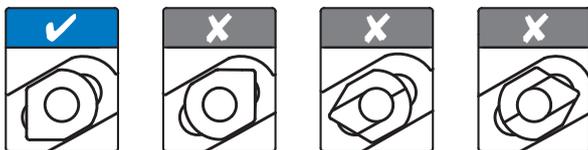
**TIGHTENING TORQUE**  
Grade 8.8 bolt 390Nm  
Grade 10.9 bolt 600Nm

Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



### POSITIONING OF SPECIAL WASHER



## A world of crane rail expertise.

[www.gantrail.com](http://www.gantrail.com)



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Certificate No. 5180

# 3124/15

## Gantrail Bolted Fixing

www.gantrail.com



**GANTRAIL**  
A world of crane rail expertise

The GANTRAIL 3124/15 adjustable crane rail clip is designed to fix the largest rails in the most arduous applications. It can withstand a horizontal force from the rail of 125kN (12.7 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

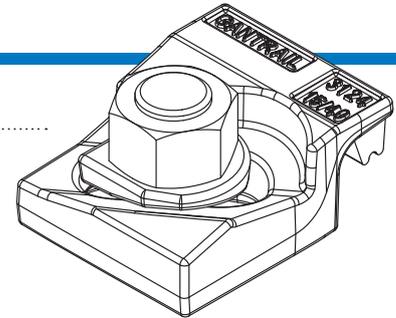
### SPECIFICATIONS:

BOLT GRADE	8.8	10.9
MAX SIDE LOAD (kN)	125	140
BOLT TORQUE (Nm)	600	750

15mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT kg
3124/15/40	40	55	45	30	0.73
3124/15/53	53	55	45	30	0.82

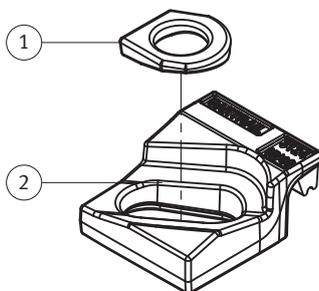


3124/15

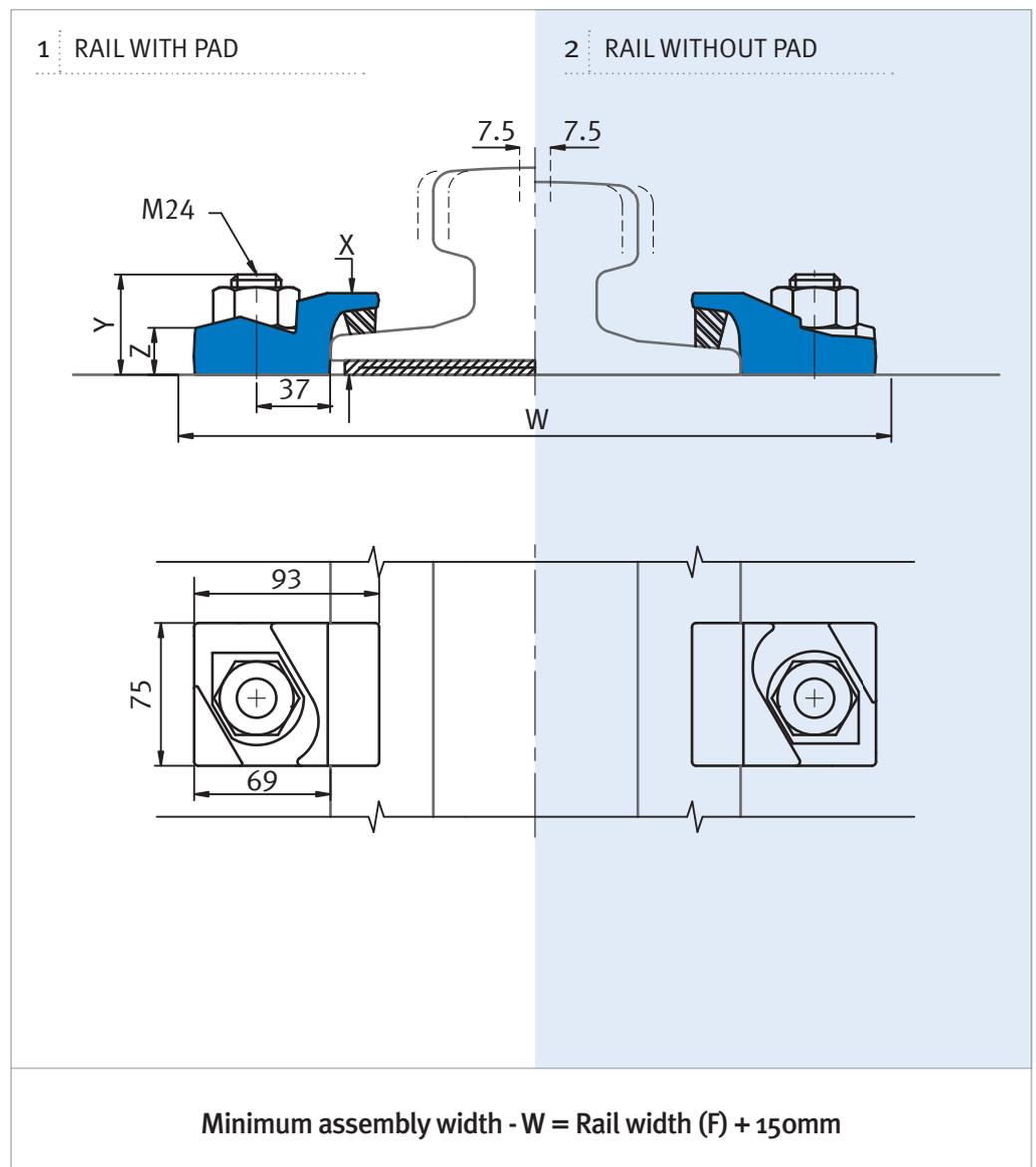
### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

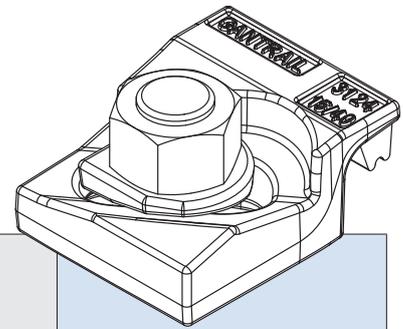


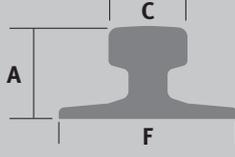
1. Special washer
2. Clip with integral rubber block



# 3124/15

## Gantrail Bolted Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
A 100	200	100	95	3124/15/40	3124/15/40
A 120	220	120	105	3124/15/40	3124/15/40
A 150	220	150	150	3124/15/40	3124/15/40
S 54	125	67	154	3124/15/40	3124/15/40
MRS 67 (135 CR)	132	79	146	3124/15/40	3124/15/40
MRS 86	165	102	102	3124/15/40	3124/15/40
MRS 87 A (PRI85R)	152	102	152	3124/15/40	3124/15/40
MRS 87 B (175 CR)	152	102	152	3124/15/40	3124/15/40
MRS 125	180	120	180	3124/15/53	3124/15/40
GCR 108	263	61 + 61	100	3124/15/40	-
GCR 183	280	75	120	3124/15/40	3124/15/40
ISCR 100	150	102	150	3124/15/40	3124/15/40
ISCR 120	170	120	170	3124/15/40	3124/15/40
QU 100	150	100	150	3124/15/40	3124/15/40
QU 120	170	120	170	3124/15/40	3124/15/40
JIS 50	127	63	145	3124/15/40	3124/15/40
JIS 60	145	64	174	3124/15/40	3124/15/40
CR 73	140	100	135	3124/15/40	3124/15/40
UIC 54 E	125	66	161	3124/15/40	3124/15/40

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips.

GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

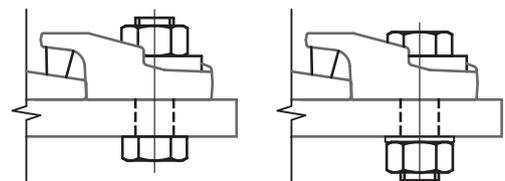
The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

If it is desired to fix the clip with a welded stud, this may be possible. Please consult GANTRAIL for guidance.

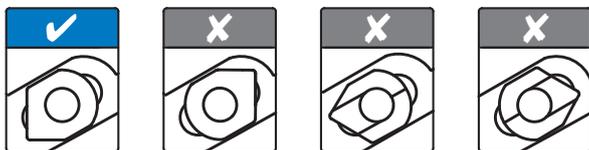
**TIGHTENING TORQUE**  
Grade 8.8 bolt 600Nm  
Grade 10.9 bolt 750Nm

Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



### POSITIONING OF SPECIAL WASHER



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Certificate No. 5180

3124/15/ET/09/14

# 3124/20

## Gantrail Bolted Fixing



www.gantrail.com

The GANTRAIL 3124/20 adjustable crane rail clip is designed to fix the largest rails in the most arduous applications. It can withstand a horizontal force from the rail of 125kN (12.7 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

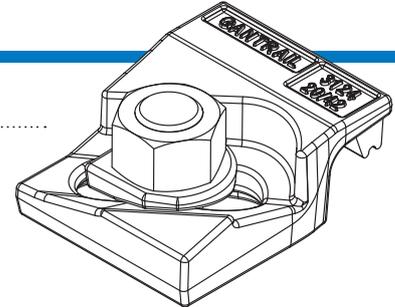
### SPECIFICATIONS:

BOLT GRADE	8.8	10.9
MAX SIDE LOAD (kN)	125	140
BOLT TORQUE (Nm)	600	750

20mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT kg
3124/20/42	42	50	40	26	0.96

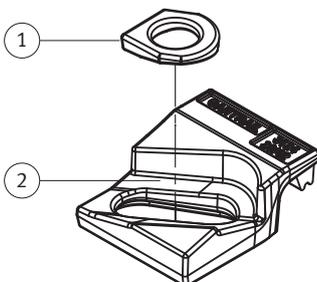


3124/20

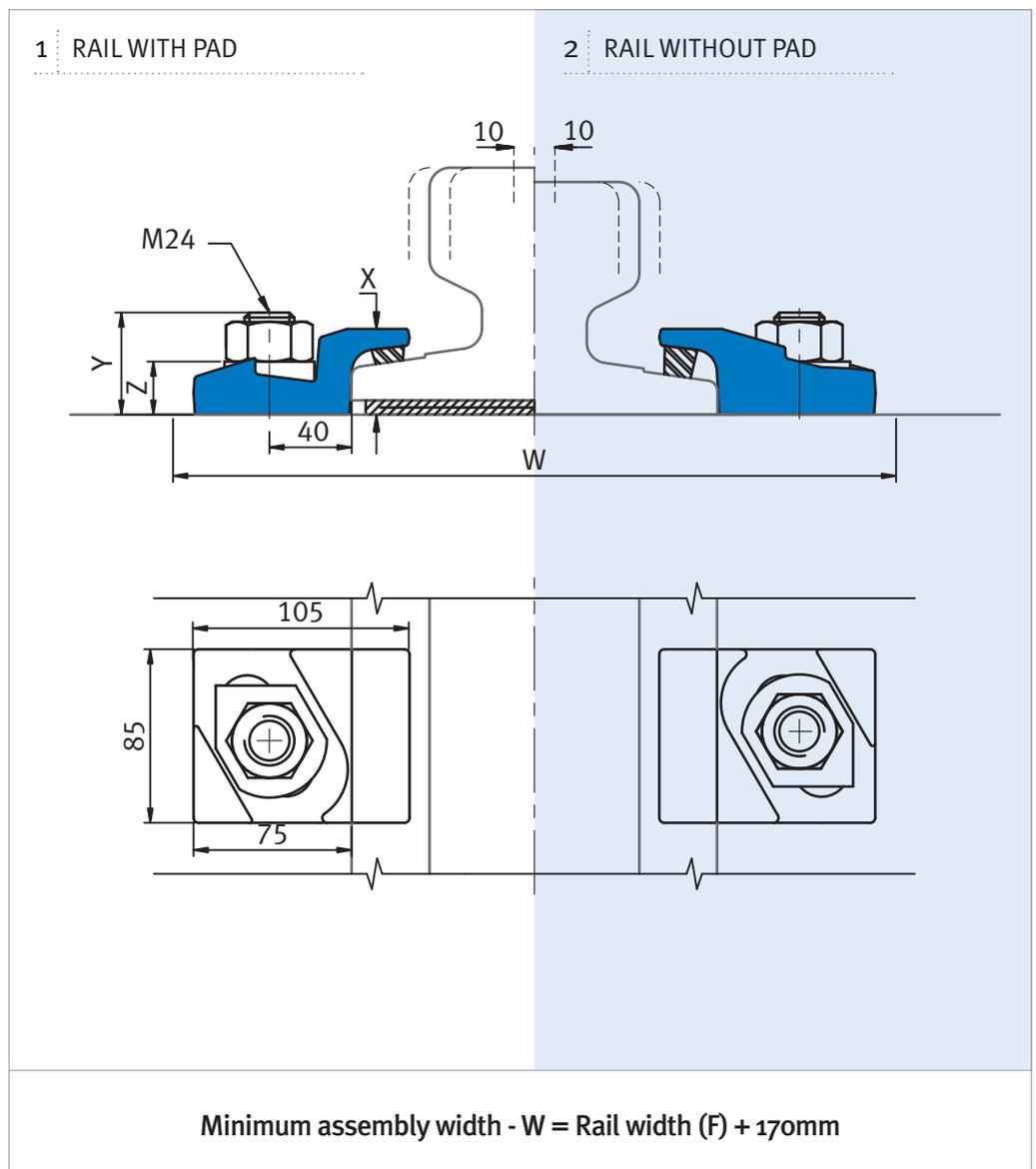
### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

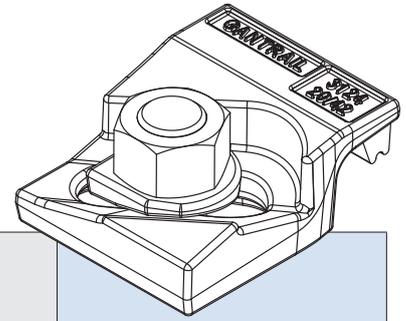


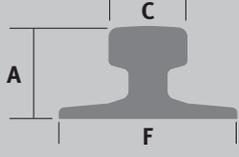
1. Special washer
2. Clip with integral rubber block



# 3124/20

## Gantrail Bolted Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
A 100	200	100	95	3124/20/42	-
A 120	220	120	105	3124/20/42	3124/20/42
A 150	220	150	150	3124/20/42	3124/20/42
MRS 86	165	102	102	3124/20/42	3124/20/42
MRS 87 A (PRI85R)	152	102	152	3124/20/42	3124/20/42
MRS 87 B (175 CR)	152	102	152	3124/20/42	3124/20/42
MRS 125	180	120	180	-	3124/20/42
ISCR 100	150	102	150	3124/20/42	3124/20/42
ISCR 120	170	120	170	3124/20/42	3124/20/42
QU 100	150	100	150	3124/20/42	3124/20/42
QU 120	170	120	170	3124/20/42	3124/20/42
JIS 60	145	64	174	3124/20/42	3124/20/42
CR 73	140	100	135	3124/20/42	3124/20/42
CR 100	155	120	150	-	3124/20/42
86 kg AS	165	102	102	3124/20/42	3124/20/42

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

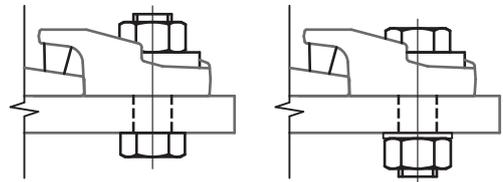
The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

If it is desired to fix the clip with a welded stud, this may be possible. Please consult GANTRAIL for guidance.

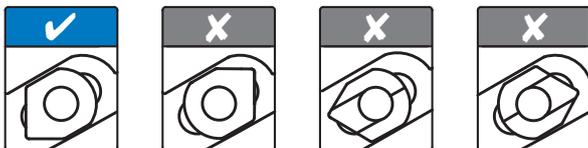
**TIGHTENING TORQUE**  
Grade 8.8 bolt 600Nm  
Grade 10.9 bolt 750Nm

Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



### POSITIONING OF SPECIAL WASHER



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Certificate No. 5180

# 3224/20

## Gantrail Bolted Fixing



www.gantrail.com

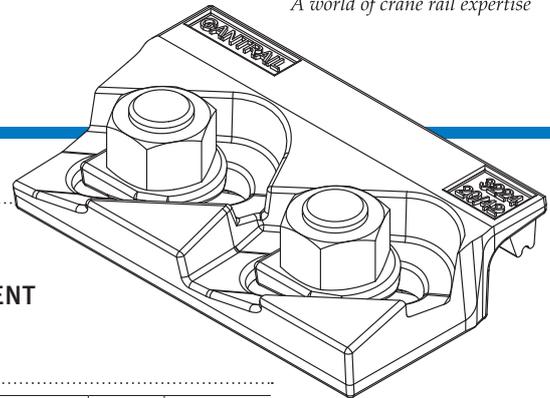
The GANTRAIL 3224/20 adjustable crane rail clip is designed to fix the largest rails in the most arduous applications. It can withstand a horizontal force from the rail of 250kN (25.5 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

MAX SIDE LOAD using  
Grade 8.8 bolt 250kN  
20mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT kg
3224/20/42	42	50	40	26	2.10
3224/20/57	57	50	40	26	2.45

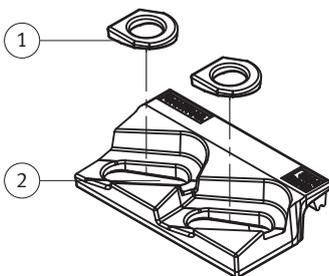


3224/20

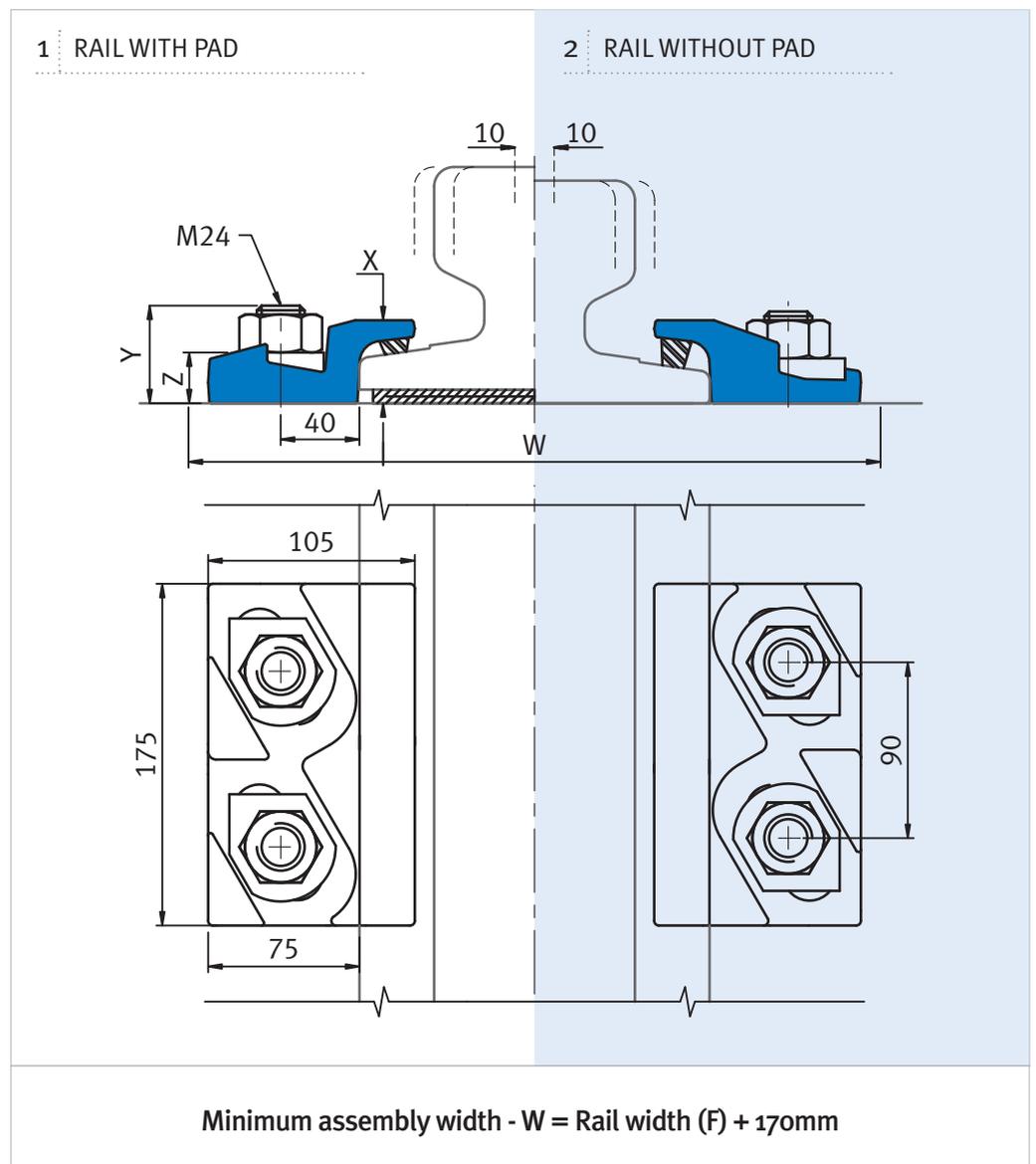
### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

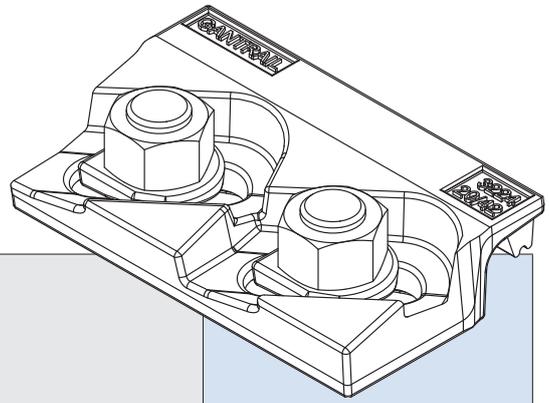


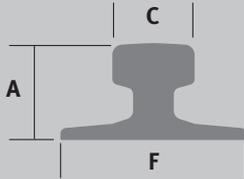
1. Special washer
2. Clip with integral rubber block



# 3224/20

## Gantrail Bolted Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
A 120	220	120	105	3224/20/42	3224/20/42
A 150	220	150	150	3224/20/42	3224/20/42
MRS 86	165	102	102	3224/20/42	3224/20/42
MRS 87 A (PRI85R)	152	102	152	3224/20/42	3224/20/42
MRS 125	180	120	180	3224/20/57	3224/20/42
ISCR 100	150	102	150	3224/20/42	3224/20/42
ISCR 120	170	120	170	3224/20/42	3224/20/42
ISCR 140	170	140	170	3224/20/57	3224/20/42
QU 100	150	100	150	3224/20/42	3224/20/42
QU 120	170	120	170	3224/20/42	3224/20/42
CR 73	140	100	135	3224/20/42	3224/20/42
86 kg AS	165	102	102	3224/20/42	3224/20/42

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips.

GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

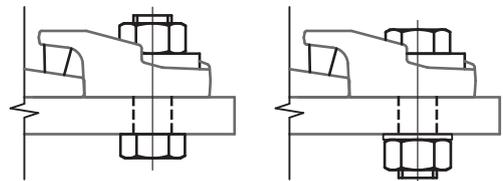
The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

If it is desired to fix the clip with a welded stud, this may be possible. Please consult GANTRAIL for guidance.

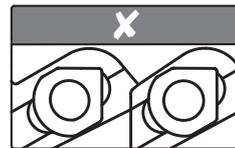
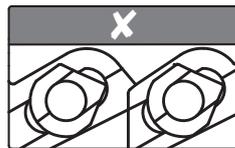
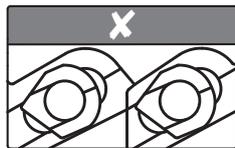
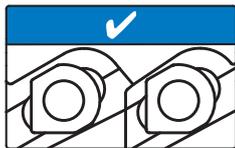
**TIGHTENING TORQUE**  
Grade 8.8 bolt 600Nm

Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



### POSITIONING OF SPECIAL WASHER



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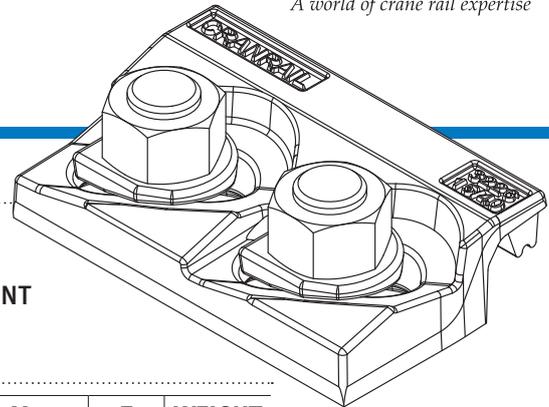
# 3226/15

## Gantrail Bolted Fixing

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3226/15

The GANTRAIL 3226/15 adjustable crane rail clip is designed to fix the largest of rails in the most arduous applications. It can withstand a horizontal force from the rail of 250kN (25.5 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

**MAX SIDE LOAD** using  
Grade 8.8 bolt 250kN  
15mm HORIZONTAL RAIL ADJUSTMENT

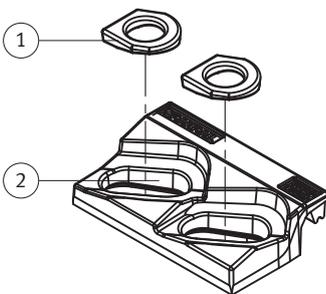
### DIMENSIONS (mm):

REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT kg
3226/15/40	40	55	45	30	1.50

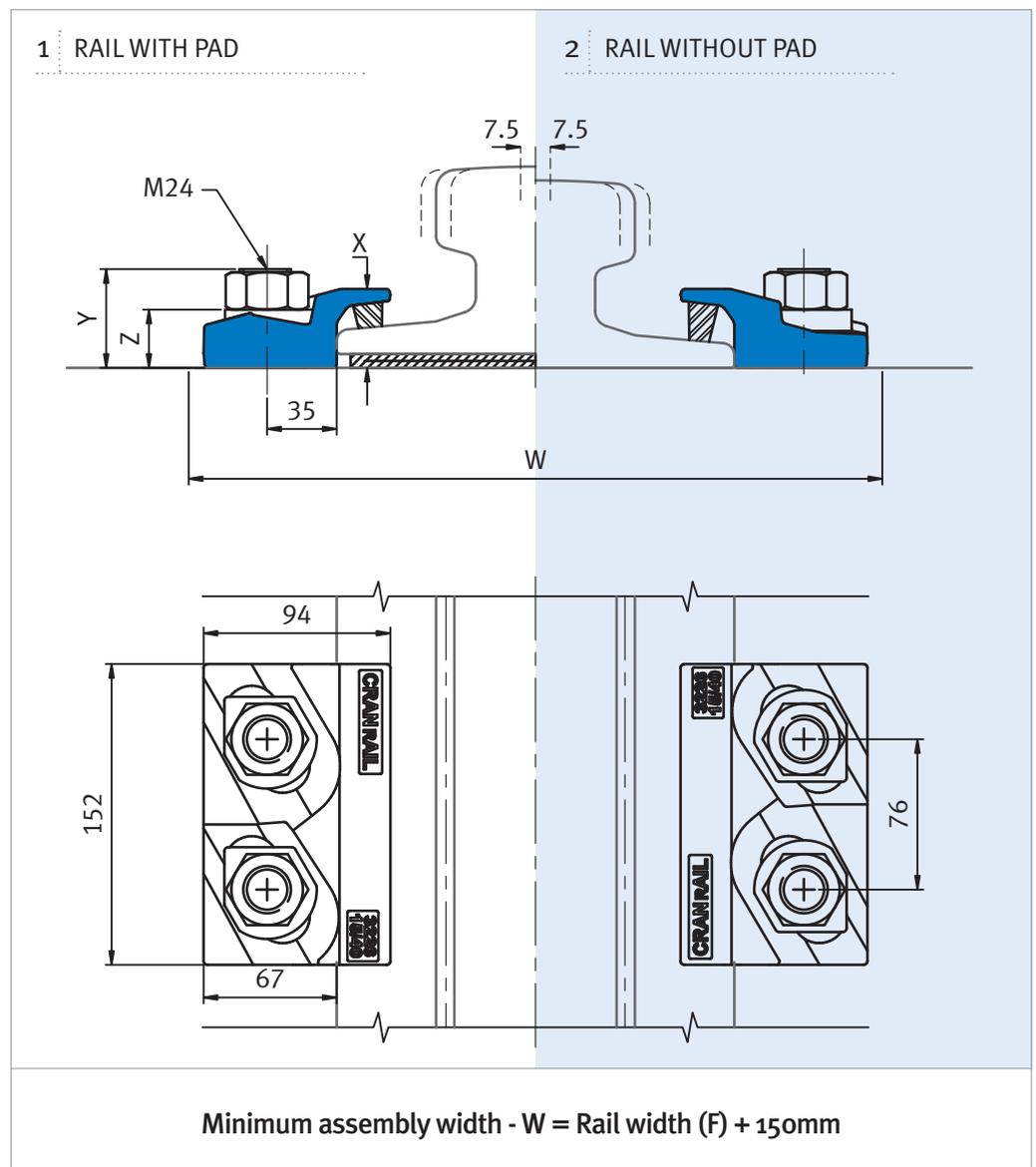
### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

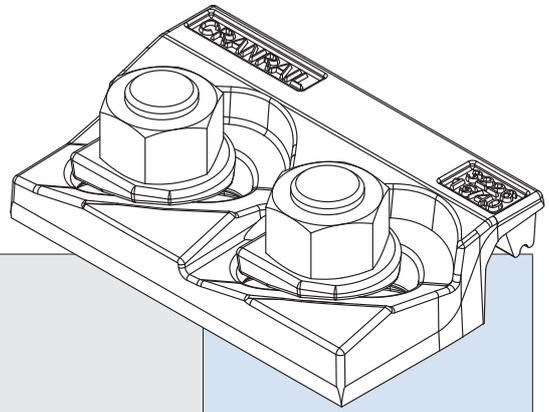


1. Special washer
2. Clip with integral rubber block



# 3226/15

## Gantrail Bolted Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
A 120	220	120	105	3226/15/40	3226/15/40
A 150	220	150	150	3226/15/40	3226/15/40
MRS 86	165	102	102	3226/15/40	3226/15/40
MRS 87 A (PRI85R)	152	102	152	3226/15/40	3226/15/40
MRS 87 B (175 CR)	152	102	152	3226/15/40	3226/15/40
GCR 183	280	75	120	3226/15/40	3226/15/40
ISCR 100	150	102	150	3226/15/40	3226/15/40
ISCR 120	170	120	170	3226/15/40	3226/15/40
QU 100	150	100	150	3226/15/40	3226/15/40
QU 120	170	120	170	3226/15/40	3226/15/40
JIS 50	127	63	145	3226/15/40	3226/15/40
CR 73	140	100	135	3226/15/40	3226/15/40
86 kg AS	165	102	102	3226/15/40	3226/15/40

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

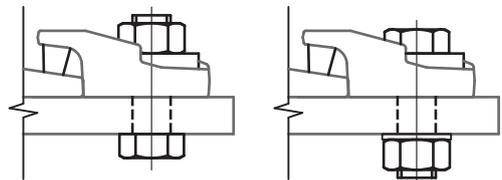
The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

If it is desired to fix the clip with a welded stud, this may be possible. Please consult GANTRAIL for guidance.

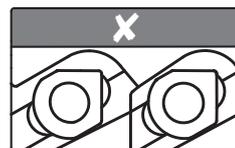
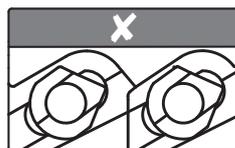
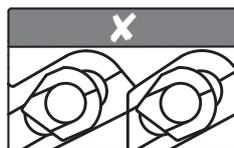
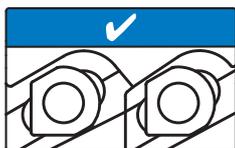
**TIGHTENING TORQUE**  
Grade 8.8 bolt 600Nm

Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



### POSITIONING OF SPECIAL WASHER



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# 6124/20

## Gantrail Bolted Fixing

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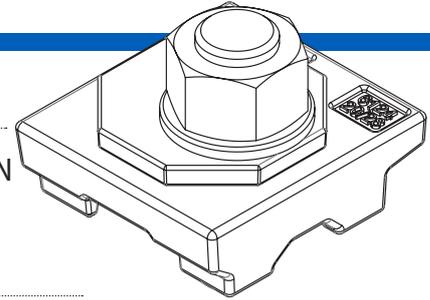
The GANTRAIL 6124/20 adjustable crane rail clip is designed to fix heavy rails in the most arduous applications. It can withstand a horizontal force from the rail of 125kN (12.7 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

MAX SIDE LOAD using Grade 8.8 bolt 125kN  
20mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT KG
6124/20/28	28	65	55	35	0.90
6124/20/31	31	65	55	38	0.93

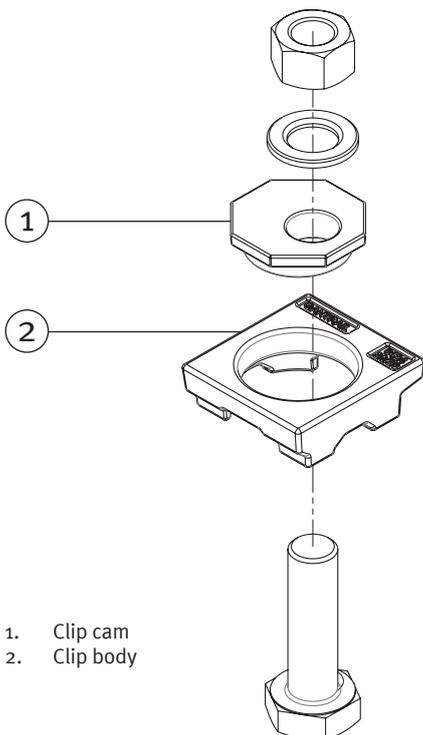


6124/20

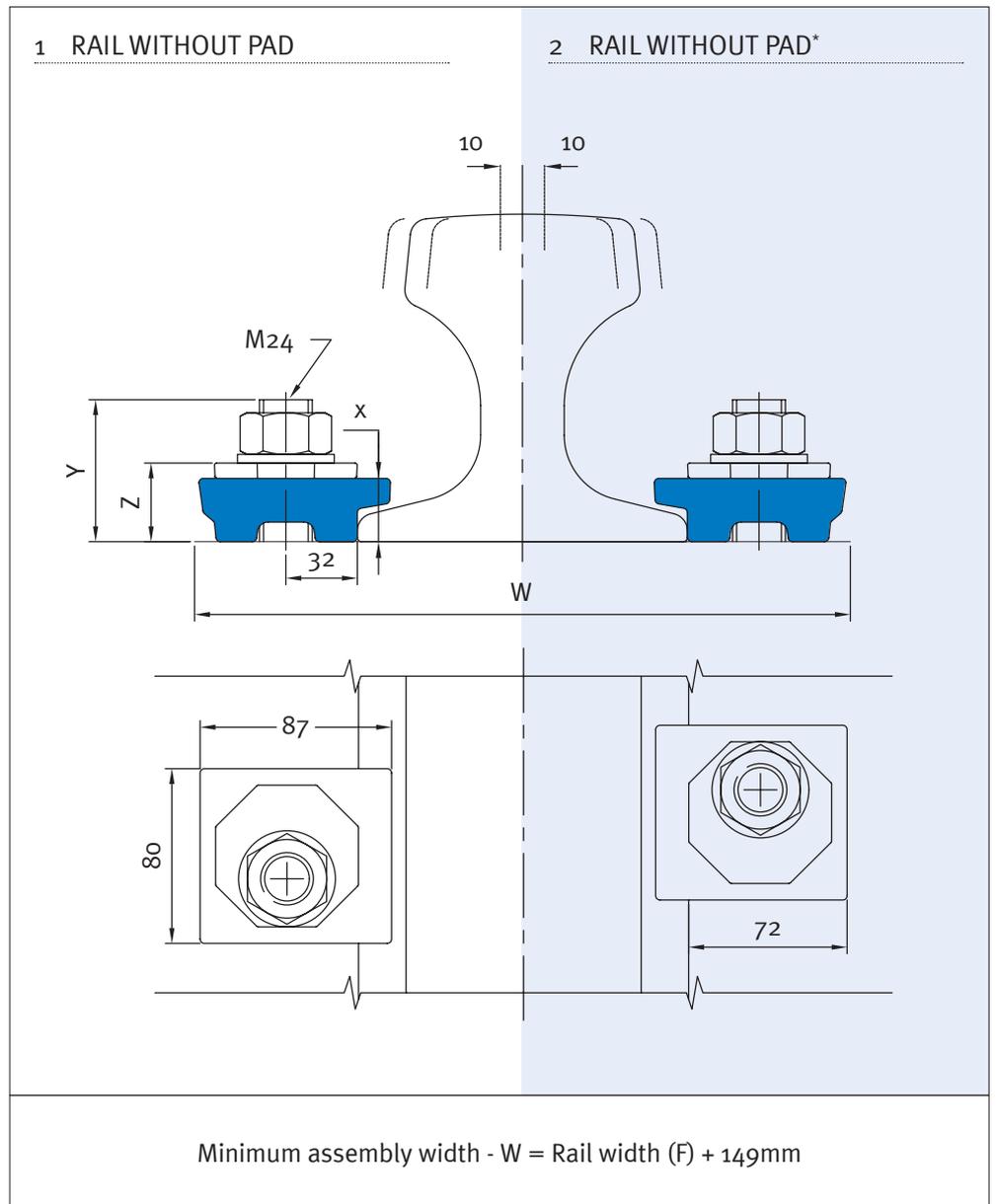
### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.

### COMPONENTS

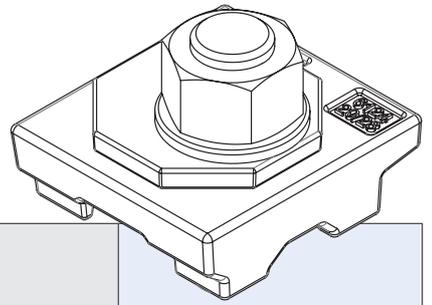


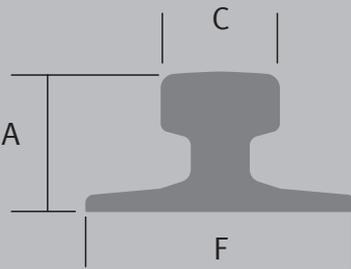
1. Clip cam
2. Clip body



# 6124/20

## Gantrail Base Fixing



	F MM	C MM	A MM	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD*
UIC60	150	72	172	Not applicable	6124/20/28
56 E1	140	70	159	Not applicable	6124/20/28
A100	200	100	95	Not applicable	6124/20/28
A120	220	120	105	Not applicable	6124/20/31
MRS 87A	152	102	152	Not applicable	6124/20/31
QU100	150	100	150	Not applicable	6124/20/28
QU120	150	100	150	Not applicable	6124/20/31
ISCR 100	150	100	150	Not applicable	6124/20/28
ISCR 120	170	120	170	Not applicable	6124/20/31

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact **GANTRAIL** for the full range of possible rails. All rails can be fastened with bolted or welded base clips.

**GANTRAIL** may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

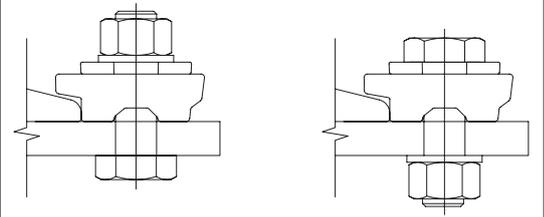
The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

If it is desired to fix the clip with a welded stud, this may be possible. Please consult GANTRAIL for guidance.

**TIGHTENING TORQUE**  
Grade 8.8 bolt 200Nm  
Grade 10.9 bolt 300Nm

Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



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Certificate No. 5180

# 6124/20C

## Gantrail Bolted Fixing

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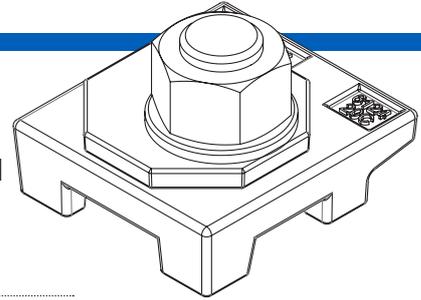
The GANTRAIL 6124/20C adjustable crane rail clip is designed to fix heavy rails in the most arduous applications. It can withstand a horizontal force from the rail of 125kN (12.7 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

MAX SIDE LOAD using Grade 8.8 bolt 125kN  
20mm HORIZONTAL RAIL ADJUSTMENT

### DIMENSIONS (mm):

REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT KG
6124/20C/26	26	65	55	35	0.84

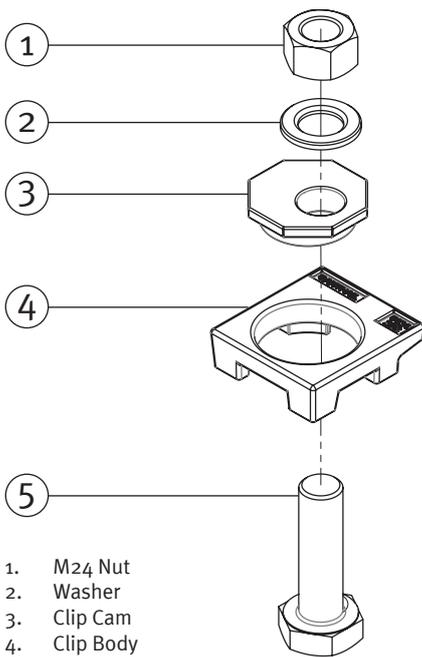


6124/20C

### FEATURES

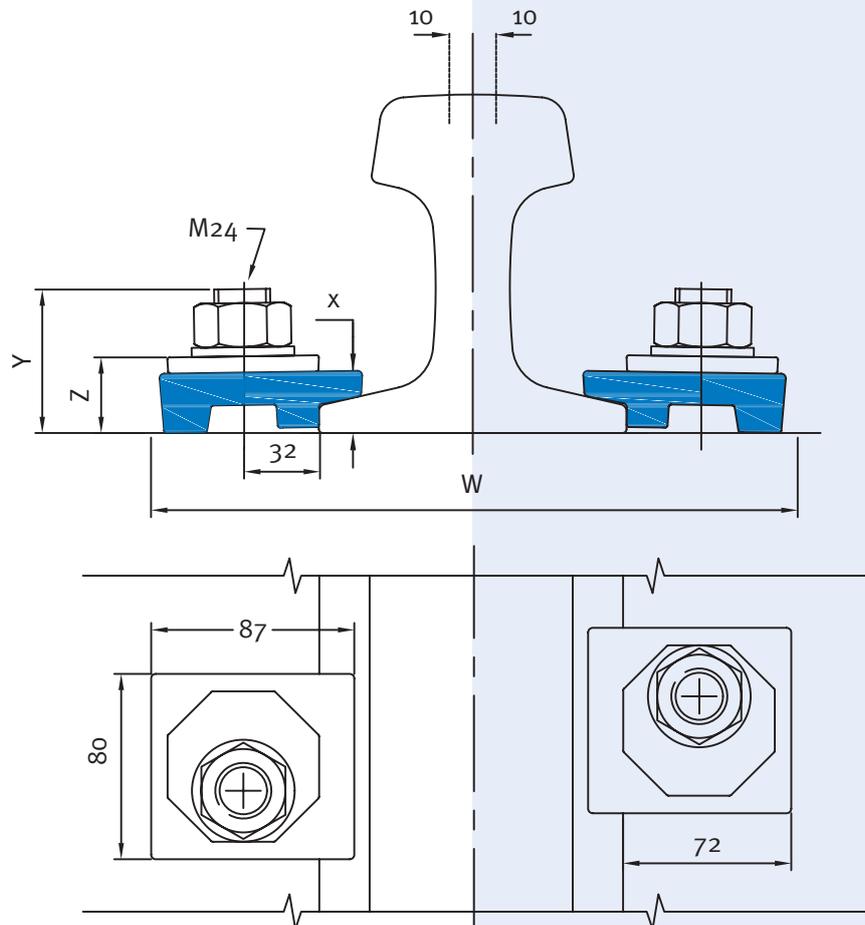
- The proven design has been used successfully for many years throughout the world.
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.

### COMPONENTS



### RAIL WITHOUT RAD

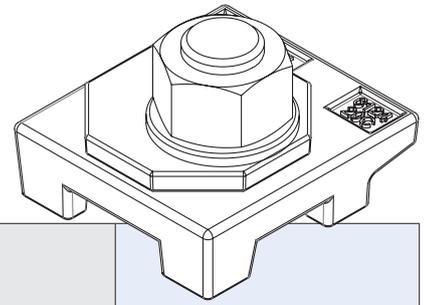
### 2 RAIL WITHOUT PAD\*

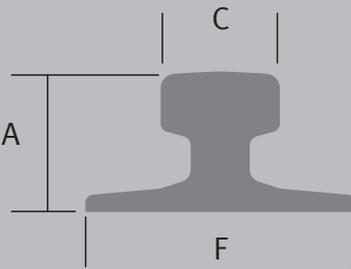


Minimum assembly width - W = Rail width (F) + 152mm

# 6124/20C

## Gantrail Base Fixing



	F MM	C MM	A MM	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD*
A75	200	75	85	Not applicable	6124/20C/26
A100	200	100	95	Not applicable	6124/20C/26
MRS67	131.8	79.4	146	Not applicable	6124/20C/26

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact **GANTRAIL** for the full range of possible rails. All rails can be fastened with bolted or welded base clips.

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### INSTALLATION INSTRUCTIONS:

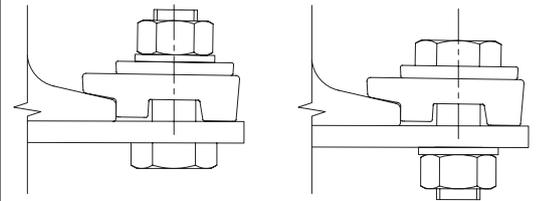
The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

If it is desired to fix the clip with a welded stud, this may be possible. Please consult **GANTRAIL** for guidance.

**TIGHTENING TORQUE**  
Grade 8.8 bolt 600Nm

Please contact **GANTRAIL** for full installation instructions.

### BOLT CONFIGURATIONS



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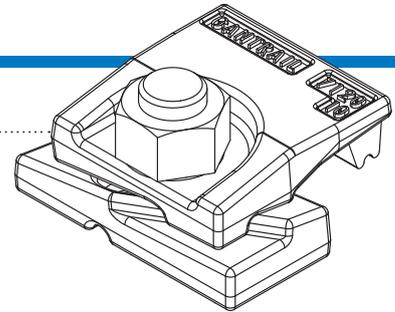
# 7120/10

## Gantrail Bolted Base Fixing

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7120/10

The GANTRAIL 7120/10 adjustable crane rail clip is designed to fix heavy rails, on narrow girders, in the most arduous applications. It can withstand a horizontal force from the rail of 75kN (7.6 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

BOLT GRADE	8.8	10.9
MAX SIDE LOAD (kN)	75	100
BOLT TORQUE (Nm)	390	600

10mm HORIZONTAL RAIL ADJUSTMENT

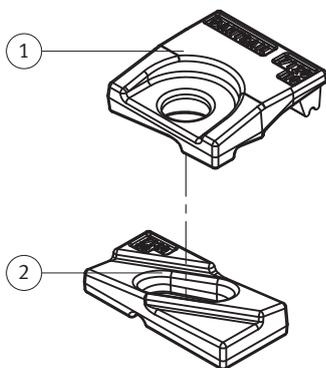
### DIMENSIONS (mm):

REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT kg
7120/10/35	35	45	45	25	0.69
7120/10/38	38	50	45	28	0.77
7120/10/48	48	60	55	38	0.98

### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is bolted to the rail support.
- The two main parts are locked together on tightening the nut.
- A special vulcanised rubber block applies a controlled force to the rail.

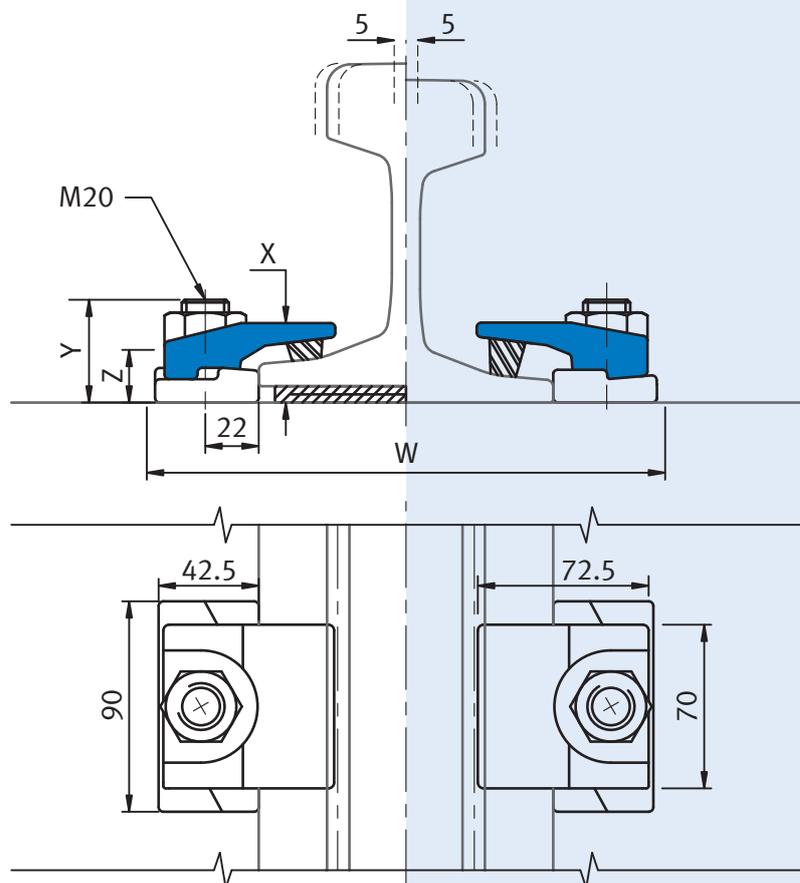
### COMPONENTS



1. Clip cap with integral rubber block
2. Clip base

#### 1 RAIL WITH PAD

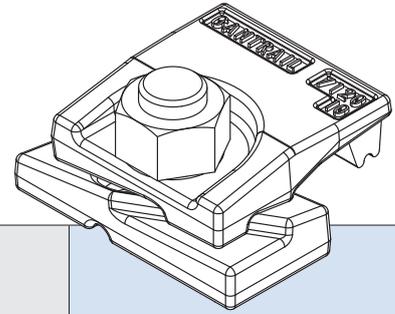
#### 2 RAIL WITHOUT PAD

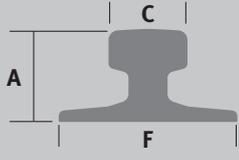


Minimum assembly width -  $W = \text{Rail width (F)} + 95\text{mm}$

# 7120/10

## Gantrail Bolted Base Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
A 65	175	65	75	7120/10/38	7120/10/35
A 75	200	75	85	7120/10/38	7120/10/35
A 100	200	100	95	7120/10/38	7120/10/35
S 33	105	58	134	7120/10/38	7120/10/35
S 41	125	67	138	7120/10/38	7120/10/35
S 49	125	67	149	7120/10/38	7120/10/35
56 E 1	140	70	159	7120/10/38	7120/10/35
ISCR 50	90	50	90	7120/10/38	7120/10/35
ISCR 60	105	60	105	7120/10/38	7120/10/35
ISCR 80	130	82	130	7120/10/38	7120/10/35
QU 70	120	70	120	7120/10/38	7120/10/35
QU 80	130	80	130	7120/10/38	7120/10/35
JIS 37	122	63	122	7120/10/38	7120/10/35
JIS 40	122	64	140	7120/10/38	7120/10/35
41 kg AS	127	64	137	7120/10/38	7120/10/35
50 kg AS	127	70	157	7120/10/38	7120/10/35
53 kg AS	146	70	157	7120/10/38	7120/10/35
UIC 54	140	70	159	7120/10/38	7120/10/35
UIC 60	150	72	172	7120/10/38	7120/10/35

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

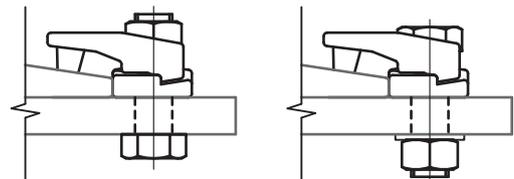
The hexagon headed fixing bolt can be inserted from above or below the supporting structure – see adjacent configurations.

If it is desired to fix the clip with a welded stud, this may be possible. Please consult GANTRAIL for guidance.

**TIGHTENING TORQUE**  
Grade 8.8 bolt 390Nm  
Grade 10.9 bolt 600Nm

Please contact GANTRAIL for full installation instructions.

### BOLT CONFIGURATIONS



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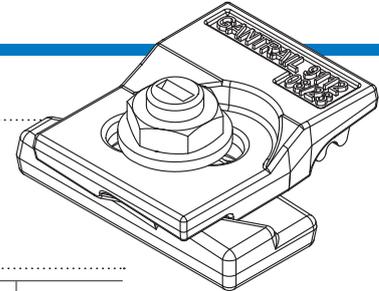
# 9112/08

## Gantrail Welded Base Fixing

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9112/08

The GANTRAIL 9112/08 adjustable crane rail clip is designed to fix light rails, on narrow girders, in the most arduous applications. It can withstand a horizontal force from the rail of 20kN (2.0 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

**MAX SIDE LOAD 20kN**  
**8mm HORIZONTAL RAIL ADJUSTMENT**

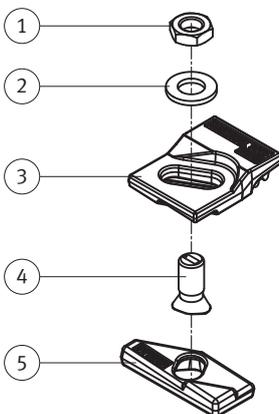
### DIMENSIONS (mm):

REF NO.	X	Y (FULL NUT)	Y (THIN NUT)	Z	WEIGHT kg
9112/08/23	23	35	30	17	0.26
9112/08/30	30	35	30	17	0.29

### FEATURES

- The proven design has been used successfully for many years throughout the world.
- The clip is welded to the rail support. No access is required from below.
- The two main parts are locked together on tightening the grade 8.8 bolt.
- The clip has a self-tightening mechanism.
- A special vulcanised rubber block applies a controlled force to the rail.

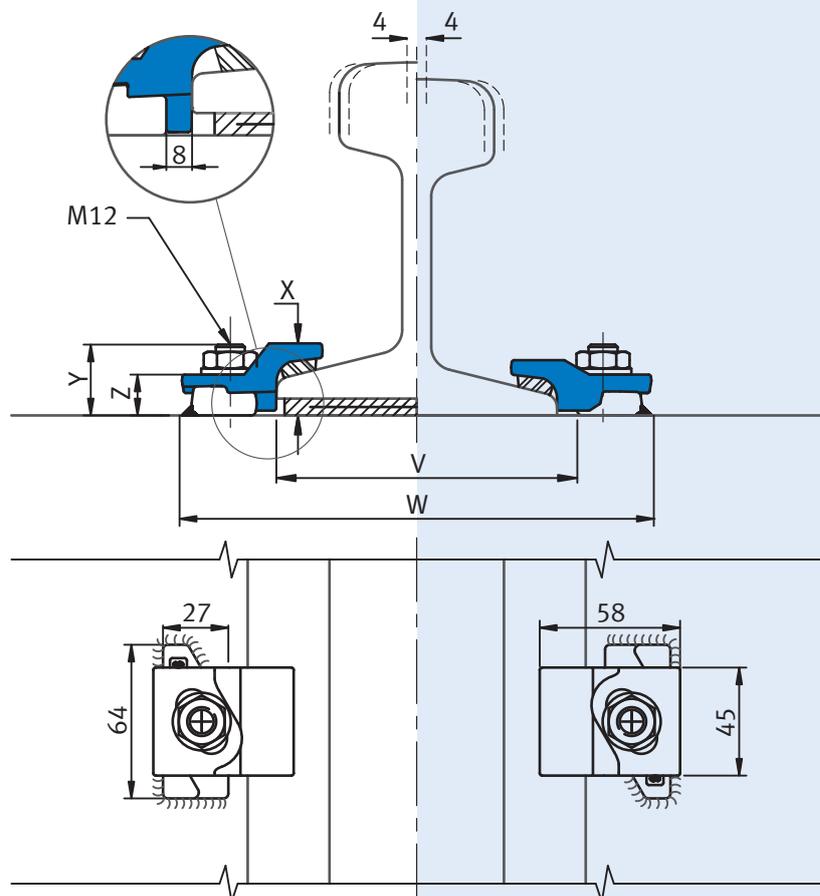
### COMPONENTS



1. Nut
2. Hardened washer
3. Clip cap with integral rubber block
4. M12 Captive bolt
5. Weldable base

### 1 RAIL WITH PAD

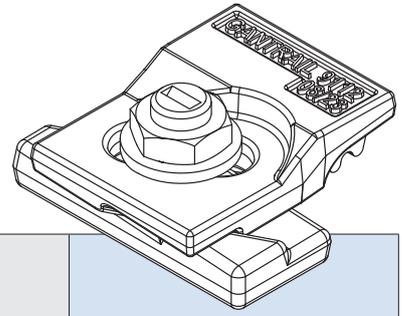
### 2 RAIL WITHOUT PAD

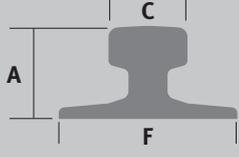


Minimum assembly width -  $W = \text{Rail width (F)} + 80\text{mm}$      $V = \text{Rail width (F)} + 16\text{mm}$

# 9112/08

## Gantrail Welded Base Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
A 45	125	45	55	9112/08/30	9112/08/30
A55	150	55	65	9112/08/30	9112/08/30
S 10	58	32	70	9112/08/30	9112/08/23
S 14	70	38	80	9112/08/30	9112/08/23
S 18	82	43	92	9112/08/30	9112/08/23
S 20	82	44	100	9112/08/30	9112/08/23
S 24	90	53	115	9112/08/30	9112/08/23
S 30	180	60	108	9112/08/30	9112/08/23
ISCOR 22	95	50	95	9112/08/30	9112/08/23
ISCOR 30	110	57	110	9112/08/30	9112/08/23
JIS 12	70	38	70	9112/08/30	9112/08/23
JIS 15	79	43	79	9112/08/30	9112/08/23
JIS 22	94	51	94	9112/08/30	9112/08/23
15 kg BHP	79	43	79	9112/08/30	9112/08/23
22 kg BHP	94	51	94	9112/08/30	9112/08/23
ASCE 12	51	25	51	9112/08/30	9112/08/23
ASCE 20	67	34	67	9112/08/30	9112/08/23
ASCE 25	70	38	70	9112/08/30	9112/08/23
ASCE 30	79	43	79	9112/08/30	9112/08/23
ASCE 40	89	48	89	9112/08/30	9112/08/23
ASCE 50	98	54	98	9112/08/30	9112/08/23
ASCE 60	98	54	98	9112/08/30	9112/08/23

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

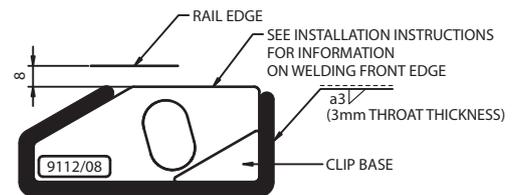
Weld all round the clip base, except the side closest and parallel to the rail, with a 3mm throat thickness fillet weld, using low hydrogen electrodes. Recommended electrodes AWS E7018 or E7028. Clip base is made from weldable grade steel.

If a continuous weld around the clip base is required, this is possible. Please consult GANTRAIL for guidance.

**TIGHTENING TORQUE 60Nm**

Please contact GANTRAIL, for full installation instructions.

### WELD DETAIL



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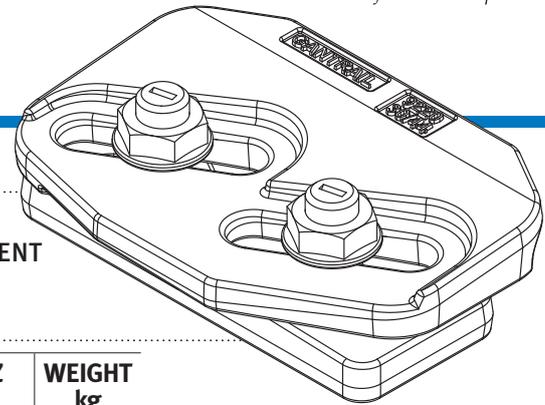
# 9220/30

## Gantrail Welded Base Fixing

www.gantrail.com



**GANTRAIL**  
A world of crane rail expertise



9220/30

The GANTRAIL 9220/30 adjustable crane rail clip is designed to fix the largest rails in the most arduous applications. It can withstand a horizontal force from the rail of 300kN (30.6 tonnes). Its low profile allows it to be used with cranes that are fitted with guide rollers.

### SPECIFICATIONS:

MAX SIDE LOAD 300kN  
30mm HORIZONTAL RAIL ADJUSTMENT

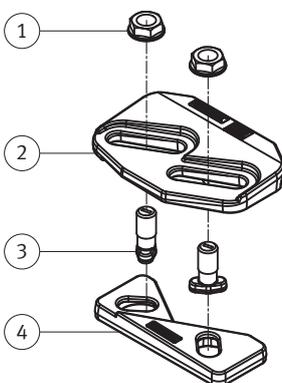
### DIMENSIONS (mm):

REF NO.	X	Y	Z	WEIGHT kg
9220/30/44	44	49	33	3.98

### FEATURES

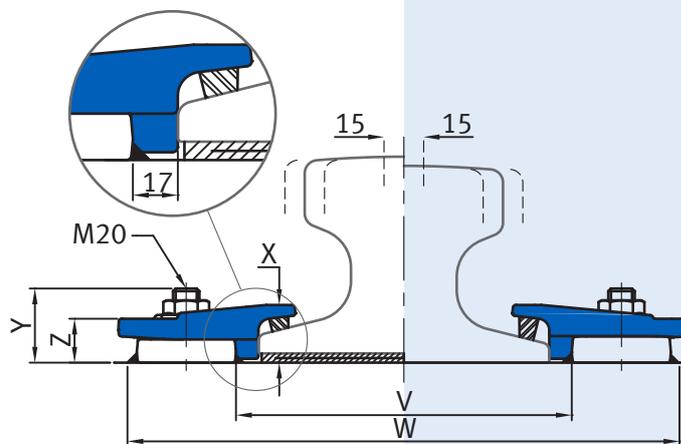
- The proven design has been used successfully for many years throughout the world.
- The clip is welded to the rail support. No access is required from below.
- The two main parts are locked together on tightening the grade 8.8 bolts.
- The clip has a self-tightening mechanism.
- A special vulcanised rubber block applies a controlled force to the rail.

### COMPONENTS

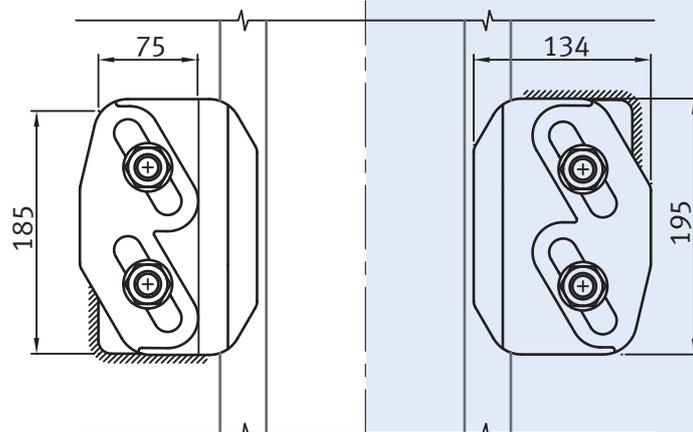


1. Flange nuts
2. Clip cap with integral rubber block
3. M20 Captive bolts
4. Weldable base

### 1 RAIL WITH PAD



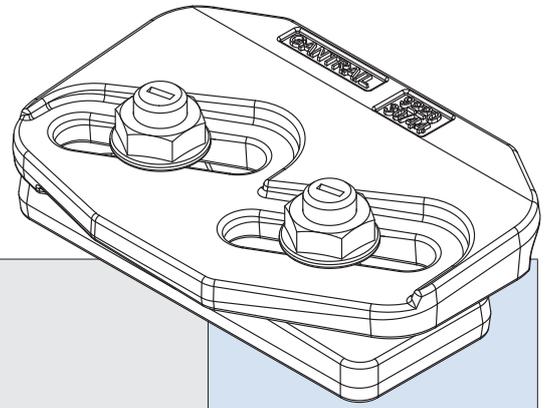
### 2 RAIL WITHOUT PAD

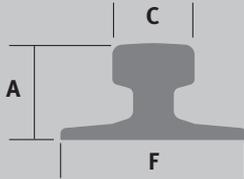


Minimum assembly width -  $W = \text{Rail width (F)} + 200\text{mm}$      $V = \text{Rail width (F)} + 34\text{mm}$

# 9220/30

## Gantrail Welded Base Fixing



	F mm	C mm	A mm	1. CLIP REFERENCE FOR RAIL WITH PAD	2. CLIP REFERENCE FOR RAIL WITHOUT PAD
A 120	220	120	105	9220/30/44	-
A 150	220	150	150	9220/30/44	9220/30/44
89 kg CR	178	102	114	9220/30/44	9220/30/44
MRS 86	165	102	102	9220/30/44	-
MRS 125	180	120	180	-	9220/30/44
MRS 221	220	220	160	9220/30/44	9220/30/44
ISCR 120	170	120	170	9220/30/44	9220/30/44
KP 140	170	140	170	9220/30/44	9220/30/44
QU 120	170	120	170	9220/30/44	9220/30/44
CR 100	155	120	150	9220/30/44	9220/30/44

**THIS CLIP CAN BE USED FOR A WIDER SELECTION OF RAILS THAN ILLUSTRATED.**

Please contact GANTRAIL for the full range of possible rails. All rails can be fastened with bolted or welded base clips. GANTRAIL may change or improve their products and also alter specifications without notice.

### INSTALLATION INSTRUCTIONS:

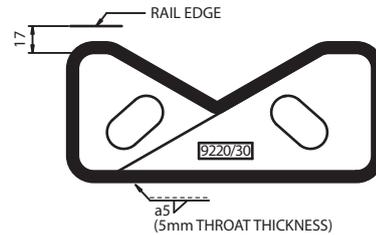
Weld all round the clip base with a 5mm throat thickness fillet weld, using low hydrogen electrodes. Recommended electrodes AWS E7018 or E7028. Clip base is made from weldable grade steel.

\*For rail without pad, weld closest to and parallel with the rail must be omitted. Please consult GANTRAIL for guidance.

**TIGHTENING TORQUE 350Nm**

Please contact GANTRAIL, for full installation instructions.

### WELD DETAIL



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9220/30/ET/09/14

# Mark 2

## Gantrail Resilient Pad For Discontinuous Rail Support

www.gantrail.com



Mark 2

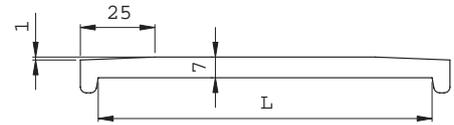
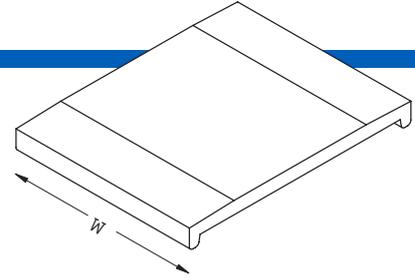
Gantrail Mark 2 crane rail pads are designed for installations where rails are mounted on individual sole plates. Front and back lips sit over the sole plate to prevent pad displacement. The pad is cut to 5mm less than the width of the rail bottom flange. The pads are made in several sizes so that the total area is chosen to suit the expected wheel load.

### SPECIFICATIONS:

Soleplate width must match pad 'L' dimension from table below

### DIMENSIONS (mm):

PART No.	L MM	W MM
MK2-110	110	Rail foot width less 5mm
MK2-120	120	
MK2-165	165	
MK2-205	205	
MK2-220	220	
MK2-250	250	
MK2-320	320	



### FEATURES

The Mark 2 pad incorporates a number of proven features. When used in conjunction with Gantrail adjustable rail clips, Mark 2 crane rail pad will significantly reduce stresses in the rail, grout and concrete below the sole plate.

It allows the rail to rotate small amounts so that it conforms to the crane wheel.

This gives an even distribution of wheel loads onto the supporting structure.

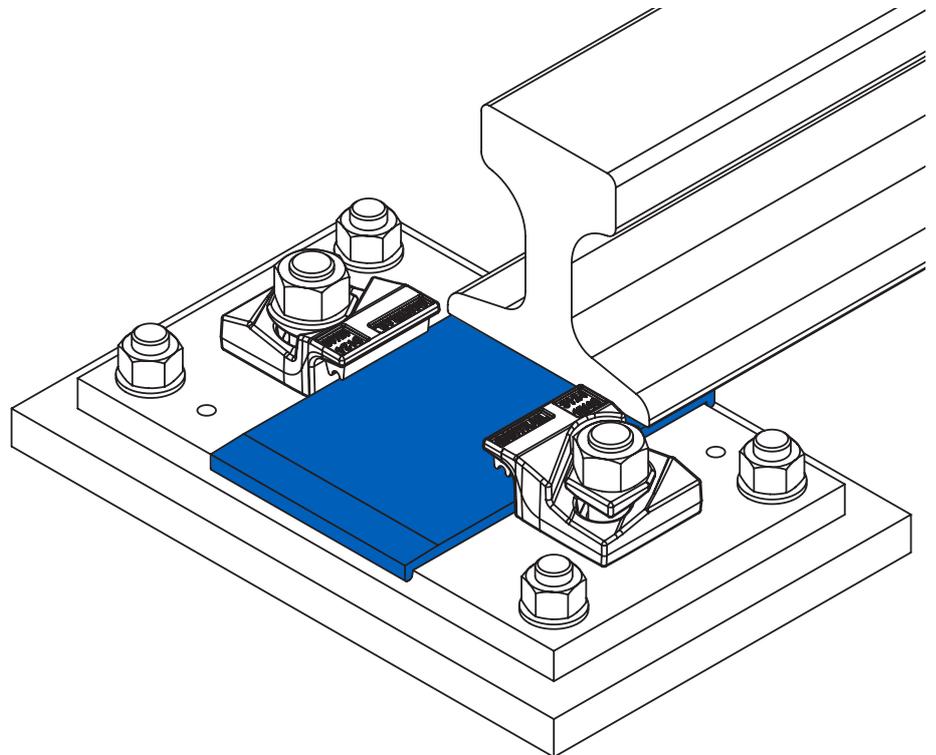
The Mark 2 pad:

Eliminates load concentrations and resultant fatigue stresses in the rail mounting.

Protects the crane mechanism and increases rail, wheel, bearing and axle life.

Reduces the wear of rail and support surface by eliminating fretting corrosion.

### DISCONTINUOUS SUPPORT

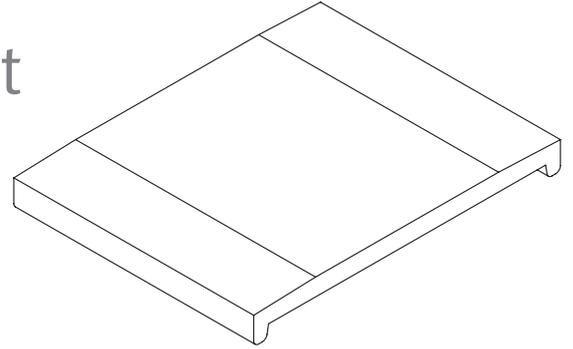


Gantrail can supply standard design details and technical information in support of all crane rail applications.

# Mark 2

## Gantrail Resilient Pad For Discontinuous Rail Support

Gantrail Mark 2 pads are manufactured from wear resistant durable thermoplastic that has elastomeric properties. They are unaffected by oil, grease or ultraviolet light. They have been tested to many times the design loads and show complete recovery. Tapered leading and trailing edges along the rail reduce edge loading on the sole plate and grout when the crane wheel is between sole plates.



Material	EVA copolymer
Temperature range	-25° to +75°C
Recommended maximum compressive stress <small>(Compressive stress is installation related and should be reduced above 50°C)</small>	15 N/mm <sup>2</sup>
Tensile strength (ISO R 527)	16 MPa
Elastic modulus (ISO R 527)	100 MPa
Elongation at break (ISO R 527)	750%
Shore hardness (ISO 868 A scale)	95

### RAILS FOR DISCONTINUOUS APPLICATIONS

Probably the most widely used crane rails in the world are the A sections to DIN 536:1981. These have a wide flange originally for riveting to girders but they are weak in vertical bending. They are not the best choice for discontinuous applications.

Excellent rails for light applications are railway rails. For heavier wheel loads taller rails are preferred e.g. QU70, ISCR100 and MRS87A.

### TYPICAL DISCONTINUOUS SOLEPLATE ARRANGEMENTS

	For vertical wheel loads up to 60kN	For vertical wheel loads up to 200kN	For vertical wheel loads up to 350kN
	Clips mounted on anchor bolts	Clips mounted separate to 2 anchor bolts	Clips mounted separate to 4 anchor bolts
	Gantrail 3116/10 clips	Gantrail 3120/15 clips	Gantrail 3124/15 clips
Plan view			
Front view			

THESE ARE ONLY TYPICAL EXAMPLES. THERE ARE A NUMBER OF POSSIBLE ARRANGEMENTS AND GANTRAIL CAN ADVISE ON THESE FOR YOUR SPECIFIC APPLICATION.

### INSTALLATION INSTRUCTIONS:

The installation method should ensure that the soleplates are level with the base of the rail. This is best achieved by levelling the rail and then bringing the sole plate plus pad, up to meet the bottom surface of the rail over its full area. Gantrail can advise as to suitable methods and supply.



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Certificate No. 5180

# Mark 5

## Gantrail Resilient Pad For Continuous Rail Support

www.gantrail.com



Mark 5

The use of Gantrail Mark 5 Crane Rail Pad between a rail and its support improves the performance of crane tracks. Cranes apply high forces to the structures on which they are mounted. The pad significantly reduces the stress between the rail and its support. The Gantrail pad is one of the three key ingredients in achieving a reliable track. These are:-

- Resilient Pad
- Strong, adjustable clips
- Continuously Welded Rail

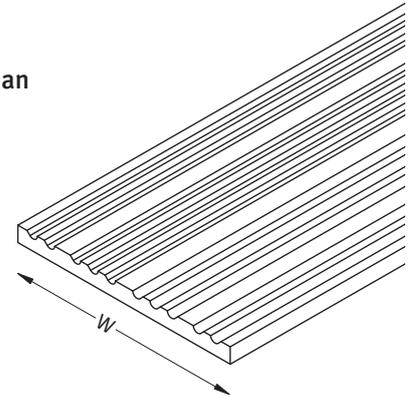
### SPECIFICATIONS:

The pad width should be nominally 5mm less than the rail foot width.

### DIMENSIONS:

PART No	W mm (Flat)
MK5-098	98

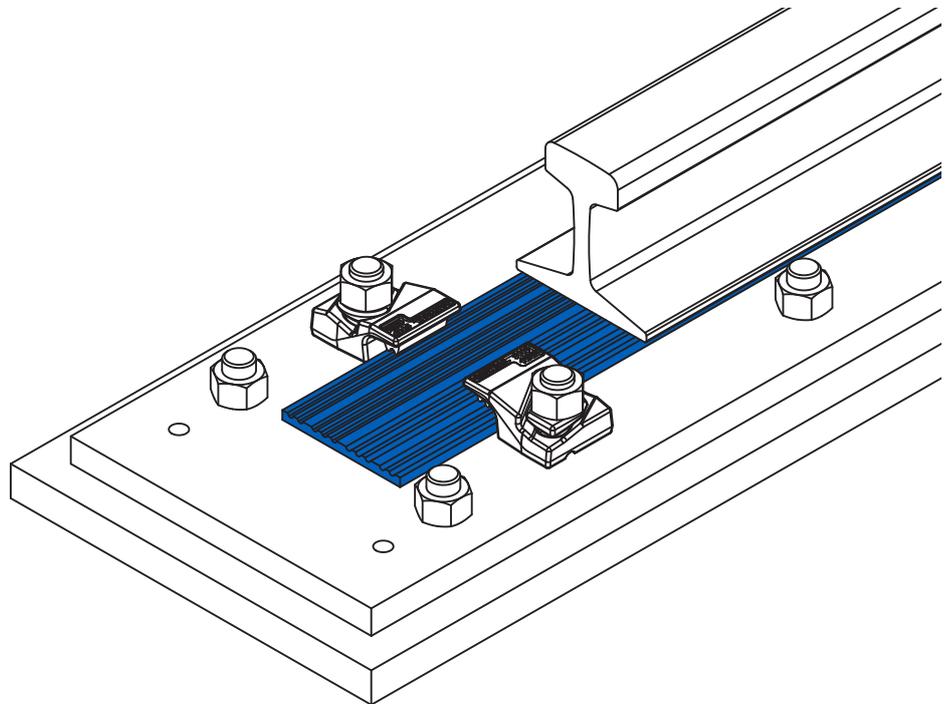
Gantrail flat pad is normally supplied in 12 metre lengths of the width shown but is also available in lengths and widths to suit customer specification. This may result in longer lead times – Please contact GANTRAIL for guidance.



### FEATURES

The Gantrail pad has been designed with a fluted top surface. This results in a two stage stiffness characteristic. On loading, the voids in the top allow the Gantrail clips to pre-compress the pad a small amount. On increasing the wheel loading, the voids are filled and the pad becomes stiffer. This ensures that the rail is not over stressed.

### CONTINUOUS SUPPORT

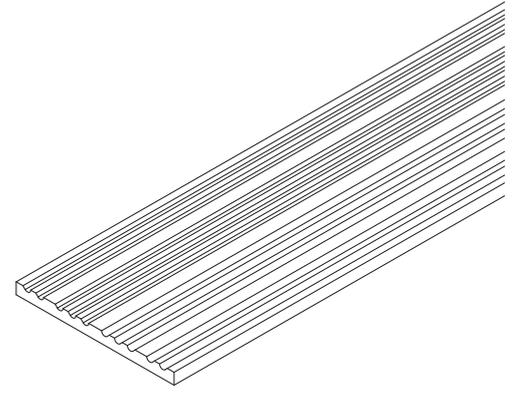


Gantrail can supply standard design details and technical information in support of all crane rail applications.

# Mark 5

## Gantrail Resilient Pad For Continuous Rail Support

Gantrail Mark 5 pads are manufactured from wear resistant durable vulcanised nitrile rubber. They are unaffected by oil, grease or ultraviolet light. They have been tested to many times the design loads and show complete recovery.

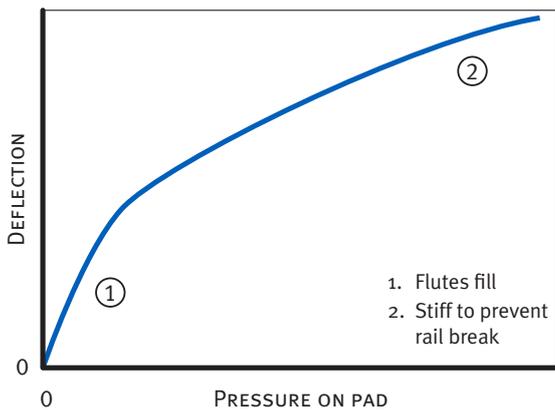


		After Ageing
Material	Nitrile rubber	
Shore hardness (ISO 48:1994)	75 ± 5 IRHD	75 ± 5 IRHD
Tensile strength (ISO 37:1994)	17.5 N/mm <sup>2</sup>	15 N/mm <sup>2</sup>
Elongation (ISO 37:1994)	305%	240%
Compression set (ISO 815:1991)	5% Max @ 23°C	
Rebound resilience (ISO 4662:1986)	27%	
Temperature range	-25°C to 100°C	

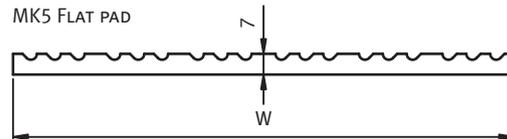
### PAD FOR CONTINUOUSLY SUPPORTED APPLICATIONS

Gantrail 'flat' pad is suitable for all applications where soft mounting is desirable. Historically, pad was provided 1.5mm thicker at the centre than the edges due to the concave shape of the base of some rails. It has been shown that there is no significant benefit in using this 'crowned' pad.

### STIFFNESS CHARACTERISTICS



### MARK 5 PROFILE



### INSTALLATION INSTRUCTIONS:

Rail pad should be narrower than the rail it is supporting (nominally 5mm). The pad is normally supplied in 12 metre lengths. The flutes of the pad are placed facing upwards. The pad may be cut to precise length of rail. It can be cut with a hacksaw or jigsaw. No installed length of pad should be less than the spacing between three pairs of crane rail fixing clips. Before installing Mark 5 pad, the supporting area should be clean and free of oil, grease or any projections likely to damage the pad. It is preferable that the steel structure below the pad is not painted. If the rail is to be welded the pad should be protected from excessive heat during welding by being removed under the weld or by being protected with a thermal barrier. Our technical department will be pleased to advise on the suitability of Mark 5 pad in specific installation conditions.

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Certificate No. 5180

Mark 5 Resilient Pad/ET/02/14

# Mark 7



## Gantrail Steel Reinforced Resilient Pad For Continuous Rail Support

www.gantrail.com

The use of Gantrail Mark 7 Crane Rail Pad between a rail and its support substantially improves the performance of heavy duty crane tracks. Cranes apply very high forces to the structures on which they are mounted. The pad significantly reduces the stress between the rail and its support. The Gantrail pad is one of the three key ingredients in achieving a reliable track. These are:-

- Resilient Pad
- Strong, adjustable clips
- Continuously Welded Rail

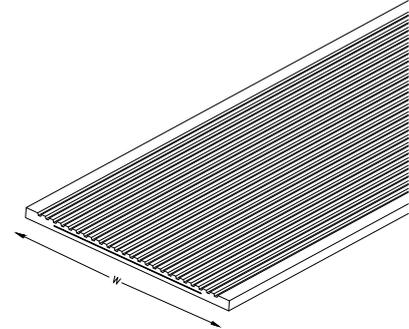
### SPECIFICATIONS:

The pad width should be nominally 5mm less than the rail foot width.

### DIMENSIONS

PART No	W mm (Flat)
MK7-098	98
MK7-118	118
MK7-128	128
MK7-134	134
MK7-147	147
MK7-157	157
MK7-168	168
MK7-195	195
MK7-215	215

\*Pad width may vary by  $\pm 5$ mm



Mark 7

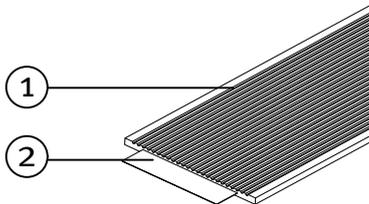
Gantrail flat pad is normally supplied in 12 metre lengths of the widths shown but is also available in lengths and widths to suit customer specification. This may result in longer lead times – Please contact Gantrail for guidance.

### FEATURES:

The Gantrail pad has been designed with a fluted top surface. This results in a two stage stiffness characteristic. On loading, the voids in the top allow the Gantrail clips to pre-compress the pad a small amount. On increasing the wheel loading, the voids are filled and the pad becomes stiffer. This ensures that the rail is not over stressed.

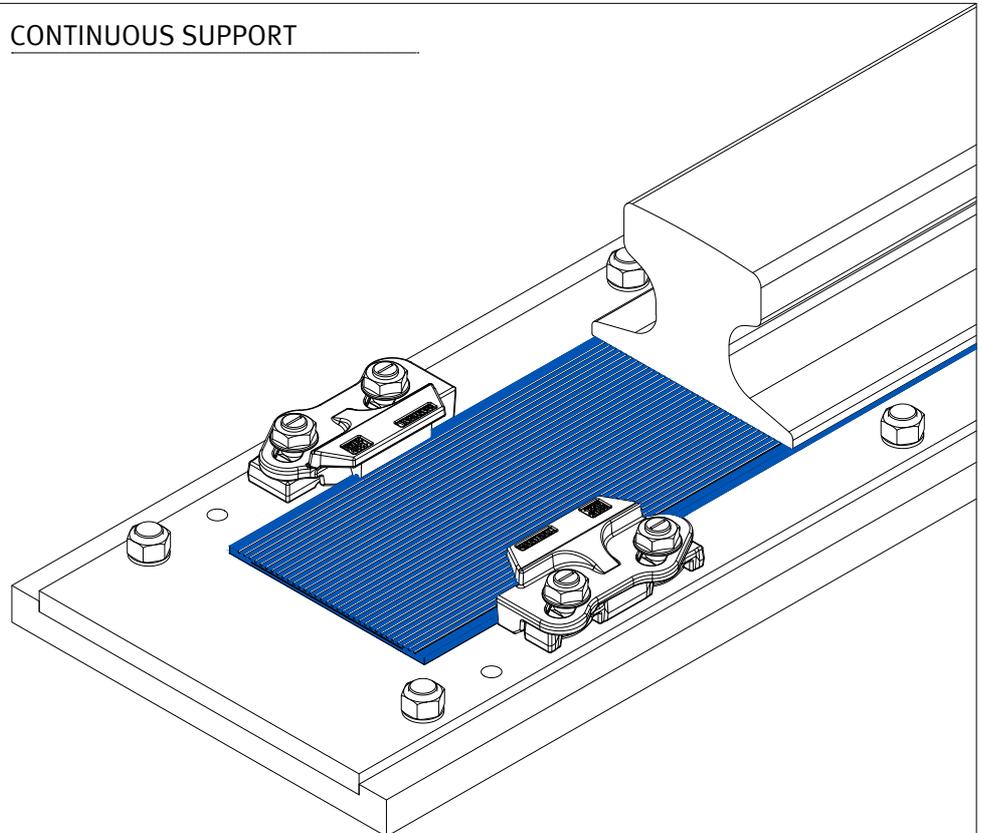
The pad is reinforced with a steel strip to ensure high lateral stiffness and prevent movement from below the rail.

### COMPONENTS



1. Resilient pad
2. Steel reinforcement

### CONTINUOUS SUPPORT

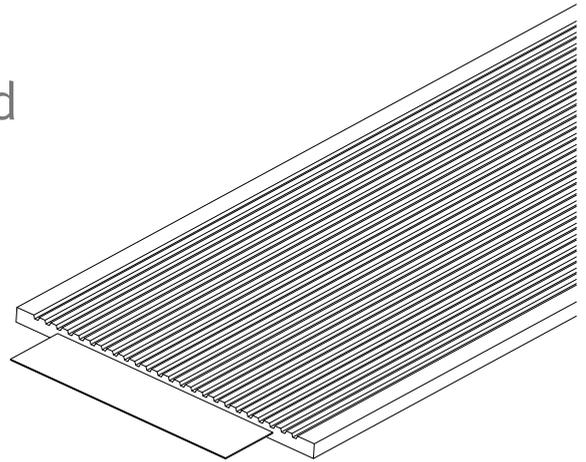


Gantrail can supply standard design details and technical information in support of all crane rail applications.

# Mark 7

## Gantrail Steel Reinforced Resilient Pad For Continuous Rail Support

Gantrail Mark 7 pads are manufactured from wear resistant durable vulcanised nitrile rubber. They are unaffected by oil, grease or ultraviolet light. They have been tested to many times the design loads and show complete recovery. The pad incorporates a bonded steel reinforcement strip which is encapsulated for protection against corrosion.

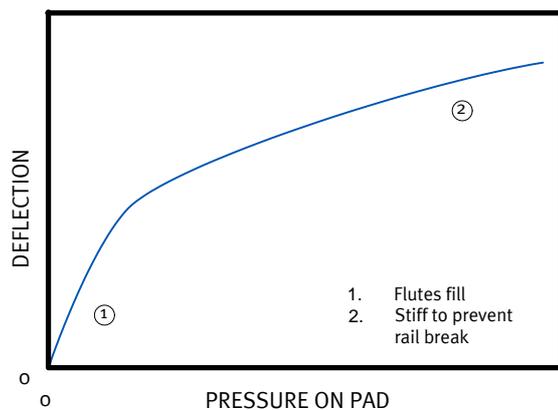


Material	Nitrile rubber	
Shore hardness (ISO 48:1994)	75 ± Shore A	
Tensile strength (ISO 37:1994)	10.5 N/mm <sup>2</sup>	Minimum
Elongation (ISO 37:1994)	200%	Minimum
Temperature range	-25°C to 100°C	
Oil resistance ASTM Oil No.2	Swelling 5%	Maximum

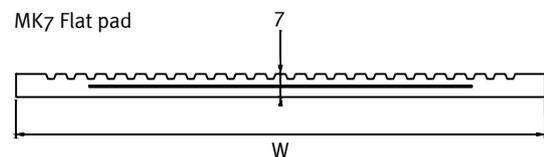
### PAD FOR CONTINUOUSLY SUPPORTED APPLICATIONS:

Gantrail 'flat' pad is suitable for all applications where soft mounting is desirable. Historically, pad was provided 1.5mm thicker at the centre than the edges due to the concave shape of the base of some rails. It has been shown that there is no significant benefit in using this 'crowned' pad but Gantrail offer it to meet some older specifications.

### STIFFNESS CHARACTERISTICS



### MARK 7 PROFILE



### INSTALLATION INSTRUCTIONS:

Rail pad should be narrower than the rail it is supporting (nominally 5mm). The pad is normally supplied in 12 metre lengths. The flutes of the pad are placed facing upwards. The pad may be cut to precise length of rail. It can be cut with a hacksaw or jigsaw. No installed length of pad should be less than the spacing between three pairs of crane rail fixing clips. Before installing Mark 7 pad, the supporting area should be clean and free of oil, grease or any projections likely to damage the pad. It is preferable that the steel structure below the pad is not painted. If the rail is to be welded the pad should be protected from excessive heat during welding by being removed under the weld or by being protected with a thermal barrier. Our technical department will be pleased to advise on the suitability of Mark 7 pad in specific installation conditions.

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Certificate No. 5180

# Mark 8

## Gantrail Steel Reinforced Resilient Pad For Continuous Rail Support

www.gantrail.com



**GANTRAIL**  
A world of crane rail expertise

UK patent application No GB141629.7

The NEW Gantrail Mark 8 pad is an evolution of the already proven and highly successful Mark 7 pad. The use of Gantrail Mark 8 Crane Rail Pad between a rail and its support substantially improves the performance of heavy duty crane tracks. Cranes apply very high forces to the structures on which they are mounted. The pad significantly reduces the stress between the rail and its support. The Gantrail pad is one of the three key ingredients in achieving a reliable track:

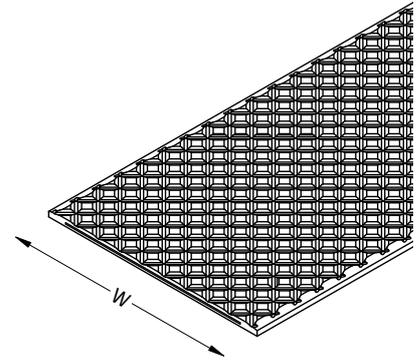
- Resilient Pad
- Strong, adjustable clips
- Continuously welded rail

### SPECIFICATIONS:

The pad width should be nominally 5mm less than the rail foot width.

### DIMENSIONS:

PART No	W mm (Flat)
MK8-098	98
MK8-118	118
MK8-128	128
MK8-134	134
MK8-147	147
MK8-157	157
MK8-168	168
MK8-195	195
MK8-215	215



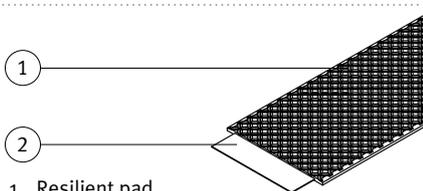
Mark 8

Gantrail pad is normally supplied in 12 metre lengths of the widths shown but is also available in lengths and widths to suit customer specification. This may result in longer lead times – Please contact GANTRAIL for guidance.

### FEATURES

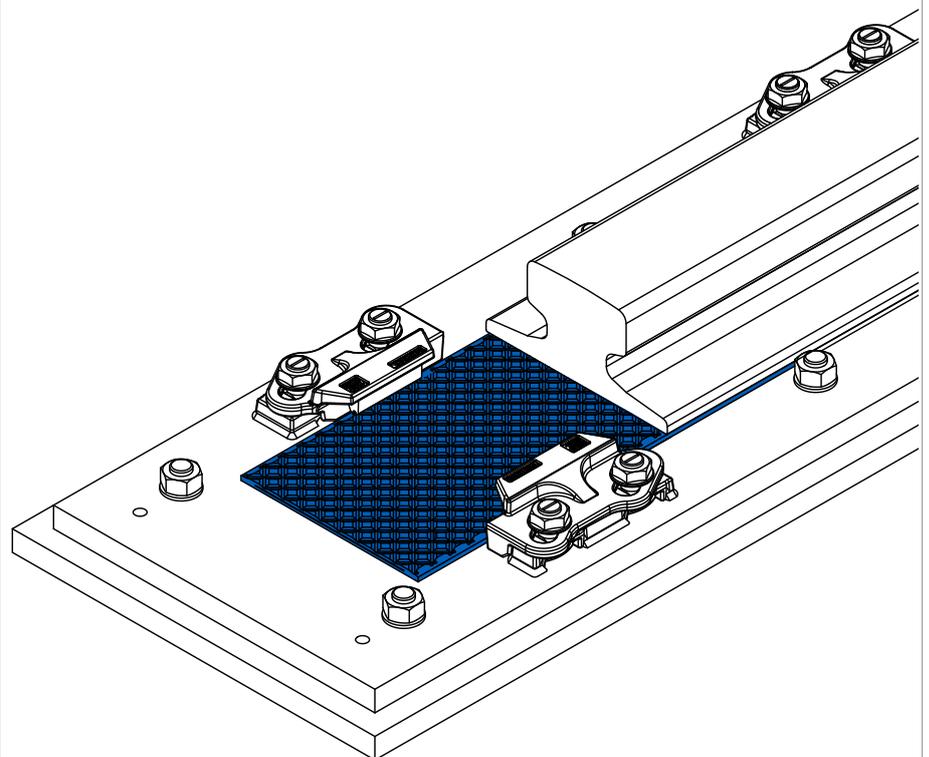
- The NEW Gantrail MK8 pad has a completely redesigned profile including a re-orientated flute pattern on its top surface.
- The fluted top surface results in a two stage stiffness characteristic. On loading, the voids in the top allow the Gantrail clips to pre-compress the pad a small amount. On increasing the wheel loading, the voids are reduced in size and the pad becomes stiffer. This ensures that the rail is not over stressed.
- The flutes now exit the sides of the pad so that as the voids are reduced in size during loading, any fluid is flushed out carrying with it debris and other contaminants.
- By orientating the flutes at an angle of 45 degrees, the resistance to lateral tearing induced by rotational forces from the rail, has also been vastly improved over the previous longitudinal flute design. This has the added advantage of improving the cross sectional area of the rubber along the edge of the steel reinforcement, improving resistance to rupture.
- The pad is reinforced with a high strength steel strip to ensure high lateral stiffness and prevent movement from below the rail.

### COMPONENTS



1. Resilient pad
2. Steel reinforcement

### CONTINUOUS SUPPORT

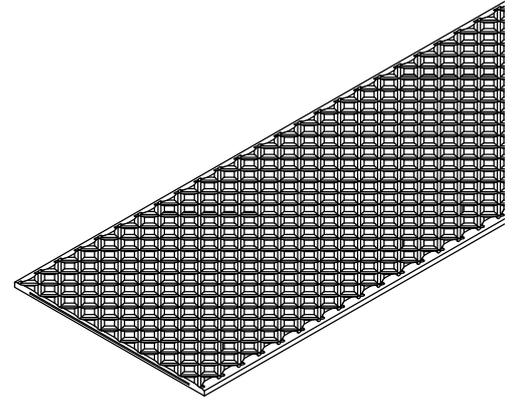


Gantrail can supply standard design details and technical information in support of all crane rail applications.

# Mark 8

## Gantrail Steel Reinforced Resilient Pad For Continuous Rail Support

Gantrail Mark 8 pads are manufactured from wear resistant durable vulcanised nitrile rubber. They are unaffected by oil, grease or ultraviolet light. They have been tested to many times the design loads and show complete recovery. The pad incorporates a bonded steel reinforcement strip which is encapsulated for protection against corrosion.

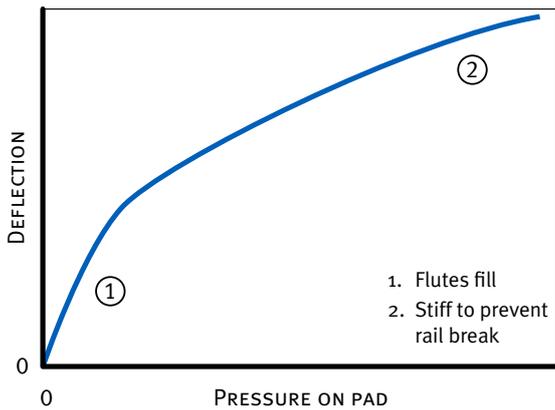


		After Ageing
Material	Nitrile rubber	
Shore hardness (ISO 48:1994)	75 ± 5 IRHD	75 ± 5 IRHD
Tensile strength (ISO 37:1994)	17.5 N/mm <sup>2</sup>	15 N/mm <sup>2</sup>
Elongation (ISO 37:1994)	305%	240%
Compression set (ISO 815:1991)	5% Max @ 23°C	
Rebound resilience (ISO 4662:1986)	27%	
Temperature range	-25°C to 100°C	
Oil resistance ASTM Oil No.2	Max swelling 10%	

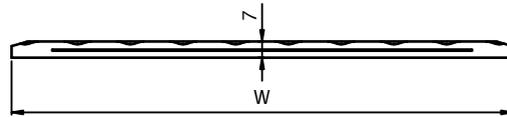
### PAD FOR CONTINUOUSLY SUPPORTED APPLICATIONS

Gantrail 'flat' pad is suitable for all applications where soft mounting is desirable. Historically, pad was provided 1.5mm thicker at the centre than the edges due to the concave shape of the base of some rails. It has been shown that there is no significant benefit in using this 'crowned' pad.

### STIFFNESS CHARACTERISTICS



### MARK 8 PROFILE



### INSTALLATION INSTRUCTIONS:

Rail pad should be narrower than the rail it is supporting (nominally 5mm). The pad is normally supplied in 12 metre lengths. The flutes of the pad are placed facing upwards. The pad may be cut to precise length of rail. It can be cut with a hacksaw or jigsaw. No installed length of pad should be less than the spacing between three pairs of crane rail fixing clips. Before installing Mark 8 pad, the supporting area should be clean and free of oil, grease or any projections likely to damage the pad. It is preferable that the steel structure below the pad is not painted. If the rail is to be welded the pad should be protected from excessive heat during welding by being removed under the weld or by being protected with a thermal barrier. Our technical department will be pleased to advise on the suitability of Mark 8 pad in specific installation conditions.

A world of crane rail expertise.

[www.gantrail.com](http://www.gantrail.com)



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