Parapet Bracket

Generic Method Statement
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Considerations / Guidance:

- This Method Statement is given as generic product information / guidance only.
- The Contractor must adopt its own site specific Method Statement to allow for all work activities associated with the particular conditions on site.
- The drawings used are for illustration purposes only. Site layouts of screens may differ and the project specific drawings should be referenced.
- Our products are continually developing. Please ensure you are using the latest issue of the generic Method Statement.
The Parapet Bracket system is suitable for the forming of bridge parapet's

The system has been designed to fix onto the existing parapet beam providing formwork to the parapet cantilever

Parapet Bracket System also incorporates edge protection.

This comprehensive Method Statement is provided for instruction in the safe use of the system, for typical applications.

This Generic Method Statement may be used to compliment a customers written Site Specific Method Statement, which will also include all local & specific risk assessment analysis not included here.

This Generic Method Statement should not be used as a substitute for the above.
Description of the Screen Saver system

1. Tie Support Fixing - Item code, ??
   Tie support fixing holds the Tie Rod and fixes to the parapet beam.

2. Concrete Tie Support Fixing - Item code, ??
   Tie support fixing holds the Tie Rod and casts into a concrete parapet beam.

3. Main Support Bracket - Item code, ??
   The Main Support Bracket fixes to the Column Arm. The Tie Rod then goes through and is secured holding the Parapet Bracket in place.

4. Tie Tube Cone - Item code, ??
   The Tie Tube Cone is positioned above the Tie Support Fixing and is fixed with the Tie Rod going through.

5. Tie Rod - Item Code, ??
   The Tie Rod as mentioned above goes through the Tie Tube Cone where it will then be fixed and tightened to the correct length.
   At the lower end of the Tie Rod, it is fixed into the Main Support Bracket.

6. Pivot Bracket for Column Arm - Item code, ??
   The Pivot Bracket attaches the horizontal Column Arm to the vertical Column Arm. The Pivot Bracket also allows for angled adjustability.
Description of the Screen Saver system

7. Corner Brace - Item code, ??
The Corner brace supports the vertical column arm acting as an edge protection barrier along with the other fixings.

8. Column Arm, SF137 - Item code, ?? & SF100 - Item code, ??
The Column Arm is the main beam that forms the frame of the Parapet Bracket System.

9. RSK Prop Bracket - Item code, ??
RSK Prop Bracket fixes to the Column Arms, this then provides a point to attach the RSK.

10. Scaffold Tube - Item code, ??
The Scaffold Tube fits over the spanner, the Spanner can then be tightened then loosened adjusting the parapet bracket position.

11. Spanner - Item Code, ??
The Spanner attaches to the Tie Tube Cone. When used it tightens/ loosens the Tie Rod through the Tie Tube Cone.

12. PVC Tube - Item code, ??
The PVC Tube slides over the Tie assembly creating a seal against the concrete.
13. RSK's - Item code, ??
   The RSK push pull props give the flexibility in the system, attaching to the RSK Prop Brackets which are in turn fixed to the Column Arms.

14. Main Support Pin and R-Clip - Item code, ??
   The Main Support Pin and R-Clip are used on the Parapet Bracket as Lifting Points and can be fitted in locations which suit the center of gravity.

15. EPS Bracket for square tubes - Item code, ??
   The EPS Square post bracket allows fixing of the Ischebeck type EPS post.

16. EPS Bracket for circular scaffold tubes - Item code, ??
   The EPS Circular post bracket allows fixing of scaffold tubes for Scaffold EPS arrangements.
Assembly of the Parapet Bracket System

On site assembly:
The Parapet Bracket system can be also assembled from scratch on site. See page 7 for bolt configurations and sizes, the main components of the Parapet Bracket will be delivered separate and can be bolted together to the correct fittings and angle for the job.

Once the frames have been completed, stand the brackets upright against the parapet beams.

With the brackets propped, they can then be fixed onto the bracket

Off site assembly:
The Parapet Bracket system can be part pre-assembled off site in Ischebeck Titans Yard ready for delivery to site.

Pre assembly of Parapet Brackets will consist of the following main parts:
- Column Arms - SF100 & SF137
- Main connections to the Column Arms (RSK Prop Brackets and Pivot Brackets)
- RSK

These components can all be assembled off site but will require adjustment on site to suit the job.
Possible loading options
Assembly of the Parapet Bracket System

Option 2

Option 3

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Stage 1

Fix the Tie support fixing to the parapet.
Tie support fixings are welded to the steel beam, check the fixings are in the correct position along the parapet span.

Note: Welding of the Tie Support Fixing by site.

Tie Support Fixing

Concrete Tie Support Fixing
Stage 2

Assemble the Parapet Bracket main frame. Bolt together the Column Arms, then all other fittings can be added before the lift.

- R-clip & Pin
- M16x40
- M30x90
- M16x90 for RSK
- M16x50
- RSK 3
- SF137
- SF100
- SF100
- SF100
- M16x90 for RSK
- R-clip & Pin

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EPS Options

There are 2 options for the Edge Protection System on the Parapet Bracket, one is the EPS Post, Panels and Bracket. Second is the Column Arm, T150 beam and Ply.

Option 1: EPS Post in bracket fixed on top of Column Arm holding EPS Panels.

Option 2: Column Arms fixed onto the end of Column Arm with T150 Beams running down the length supporting Plywood.
Stage 3 - (option 1 for lifting)

Option 2: Instead of lifting the frames up to the steel girder, the frames can be installed on ground level and the steel girder can be lifted into place with the parapet brackets attached.

Once the frames are fixed into position with the tie rod, the steel girder can be lifted up to the bridge (see next stages).

Client to do a test lift on bracket to determine center of gravity. The calculated center of gravity is shown on the scheme drawing.
Stage 3 - (option 2 for lifting)

With the parapet bracket frame assembled, the whole setup can now be lifted up to the steel girder.

Lift the Parapet bracket frame using the pre-fixed M30x90 Bolt.

Client to do a test lift on bracket to determine center of gravity. Calculated center of gravity shown on scheme drawing.
Stage 4

Engage tie rod into the main support bracket. Ensure thread is fully inserted and visible from below (see Detail A).

Whilst holding the square end of the tie rod, use the spanner to wind the tube cone and position the frames to approximately 20mm below the required level, (safe access by client).

Place lorry straps (wind tie) on frame where required to prevent uplift from wind etc.

- See next page for tie rod assembly procedure
-Stage 4 continued...

Tie rod assembly procedure

1. Support bracket welded to bridge parapet and inspected.

2. Grease bracket seat.

3. Main support bracket, part of parapet assembly.

4. Grease and insert Tie rod through bracket.

5. Slide 22mm tube over Tie rod.

6. Ensure Tie rod is fully engaged through support boss by 100mm.

7. Screw on Tie tube cone. Nut at upper end. Conical end to bottom.

8. Using special spanner, tighten the Tie tube cone to set Parapet bracket into correct position.

9. Grease Tie tube cone outside.

10. Slide 63mm PVC tube over Tie tube cone.

11. Spray small amount of expanding foam inside 65mm tube, around bottom of Tie tube cone and Tie support fixing to form seal.

Concrete must not get inside 65mm tube.
Stage 5

Fix all aluminium beams into correct positions from job specific drawings.

NOTE: 2 No. Titan clamps required for each intersection.

Lace member on vertical arm possibly required depending on the job.
Stage 6

Fix deck plywood and ensure pockets are left for lifting points/ wind straps.
Client to ensure safe access.

NOTE: Ensure 50mm gaps are left on both sides for ply infill between platforms.
Stage 7

Use the spanner to tighten the Tie rod pulling it through the tube cone until the platform has reached the correct level.

Hold the tube cone to prevent it spinning and loosening.

Lift the steel girder up to the correct position on the bridge when all parapet brackets are attached.

Hold spanner with the scaffold tube to prevent the Tie Bar from releasing.

Timber Sleeper

Ground
Rotate the RSK props to ensure the correct level.

Now the Parapet Brackets are in the correct position, the concrete can be poured.

Rotate RSK to make any adjustments to the platform if required.
Dismantling Stage 1

Firstly, now the concrete is at a suitable strength, remove wind tie via access from a MEWP or similar from below.

Next, lower the bracket slightly (around 20mm) to allow removal of the plywood infill strips.

Client to manage the risk of dropping objects.

Attach the Lifting Hook and then Install Edge Protection System ready for removal of the Parapet Brackets.
Stage 2

With the crane hook/lifting straps attached and take the strain from the Tie Rod then remove.

Remove Tie Rod once the strain has been taken by the crane and lifting equipment.

Position the pin and crane lifting point as close to the center of gravity as possible.
Stage 3

With the crane attached, lower the bracket down to ground level.

Lower Parapet Brackets to ground one by one.
Stage 3

- Lower the bracket down to ground level.

Ensure suitable base on ground floor to reduce risk of damaging the Parapet bracket when lowered onto the ground for dismantling.
Parapet bracket adjustability

The parapet brackets allow flexibility on the design to suit the weight being supported and also to avoid any obstacles.

![Diagram showing parapet brackets and beam layouts](image-url)
Ischebeck Titan Group
Founded in Germany over 120 years ago, Ischebeck is renowned internationally for its aluminium formwork and false work systems, trench support systems and ground engineering products.

Ischebeck Titan Ltd
The company operates from headquarters centrally located in the heart of the UK.

Product Availability
Substantial stocks of equipment are available ex-stock from the company's strategically located 4-acre distribution site, with most items available nationwide on a 48-hour delivery. Products are available for both hire and outright purchase.

Technical Support
We will participate in concept stage development. Providing input on applications, production rates, budget design and costings. Active for on site support, particularly for new users. We can provide guidance on industry special European and national standards.

HEAD OFFICE
John Dean House
Wellington Road
Burton upon Trent
Staffordshire DE14 2TG
Tel: 01283 515677
Fax: 01283 516126
E-mail: sales@ischebeck-titan.co.uk

NORTHERN REGIONAL OFFICE
& DESIGN OFFICE
Hollinwood Business Centre
Albert Mills Albert Street
Hollinwood Oldham OL6 9QP
Tel: 0161 6824732
Fax: 0161 684 3603
E-mail: technical@ischebeck-titan.co.uk

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