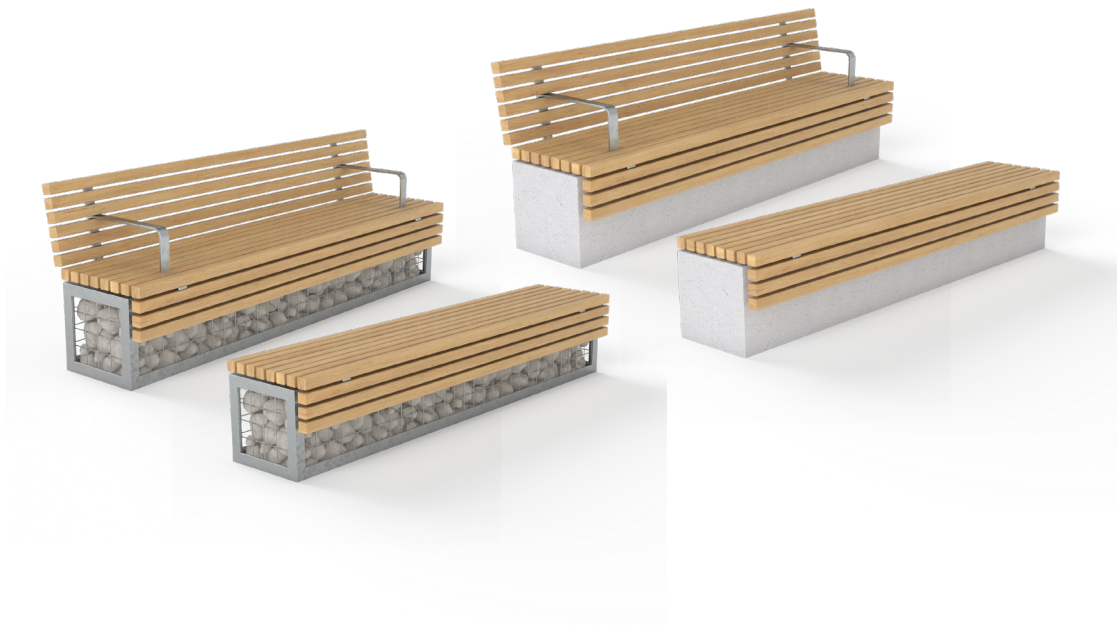
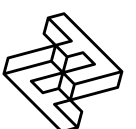


# FACTORY FURNITURE



## Tord Wall Bench & Seat (Inc. Gabion)

### OPERATION & MAINTENANCE MANUAL



# Introduction

## Design

Design, shop drawings and development by  
Factory Furniture Ltd.

## Manufacture

Factory Furniture manufactured components. Products are assembled in Factory workshops, checked and dispatched ready for installation. Replacement products or components thereof should be ordered direct from Factory Furniture Ltd.

## Copyright

The design copyright for the product and drawing copyright remains the sole property of Factory Furniture Ltd.

# General Specifications

## Bench (Wall)

*Metric* L 2300mm | W 475mm | H 230mm\*

*Imperial* length 7' 6½" | width 1' 6½" | height 9"\*

*\*Recommended seat height - 450mm (1' 5½")*

**Approx Weight** 67kg

**Fixing Centres** 1800mm (5' 11") x 185mm (7½")

## Seat (Wall) (with back and armrests)

*Metric* L 2300mm | W 595mm | H 585mm\*

*Imperial* length 7' 6½" | width 1' 11½" | height 1' 11"\*

*\*Recommended seat height - 450mm (1' 5½")*

**Approx Weight** 109kg

**Fixing Centres** 1800mm (5' 11") x 185mm (7½")

## Bench (Gabion)

*Metric* L 2300mm | W 475mm | H 450mm

*Imperial* length 7' 6½" | width 1' 6½" | height 1' 5½"

**Approx Weight** 132kg

**Fixing Centres** 1500mm (4' 11") x 335mm (1' 1")

## Seat (Gabion) (with back and armrests)

*Metric* L 2300mm | W 595mm | H 805mm

*Imperial* length 7' 6½" | width 1' 11½" | height 2' 7½"

**Approx Weight** 174kg

**Fixing Centres** 1500mm (4' 11") x 335mm (1' 1")

# Detailed Material & Finish Specifications

## Seat Slats (Also Backrest slats - TORD wall seats only)

- Manufactured from FSC® certified tropical hardwood
- Slats are profiled and left untreated as standard (oil or microporous woodstain treatment available on request)
- Slats screwed to bench / seat frame (4 no. fixing points per slat)

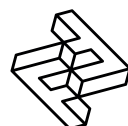


## Frame Assembly

- Manufactured from mild steel (all welded construction). Frame is hot dip galvanised
  - 2 off frame assemblies per bench / seat
  - Anchored to base through frame using M10 x 30mm button head bolts:
    - For 'Wall' version these bolt into M10x125mm stainless steel anchor inserts resin fixed into wall / plinth\* (4 no. per bench / seat)
    - For 'Gabion' version these bolt directly into gabion base (4 no. per bench / seat)
- \* Please note: Wall / plinth is not included as standard - supplied by others

## Gabion Base (Gabion versions only)

- Manufactured from mild steel RSA and 75x75mm aperture Ø5mm wire mesh. All welded construction and hot dip galvanised finish
- Anchored to ground using 4 off M10 x 75mm sleeve anchors
- Please note: Gabion infill stone is not included as standard - supplied by others



# General Maintenance

(Recommended Schedule & Guidelines)

## **Daily/Weekly/Monthly** (or as adopted)

Visual checks of bench / seat top, back and frame - check all items for superficial or physical damage.

## **Three Monthly**

Clean all items as detailed below check all fixings are seated correctly; inspect timber for serious damage and splinters.

## **Six Monthly**

Secure all fixings; full clean as detailed below; check that bench / seat is firmly secured to the plinth / wall or gabion.

# Specific Maintenance Details

## **FSC Timber**

Clean with a stiff brush once per year, especially in more exposed locations, in order to prevent a verdigris type build up on the timber surface. Ideally this should be completed in early spring. During the cleaning stage, all exposed timber surfaces should be inspected for splits and splinters. Any splinters and graffiti should be removed and the surface sanded with 100 grit sandpaper in order to remove any uneven / sharp edges or surfaces.

*During the first few months after installation the tannin naturally occurring in the timber may leach out and cause a brown staining on the bases. This may be removed with a light solution of household bleach and water.*

## **Galvanised**

For general cleaning using a damp cloth and warm soapy water only. Scourers and abrasive cleaners are NOT suitable for this type of finish and may damage it. Before using any cleaning agents to remove graffiti etc. try on a small, inconspicuous area first to avoid causing more unsightly damage.

# Repairs

## **FSC Timber**

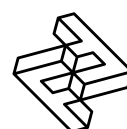
For light damage, please see section on specific maintenance details above. For instances of heavy damage, the timber item should be replaced. Please order against the part number reference in the reordering section towards the end of this manual.

## **Galvanised Surfaces**

For light damage to hot dipped galvanised finishes repair using a high performance cold galvanising zinc spray (70% zinc or above). Spray application should be carried out in accordance with approved methods detailed by the product manufacturer. Please note that it is advisable to use professional painters to achieve best results when touching up larger areas.

## **Heavy Damage**

In the event of serious damage to any component, replacements should be ordered from Factory Furniture Ltd. Should further assistance be required (or if the product needs to be disassembled for any reason), please contact Factory Furniture for detailed technical advice.

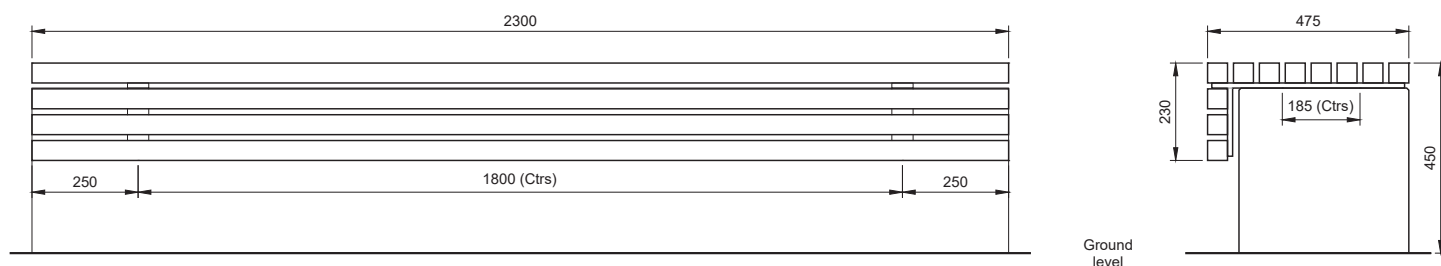


# Installation Instructions

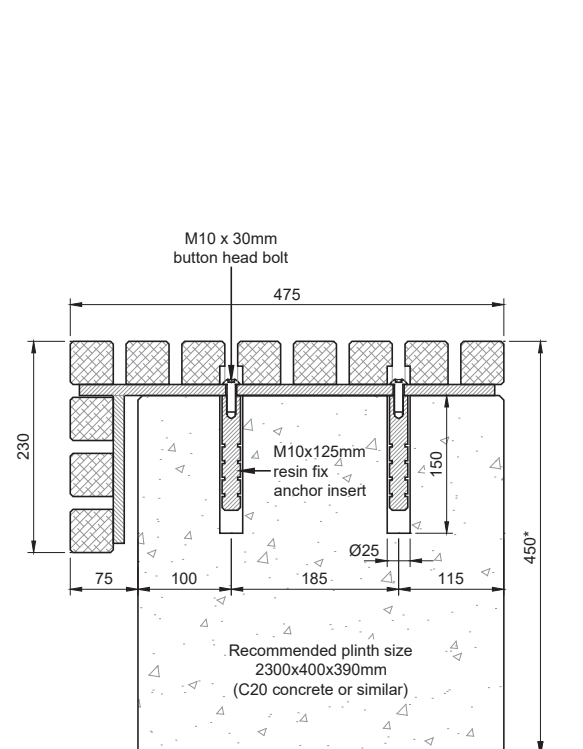
**All installation works to be carried out by competent personnel - install as complete unit.**

## Tord Wall Bench / Seat

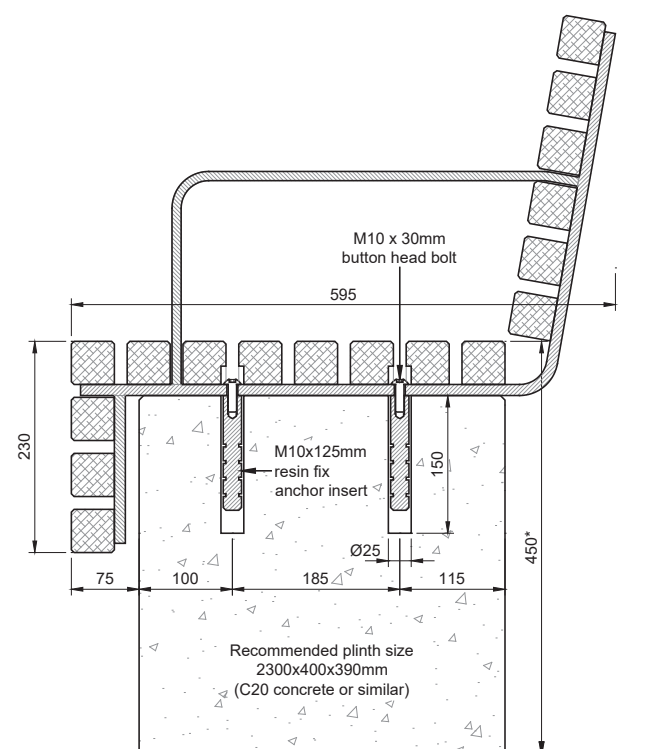
1. Install suitable plinth / wall (see illustration for recommended minimum plinth dimensions)
2. Screw stainless steel resin anchor inserts onto concealed M10 x 30mm bolts protruding through frame. Anchors should be finger tight. (4 anchors per bench / seat).
3. Place bench / seat in desired position on plinth / wall (balanced on anchor inserts). Carefully mark around anchors to obtain hole positions
4. Remove bench / seat; drill holes 25 dia. x 150mm deep; clear debris from holes.
5. Ensure at this stage that anchors bolts are loosened - allow about 2mm play to allow for final tightening once the resin has cured.
6. Fill the holes in the plinth / wall to within approximately 50mm from the top with Hilti HY150 resin (or similar).
7. Lift the bench / seat (with resin anchors in place) and carefully lower the anchors into the holes, leave for two hours before tightening (or as per manufacturer's instructions).
8. Once resin has cured: tighten anchor bolts to securely fasten down bench / seat. (Concealed anchor bolts are accessible for final tightening through the gaps between the slats.)
9. Check level



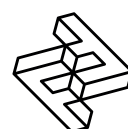
*Tord Wall Bench (same fixing centres for seat)*



*Bench base fix detail*



*Seat base fix detail*

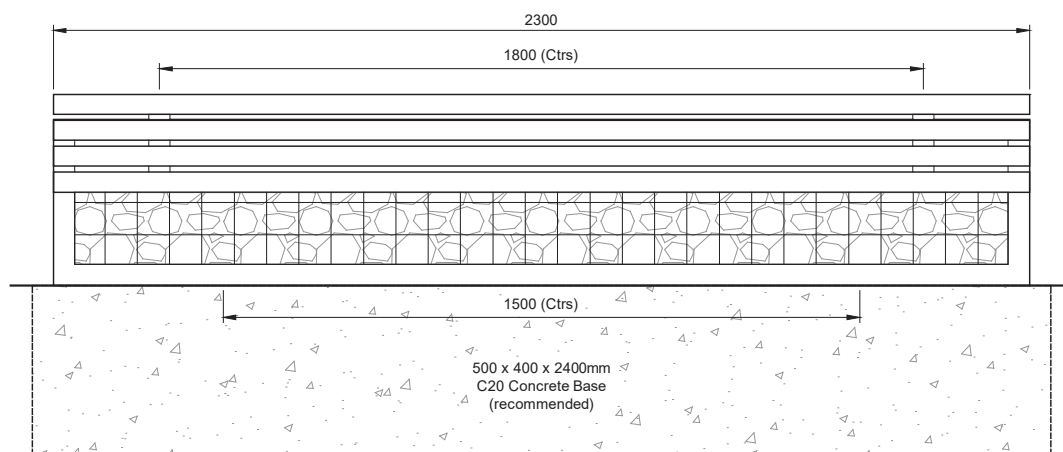


# Installation Instructions

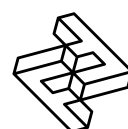
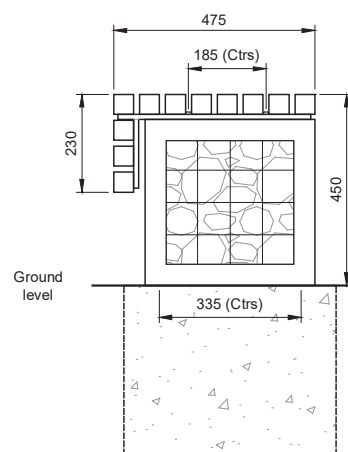
**All installation works to be carried out by competent personnel - install as complete unit.**

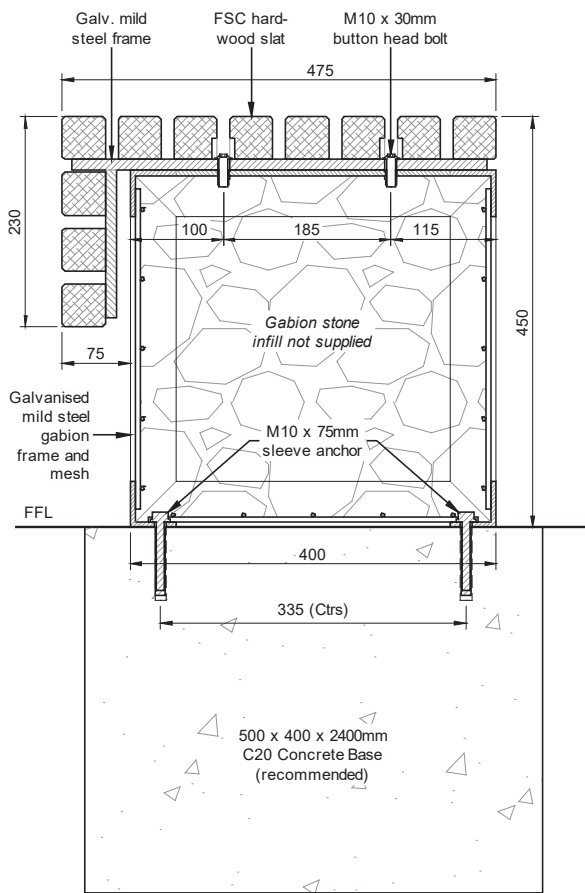
## Tord Gabion Bench / Seat

1. Install suitable foundation pad (see illustration) with top face at ground level
2. Position gabion base (empty and with bench / seat removed) in desired location and with base placed centrally on foundation pad then mark hole positions onto pad
3. Remove the base; drill holes  $\varnothing 12\text{mm} \times 75\text{mm}$  deep (or as bolt manufacturer's recommendations)
4. Clear debris from holes
5. Reposition base and fix to foundation pad using 4 no. zinc-coated M10 x 75mm sleeve anchors tightened to 50Nm (or as per manufacturer's instruction). Ensure base remains level during fixing process
6. Fill gabion base with gabion stone (supplied by others) to a level approx. 20-40mm below the top of the base
7. Reattach bench / seat unit using 4 off M10 x 30mm concealed button head bolts accessible through the gaps between the slats)

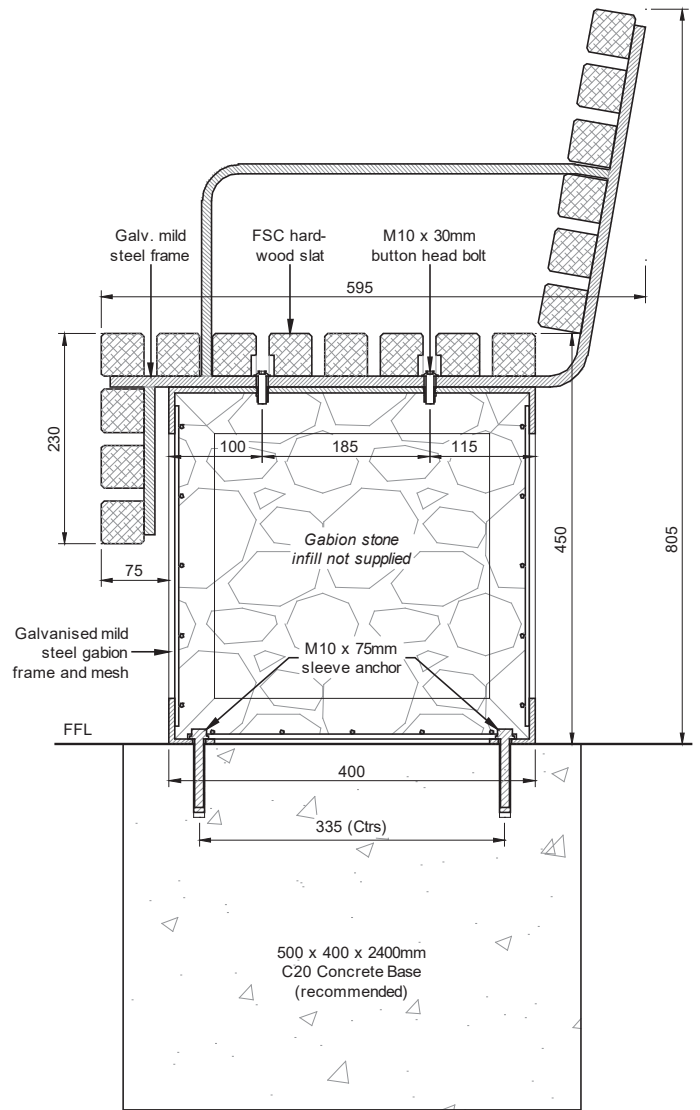


*Tord Gabion Bench (same fixing centres for seat)*





*Bench base fix detail*



*Seat base fix detail*

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