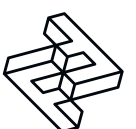


FACTORY FURNITURE



Chronos Bench (90°, 69° & Straight)

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

90° Bench

Metric length 1980mm | width 770mm | height 450mm*
Imperial length 6' 6" | width 2' 6½" | height 1' 5½"

*Not including +100mm below ground level for sub-surface fix option

Approx Weight 58kg

Fixing Centres 875mm (2' 10½") x 140mm (5½")

69° Bench

Metric length 1590mm | width 665mm | height 450mm*
Imperial length 5' 2½" | width 2' 2" | height 1' 5½"

*Not including +100mm below ground level for sub-surface fix option

Approx Weight 48kg

Fixing Centres 875mm (2' 10½") x 140mm (5½")

Straight Bench

Metric length 1100mm | width 510mm | height 450mm*
Imperial length 3' 7½" | width 1' 8" | height 1' 5½"

*Not including +100mm below ground level for sub-surface fix option

Approx Weight 41kg

Fixing Centres 560mm (1' 10") x 140mm (5½")

Detailed Material & Finish Specifications

Seat Slats

- Manufactured from FSC® certified tropical hardwood or FSC certified oak (*other FSC timber options available upon request*)
- Profiled and left untreated as standard (*oil or microporous woodstain treatment available on request*)
- Attached to frame with 2 no. fixing lugs per slat



Frame & Bases

- Manufactured from stainless steel - satin polished finish
- Anchored using 2 no. resin fixed M10 x 130mm threaded rods and cap nuts per base (surface fix) or 2 no. zinc-coated steel M10 x 75mm sleeve anchors per base (sub-surface fix)

General Maintenance

(Recommended Schedule & Guidelines)

Daily/Weekly/Monthly (or as adopted)

Visual checks of seat top, back and bases - 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 seat/bench is firmly secured to the ground

Specific Maintenance Details

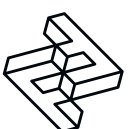
FSC Timber

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.

Stainless Steel (polished stainless steel only)

Clean as required, but at least every three months, using a stainless steel polish and a lint free cloth. To remove ground in dirt, a stainless steel finishing pad may be required.



Repairs

FSC Timber

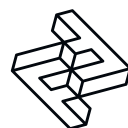
For light damage, please see section on specific maintenance details above. For instances of heavy damage, the timber item should be replaced. Please order against the part number reference in the reordering section towards the end of this manual.

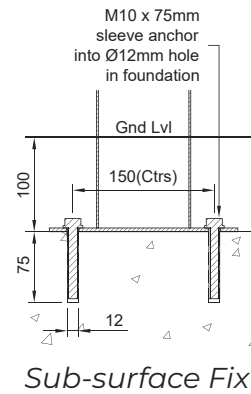
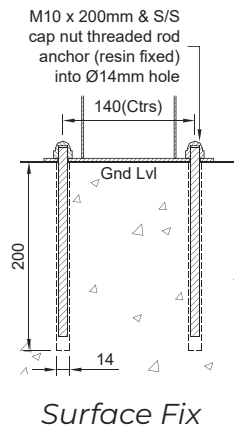
Stainless Steel

Light damage (surface scratches etc.) can be removed using an emery pad (240 grit) and freeing oil such as 'WD40'. Care should be taken to follow the direction of the brushing grain. It is recommended that a trial repair be carried out on an unimportant surface first. No corrosive cleaners or other abrasives should be used. Any contamination, particularly carbon steel scuffs from vehicles, should be quickly removed to avoid corrosion.

Heavy Damage

In the event of serious damage to any component, replacements should be ordered from Factory Furniture Ltd. In this event (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.

Chronos Bench (surface & sub-surface fix)

1. Install suitable foundation pads (see illustration) each with top face at ground level or 100mm below finished ground level for sub-surface fix
2. Unpack pair of bases and attach to the bench top assembly using 2 no. M10 x 25mm button headed hex bolts & locknuts per base (4 no. total per bench) and tighten to 14Nm
3. Position bench in correct orientation with bases centrally on foundation pads, then mark hole positions through base plates. If multiple benches are being connected then fix benches together (see below) temporarily whilst marking base positions to guarantee alignment.
4. Remove the bench; drill holes Ø14mm x 200mm deep (surface fix) or Ø12mm x 75mm deep or as manufacturer's instructions (sub-surface fix).
5. Clear debris from holes.
- 6.a (*Surface fix*) Fill the holes to within approximately 35mm from the top with Hilti HY150 resin (or similar). Lift the seat (with threaded anchor rods/

capnuts in place) and carefully lower the anchors into the holes, leave for two hours before using.

- 6.b Using a torque wrench, tighten nuts and washers over flange plates to 30Nm to fasten down the bench.
7. (*Sub-surface fix*) Reposition bench unit and fix to foundation pads using 2 no. zinc-coated M10 x 75mm sleeve anchors per base tightened to 50Nm (or as per manufacturer's instruction). Ensure bench remains level during fixing process.
8. Check level & re-instate ground level if necessary (sub-surface fix).

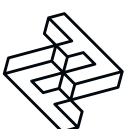
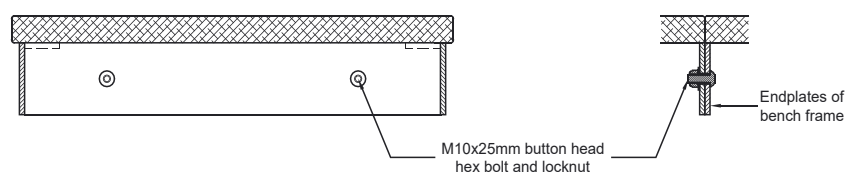
IMPORTANT NOTE

Ensure that stainless steel is protected during site cutting of stone – contamination from disc cutters will produce corrosion on stainless steel components

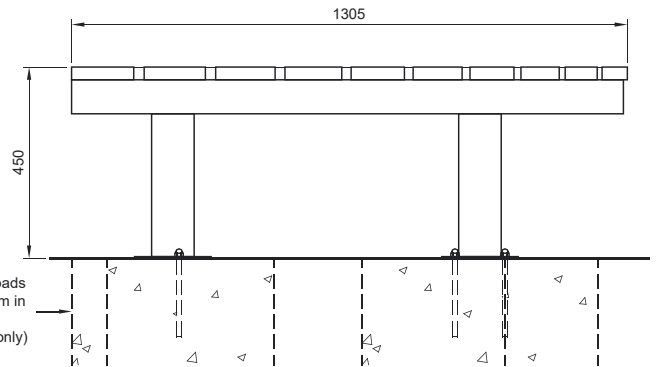
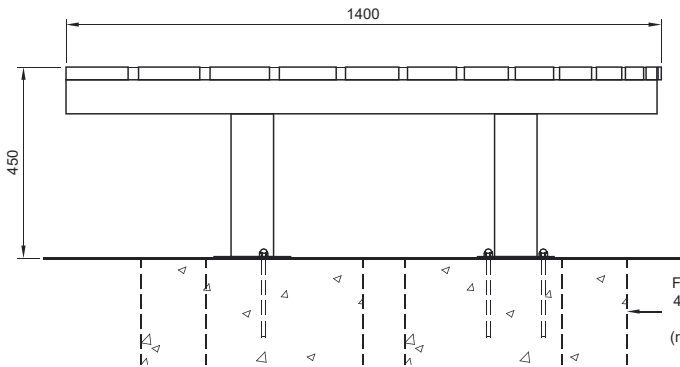
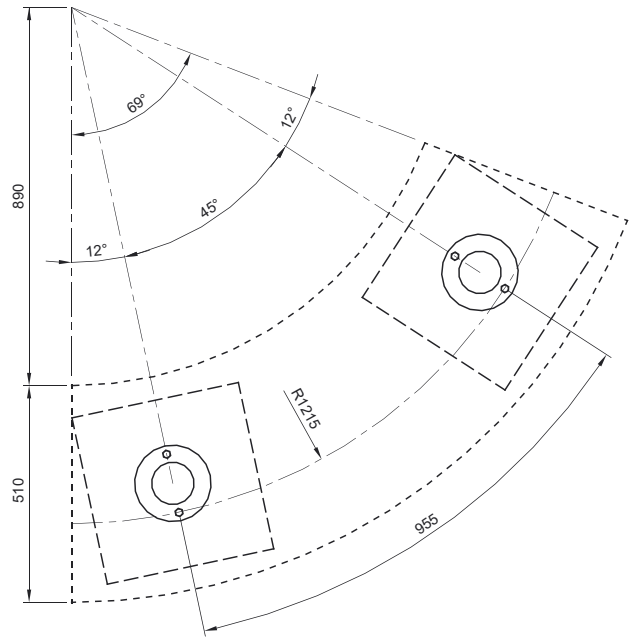
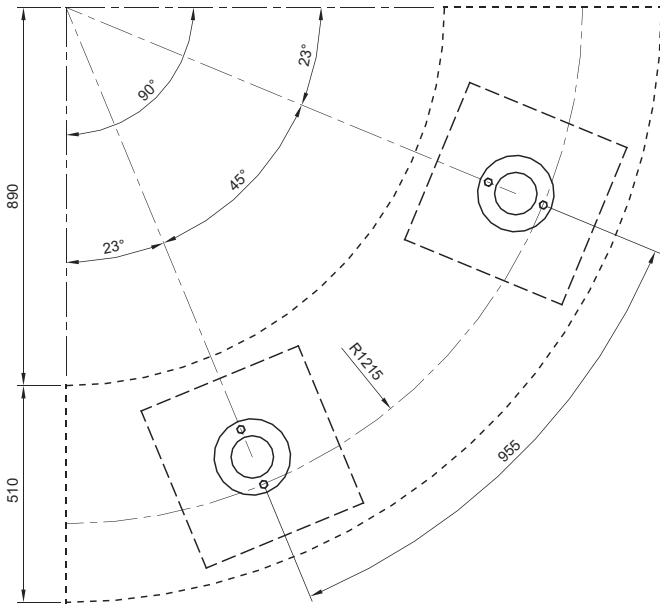
Chronos Bench

(Connecting bench modules together)

1. Fix bench modules together with 2 no. M10 x 25mm button headed hex bolts and locknuts through the pre-drilled holes in the bench frame..



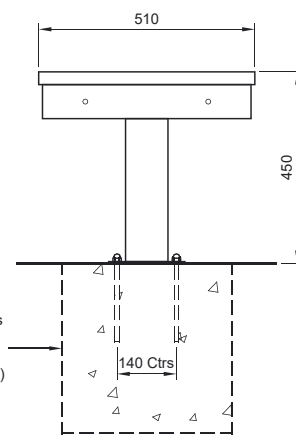
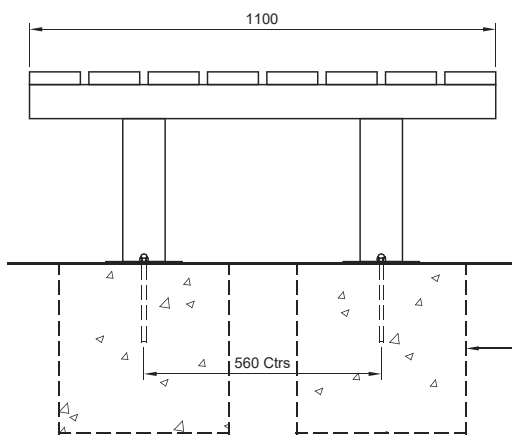
Installation Setting Out Drawings



Foundation 2 no. pads
400 x 400 x 400mm in
C20 concrete
(recommendation only)

Chronos 90° Bench Module

Chronos 69° Bench Module



Foundation 2 no. pads
400x400x400mm in
C20 concrete
(recommendation only)

Chronos Straight Bench Module

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