



Fixings Installation Instruction Manual

Glasdon Buildings, Housings & Shelters



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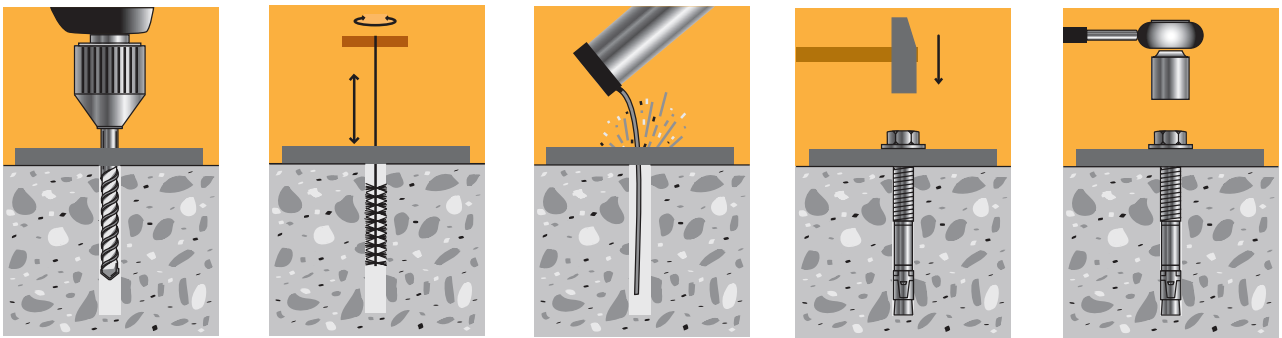
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Expanding Anchor Fixing Instructions

THROUGHBOLT ANCHORS -

For Glasdon Product Ranges: Beacon, Consul, Warrior and Boxer.

For optimum fixing performance the following procedure is recommended.



All products are to be positioned on a flat, steel float finish, level, square and preferably raised concrete base.

The concrete base should be of a minimum 25N/20mm mix strength equivalent of BS. 5328, Section 2, Part 10, Grade C25.

Using the supplied unit as a template, drill through all base fixing positions with a 10mm diameter masonry drill to a minimum depth of 140mm.

Clean drill hole thoroughly using a spiral brush and remove all dust using a blow out pump, airline or similar.

Push the anchor through the fixture and into the drill hole. This is an interference fit anchor and may require tapping by a hammer.

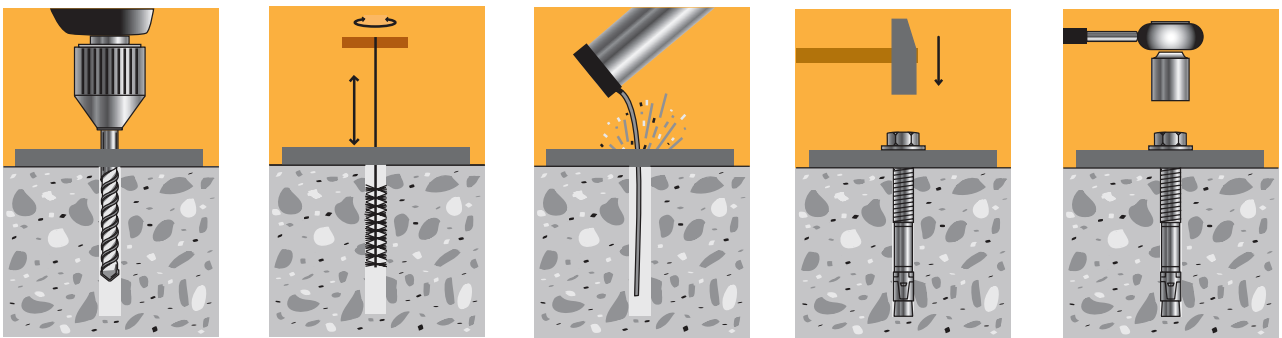
Once fully seated, tighten using torque wrench to 30Nm. Once the correct setting is reached, the anchor is set and the fixture load may be applied.

Expanding Anchor Fixing Instructions

HI LOAD ANCHORS -

For Glasdon Product Ranges: Fortress, Garrison, Hermit, Cadet, Carleton, Carleton 50, Bi-Rak, Bi-Store, Bi-Port, Bi-Stander, Bi-Shelter, Bi-Safe, Bikeminder, Modus Shelter and Aero Shelter.

For optimum fixing performance the following procedure is recommended.



The base should be flat, steel float finished, level and square and preferably be raised slightly above the surrounding ground level.

The concrete base should be of a minimum 25N/20mm mix strength equivalent of BS. 5328, Section 2, Part 10, Grade C25.

Using the supplied unit as a template, drill through all base fixing positions with the correct size of masonry drill and to the depth shown in the table below.

Clean drill hole thoroughly using a spiral brush and remove all dust using a blow out pump, airline or similar.

Push the anchor through the fixture and into the drill hole. This is an interference fit anchor and may require tapping by a hammer.

Once fully seated, tighten using torque wrench set to the appropriate setting as shown in the table below. Once the correct setting is reached, the anchor is set and the fixture load may be applied.

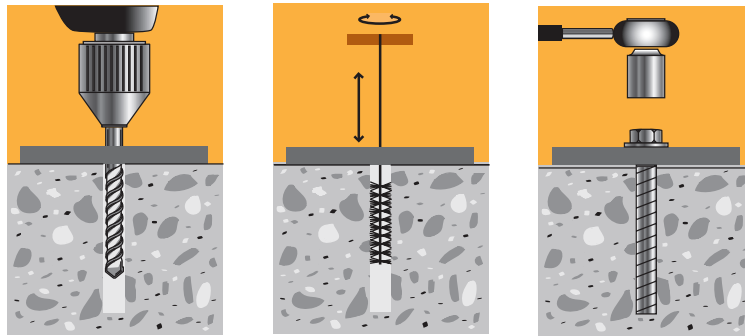
Thunder Bolt Fixing Instructions

THUNDER BOLTS -

For Glasdon Product Ranges: Ranger, Defender and Citadel*.

* For **Concrete-In Fixing Instructions**, see page 6.

For optimum fixing performance the following procedure is recommended.



All products are to be positioned on a flat, steel float finish, level, square and preferably raised concrete base.

The concrete base should be of a minimum 25N/20mm mix strength equivalent to BS. 5328, Section 2, Part 10, Grade C25.

Using the supplied unit as a template, drill through all base fixing positions (noted overleaf) with an 8mm diameter masonry drill to a minimum depth of 80mm. For Citadel, spot the holes first, then move the cabinet away before drilling.

Clean drill hole thoroughly using a spiral brush and remove all dust using a blow out pump, airline or similar.

Replace the Citadel cabinet over the drilled fixing holes.

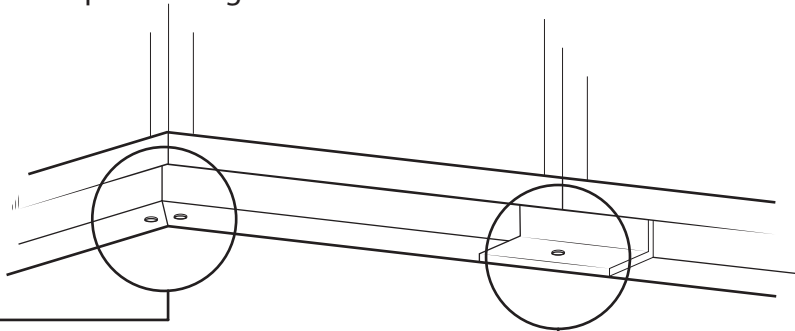
Insert the Thunderbolt fixing and washer into the drilled hole and tighten with Socket and Wrench Set.

Thunder Bolt Fixing Instructions

THUNDER BOLTS -

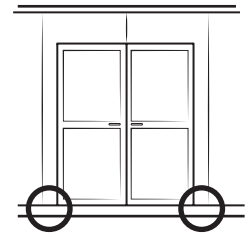
For Glasdon Product Ranges: Ranger, Defender and Citadel.

DEFENDER - Required fixing locations.



Fix through both holes in corner sections.

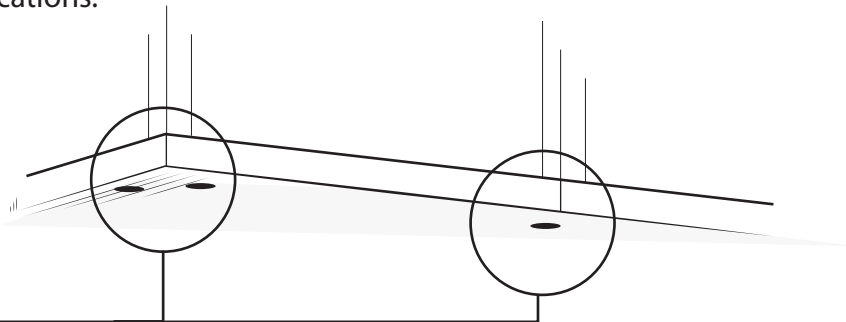
Fix through all holes in bracket sections.



Please Note: Additional ground fixings are required at the outer corners of double doors.

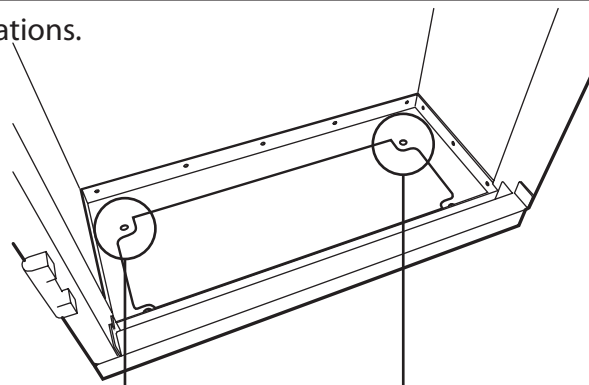
Use the nearest hole centres to the hinge of the double doors.

RANGER - Required fixing locations.



Remove black fixing caps, drill through floor and ground fix.

CITADEL - Required fixing locations.



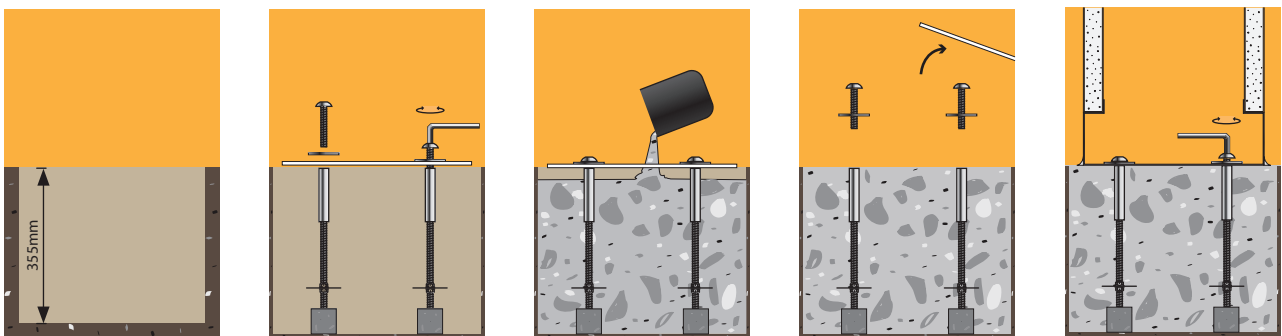
Fix through all holes on base section.

Adjustable Concrete-In Fixing Instructions

ADJUSTABLE CONCRETE-IN FIXING -

For Glasdon Product Ranges: Citadel

For optimum fixing performance the following procedure is recommended.



Prepare a hole with a minimum base size 100mm greater than the overall size of the Citadel. Ensure a depth of 355mm deep.

Assemble anchor kit as shown on image 2.

Place anchor kit into the prepared hole and ensure the underside of the Locator Plate is level with ground level. Place support blocks under the ends of the fixings if necessary.

The concrete base should be of a minimum 25N/20mm mix strength equivalent to BS. 5328, Section 2, Part 10, Grade C25. Pour concrete mix into the hole up to ground level (Locator Plate to sit flush on concrete).

The Locator Plate is to be removed once the concrete sets so do not cover the Plate with concrete.

Once the concrete sets remove locator plate by unfixing screws and washers with allen key, leaving the concrete-in fixings exposed.

Place Citadel over the concrete-in fixings in the concrete then fix down with the screws and washers.

Evenly apply mastic seal around the perimeter of the Citadel base. Make sure ground is dry when applying sealant.



The table below shows the recommended drill diameter, hole depth and installation torque for the Glasdon Buildings and Housings.

PRODUCT RANGE	DRILL DIAMETER	HOLE DEPTH	+/-inst Nm Torque
Fortress, Hermit, Cadet, Carleton 50, Bi-Shelter, Bi-Safe, Bikeminder	12mm	100mm minimum	30
Garrison, Bi-Stander	12mm	120mm minimum	30
Bi-Rak, Bi-Store, Bi-Port	15mm	140mm minimum	50
Modus Shelter	18mm	105mm minimum	80
Aero Shelter	18mm	140mm minimum	80
Beacon, Consul, Warrior, Boxer	10mm	100mm minimum	30
Ranger, Defender, Citadel	8mm	80mm minimum	30



Go online at www.glasdon.com and look up your building/housing for instructional videos.

