

Pull Test Statement for Anchor Testing on Site

(This is for anchors tested either by ourselves or by the manufacturer)

Summary of Contractor Requirements

Pre-conditions

- All anchors to be installed by the contractor prior to testing. Our Advanced CFA tester will only install anchors on site if pre-arranged (an additional charge may apply).
- Chemical resin anchors should be installed a minimum of 24 hours prior to testing.
- All access equipment and any tools required to be provided by the contractor.
- The contractor is to inform the testing representative in advance if any site induction is required and also inform them of any specific site requirements they will need to adhere to.

General Comments

- All testing to be witnessed by a representative of the company requiring the test.
- The testing representative must be accompanied at all times by a representative of the contractor.
- Testing will be non-destructive and not carried out to failure.
- For each fixing type the CFA require a minimum of 3 tests for proof loads and 5 tests to establish a load.
- We can't test life dependant fixings, eg anchors that will be used for supporting a harness. This requires a specialist test to a different BS:EN standard.
- The maximum waiting time prior to testing on site is 30 minutes, after this the test will be cancelled and will need to be rebooked at an additional charge.
- Test to be carried out from a fixed platform or mechanical lift (arranged by the contractor). If a mechanical lift is used this will need to be operated by a qualified user.
- Under no circumstances will any anchor be tested using a ladder or steps.
- A safe means of access and egress is to be provided by the site contractor. If our tester doesn't feel a site is operating safely, they will leave and will only return once the highlighted issues are resolved.
- In case of any emergency involving our tester, please contact our head office on 01322 274226.

If on arrival everything is not in place for the tests to be carried out, after the first 30 minutes spent on site, we reserve the right to contra-charge up to £100 per hour.

Summary of Our Test Representatives' Requirements

Pre-conditions

- Correct PPE to be worn in accordance with the site requirements, but will be minimum of hi-vis vest, safety boots, hard hat, safety specs and gloves.
- Our tester will read and follow appropriate site signage, as well as follow any specified safe working procedures highlighted to them.
- Upon attending a site, our tester will make themselves aware of key emergency and welfare locations such as emergency exits, meeting point and toilet facilities.
- Our tester will be aware of possible environmental issues and will dispose of any waste accordingly / removing it from site where appropriate.

Test Method Statement

- Testing to be conducted by a certified CFA regulated tester. Certificate available on request.
- Testing to be carried out using either Hydrajaws or Enerpac test meter. Calibration certificate is available on request.
- The test meter will be attached to the fixing in a way that ensures any failure that occurs is in the anchor or the substrate.
- The test meter will be supported by a load spreading bridge to ensure even distribution of the reaction load.
- Loads will be recorded together with any movement or mode of failure and a report issued to the person or company requesting the test.
- The test meter will be loaded at a steady rate and anchors observed for any sign of movement or distress.
- The anchors will be tested to a load determined by the person requesting the test.
- Our representative conducting the test will have the final say when the test is terminated.

This statement does not relieve the site or any operative from their responsibilities and obligations under any Health and Safety Legislation.

Printed: John French	Signed: <i>John French</i>
Position: Certified CFA Advanced Anchor Tester	

Methodology for Testing and Possible Installation

Testing to be carried out in accordance with the recommendations of BS8539 for the selection and installation of anchors in concrete and masonry. The Anchor being tested, base material and number of tests undertaken will be as per the [Anchor Test Request Form](#) completed by the contractor. As a guide:

Proof Testing: 1.5 x applied Load⁺

Suitability Testing: 3 x Applied Load⁺ (*Metal Anchors*)

**Note 'Applied Load' must not exceed the manufacturers Safe Working Load.*

PPE To Be Worn:

- Hi-Vis Vest / Jacket
- Safety Helmet with Chin Strap (EN14052)
- Safety Specs (EN166)
- Protective Gloves (Polyurethane Palm)
- Boots (Lace Up with Ankle Support, Mid Sole Protector and Steel Toe Cap)
- Two Point Safety Harness, where required when working at height (EN361)
- Ear Defenders (EN352-1)*
- Face Mask (FFP2 or above)*

Equipment To Be Used

- Model 2000 Hydrajaws Tester (for further information see final pages of this document)
- Makita18v Drill SDS/Combi*
- Small Tool Bag including; Socket Set, Stop Drill / Drill Bits, Blow Out Pump, Setting Tool, Torque Wrench, Hammer etc.*
- Tool Lanyard (Tether) when working at height

**Only if undertaking pre-arrange anchor installation or are warranted by site conditions.*

Our Tasks for Undertaking Testing:

1. Ensure all PPE and equipment is correct.
2. Sign in to site and meet with the contractor's representative.
3. Follow advised access routes to specified work area.
4. Carry out visual assessment of work area to ensure it's safe to commence work (this will be carried out for the duration of the test in case conditions change).
5. Checks made to access equipment to ensure it's safe to use. This includes having a qualified operative for moving the platform into the required position.
6. All tools / equipment to be set out to allow safe usage.
7. Where necessary a harness will be worn or lanyard (tether) attached to tools / equipment to ensure safe working at height.
8. Testing will commence, with the correct loads applied to the required anchors.
9. The tester will apply a clear pass or fail sticker, taking photos of both the test gauge and sticker for the anchors test report.
10. When testing is complete a full round up of all tools and equipment will be made to ensure that the work area is tidy and free of hazards.
11. Leave the site using the correct access route, signing out before exiting.

Our Tasks for Undertaking Installation:

Any installation must only be undertaken by an CFA Advanced Tester and be pre-arranged.

As per tasks above (prior to testing), but with the addition of:

1. Final checks made to drill / drill bit to ensure they are suitable for use.
2. Ensure any other persons on site are at a safe distance prior to drilling the required holes (ensuring all PPE is being worn).
3. Once drilling is complete, put the away to ensure it's not trip hazard.
4. Installation of anchors to commence using correct equipment i.e. stop drill, setting tool, torque wrench (correct torque specified by manufacturer).
5. Once all anchors are installed, the installation equipment will be put away to keep the area tidy and eliminate hazards.

Testing to commence as per tasks highlighted above.

Risk Assessment Method Statement

All reasonable precautions will be undertaken to mitigate the risk to our tester and any other people on site.

ACTIVITY	PERSON AT RISK	SIGNIFICANT HAZARDS	RISK			RISK CONTROL MEASURES	RESIDUAL RISK*		
			L	S	DR		L	S	DR
Manual Handling	Tester	Back Strain	1	3	3	No objects will be carried that cause excessive strain. Relevant equipment and manual handling training will be provided to mitigate the risk of over loading.	1	3	1
Noise	Tester	Hearing Damage	3	3	9	Ear Protection in accordance with EN352-1 will be worn on site where required.	1	3	1
Dust	Tester	Lung Damage	3	2	6	The correct Category of face mask (at least FFP2) will be worn based on site conditions.	1	2	1
Plant and Machinery	Tester	Collision	2	1	2	The work area should be clear of any plant or heavy machinery to avoid the risk of collision. If this is not possible then the area of work should be cordoned off with a supervisor provided to ensure safety.	1	1	1
Construction Site Work	Tester	Collision	2	4	8	If general construction tasks are being carried out close to the work area, then a supervisor must be present during the testing to identify and nullify any dangers.	1	4	1
Use of a Podium, Mechanical Lift or Scaffold	Tester / Persons Below	Falling / Tripping	2	2	4	Correct procedures for using podiums mechanical lifts or scaffolds must be adhered to at all times, also correct footwear must be worn and clothing should not obstruct movement. Podiums and scaffolds should only be used if erected by a trained and competent person. All access equipment to be supplied and erected by the contractor.	1	2	1
Testing with Hydrajaws Jig	Tester / Persons Below	Misuse of Jig	2	1	2	When working overhead one hand must be kept on the jig whilst keeping it at arm's length to avoid moving parts. Use of safety glasses is recommended and lanyard from wrist to the jig.	1	1	1
Testing with Hydrajaws Jig	Tester	Parts Shearing from the Jig	1	1	1	Regular maintenance of the jig from the manufacturer and checking the jig thoroughly before use.	1	1	1

Testing with Hydrajaws Jig	Persons Below	Dropping of Small Parts / Tools	3	1	3	Ensure that nobody is standing in a proximity where falling parts could strike them.	1	1	1
HAVS	Tester	Vibration White Finger	3	2	6	The amount of time dedicated to installation will be kept to a minimum and will be by pre-arrangement only. All Tools will be used in accordance with the manufacturers guidelines in accordance with HAV.	1	2	1
Drilling Holes	Tester	Dust Inhalation	5	3	15	The amount of time dedicated to installation will be kept to a minimum and will be by pre-arrangement only. Where required the correct category face mask or breathing apparatus must be used.	1	3	1
Drilling Holes	Tester	Dust in Eyes	5	5	25	The amount of time dedicated to installation will be kept to a minimum and will be by pre-arrangement only. The correct eye protection, that meets the current and required EN regulations for the specific task must be worn.	1	5	1
Drilling Holes	Tester	Noise	5	2	10	The amount of time dedicated to installation will be kept to a minimum and will be by pre-arrangement only. Correct ear protection to be worn when carrying out drilling on site at all times.	1	2	1
Visibility	Tester	Trip Hazards / Falling	1	4	4	Ensure the work area is clearly lit, including escape routes.	1	4	1
Working Close to Edge	Tester	Falling	1	5	5	Ensure all necessary precautions are taken when working close to edges i.e. protective barriers are in place, harnesses are worn (if required), remove trip hazards and avoid slippery surfaces.	1	5	1
Walking Around Site	Tester	Trip Hazards / Wet Floors	2	3	6	Correct footwear and other PEE to be worn at all times, with any areas viewed too dangerous to enter being highlighted to the contractors' representative or a site supervisor.	1	3	1

LIKELIHOOD (L) = Frequent (5) - Probable (4) - Occasional (3) - Improbable (2) - Remote (1)

SEVERITY (S) = Catastrophic (5) - Major (4) - Reportable (3) - Serious (2) - Minor (1)

Degree of Risk (DR) = LIKELIHOOD x SEVERITY

* Residual risk is the levels of risk that remain, after suitable and sufficient control measures are introduced

Fixmart Technical Representatives

fixEXPERT.

All Fixmart technical representatives are either CFA Approved or CFA Advanced Testers. They are continually trained to provide technical support with regards to fixing specification, product selection, product demonstrations and anchor testing. Correct anchor installation procedures are a key part of this training, so please contact us for any Tool Box Talk requirements.

The Construction Fixings Association (CFA) represents the major manufacturers of fixing systems which are set in drilled holes in all construction materials including Concrete, Brickwork, Blockwork, Stonework and Plasterboard.

As an Approved Distributor and Associate Member of the CFA Fixmart adheres to their high standards of Customer Service, Technical Support and Commercial Integrity.



Our CFA Advanced Tester also holds:

- IPAF (International Powered Access Federation) – Their PAL (Powered Access Licence) allows for operating Mobile Elevating Work Platforms (MEWPs).
- CSCS (Construction Skills Certification Scheme) - CSCS cards provide proof of the appropriate training and qualifications for working on construction sites, helping to improve standards and safety.



Anchor Testing Equipment Used

www.fixmart.co.uk | anchor.testing@fixmart.co.uk | 01322 274226

The equipment used by our technical representatives for undertaking anchor testing is a Hydrajaws M2000 PRO Tester Kit. The M2000 PRO Tester Kit is trusted worldwide for carrying out testing procedures in line with BS 8539, BS 7883:2019, BS EN 795:2012 and AEFAC-TN05.

Key features:

- A 0-25kN Dual Scale rechargeable digital gauge.
- 2020 Load spreading bridge with height adjustable legs, pin arrangement in four positions and swivel feet that provide 15mm of fine adjustment.
- Turning Handle with 22mm (7/8") integrated nut allowing use in confined spaces.



The kit contains everything our representative will need for direct measurement of the load applied to a fixing up to a maximum tensile load of 25kN (5620lbf). The Hydrajaws M2000 PRO Tester Kit includes the adaptors below, enabling a comprehensive range of fixings to be tested:

- M12 ringbolt adaptor clevis.
- Bolt tester adaptor with M12 locking adaptor.
- M16 & M20 threaded stud adaptors.
- Six slotted button adaptors: 4.5, 5.5, 6.5, 8.5, 10.5 and 12.5mm.
- Six threaded button adaptors: M4, M5, M6, M8, M10 and M12.

Test results will be recorded on an official Fixmart Anchor Test Report which will be submitted to the relevant parties on completion along with supporting evidence.