

## Report on site tests carried out by

Vision Midlands Ltd, Hill Top  
Works, Pool Street Swadlincote.  
DE11 8EG  
An Associate Member of the  
Construction Fixings Association  
Approved Tester Scheme.

The tests reported on here have been carried out generally in accordance with the recommendations of:-

**Construction Fixings Association Guidance Note: Procedure for site testing Construction Fixings – 2012**, as called up in

**BS 8539:2012 Code of practice for the selection and installation of post-installed anchors in concrete and masonry.**

Any exceptions are noted in the report.

### Competent tester

The tests were carried out by a Competent Tester as accredited by the CFA and shown on our page on the CFA website at [www.the-cfa.co.uk](http://www.the-cfa.co.uk) – Approved Testers.

### Terms used, meanings and notation

The list below shows those the terms use in the report - **in bold** – with their meaning (and origin) and equivalent terms sometimes used in the industry, plus with the notation used in the report.

Terms use (Equivalent terms)	Meaning	Notation*
<b>Applied load</b> (traditional fixings industry) Unfactored load (engineers, common usage), Working load (Scaffolding industry, TG20, TG4) Characteristic action (BS 8539, ETA)	Load (action) to be applied to the base material by the fixture via the anchor.	$N_{Sk}$
Factored load (engineers, common usage) Design action (BS 8539, ETA)	Calculated value of the load (action) derived by the application of a partial factor to the Applied (unfactored) load. Used in design calculations.	$N_{Sd}$
<b>Recommended load</b> (traditional, fixing manufacturers), Permissible load (some manufacturers), Recommended resistance (BS 8539)	Safe Working Load (resistance). Maximum load that may be applied to the anchor as recommended by the manufacturer	$N_{Rec}$
<b>Allowable load</b> (traditional CFA) Allowable resistance	SWL determined by site tests	
<b>Proof test load</b>	Test load applied to the anchor in Proof tests.	$N_p$
<b>Failure load</b>	Maximum load achievable in a test	$N_{Ru}$
<b>Load at first movement</b> in a test	Load at approx 0.1mm displacement	$N_{1st}$

\* N refers to Tensile loads.

**TEST REPORT:** Ref. \_\_\_\_\_ Sheet 1 of 3

**Client:** Surefix Contact: Alex Kendrick  
 Address: Hilltop Works, Swadlincote \_  
Tel: 07958 583437 Fax: \_

**Site:** Contact: Alex Kendrick  
 Address: Hilltop Works, Swadlincote  
Tel: 07958 583437 Fax: \_

**Date of test** 22/01/2022

**Fixings installed by:** A Kendrick of Surefix \_\_\_\_\_ Signed AK  
**Tests Carried out by:** R Gaunt of Vision Midlands \_\_\_\_\_ Signed RG  
**Tests Witnessed by:** R Brealey of Vision Midlands \_\_\_\_\_ Signed RB

**Fixings tested: Make:** Surefix **Bracket\_Type:** M10 Plug & Screw **Size:** 90m **Finish:** Galv \_\_\_\_\_  
**Application of fixings:** Rise & Fall Gutter Bracket

**Test objective:** Proof tests to validate installation quality & Strength of fixing.  
**Movement to be recorded?:** Yes/No. (first movement only) NO

**Applied Load (of application):-** Tensile ( $N_{Sk}$ ) 8.5 \_\_\_\_\_ kN  
**Manufacturer's Rec'd load :-** Tensile ( $N_{rec}$ ) 8.5 \_\_\_\_\_ kN  
**Proof test load required:-** Tensile ( $N_p$ ) 8.5 \_\_\_\_\_ kN

**Test location:** \_\_\_\_\_  
 Elevation B \_\_\_\_\_

**Base material:** concrete \_\_\_\_\_ *Structural thickness:* N/A \_\_\_\_\_ mm *Strength at test date:* N/A \_\_\_\_\_ N/mm<sup>2</sup>

**Test equipment:**  
*Loading apparatus:* \_\_\_\_\_ Hydraulic ram with \_\_\_\_\_ kN gauge  
 or Hydrajaws Tension tester with 25 \_\_\_\_\_ kN gauge, serial number \_\_\_\_\_  
*Last calibrated:* 11/11/2021 \_\_\_\_\_ by: \_\_\_\_\_  
*Loading frame - dimension of fixing to closest support:* \_\_\_\_\_  
*Torque meter – Make and range* \_\_\_\_\_ Nm  
*Dial gauge – Make and range 0-25* \_\_\_\_\_ mm

**Test procedure compliance:**  
**CFA - Procedure for Site Testing Construction Fixings -2012**  
**BS 8539:2012 Code of practice for the selection and installation of post-installed anchors in concrete and masonry.**  
 With the following exceptions: \_

**Summary of results:** (See following sheets for detailed results) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Report compiled by** . . . . R Gaunt. . . . . **Date** 19/08/2022. . . . .

**Report approved by** . . . . . R Brealey. . . . . **Date** ...19/08/2022. . . . .

SITE TEST REPORT Ref Surefix \_\_\_\_\_ Sheet 3 of 3

FIXING UNDER TEST: M10 Masonry plug & screw

Test objective:~ **PROOF tests to BS 8539:2012 Clause 9.3 and Annex B.3.**  
 Direction of loading: **TENSION**

Applied Load of the application (Unfactored load) ,  $N_{Sk}$  , = 8.5 kN

Total number of anchors 3 Number to be tested 3 (minimum 3)

Test factor,  $v_{P,test}$  = (1.25 if 1 in 20 anchors tested, 1.5 if 1 in 40 anchors tested) \_\_\_\_\_

Required Proof test load **8.5**  $N_p = N_{Sk} \times v_{P,test} =$  \_\_\_\_\_ kN

Location: Hilltop Works, Pool Street

Sketch: note any close edge or spacing dimensions where relevant

Test No.	Location	Load at 1 <sup>st</sup> movement kN	Test Load kN	Comments
	Test panel 1		8.5	Tests carried out at five selected areas in cured sand and cement bed joints
	Test panel 2		8.5	
	Test panel 3		8.5	
	Test panel 4		8.5	
	Test panel 5			

Further comments :

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**Note: If MORE THAN ONE anchor fails then ALL anchors must be proof tested and the anchor specification reviewed.**

**Standard comment:** This report is a factual record of results observed and does not constitute an endorsement of the suitability of the product tested for the application concerned.

Report compiled by ... R Gaunt ..... Date: ... 19/08/2022. ....