

Date: 25/06/2015		Test Report : TR2015100	Page 1 of 6	
Department	Height Safety	Test: 15kN fixed anchor point (Dynamic Drop Test)	Ref: QSI 20150625-01	
Client:	Collins Corporation Ltd 27 Giddis Ave Napier			
Client Ref:	Nick Collins Email: nick.roofanchors@clear.net.nz Mobile: 021 448 004			
Test specification:	Compliance test to 6.3.2 dy manufacturing requirement based work at height.	vnamic testing procedures of AS/NZS 5 ts for single-point anchor device used for	532:2013, or harness	
Test items:	Safetor fixed Freezer Panel Anchor One (1) - White permanent anchors attached to polystyrene freezer panel with steel outsides.			
Date of test:	22/05/2015			
Checked by:	Craig McLaren IANZ Signatory	Date: 25/06/2016		
Prepared & approved by	Jason Myburgh Quality Laboratory Manage	Date: 25/06/2016		
IANZ Accredited Signatory:	Jason Myburgh			



Controlled Document QSI Unit 6 Pacific Park - Pacific Place – Wanganui - NZ – P 06 3489522 – F 06 3489523



Test Performance Form QD	Test Report : TR2015100	
Document Owner: QSI Ltd	Approved for use by General Manager	Last Modified

Page 2 of 6

Aim

This test was done in order to determine the compliance of the fixed anchor point of the Safetor product range, with the dynamic test requirements of AS/NZS 5532:2013

The following table covers the test program conducted;

Designation / Attachment Points	Test	Description
Fixed anchor attached to 2.9m x 1.2m x 95mm freezer panel with 1.0mm steel sheets on either side of polystyrene. (See Appendix 4 for pictures of panel and mounting)	6.3.2.2 fixed anchor devices as per table 1 dynamic testing criteria	TEST 1 Dynamic drop test:- 15kN anchor rating with a 100kg rigid mass. Free fall distance 2000mm on 12mm three strand polyester hawser-laid rope.

Conclusion

The Safetor roof anchor when attached to a polystyrene freezer panel as per the Safetor installation instructions was able to demonstrate compliance with dynamic tests requirements table 1 of 6.3.2.2 of AS/NZS 5532:2013 for the 15kN drop test criteria.

No visible damage was noted and the anchor was still fixed into the panel.

(Manufacturer supplied panel and anchor pre attached- installation guidelines to be provided by manufacturer)

Assessment Test number DT2015-99 (15kN Dynamic Drop Test)

The length of the rope measured 2005mm, mass of 100kg Post examination of the anchor point the anchor had bent to absorb some of the energy. Anchor retained the weight after the drop for 3 minutes. Refer to Appendix 3 for test graph and Appendix 5 for pictures

Assessment: Pass

Comments:

This dynamic test program covers Clause 6.3.2 (i),(ii)(a)(b) and (d) of AS/NZS 5532:2013^a,

^o The Clause numbers indicated throughout this report refer to the respective Clauses of AS/NZS 5532:2013. Where a clause is followed by brackets '()', the contents of the brackets refers to part of the clause. i.e. paragraph number or subclause.





Test Performance Form QD		Test Report : TR2015100
Document Owner: QSI Ltd	Approved for use by General Manager	Last Modified

Page 3 of 6

Appendix 1

TEST SPECIMEN DETAILS

Specimen Number	Description	Model	Serial No:	Date of manufacture
QSI20150522-01	Safetor Roof Anchor	Unknown	5840	-
QSI20150522-02	Freezer Panel (2.9m x 1.2m x 95mm) 1mm steel plate on both front and back	Unknown	-	-
QSI20150522-03	12mm three strand polyester hawser- laid rope	SPR12	130943	03-2015

Roof anchor fixed to Polystyrene 15 kN Test

Test Number	Specimen Number	Overall Length (2000mm ± 50mm)	Drop Height (M)	Max Load (kN)	Highest Force averaged over 50m/s period	Assessment
DT2015-99	QSI20150522-01 QSI20150522-02 QSI20150522-03	2005	2	10.08 kN	8.75 kN	PASS (15kN)

The roof anchor bent during the drop to reduce the force on the structure to 10.08 kN.

Appendix 2





Before Drop



After Drop



Test Performance Form QD		Test Report : TR2015100
Document Owner: QSI Ltd	Approved for use by General Manager	Last Modified

Page 4 of 6

Appendix 3

Test 1





Appendix 4

PICTURES BEFORE DROP









Test Performance Form QD		Test Report : TR2015100
Document Owner: QSI Ltd	Approved for use by General Manager	Last Modified

Page 5 of 6

PICTURES BEFORE DROP (Continued)











Test Performance Form QD		Test Report : TR2015100
Document Owner: QSI Ltd	Approved for use by General Manager	Last Modified

Page 6 of 6

PICTURES AFTER DROP





Conditions of report

The test specimen(s) identified in this report was selected and supplied by the client. The results contained in this report are only applicable to the test specimen(s) supplied and tested. This report does not state or infer that the results cover the batch or consignment from which the test specimen(s) was selected. The tests as indicated in Table 1 were conducted as instructed by **Collins Corporation** representatives. QSI makes no representation as to the applicability or completeness in selection of the nominated test conditions and whether the selected tests conform to the full requirements of AS/NZS 1891:2007. This document is issued in accordance with IANZ accreditation requirements. The author of this report may not necessarily be the testing officer. The checking officer is independent of the author and has only performed checks for the transfer, correctness and completeness of data and the comprehension of this report.

Disclaimer

This report has been prepared (and the testing the subject of this report has been carried out) by QSI, a division of Quality Safety (hereafter referred to as "**QSI**"), on the instructions of **Collins Corporation**. This report and its contents are for the exclusive use of **Collins Corporation**, and may only be used by

Collins Corporation for the purpose or purposes identified to QSI at the time of instructing QSI to carry out the tests the subject of this report. The QSI and its officers, employees, agents and advisers will not be responsible or liable in any way in relation to any use of, or reliance on, this report or any of its contents either by any person other than **Collins Corporation**, or by **Collins Corporation** for any reason other than that disclosed to QSI at the time of instructing QSI.

Collins Corporation accepts the testing apparatus and methods used by QSI for the tests the subject of this report as being appropriate for its instructions, except to the extent that **Collins Corporation** notifies QSI in writing within 5 business days after the date of this report. In such event, if it is determined that the tests the subject of this report were not carried out in accordance with the instructions of **Collins Corporation**, the QSI liability shall be limited to the costs of carrying out further tests in accordance with the instructions of **Collins Corporation**.



