

# DYNAMIC & STATIC LOAD PERFORMANCE TESTING TO AS/NZS 5532:2013

(MANUFACTURING REQUIREMENTS FOR SINGLE POINT ANCHOR DEVICE USED FOR HARNESS BASED WORK)



SPYDA AP145.10 / AP145.20 Fall  
Arrest Temporary Anchor Point  
- 15kN Rated



## TEST OUTLINE

A SPYDA single anchor point, temporary fall arrest anchorage was tested for static and dynamic load capacity. The 15kN capacity anchorage device was attached to a vertically aligned simulated roof structure constructed from steel purlins and roof sheeting. Prior to testing, the test items and the test bed were inspected and the following details were recorded.

**TEST IDENTIFICATION :** 1014/953 - 1014/952

**TEST DATE:** October 2014

## ROOF STRUCTURE TEST BED

PURLINS: C15019 SPACED AT 1200MM CENTRES

ROOF SHEETING: 0.42MM BMT

## SWIVEL SINGLE POINT FIXED ANCHOR TEST COMPONENTS

ANCHOR PLATE PART NO: SPYDA ARMS

SWIVEL EYE PART NO: 1520

## LANYARD DETAILS

3 STRAND POLYESTER ROPE LINE: 12MM

SNAPHOOK ATTACHMENT HARDWARE: 22KN RATED



### DISCLAIMER

Any change made to the roof deck design, material composition or installation method will void this certification.

All Sayfa products must be installed and used by competent personnel trained in the selection, safe use and maintenance of fall arrest systems and equipment by a registered training organisation (RTO).

Installation not in accordance with Sayfa requirements or the use of non Sayfa components will void all certification and warranties.

Suitability of support structure and design layout of system is the responsibility of the installer and should be verified by a structural engineer or a site specific live load test done to ensure conformance.

Maintenance and usage of the system in accordance with Sayfa requirements is the responsibility of the owner or manager of the workplace.

**SAYFA**<sup>®</sup>  
GROUP

1029 MOUNTAIN HWY  
BORONIA VIC 3155  
AUSTRALIA

T 1300 301 755  
F 1300 881 092  
E SALES@SAYFA.COM.AU

**ANCHOR POINT TEST REPORT**

ANCHOR POINT PERFORMANCE



## TEST PROCEDURES

In accordance with AS/NZS 5532:2013 static and dynamic tests were conducted on the anchorage in a direction in-line with the roof sheeting ribs and perpendicular to the line of the roof sheeting ribs. A virgin lanyard was used for each test.

## DYNAMIC TESTING

In accordance with AS/NZS 5532:2013, Clause 6.3.2 dynamic testing was conducted by dropping a 100kg mass from a height of 2.0M.

## STATIC TESTING

After the completion of the dynamic tests, static testing was conducted in accordance with AS/NZS 5532:2013 Clause 6.3 by loading the anchorage device to a test load of 15kN. Static testing was performed the anchor which had already had the dynamic test applied.

## FRAME RIGIDITY TEST

In accordance with AS/NZS 5532:2013, Clause 6.3.2 the test frame loaded to 20kN to verify the integrity of the bolted connections to the rigid steel frame.

## TEST OBSERVATIONS

### DYNAMIC TESTING

When tested both in-line with the ribs of the roof sheeting and perpendicular to the ribs of the roof sheeting, the anchorage device did not detach from the roof sheeting, purlins or test bed. After the drop test, the anchor device held the 100kg test mass for 3 minutes. There was minor deformation visible to all anchor devices.

### STATIC TESTING

When tested both in-line with the ribs of the roof sheeting and perpendicular to the ribs of the roof sheeting, the anchorage device maintained a test load of 15kN for a minimum of 3 minutes. The anchorage device did not detach from the roof sheeting, purlins or test bed.

## TEST SUMMARY

The tests as reported herein, confirm that the single point, fixed, fall arrest anchorage successfully passed the static and dynamic performance requirements



Murray Voss - Technical Manager



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