

TESTING OF SINGLE - POINT ANCHOR DEVICES

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The University of Newcastle, NSW, 2308, Australia

CLIENT: Gridmesh Anchor Pty Ltd

P.O. Box 899

Lane Cove, NSW 1595

Checked by: 

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TEST NUMBER: 2017/34

TEST DATE: 17/11/2017

CLIENT: Gridmesh Anchor Pty Ltd
PO Box 899
Lane Cove, NSW 1595

LOCATION OF TESTING FACILITY: Structural Laboratory, Discipline of Civil, Surveying and Environmental Engineering, The University of Newcastle.

TESTS CARRIED OUT BY: Goran Simundic BE, ME, MIE Aust, CPEng.
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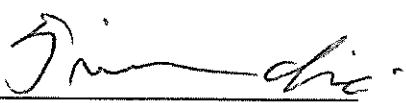
TEST SPECIMEN: GA01 Gridmesh Personal Fall Arrest Anchor

NORMAL CONFIGURATION

TEST TYPE: Dynamic test in a test bed arrangement which simulates the intended performance of the anchor in the as installed configuration.

TEST DESCRIPTION: The fibre rope lanyard for test on the specimen was a two(2) metre long and 12mm diameter three-strand polyester hawser-laid rope medium lay, meeting requirements of AS4142.2. and was used without an energy absorber.

One end of the test lanyard was secured by means of a connector to the anchor device and the other end by means of a connector to the rigid mass. At a maximum of 300mm horizontally from the attachment point and by means of a quick-release device, the rigid mass was supported so that when released it fell freely through the designated fall distance before the lanyard started to arrest the fall.

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TESTED IN ACCORDANCE

WITH:

AS/NZS 1891.4 Strength Requirement for Anchorages

DYNAMIC TESTING

REQUIREMENTS:

Anchor rating: 15 kN
Rigid mass for free fall: 100 kg
Free fall distance: 2000 ± 50 mm

STRUCTURE TO

BE TESTED ON:

Horizontal Beams 100x50x5mm
Vertical Frame 100x100x3mm
The test bed was fixed to the laboratory "strong wall".

TEST RESULT:

The specimen tested did not release the drop mass. The drop mass remained suspended for three (3) minutes after the drop test.

The specimen satisfies the requirements of the AS/NZS 1891.4 and can be used with the dynamic rating of 15kN and with the structure as tested.

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