

Site: AliDeck Tie Down Anchor Pull Out Test

Administration details:

Date of test: 13/02/2025
Unique report reference number: 3271/R1
Client company name, address, contact name and position:
 AliDeck, Europa & Jenner House, 1-2 Trident Close, Medway City Estate, Rochester. ME2 4ER.
Site location, contact name and position:
 AliDeck, Europa & Jenner House, 1-2 Trident Close, Medway City Estate, Rochester. ME2 4ER.
Name of tester (position & qualifications): Tom Lane (Test Engineer, Accolade Measurement)

Anchor / application details:

Anchor manufacture / type / size / finish: In-house design, decking panel, unknown, stainless steel
Base material (type / strength): Aluminium extrusion, strength unknown

Testing details:

Fixing / application details: For anchoring parts onto decking
Test objectives: Proof load test Preliminary load test Ultimate load test
Test location: Identified on subsequent pages of this report.

Test equipment details:

Make, type and load capacity: Hydrajaws 2000 Deluxe Master Tester Kit
 5kN gauge 10kN gauge 15kN gauge 20kN gauge 25kN gauge 30kN gauge Digital gauge
Date of last calibration, calibrating authority: 03/02/2025, Hydrajaws Limited Testing Division.
Make and type of movement monitoring equipment: Movement observed visually & using feeler gauge.
Loading frame distance between fixing and closest support:
 30mm (circular 3 leg) 60mm (short 3 leg) 105mm (medium 3 leg) 165mm (medium 2 leg) 240mm (large 2 leg)
 This test was conducted with the anchor in isolation, the forces were not transferred through the decking extrusion.
Test results: Please see details included in test results section of this report.
 Fixings intended for application Fixings installed solely for testing (not intending for application)
 This test report applies to a sample of fixings as they were presented at the time of testing, and is a factual statement of the test carried out and results observed, and does not constitute an endorsement of the tested fixings for the application concerned. Test results do not apply if subsequent to testing, fixings have been knocked, damaged, replaced or relocated.
The test was only applicable to the tie down anchor and representative of the decking channel system as a whole.
Mode of failure: Where applicable, included in test results section of this report.

Ultimate Load Test Results

Date	Tested by	Location no.	Location description	Fixing type	Test load achieved (kN)	Defects	Observations
13/02/2025	TL	Fixing 1	Slot between decking	Channel fixing	2.4	The upper D-link deformed and parted from the upper circular element. The two screws pulling out due to shear force upon them.	Upper D-link showed signs of deformation from 2kN onwards. The central anchor bolt did not snap, the two bolts attaching the d link pulled out.
13/02/2025	TL	Fixing 2	Slot between decking	Channel fixing	2.5	The upper D-link deformed and parted from the upper circular element. The two screws pulling out due to shear force upon them.	Upper D-link showed signs of deformation from 2kN onwards. The central anchor bolt did not snap, the two bolts attaching the d link pulled out.

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Pull Out Test Additional Information



Fixing 1



Fixing 1

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Pull Out Test Additional Information



Fixing 2



Fixing 2

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Pull Out Test Additional Information



Fixing 1 first movement, 0.04mm



Fixing 1, first movement at 0.3kN

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Pull Out Test Additional Information



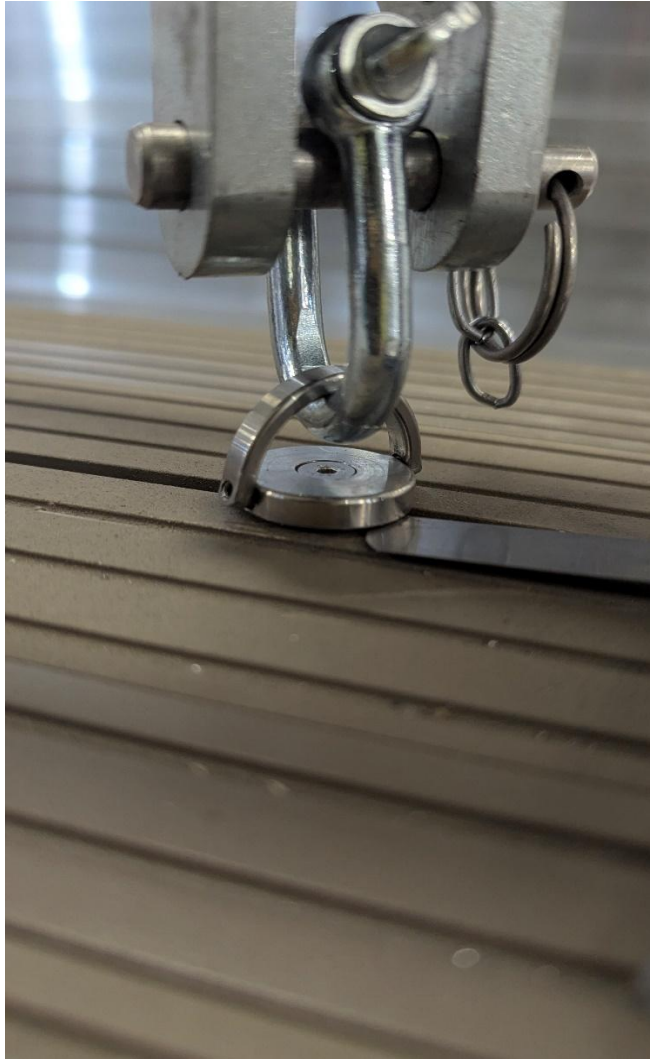
Fixing 1 pullout of 0.35mm at 2kN



Fixing 1 at 2kN

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Pull Out Test Additional Information



Fixing 1 pullout of 0.35mm at 2.4kN Load



Fixing 1 at 2.4kN Load

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Pull Out Test Additional Information



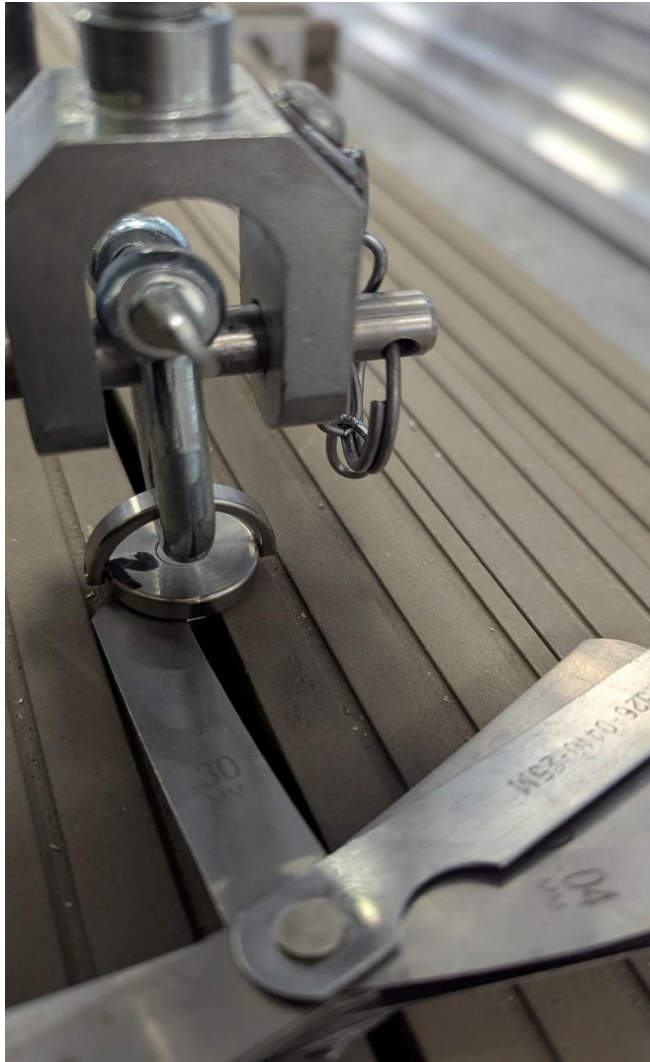
Fixing 2 at first movement, 0.04mm



Fixing 2, first movement at 0.2kN

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Pull Out Test Additional Information



Fixing 2 pullout of 0.30mm at 2kN Load



Fixing 2 at 2kN Load

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Pull Out Test Additional Information



Fixing 1 pullout of 0.35mm at 2.5kN Load



Fixing 2 at 2.5kN Load