



Load Test Report

Report Number: 72095 February 13, 2019
Client: KLEVAKLIP SYSTEMS PTY LTD Page 1 of 4
Unit 63/176 South Creek Rd Cromer NSW 2099
Client Contact: Greg Doupe
Order Number: Refer Greg Doupe
Test Requirements: Load test of clip deck system as per the client's instructions.
Sample: 15 x Clipping deck systems and associated hardware.
Sample Identification: Klevaklip Snap-loc clip system for TREX decking
Test Date: 16/10/18, 13/02/19
Test Conditions: Ambient Temperature 20°C

Test Equipment: 200kN Universal Testing Machine A1201 (Calibration Certificate N2221-M-7), Gripping jig and clamps.

Test Setup: Samples were tested in three different configurations. Six samples were tested with decking planks in both adjacent to simulate a middle plank. Three samples were tested with decking planks only on one side to simulate an edge plank. Six samples were tested with decking planks only on one side in addition a 65mm deck screw was installed to fix the plank to the joist to simulate an edge plank installation in cyclone regions (refer to figure 1).

Test Load: Samples were loaded at a rate of 10mm/min until failure/pullout.

Test Results:

Sample	Configuration	Maximum load (N)	Maximum load (kg)	Observations
1	Two adjacent planks present	1632	166.4	Clip failed
2		1612	164.3	Clip failed
3		1730	176.4	Clip failed
4		1591	162.2	Clip failed
5		1646	167.8	Clip failed
6		1549	157.9	Clip failed
Average		1623	165.8	-
1	One adjacent plank present	865	88.2	Clip bent until pop out
2		991	101.0	Clip bent until pop out
3		928	94.6	Clip bent until pop out
Average		928	94.6	-

Note: Above testing carried out on 16/10/18. Refer to report number 67080 for original report.

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Report Number: 72095
Client: KLEVAKLIP SYSTEMS PTY LTD

February 13, 2019
Page 2 of 4

Test Results (cont.):

Sample	Configuration	Maximum load (N)	Maximum load (kg)	Observations
1	One adjacent plank present and 65mm screw fixing (cyclone installation)	4290	437.3	Pop out/screw pulled out
2		4939	503.5	Pop out/screw pulled out
3		4828	492.1	Pop out/screw pulled out
4		4332	441.6	Pop out/screw pulled out
5		4800	489.3	Pop out/screw pulled out
6		4646	473.6	Pop out/screw pulled out
Average		4639	472.9	-



Figure 1: Installation method used for cyclone edge configuration.

Report Number: 72095
Client: KLEVAKLIP SYSTEMS PTY LTD

February 13, 2019
Page 3 of 4



Figure 2: Test setup used to test middle plank configuration.

Report Number: 72095
Client: KLEVAKLIP SYSTEMS PTY LTD

February 13, 2019
Page 4 of 4



Figure 3: Test setup used to test edge plank configuration.