



TEST CERTIFICATE No.: INZ81355-01

Client: Fastmount Limited
Order No.: 5253
Sample Description: Stratlock® Female Side Mount Clip with Stratlock® Male Clip
Identification: SF-FA / SL-M10; SF-FA / SL-M18; SF-FA-FR / SL-M18-FR
Material Specification: Not specified
Tested in accordance with: As per method statement

Test: Repetitive pull-out load test and a single shear test on the Stratlock® Range plastic mounting system to determine performance and capacity.

Method: Repetitive pull-out test

The plastic clip set was subjected to cyclic pull-out loading at a rate of 100mm/min with a frequency of approximately 1 cycle per 15s. The initial pull-out force was measured and recorded and then again after 500 cycles. Graphical representation of pull-out behaviour shown in figures 11 to 13 with the test setup shown in figure 6.

Shear test

A shear force was applied to the assembled plastic clip set at a rate of 5 mm/min until failure. Test setup shown in figure 7.

Test Conditions - 23 ± 2°C

Results:

Female / Male Clip	Pull-out Force (Kgf)		Shear Force (Kgf)	Comments
	Initial	After 500 Cycles		
SL-FA / SL-M10	18.4	18.5	88.9	Pull-out capacity remained consistent over 500 cycles. Both the male and female clips deformed under shear but ultimately failure occurred from the fracture of the female clip housing.
SL-FA / SL-M18	29.4	19.9	123.1	Pull-out capacity suddenly decreased by 10 kg after ~100 cycles then remained consistent thereafter. Both the male and female clips deformed under shear but ultimately failure occurred from the fracture of the female clip housing.
SL-FA-FR / SL-M18-FR	24.7	6.7	131.0	Pull-out capacity decreased by ~18 kg over 500 cycles. This decrease was due to wear of female clip. Both the male and female clips deformed under shear but ultimately failure occurred with the 8G screw pulling through the timber.

Tested by: G. Schoutens

Reviewed By: Kelvin Chin

Authorised By: Gijs Schoutens

Date: 20-Jun-24

21-Jun-24

Kelvin Chin

21-Jun-24

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Figure 1 - SL-FA female clip



Figure 2 - SL-FA-FR female clip

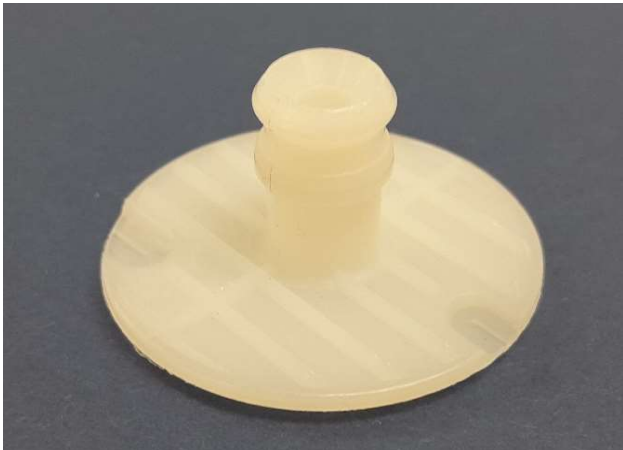


Figure 3 - SL-M10 male clip



Figure 4 - SL-M18 male clip



Figure 5 - SL-M18-FR male clip

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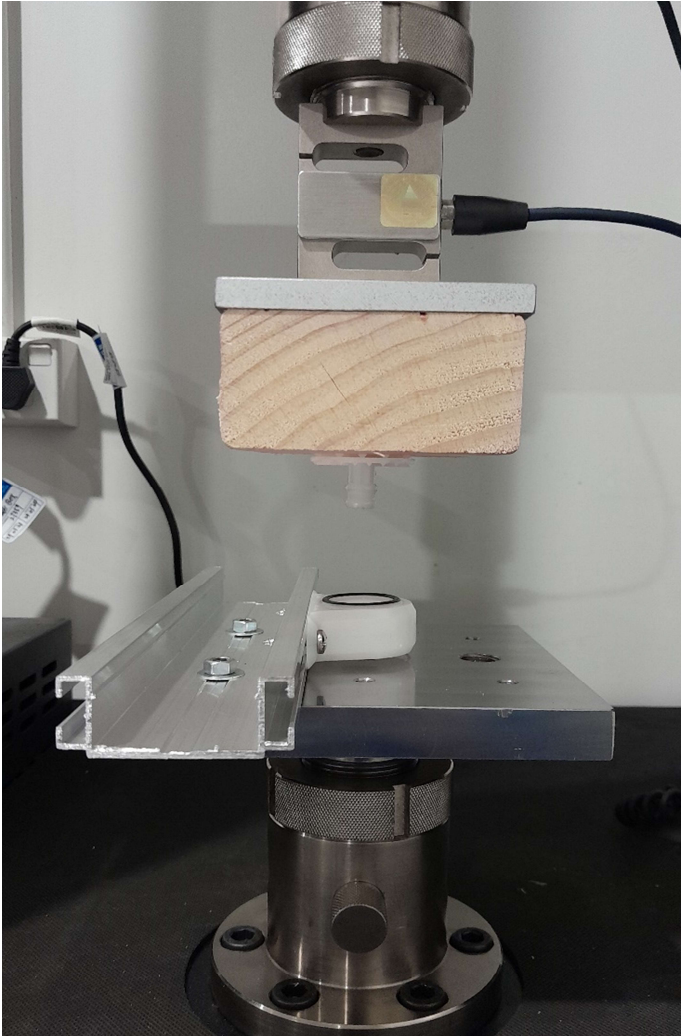


Figure 6 - Pull-out test setup

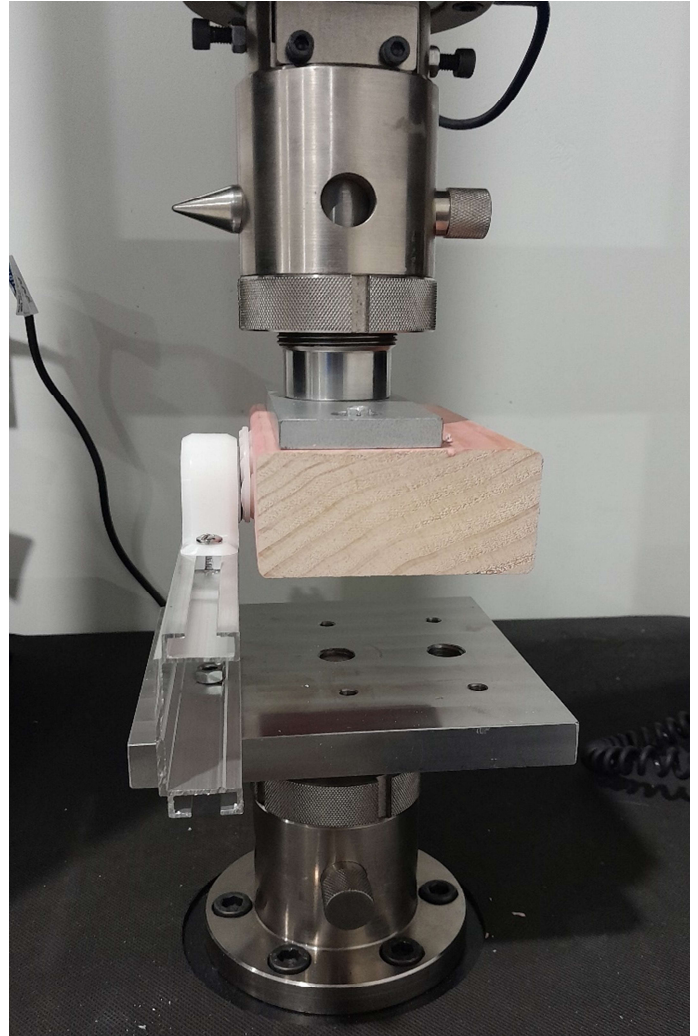


Figure 7 - Shear test setup

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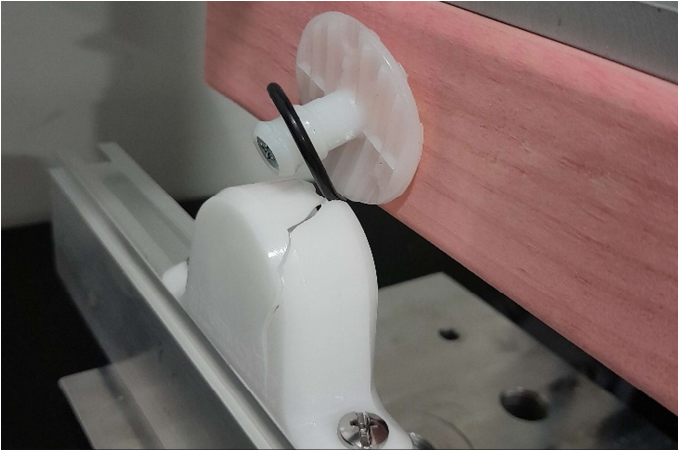


Figure 8 - Fracture of female clip housing



Figure 9 - Fracture of female clip housing



Figure 10 - Pull-out of 8G screw from timber substrate

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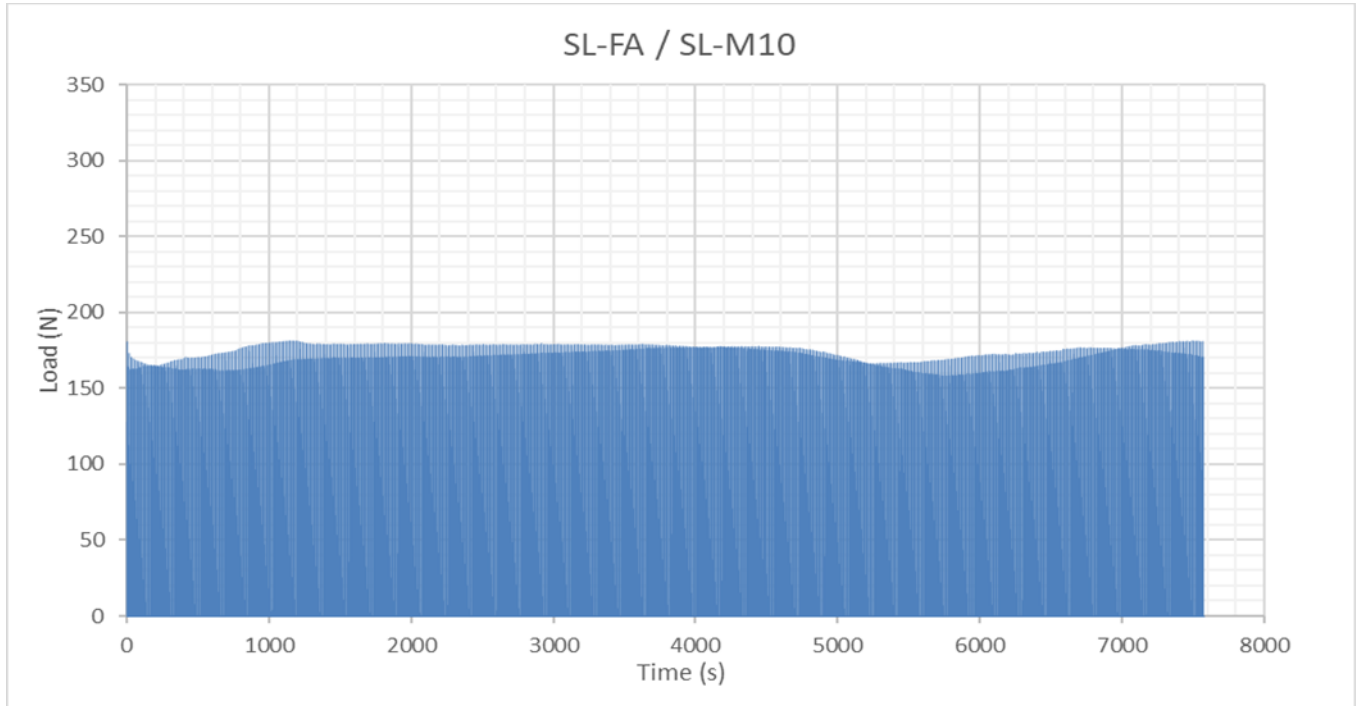


Figure 11 - Graphical representation of the SL-FA / SL-M10 clip set pull-out test

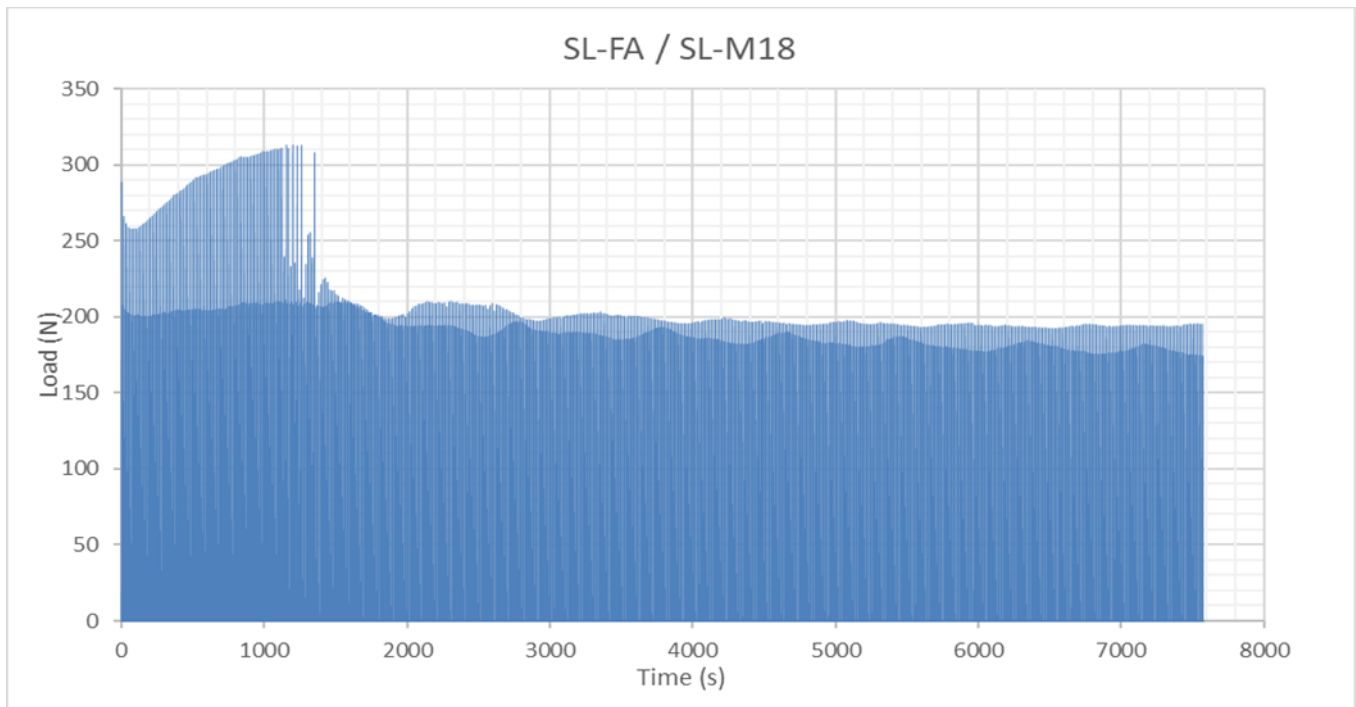


Figure 12 - Graphical representation of the SL-FA / SL-M18 clip set pull-out test

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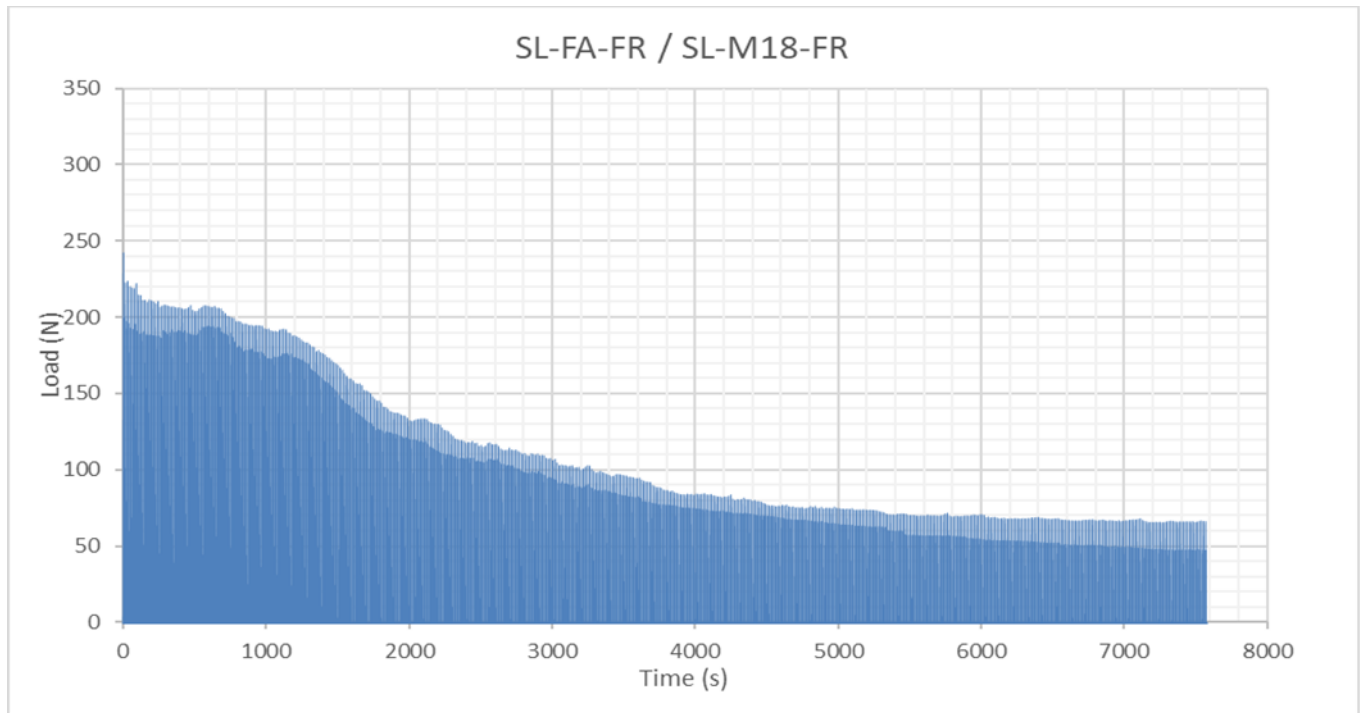


Figure 13 - Graphical representation of the SL-FA-FR / SL-M18-FR clip set pull-out test