



TEST CERTIFICATE No.: INZ81355-03

Client: Fastmount Limited
 Order No.: 5253
 Sample Description: Stratlock® Female Flush Mount Clip with Stratlock® Male Clip
 Identification: SF-FC / SL-M10; SF-FC / SL-M18; SF-FC-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-FC / SL-M10	22.5	17.0	164.9	Pull-out capacity gradually decreased by ~ 6 kg over 500 cycles. Both the male and female clips deformed under shear but ultimately failure occurred with the 8G screw pulling out of timber substrate.
SL-FC / SL-M18	30.7	28.7	133.8	Pull-out capacity initially decreased and then gradually increased over 500 cycles losing 2kg of pull-out capacity. Both the male and female clips deformed under shear but ultimately shear failure occurred in the 8G screw.
SL-FC-FR / SL-M18-FR	34.0	8.7	126.2	Pull-out capacity decreased by ~ 25 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 out of timber substrate.

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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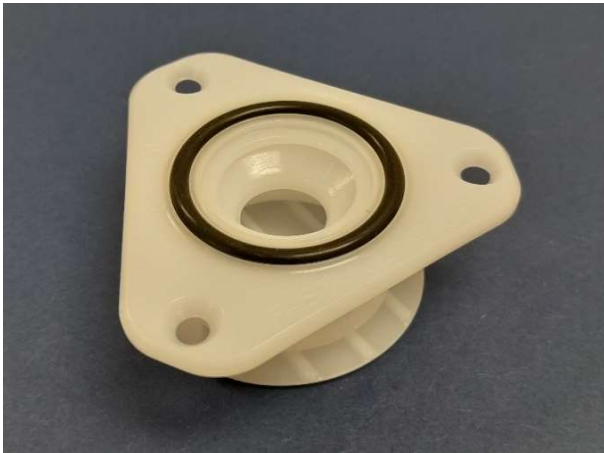


Figure 1 - SL-FC female clip



Figure 2 - SL-FC-FR female clip

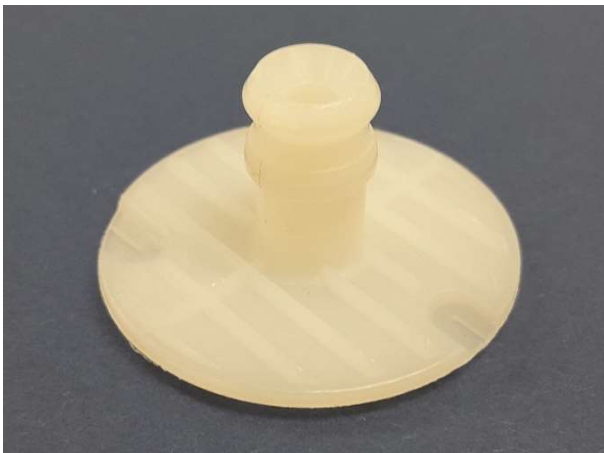


Figure 3 - SL-M10 male clip

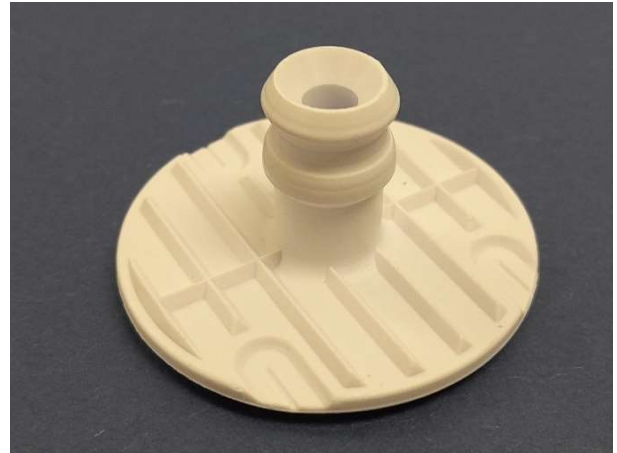


Figure 4 - SL-M18 male clip



Figure 5 - SL-M18-FR male clip

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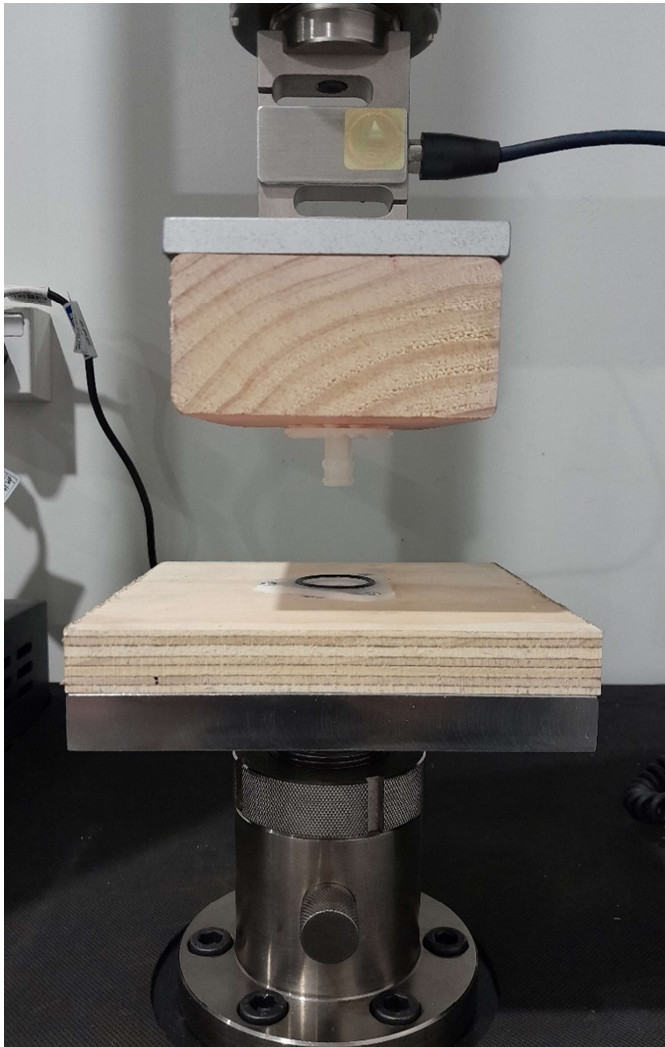


Figure 6 - Pull-out test setup

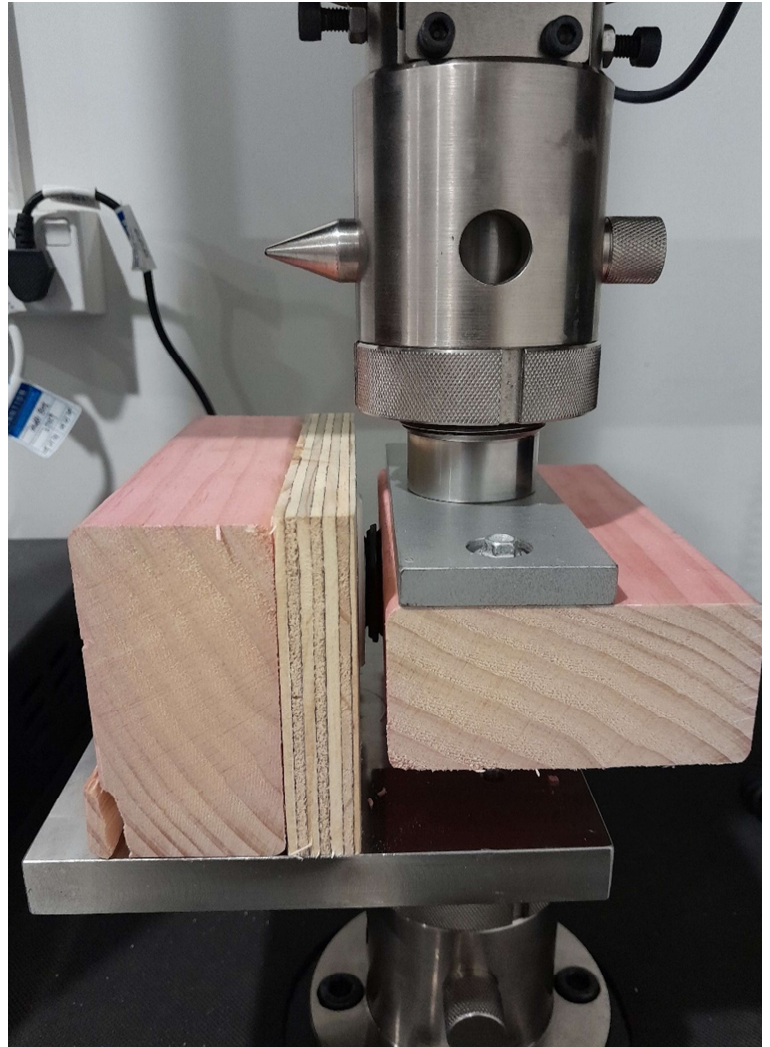


Figure 7 - Shear test setup

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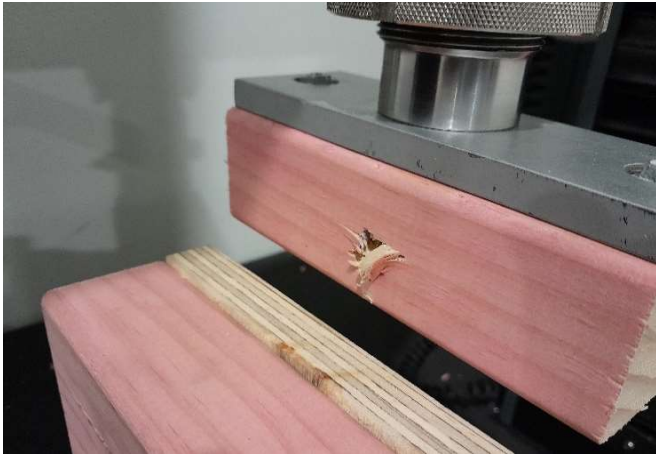


Figure 8 - Pull-out of 8G screw from timber substrate



Figure 9 - Shear failure of 8G screw

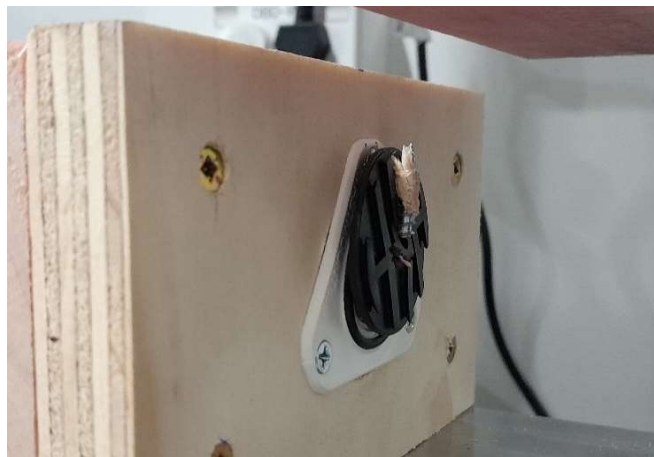


Figure 10 - Pull-out of 8G screw from timber substrate

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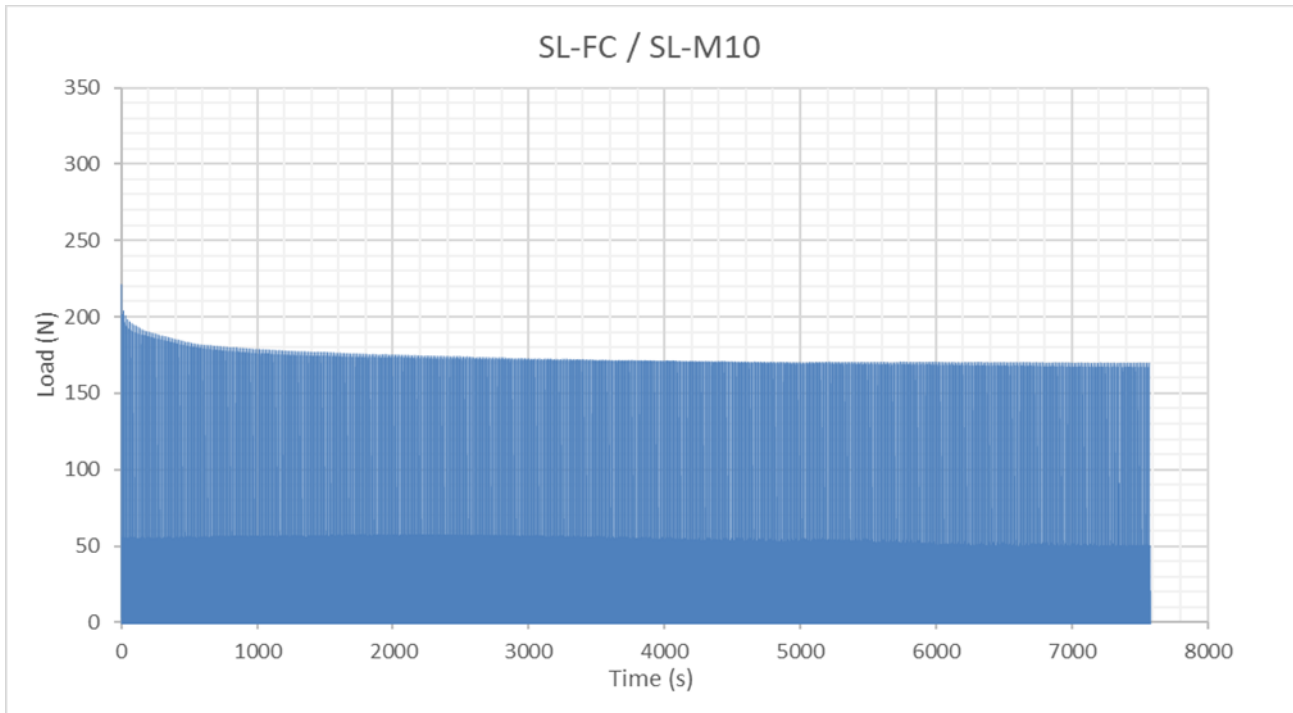


Figure 11 - Graphical representation of the SL-FC / SL-M10 clip set pull-out test

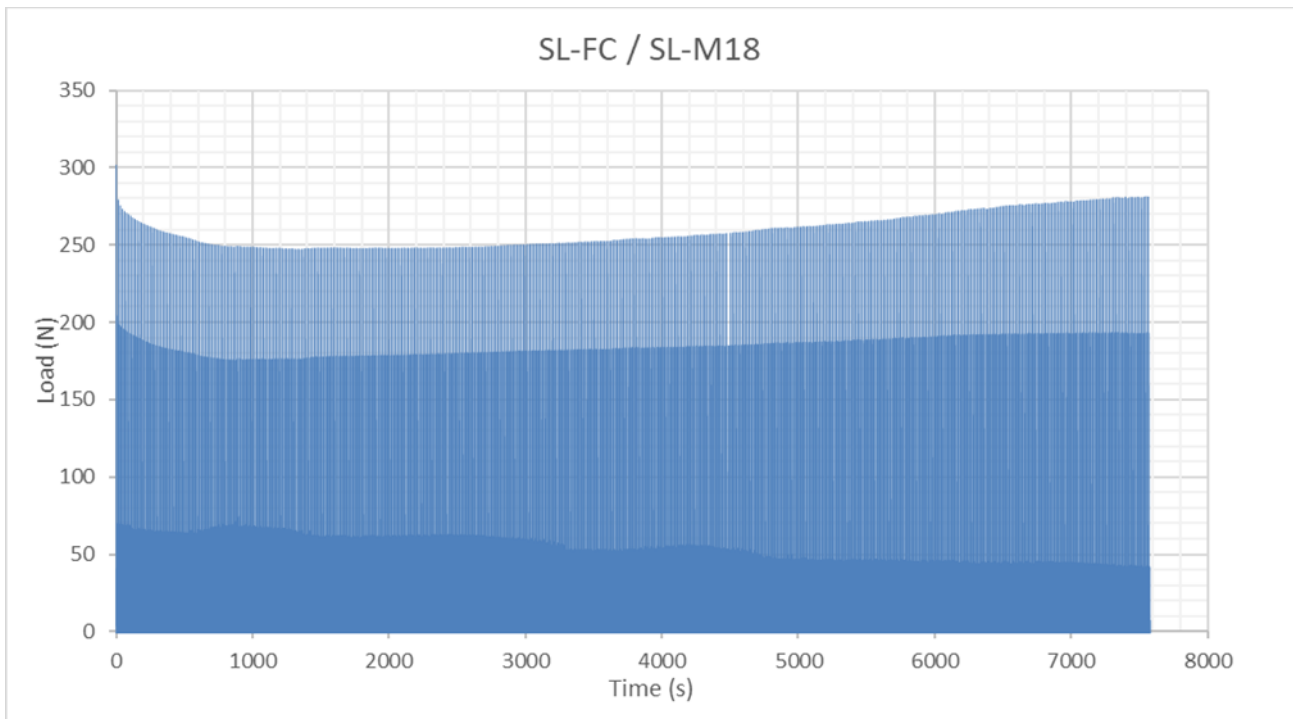


Figure 12 - Graphical representation of the SL-FC / SL-M18 clip set pull-out test

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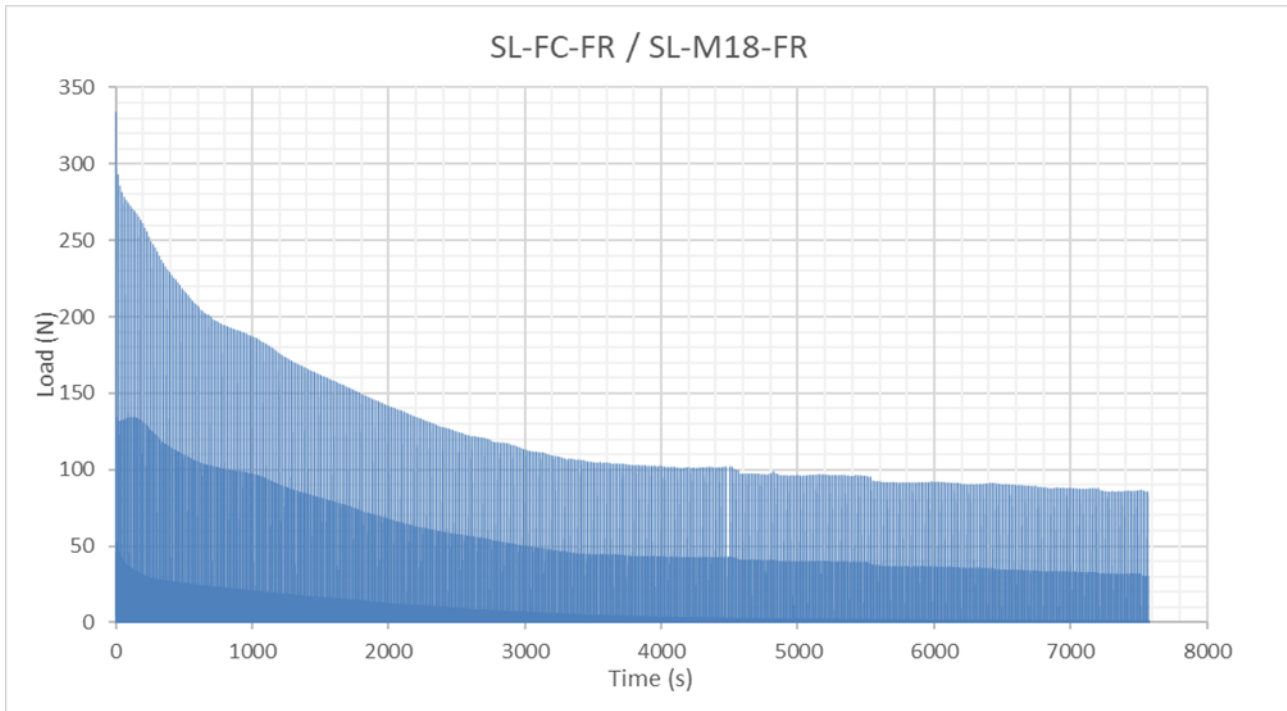


Figure 13 - Graphical representation of the SL-FC-FR / SL-M18-FR clip set pull-out test

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