

## TEST CERTIFICATE No.: INZ81355-02

Client: Fastmount Limited  
 Order No.: 5253  
 Sample Description: Stratlock® Female Front Mount Clip with Stratlock® Male Clip  
 Identification: SF-FB / SL-M10; SF-FB / SL-M18; SF-FB-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-FB / SL-M10	24.1	20.4	145.3	Pull-out capacity gradually decreased by ~ 4 kg over 500 cycles. Both the male and female clips deformed under shear but ultimately shear failure occurred on the male clip 8G screw.
SL-FB / SL-M18	35.2	19.4	152.5	Pull-out capacity slightly increased then decreased over 500 cycles losing ~16 kg of pull-out capacity. Both the male and female clips deformed under shear but ultimately failure occurred with the male clip 8G screw pulling out of timber substrate.
SL-FB-FR / SL-M18-FR	30.3	9.1	131.0	Pull-out capacity decreased by ~ 21 kg over 500 cycles. This decrease was due to wear of female clip. Combined shear failure occurred on both the male and female clips.

Tested by: G. Schoutens

Reviewed By: Alistair Remington

Authorised By: Gijs Schoutens

Date: 20-Jun-24

24-Jun-24

*Alistair Remington*

24-Jun-24



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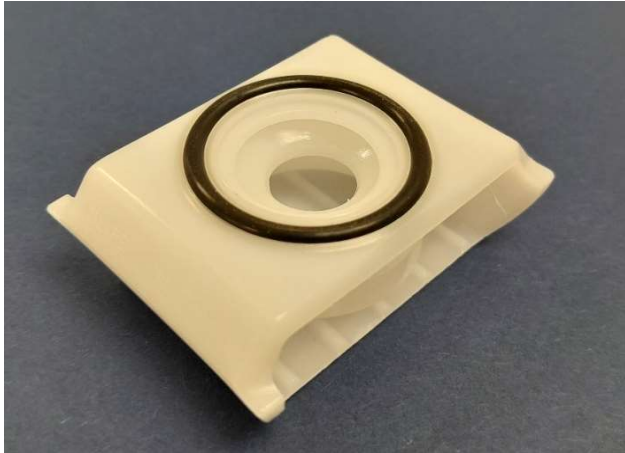


Figure 1 - SL-FB female clip



Figure 2 - SL-FB-FR female clip

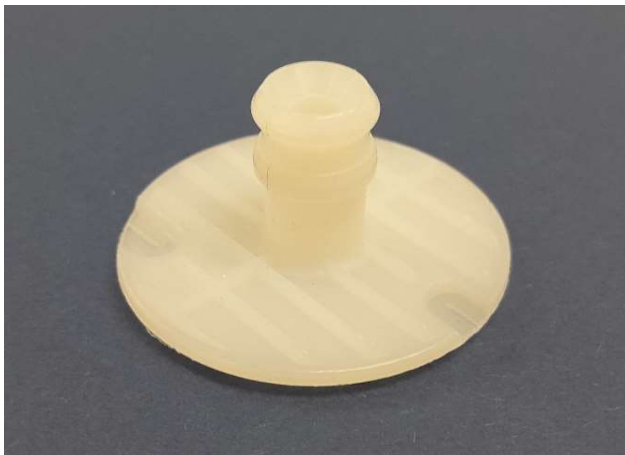


Figure 3 - SL-M10 male clip



Figure 4 - SL-M18 male clip



Figure 5 - SL-M18-FR male clip

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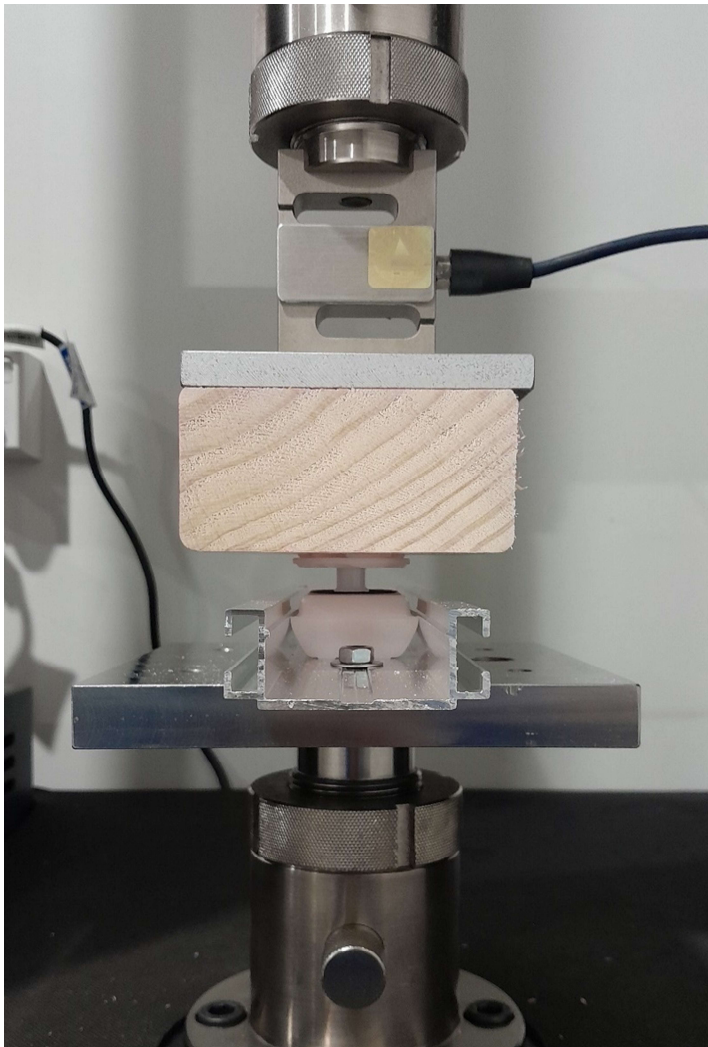


Figure 6 - Pull-out test setup

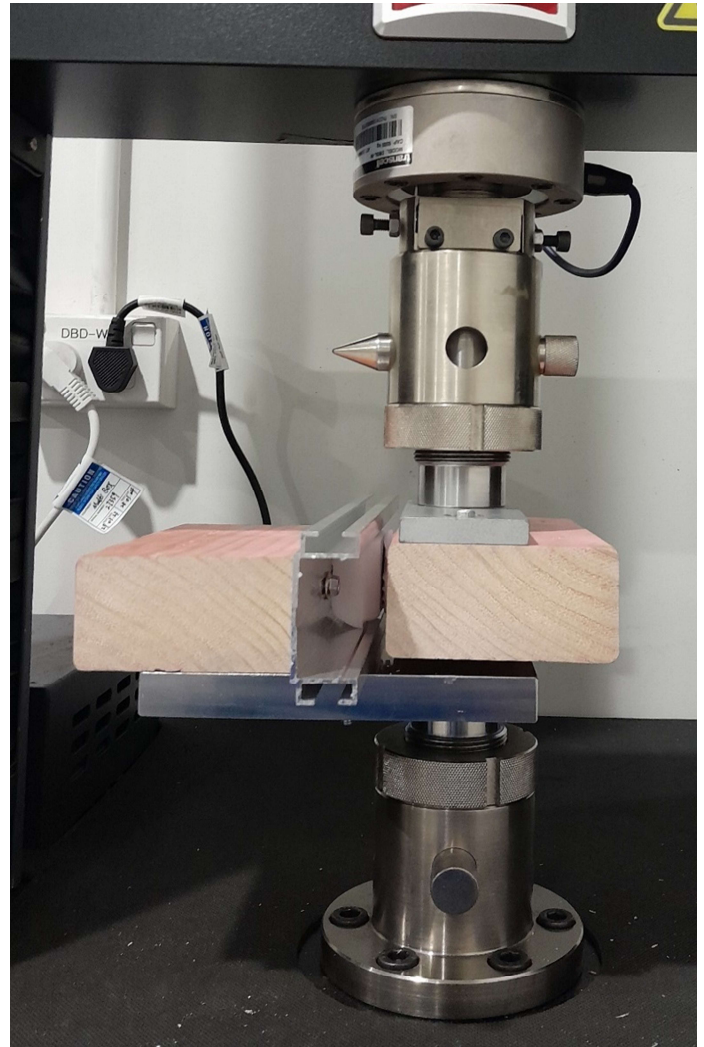


Figure 7 - Shear test setup

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Figure 8 - Shear failure of 8G screw

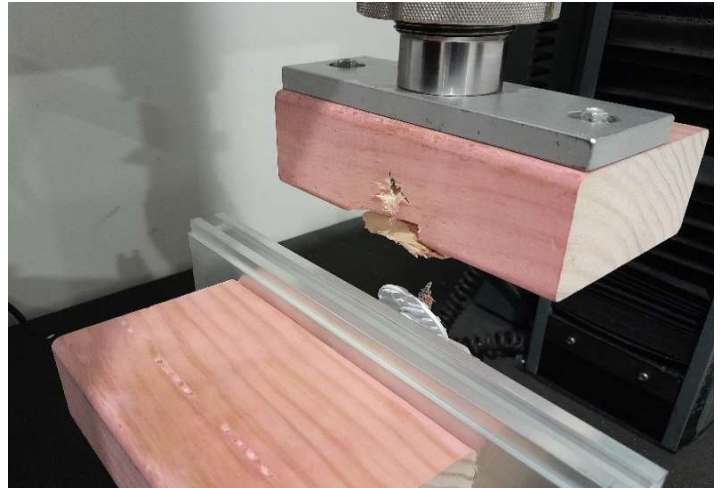
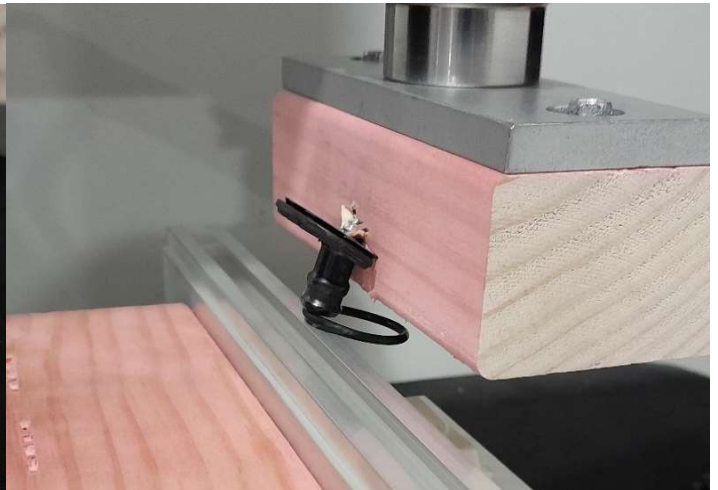


Figure 9 - Pull-out of 8G screw from timber substrate



Figure 10 - Combined shear failure of the SL-FB-FR and SL-M18-FR clips



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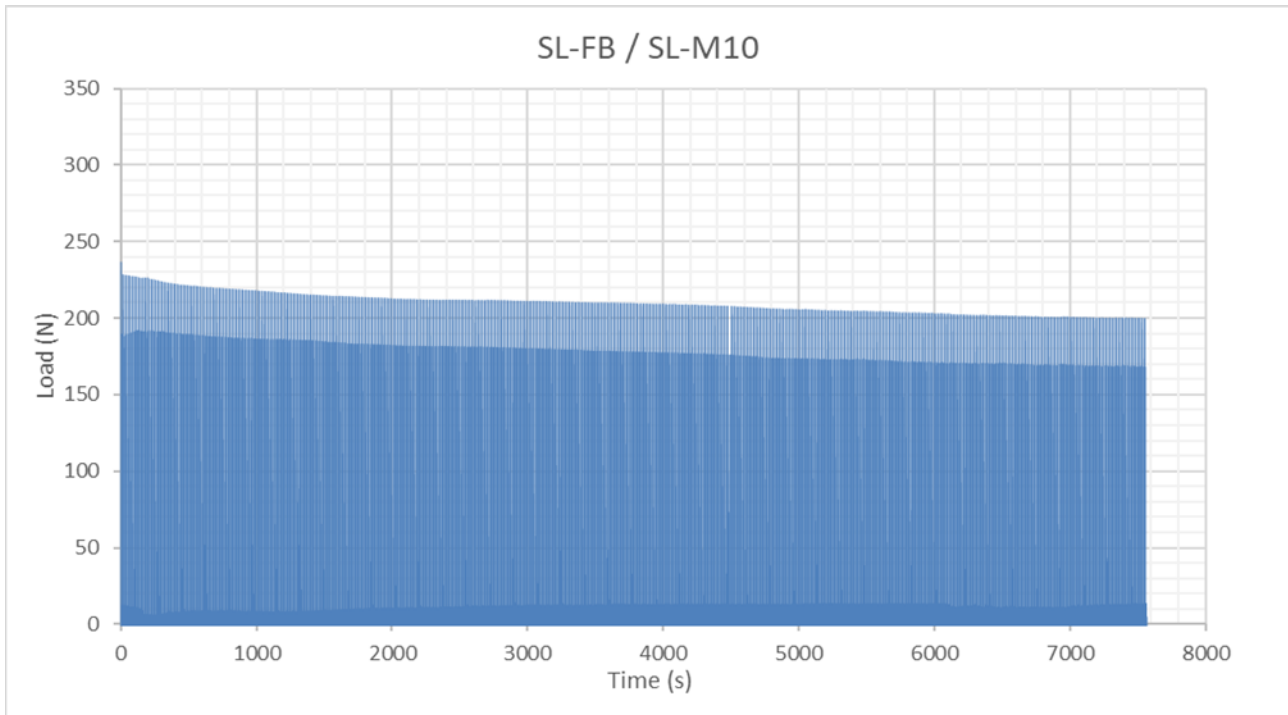


Figure 11 - Graphical representation of the SL-FB / SL-M10 clip set pull-out test

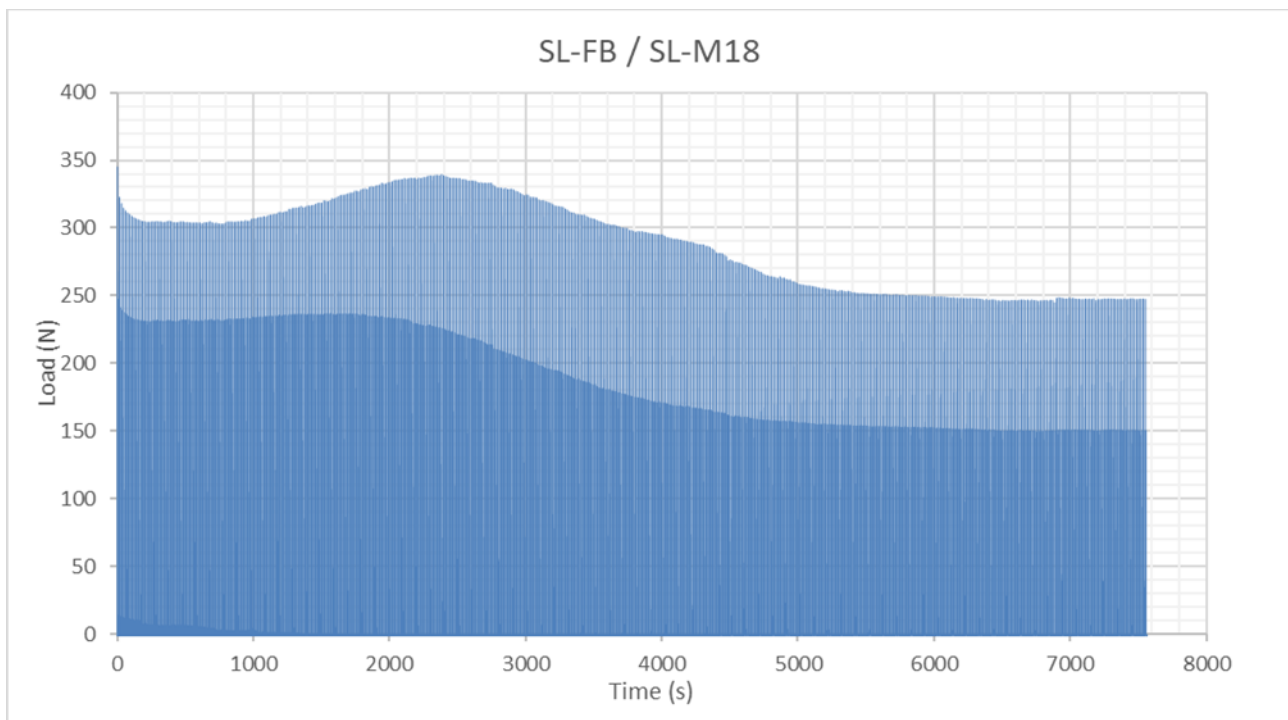


Figure 12 - Graphical representation of the SL-FB / SL-M18 clip set pull-out test

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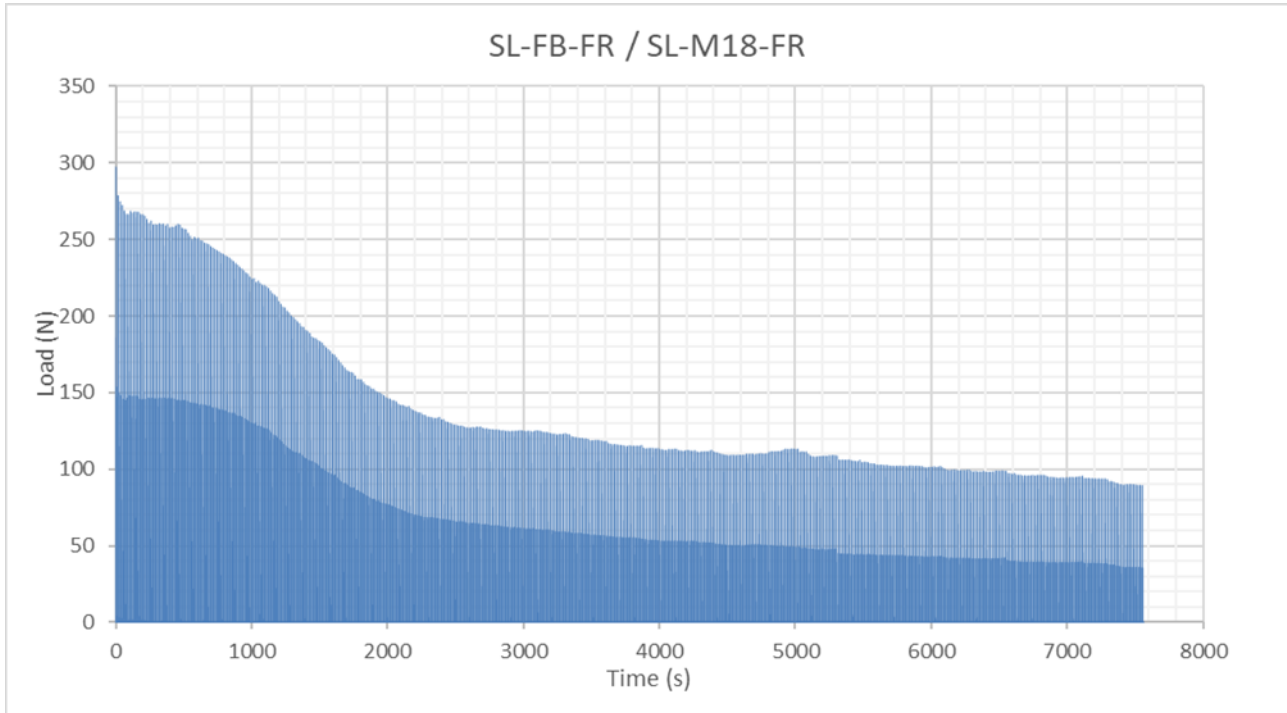


Figure 13 - Graphical representation of the SL-FB-FR / SL-M18-FR clip set pull-out test

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