

TEST REPORT No.: INZ76111-01

Client: Fastmount Limited
 Order No.: PO0595
 Sample Description: VL (Very Low Profile) Range
 Identification: VL-F3H Batch No: 26821 VL-M3X Batch No: 25836
 Material Specification: Acetyl / Nylon GF
 Tested in accordance with: As per method statement

Test: Repetitive pull-out load test (Fig. 2) and a shear test (Fig. 3) on the VL Range plastic mounting system.

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 and shear behaviour data shown in appendix A.

Shear test

A shear force was applied to the assembled plastic clip set ensuring no separation between the male and female clips through their axis while under load.

Test Conditions - 23 ± 2°C

Results:

Female / Male Clip	Pull-out Force (Kgf)		Shear Force (Kgf)	Comments
	Initial	After 500 Cycles		
VL-F3H / VL-M3X	41.5	12.9	121.4	Refer to fig. 4 and fig. 5 for photographic depiction of wear and shear outcome



VL-F3H



VL-M3X

Figure 1 - VL Range

Tested by: G. Schoutens	Reviewed By: Alistair Remington	Authorised By: Gijs Schoutens
Date: 30-Jun-21	03-Aug-22 <i>Alistair Remington</i>	03-Aug-22

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
 WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Samples will be retained for two (2) weeks after test date before disposal at SGS New Zealand Limited's discretion. Returning of samples to be advised in writing. Storage (when agreed by SGS New Zealand Limited) or return of samples at client's expense.

TEST REPORT No.: INZ76111-01



Figure 2 - Pull-out cycling

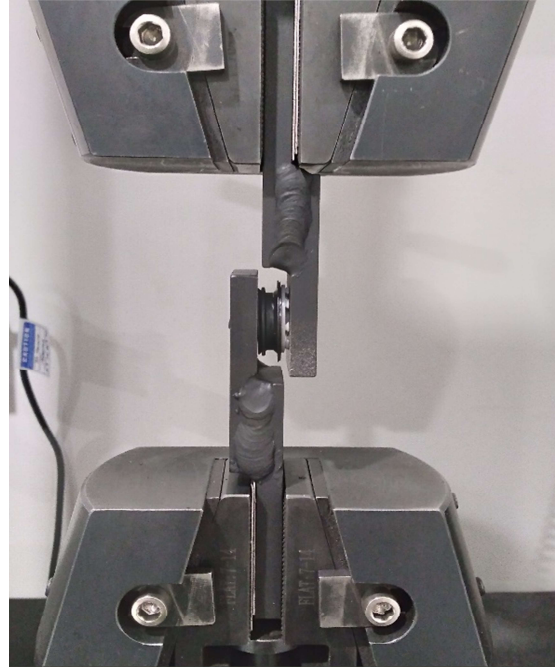


Figure 3 - Shear test setup



Figure 4 - Pull-out test after 500 cycles

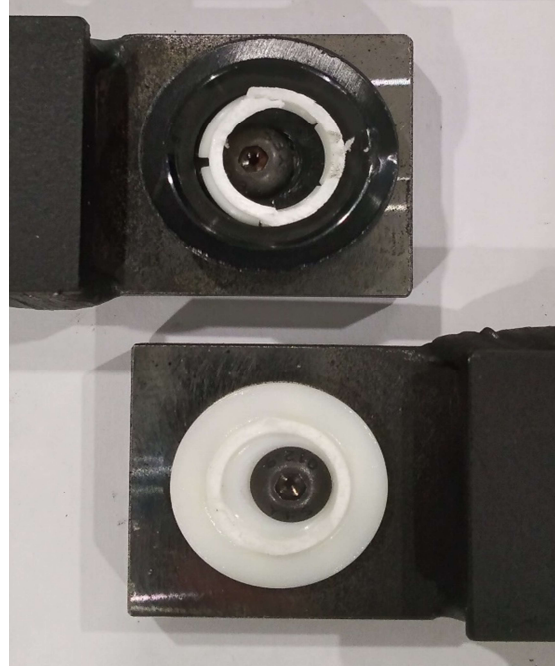


Figure 5 - Shear test after failure

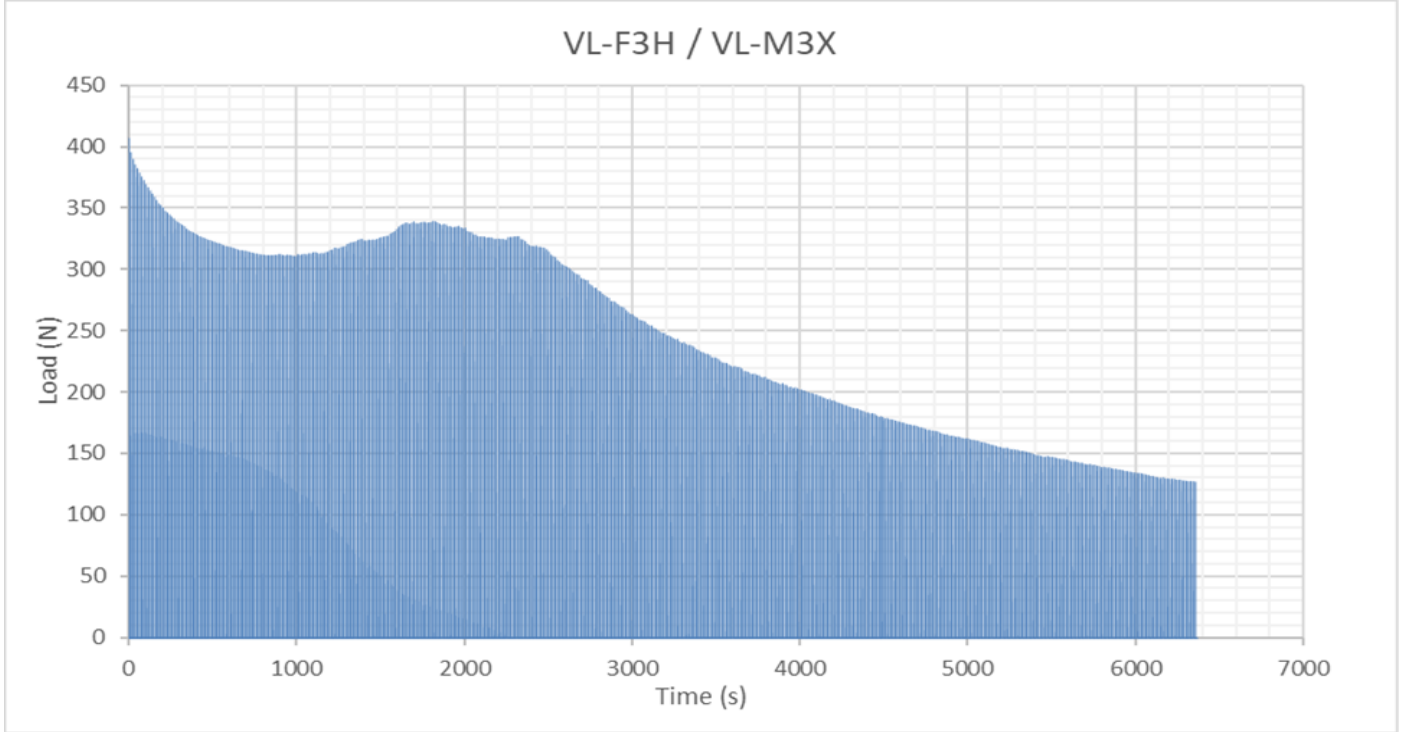
This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate were drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Samples will be retained for two (2) weeks after test date before disposal at SGS New Zealand Limited's discretion. Returning of samples to be advised in writing. Storage (when agreed by SGS New Zealand Limited) or return of samples at client's expense.

TEST REPORT No.: INZ76111-01

Appendix A

Graphical representation of pull-out behaviour over 500 cycles



Graphical representation of shear behaviour

