

TEST CERTIFICATE No.: INZ76605-01

Client: Fastmount
 Order No.: PO-0599
 Sample Description: Stratlock SMT-1 Sidemount clips
 Identification: SMT-1
 Material Specification: Material types as listed below
 Tested in accordance with: As per method statement

Test: Comparative static and dynamic load testing of various Sidemount clips types shown in figure 1.

Method: Static load test

A section of SL-RLE aluminium profile was securely fixed onto a test frame with the open section facing upward. Each clip type, with exception to the flat base, was fixed into the aluminium profile with 8G self drilling screws and the PS-150E PanelSafe placed in the clip housing to suspend a 50kg dead load, refer to figure 2. The dead load was suspended for 24 hrs and the clips inspected for signs of failure thereafter.

Dynamic load test

A section of SL-RLE aluminium profile was securely fixed onto a test frame with the open section facing downward. In turn, each clip type was fixed into the aluminium profile with 8G self drilling screws and the PS-150E PanelSafe placed in the clip housing. With the self taping fitting removed from the PanelSafe system, the M6 insert on the end of the cable was threaded into a 25kg drop load, refer to figure 3. The drop load was raised 15cm, the length of the PanelSafe cable, and allowed to free fall to dynamically load the clip and repeated until failure occurred.

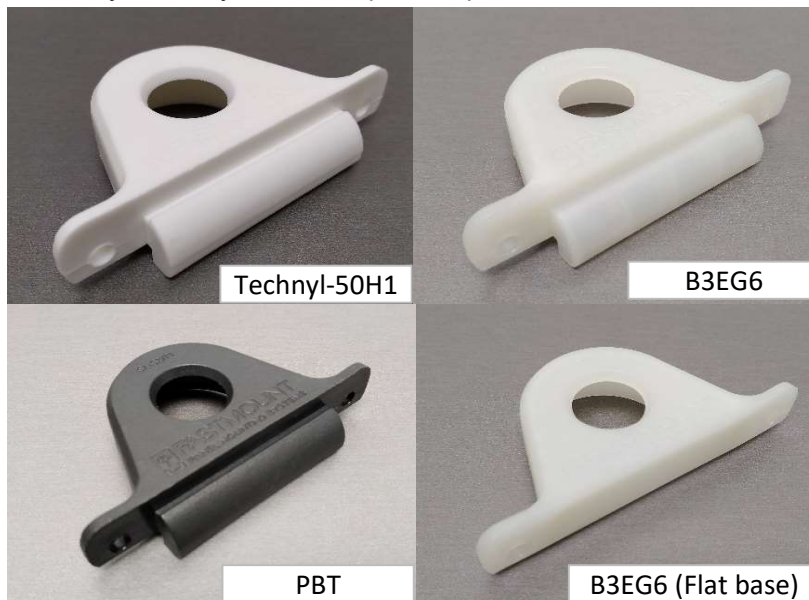


Figure 1 - SL-SMT1 Sidemount clips

Tested by: G. Schoutens

Reviewed By: Alistair Remmington

Authorised By: Gijs Schoutens

Date: 27-Sep-22

06-Oct-22

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06-Oct-22



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Results: Static load test

All clips tested sustained the 50kg dead load for 24 hrs and remained intact without any damage or noticeable permanent deformation. Deflection under load was observed in all three clips with the Technyl clip showing noticeably more deflection than the other two clips.

Dynamic load test

All the clips tested could sustain only one 25kg dynamic test from a 15cm height before failing. Three samples were tested from each batch with the results tabulated below

Clip Type	Sample	Comments
Technyl-50H1	1	Clip broke at the flange to PanelSafe housing interface
	2	Clip broke at the flange to PanelSafe housing interface
	3	Clip broke at the flange to PanelSafe housing interface
B3EG6	1	Clip sustained drop test with the PanelSafe cable crimp failing
	2	Clip sustained drop test with the PanelSafe cable crimp failing
	3	Clip sustained drop test with the PanelSafe cable breaking
B3EG6 (Flat base)	1	Screws pulled out of aluminium profile, clip remained intact
	2	Screws pulled out of aluminium profile, clip remained intact
	3	One screw pulled out and the flange section broke at other end
PBT	1	Clip broke at the flange to PanelSafe housing interface
	2	Clip broke at the flange to PanelSafe housing interface
	3	Clip broke at the flange to PanelSafe housing interface



Figure 2 - Sidemount clips under static load

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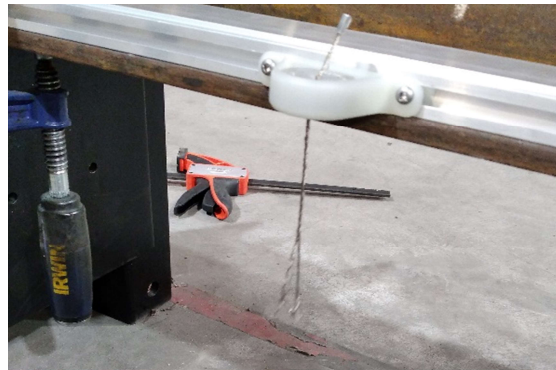
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Figure 3 - Dynamic load test setup



Technyl-50H1



B3EG6



B3EG6 (Flat base)



PBT

Figure 4 - Static load failures

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