



## Mechanical Testing Report

Report Number: WS154334 February 7, 2022  
Client: UNI-PIER AUSTRALIA PTY LTD Page 1 of 4  
188 Silverwater Road, NSW 2128  
Client Contact: Kerry Bennett  
Order Number: UP190321  
Test Requirement: Apply a compression load to screw top head assemblies till destruction as per Client instructions  
Sample Identification: 154334 A: Six 5mm x 65mm x 65mm x 2mm screw top head assemblies  
154334 B: Six 5mm x 75mm x 75mm x 2.5mm screw top head assemblies  
Sample: Twelve screw top head assemblies (refer photograph on page 2)  
Test Conditions: Ambient temperature 22°C Date/s of test: 7/02/2022

### Test Method:

- Screw top head assemblies were subjected to a compression load till destruction. (Refer photograph on pages 3 and 4).
- Each assembly was visually examined, and the results were recorded in the table 1 below.

**Test Machined used:** Shimadzu 500kN universal tensile testing machine, current calibration certificate no: N2221-X-6.

**Table 1**

Job No: (Size: 5mm x 65mm x 65mm x 2mm)	Maximum Load (kN)	Observations
154334 A - 1	84.0	Buckling of RHS and top plate attached to it.
154334 A - 2	81.7	Buckling of RHS and top plate attached to it.
154334 A - 3	80.9	Buckling of RHS and top plate attached to it.
154334 A - 4	81.3	Buckling of RHS and top plate attached to it.
154334 A - 5	85.5	Buckling of RHS and top plate attached to it.
154334 A - 6	83.2	Buckling of RHS and top plate attached to it.

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Testing Officer  
Sydney

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Job No: (Size: 5mm x 75mm x 75mm x 2.5mm)	Maximum Load (kN)	Observations
154334 B - 1	94.8	Buckling of RHS and top plate attached to it.
154334 B - 2	94.1	Buckling of RHS and top plate attached to it.
154334 B - 3	91.6	Buckling of RHS and top plate attached to it.
154334 B - 4	94.0	Buckling of RHS and top plate attached to it.
154334 B - 5	94.3	Buckling of RHS and top plate attached to it.
154334 B - 6	97.1	Buckling of RHS and top plate attached to it.

Sample B



Sample A

Sample as received

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Test set up

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*Krishnakar G*  
Ganesh Menon  
Testing Officer  
Sydney



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Typical post-test sample

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