



STATIC LOAD TESTING REPORT

Report No: NM16-2027.3 **Date:** 23 February 2016

Client: SCIENTIA COFFINS & CASKETS
A2 / 22 Powers Road
SEVEN HILLS NSW 2147

Contact: Mr. Isaac Leung **Order No:** COD

Test Date: 23 February 2016

Scope: The static load testing of a constructed coffin and associated hardware.
The client requested testing to establish a Working Load Limit of 150 kg's with a Safety Factor of 2.

Test Sample Identity: Solid timber (Mahogany) constructed coffin body, with solid brass handles.


Paul Titterton
NSW State Manager


Anthony Millard
Mechanical Testing Officer
Approved Signatory



NATA Accredited Laboratory No: 15535
Accredited for compliance to ISO/IEC 17025

Samples will be disposed of within 30 days of reporting unless prior arrangements are made. Test report shall not be reproduced except in full with out written approval of the laboratory. Test results described above, relate only to the samples submitted for testing.

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Test Description: The nominated coffin and associated hardware was subjected to a static load test. A calibrated, class A, 'S' type load cell (S/N: 80143) was used to measure the static load which was applied using ballast. Various static loads were applied and held for varying times as shown in test results.

Test Methodology: The nominated coffin and associated hardware was loaded with varying amounts of ballast and raised by the 4 attached handles. As close as practicable ballast was distributed to reproduced loading in imparted by a human body, i.e. higher concentration towards the torso.

Where test were performed with the lid in situ the lid fixings were not used.

Rigging incorporated load distribution beams to ensure equal loading of each of the four handles, Refer figure 1.

Engagement of the rigging with the handles was by means of choked synthetic fibre round-slings to eliminate point loading.

Varying loads were applied and held for durations shown in test results.

After each test loading the structure of the coffin, handles and attachment of handles were assessed for any permanent deflection and/or damage.

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Test Results:

1 Static Load Testing

Applied Test Load (Kg's)	Test Duration at Full Load	Tested With Lid	Results and Observations
330	5 Minutes	Yes	Supported test load with no evidence of permanent damage or deformation to handles and/or coffin.
353	5 Minutes	Yes	Supported test load with no evidence of permanent damage or deformation to handles and/or coffin.

Test Conclusion:

The coffin withheld a load of 330kgf for a period of 5 minutes without evidence of failure, permanent deformation, damage or loss of functionality. This establishes a Working Load Limit of 150kg's with a Safety Factor of 2.

The coffin subsequently supported a load of 353kg's without damage.

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Figure 1: General test configuration.



Figure 2: Showing coffin supporting 330kg's.