

A U S T R A L I A



REPORT

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Prepared for:

LEAVING LIGHTLY

Load Testing of a Funeral Casket

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Issued by

TESTSAFE AUSTRALIA

Dealing with

**CONDITIONING AND LOAD TESTING OF A FUNERAL CASKET
USING**

Australasian Cemeteries & Crematoria Association (ACCA) Guidelines

'The Use of Cardboard and other Receptacles'

Clause 5.c.ii

APPLICANT:	Leaving Lightly
ADDRESS:	2/24 Habib Drive SOUTH LISMOPRE NSW 2480
MANUFACTURER:	Not Specified
SAMPLE DESCRIPTION:	Funeral casket constructed from cardboard. Glued and stapled with cotton inner lining. Six lifting handles installed. The casket delivered for testing was identified by TestSafe Australia as sample S7299. External Dimensions: Width: 510 mm Length: 1850 mm Height: 365 mm Weight: 10.8 kg (including lid)
JOB No:	M14272

TEST DESCRIPTION

Test Dates: First lifting test: 13/01/2010
 Conditioning: 14/01/2010 — 21/01/2010
 Final lifting test: 21/01/2010

Equipment: Temperature/Humidity, Recorder, Tinyview, s/no. 521445
 Conditioning Chamber, Thermoline, s/no. 458A(N787)
 Rule, Rabone, s/no. LC 1484
 Electronic Scales, AND HP60, s/no. 13005880
 Stop Watch, Jadco, s/no. SWI

Test Method: A mass of 120 kg (sand bag) was placed into the casket. The casket was then raised off the ground using a lifting frame and hooks specially modified to attach to four of the six lifting handles only. A straight edge was placed on the base of the casket and the amount of distortion was measured both lengthways and crossways. This test was performed both with the casket lid removed and the lid in place.

While still containing the test mass the casket was placed on a flat surface inside an environmental chamber for a period of 7 days. The internal temperature of the chamber was maintained at $3\pm 2^{\circ}\text{C}$. After 7 days the casket was removed from the chamber and once again lifted as described above, and suspended for duration of 30 minutes. The distortion measurements were repeated, using the same method as for prior to conditioning, and the results tabulated below.

Test Results:

Test No.	Test Condition	Distortion measured	
		Longitudinal	Transverse
1	Before conditioning, Lid On	4 mm	2 mm
2	Before conditioning, Lid Off	5 mm	2 mm
3	After conditioning, Lid On	5 mm	2 mm
4	After conditioning, Lid Off	6 mm	2 mm

Remarks: At the completion of the conditioning period the casket was examined for signs of damage as a result of the test. Aside from the slight distortion outlined in the table above no damage was evident.

At the completion of the above test the casket was raised and lowered a further five times with the 120 kg mass inside and the lid on to simulate typical usage. Some flexing of the handles was evident, however there was no failure of either the handles or the casket.

Summery: The testing did not appear to cause any physical damage to the base and sides of the casket that would render it unserviceable. All the joints remained intact. There was no further damage evident to the casket or handles as a result of the multiple lifting cycle test.

Reference Document: Australasian Cemeteries & Crematoria Association (ACCA) Guidelines: "The Use of Cardboard and other Receptacles" -- issued November 2004, Clause 5.c.ii.

This testing was conducted without reference to an Australian Standard or similar document other than the guidelines listed above.

Overall Result: A statement of compliance with the reference document cannot be issued, as the document does not include test methods or pass/fail criteria. For a description of the tests and findings, refer to test results on pages 4 and 5, and photographs in Appendix A.

Report Issued By:



(J. Kent)

APPENDIX A - Test Photographs



Photo A1. Casket and lid as received for testing

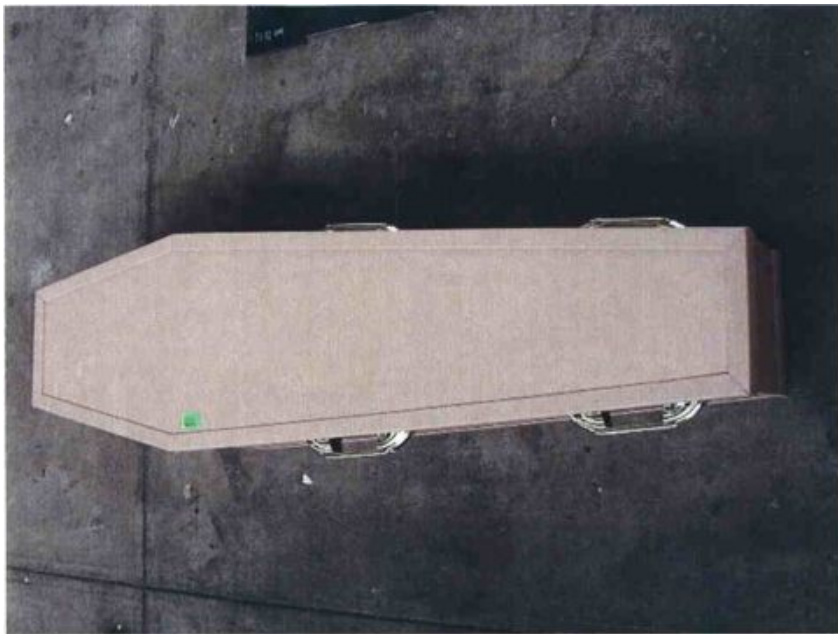


Photo A2. Casket with 120kg mass of sand added prior to testing and conditioning for 7 days at a temperature $3\pm 2^{\circ}\text{C}$



Photo A3. Performing the 30 minute suspension test on the casket with the lid in place after conditioning for 7 days at a temperature 3 ± 2 C



Photo A4. Close up of one of the lifting handles