



## PRODUCT TESTING REPORT

**Report No:** NM12-2093 **Date:** 28 April 2012

**Client:** **Leaving Lightly**  
5 Phyllis Street  
South LISMORE NSW 2480

**Order No:** **Letter of intent** **Contact:** Lee Bassett

**Description:** The purpose of this testing is to identify the load capacity of two (2) Cremation Capsules as instructed by our client.

**Sample Description:** **Cremation Capsule Number 1.**

This cremation Capsule is constructed from cardboard. Folded and glued by our client. No handles or internal lining installed.

Has a **single** 15mm honeycomb floor.

**Cremation Capsule Number 2.**

This cremation Capsule is constructed from cardboard. Folded and glued by our client. No handles or internal lining installed.

Has a **double** 15mm honeycomb floor (total floor thickness is 30mm).

**Test Results:** Refer to page 2 and 3 of this report.

Victor Konstantinoff  
Materials Consultant

Anthony Millard  
Mechanical Testing Officer

Samples will be disposed of within 30 days of reporting unless prior arrangements are made. Test report shall not be reproduced except in full without written approval of the laboratory. Test results described above, relate only to the samples submitted for testing.

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### Test Results:

#### Test Description: **Load Test for capacity.**

A mass identified by our client was placed into the cremation capsule. The cremation capsule lid was then fitted using standard 48mm wide packaging tape, consisting of three bands equally spaced along the length of the cremation capsule.

The cremation capsule was then supported at either end approximately 200mm from the ends by 100mm x 100mm timber blocks (to represent a person lifting the cremation capsule by hand). This was then lifted up.

Width and length measurements were performed to identify the distortion of the cremation capsule at various loads. Results are tabulated below.

#### Load Test for Capacity

##### **Cremation Capsule Number 1. (15mm floor)**

Test number	Applied test load	Distortion Measurements	
		Length	Width
1	80 kg	Nil	4 mm
2	90 kg	Nil	8 mm

##### **Cremation Capsule Number 2. (30mm floor)**

Test number	Applied test load	Distortion Measurements	
		Length	Width
1	90 kg	Nil	4 mm
2	100 kg	Nil	6 mm

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### Test Results:

#### Test Description: **ULTIMATE Load Test for capacity.**

A mass (incremented to identify the ultimate load carrying capacity) was placed into the cremation capsule. The cremation capsule lid was then fitted using standard 48mm wide packaging tape, consisting of three bands equally spaced along the length of the cremation capsule.

The cremation capsule was then supported at either end approximately 200mm from the ends by 100mm x 100mm timber blocks (to represent a person lifting the cremation capsule by hand). This was then lifted up.

Width and length measurements were performed to identify the distortion of the cremation capsule at various loads. Results are tabulated below.

### Test Results:

#### ULTIMATE Load Test for capacity.

##### **Cremation Capsule Number 1. (15mm floor)**

Test number	Applied test load	Distortion Measurements	
		Length	Width
1	100 kg	Nil	8 mm
2	160 kg	Nil	9 mm
3	220 kg	Collapse, both sides buckling.	

##### **Cremation Capsule Number 2. (30mm floor)**

Test number	Applied test load	Distortion Measurements	
		Length	Width
1	100 kg	Nil	6 mm
2	240 kg	1 mm	10 mm
3	280 kg	Collapse, both sides buckling.	

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**Figure 1.** Showing typical test set up with reference posts to measure the distortion under loading.



**Figure 2.** Showing typical test set up with reference to lift points as shown by timber block. Also showing the taped bands.