

11th July 2014

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Project No. 1-L0142.90
Lab Ref No. 004/14
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Load Test – Refin Concrete 600x600x20mm - Colour Dark Tiles supported on Deck Jacks™

Client:

Jacobsen Creative Surfaces Ltd
Attention: Natalie Rogers

Client Instructions:

To measure the point load capacity of the tiles submitted when supported on Deck Jacks™.

The tiles were supplied by Jacobsen Creative Surfaces Ltd.

Test Method:

The tiles were tested using a Shimadzu REH100TV Universal testing machine complying with Grade 1.0 of International Standard EN ISO 7500-1:1999 Part 1 as follows.

The tile under test, supported on Deck Jacks™ as shown in drawing below, was placed between the platens of the testing machine.

The load was then applied to the tile using a loading jig with a 20mm diameter rounded tip.

Test type 1 was set up as follows:

The centre of the loading point was at the mid-point of the tile as shown on page 2 of 3

The Deck Jacks™ were set up on the four corners of the tiles for all tests.

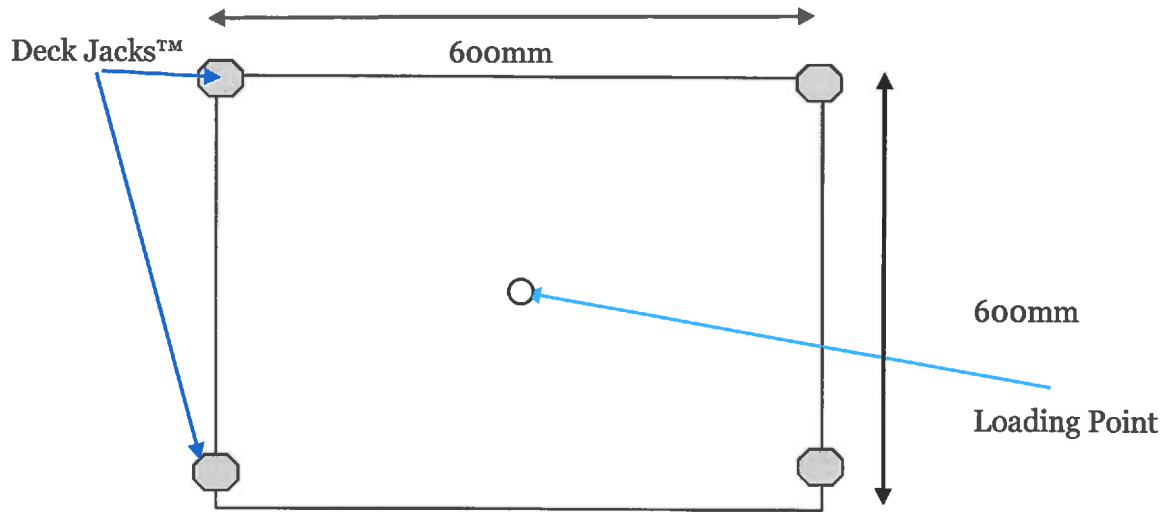
Test type 2 was set up as follows:

The centre of the loading point was at the mid-point and 50mm in from the side of the tile as shown on page 2 of 3

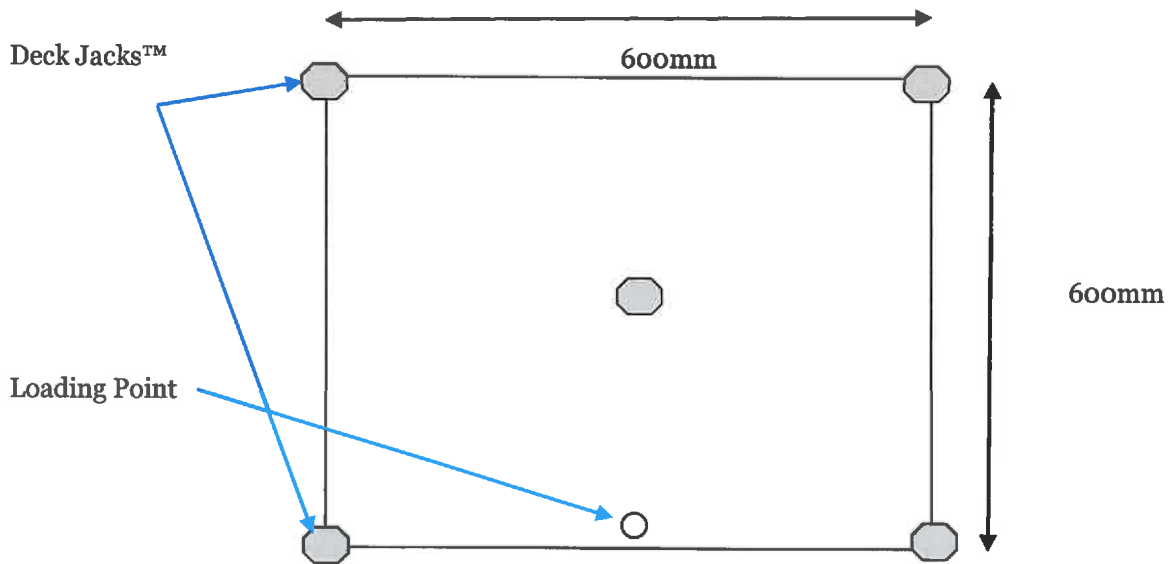
The Deck Jacks™ were set up on the four corners and in the centre of the tiles for all tests.

The load was then applied until failure of the tile occurred.





Test Type 1 setup (Not to scale)



Test Type 2 setup (Not to scale)



Findings:

Testing carried out 10th July 2014

Tabulated results

Test Type 1

Tile Size (mm)	Applied Load	
	Newtons	Kilograms
Nominal 600 x 600 x 20	8320	848
	9060	924
	8220	838
<i>Average</i>	<i>8533</i>	<i>870</i>

Test Type 2

Tile Size (mm)	Applied Load	
	Newtons	Kilograms
Nominal 600 x 600 x 20	6500	663
	6600	673
	6500	663
<i>Average</i>	<i>6533</i>	<i>666</i>

Tested:

 
B Richardson & Rowan Carlyle
Senior Technicians

Checked:


Dave G Hotham
Assistant Laboratory Manager/QA Manager

Date:

11/07/14