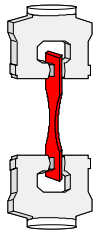


## Mechanical Testing

- Tensile
- Compression
- Bend
- Shear
- Load
- Structures
- Fasteners
- Tensioning & Staying Systems
- Structural Bearings





IN CONFIDENCE TO THE CLIENT

REPORT NO: MT-06/169

## TESTING OF THRUFLOW WALKWAY PANELS

CLIENT: **DAVID PADFIELD**  
ATTAR  
PO Box 286  
SPRINGVALE VIC 3171

DATE OF TESTING: MAY 25<sup>TH</sup> 2006

DATE OF REPORT: MAY 25<sup>TH</sup> 2006

### TEST SYNOPSIS:

Two ThruFlow walkway panels were delivered to the Melbourne Testing Services laboratory for load testing (See Fig.1). Upon arrival at the laboratory the test items were measured and the following dimensions were recorded:

Length: 1220mm  
Width: 300mm  
Depth: 30mm

At the request of the client load testing was to be conducted on the ThruFlow panels to determine if the panels could support test loads commensurate with the requirements of:

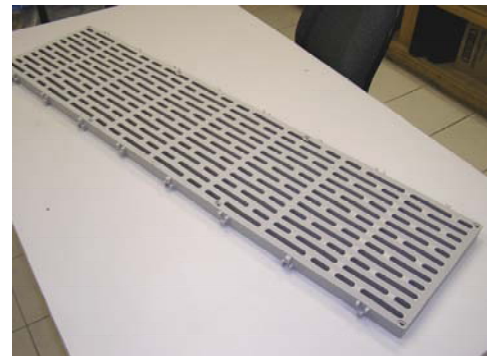
- AS/NZS 1170.1 STRUCTURAL DESIGN ACTIONS. PART 1: PERMANENT, IMPOSED AND OTHER ACTIONS.
- AS 3962-2001 GUIDELINES FOR MARINAS.

### TEST PROCEDURES:

Two tests were conducted in accordance with the following procedures:

1. A Simulated Uniformly Distributed Load (UDL) commensurate with a factored uniform pressure of 7.5kPa.
2. Concentrated load test of 2.1kN over an area of 350mm<sup>2</sup> (See Fig.2). *(Note that this test was conducted strictly in accordance with the clients, own clients instructions, using a linear load applicator measuring 58.3mm long x 6.0mm wide (350mm<sup>2</sup>). Load was applied in the mid-span region of the panel and bearing over three of the panels longitudinal ribs).*

Both tests were conducted for 15 minutes during which time the applied load and panel deflection was recorded. At the completion of testing the test panels were visibly inspected for signs of failure and the residual deflection was calculated.



**FIG.1.**  
**TEST ITEM**

**TEST OBSERVATIONS:**

***UDL Test***

The test panel supported the test load 2.75kN (7.5kPa) without visible sign of failure or excessive permanent deflection. The residual deflection recorded at completion of testing was calculated to be 2.8%. This is less than the maximum allowable value of 5.0% as specified in AS 3962:2001 Appendix B.

***Concentrated Load Test***

The test panel supported the factored test load of 2.1kN as required by AS/NZS 1170.1:2002 Table B1, without visible sign of failure. The residual deflection recorded at completion of testing was calculated to be 4.5%. This is less than the maximum allowable value of 5.0% as specified in AS 3962:2001 Appendix B.



**FIG.2.  
CONCENTRATED LOAD TEST**

**Notes:**

- 1) This report only indicates compliance of the ThruFlow walkway panel for uniform loading in its state at the time of testing. It should not be taken as a statement that all similar walkway panels or components of walkway panels in all states of repair, would also be found to comply.
- 2) It remains the responsibility of the client to ensure that the samples tested are representative of the entire product batch.
- 3) This report only covers the structural integrity of the ThruFlow walkway panel as tested and as described herein.
- 4) This report does not cover the actual walkway support structure or fixing of ThruFlow walkway panels.
- 5) Melbourne Testing Services shall take no responsibility for the results of testing or conformance of the ThruFlow walkway panel where the panel was tested for concentrated loading.

**RODNEY WILKIE  
AUTHORISED SIGNATORY**