



MACSIM®

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TEST CERTIFICATE

FOR REPORT NO. MT-19/1160
CLIENT: MACSIM AUSTRALIA PTY LTD
10 WONDERLAND DRIVE
EASTERN CREEK NSW 2766
PRODUCT IDENTIFICATION: *MACSIM Plastic Levelling Shims*
WORKING LOAD LIMIT (WLL): *20 Tonnes*
APPLICABLE STANDARDS:


- AS 3850.1: 2015 – PREFABRICATED CONCRETE ELEMENTS, PART 1: GENERAL REQUIREMENTS,
- ASTM D695 – 15: STANDARD TEST METHOD FOR COMPRESSIVE PROPERTIES OF RIGID PLASTICS

COMPLIANCE:

The MACSIM plastic levelling shims, as reported in Test Report MT-19/1160, have been tested in accordance with the selected procedures for compressive strength and creep performance as required by AS 3850.1: 2015. The plastic levelling shims have **PASSED** the requirements of the selected procedures for a Working Load Limit (WLL) of 20 tonnes.

Notes:

- Melbourne Testing Services Pty Ltd (MTS) shall not be liable for loss, cost, damages or expenses incurred by the client or any other person or company, resulting from the use of any information or interpretation given in Test Report MT-19/1160. In no case shall MTS be liable for consequential damages including, but not limited to, lost profit, damages for failure to meet deadlines and lost production arising from Test Report MT-19/1160. This document shall not be reproduced except in full and relates only to the items tested.
- This certificate only indicates compliance of the levelling shims in their state at the time of testing. It should not be taken as a statement that all similar levelling shims in all states of repair, would also be found to comply.
- It remains the responsibility of the client to ensure that the levelling shims tested are representative of the entire product batch.
- This certificate only covers the structural integrity of the levelling shims in accordance with AS 3850.1:2015 clause 2.8.1 and Appendix A11.
- MTS shall take no responsibility for the interpretation of the testing procedures and calculation of creep strain due to sustained loading. Specifically whereby MTS considers there is a degree of ambiguity with AS 3850.1:2015 with respect to testing and verification of levelling shims. For the shims as tested and reported in Test Report MT-19/1160, creep measurement records are specific to the post-loaded creep properties. This essentially means that strain measurements recorded during the loading procedure from zero to test load are not considered in the calculation creep strain. Verbal consultation with the industry representative engineers were conducted prior to testing. These discussions resulted in MTS understanding that the intent of the sustained loading creep test procedure was purely for the measurement of strain within the shim while under sustained stress.
- MTS shall take no responsibility for the procurement and authenticity of the levelling shims as described in Test Report MT-19/1160.
- MTS shall take no responsibility for the installation procedures used for the levelling shims.


CAREY ARTHURSON
ENGINEERING MANAGER, TESTING
DATE: JANUARY 6TH 2020


DANIEL HUMFREY
TEST ENGINEER