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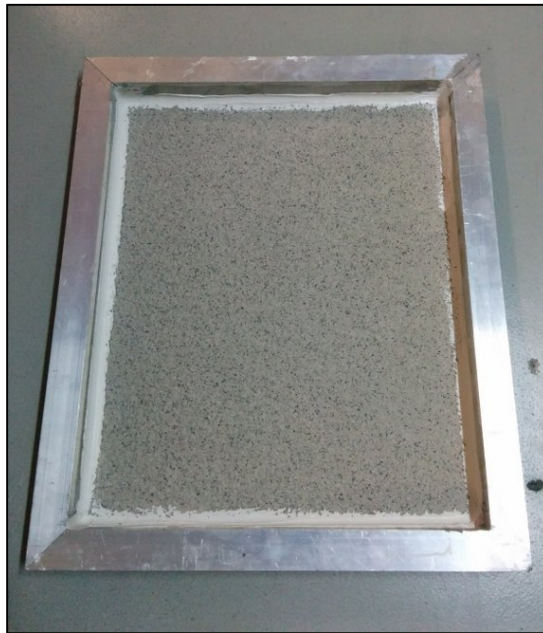
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Vipac Engineers & Scientists

Aussi Rossrock Import Pty Ltd

MgO Board Retesting



MgO Board Water Permeability Testing



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EXECUTIVE SUMMARY

Vipac Engineers and Scientists (Vipac) has been commissioned by Aussi Rossrock Import Pty Ltd (the client) to perform water permeability testing on their Magnesium-Oxide (MgO) particle board in accordance with AS/NZS 2908.2:2000 Clause 6.2.

This testing was carried out at the Vipac Laboratories in Port Melbourne on the 1st and 2nd of May 2014. Three test specimens were provided for the testing. All three specimens passed the testing to the requirements of Clause 6.2.



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1 INTRODUCTION

Vipac Engineers and Scientists (Vipac) has been commissioned by Aussi Rossrock Import Pty Ltd (client) to perform water permeability testing on their Magnesium-Oxide (MgO) particle board in accordance with AS/NZS 2908.2:2000 Clause 6.2.

This testing was carried out at the Vipac Laboratories in Port Melbourne on the 1st and 2nd of May 2014. Three test specimens were provided for the testing. All three specimens passed the testing to the requirements of Clause 6.2.

2 REFERENCES

Standards references in the test report are:

- AS/NZS 2908.2:2000 Cellulose-cement products, Part 2: Flat Sheets

3 TEST SAMPLES

Three test samples were provided by the client for testing. Samples provided were flat sheet cement board with a coating described by the client as Magnesium-Oxide (MgO). Samples provided measured approximately 600mm x 500mm x 10mm. Photos of the test samples are provided in Appendix A: Test Sample Photos

4 TEST METHOD

Testing was carried out in accordance with paragraph 8.2.2.4 of AS/NZS 2908.2:2000.

- An aluminum frame of dimensions 450mm x 550mm was placed on the face of the test sample and sealed in place with silicone.
- Once set, the test samples were filled with water to a depth of 20mm.
- The samples were placed in an environmental chamber for a period of 24 hours at the test conditions.
- After 24 hours the samples were removed and visually inspected.

5 TEST RESULTS

Test samples were visually inspected for traces of moisture and formation of droplets of water on the underside of the sheets. None were found. The test samples are deemed to comply with

Sample Number	24Hr Average Temperature (°C)	24Hr Average Relative Humidity ¹ (%)	Formation of Water Droplets Yes / No	Pass / Fail
Sample 1	26.9	65.4	No	Pass
Sample 2	26.9	65.4	No	Pass
Sample 3	26.9	65.4	No	Pass

Table 1: Results from the 24 hour test period.

6 CONCLUSION

On the 1st and 2nd May 2014, Vipac conducted water permeability testing in accordance with AS/NZS 2908.2:2000 Clause 6.2. The samples tested were deemed to pass the required test conditions.

¹ Relative humidity was outside the test specification of $50 \pm 10\%$ resulting in over testing of the test samples. Despite this the samples still passed the given test conditions. Based upon this Vipac regard this as a valid test.

Appendix A: TEST SAMPLE PHOTOS

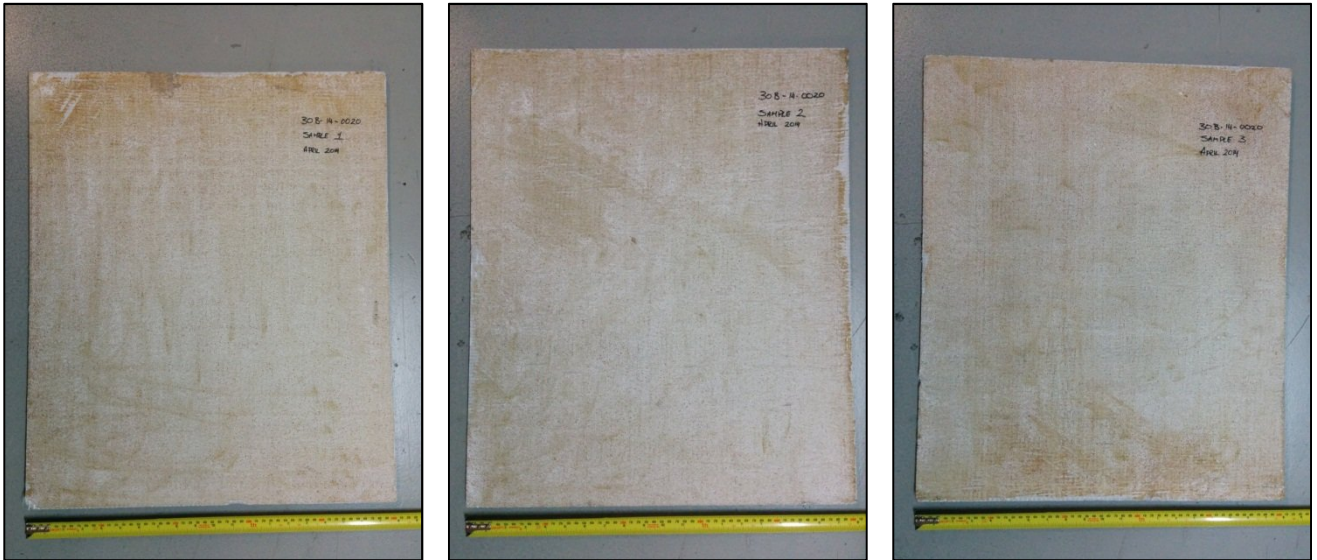


Figure 1: Test samples as supplied by the client prior to testing

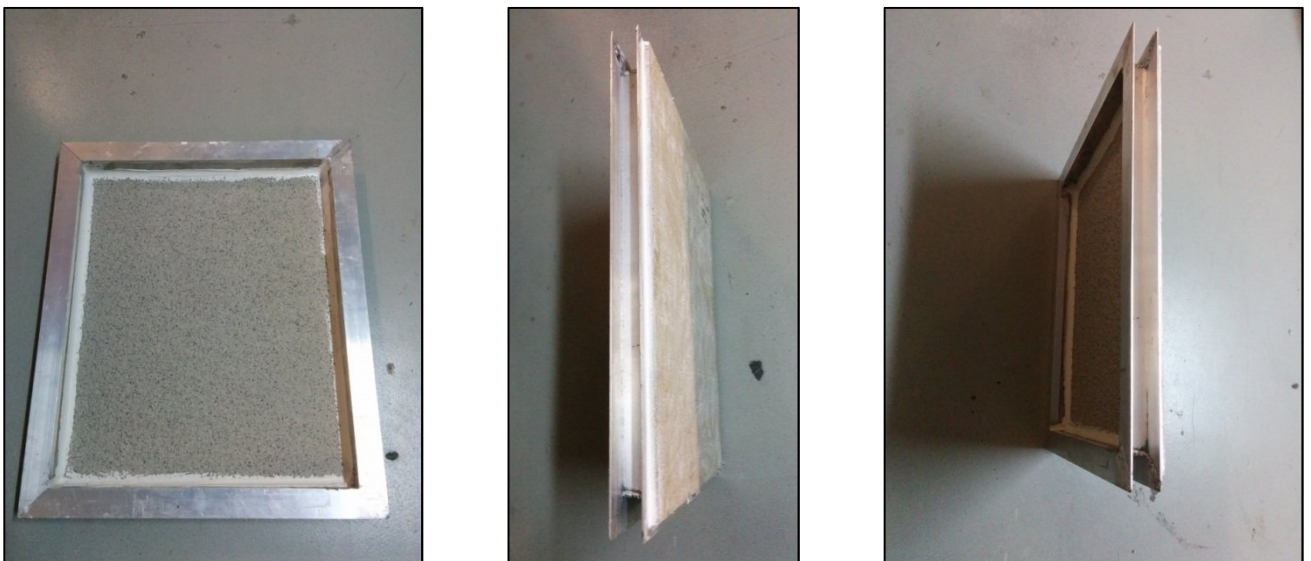


Figure 2: Preparation of test samples prior to testing

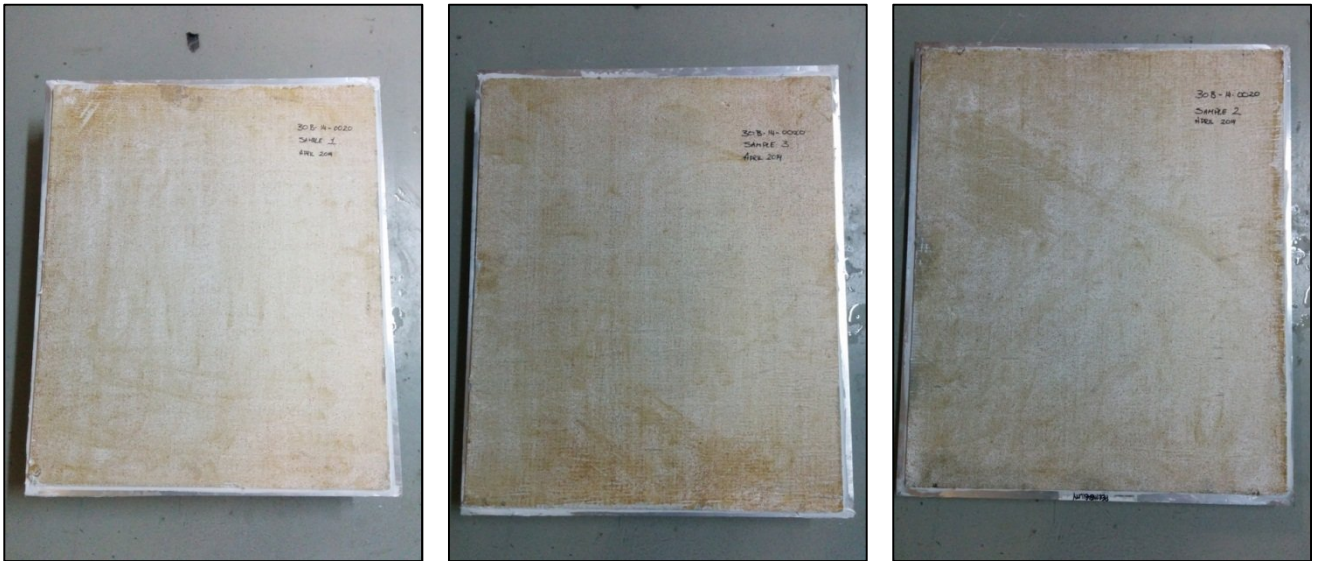


Figure 3: Test samples after completion of testing. No traces of moisture are evident on the rear of the test samples