

NRG Board
Partial Impact Testing Report

COMPILED FOR

NRG PTY LTD

BY SUMMMERMORE PTY LTD

16 March 2012

1.0 Introduction:

The aim of this report is to investigate the behaviour of the NRG Board and ascertain whether it is capable of meeting the requirements for debris impact as outlined in the Building Code of Australia.

2.0 Section Test Method:

The sample was tested as detailed in the attached reports from the University of Southern Queensland.

2.1 Selection of Materials

Summermore Pty Ltd had no input into the selection of materials used to manufacture the sample. NRG Pty Ltd manufactured the sample with no preference to sampling materials.

The samples were then transported to The University of Southern Queensland—Toowoomba Campus and the samples were intact on delivery.

3.0 Detailed Analysis:

3.1 Impact Testing

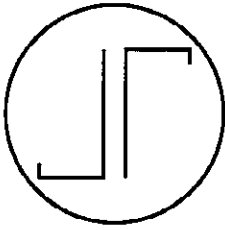
The partial debris load testing is specified as five spherical balls (8mm diameter) impacting at 34m/s.

3.1.1 Test Load Analysis

The 8mm ball test did not damage the test sample. The sample is deemed to have passed the partial impact tests.

4.0 Conclusion:

The test results provide that the sample is capable of withstanding the partial debris loading as specified in the Building Code of Australia 2011.



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Friday, 16 March 2012

Mr Scott Lehn
NRG Building Systems
Unit 4 32-38 Dover Drive
West Burleigh
QLD 4220

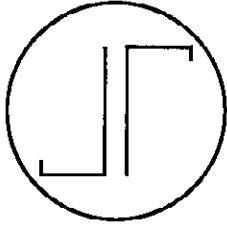
RE: Report on Impact Testing of NRG Board

We have pleasure in presenting the enclosed report and certification to you with respect to the Partial Impact Testing of NRG Board.

Should you have any queries with regard to the contents of the report, please do not hesitate to contact us.

Yours Faithfully

Ron Bell
Summermore Pty Ltd



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QLD 4220

RE: NRG Board Impact Testing

The purpose of this letter is to certify the results of partial impact testing of the NRG Board.

Observation:

The testing was completed at University of Southern Queensland by Mr Wayne Crowell. Summermore was supplied with the impact test reports for analysis

Certification

We, **Summermore Pty Ltd**, being Registered Structural and Civil Engineers, hereby confirm that the NRG Board with one rendered face fixed to timber stud framing is capable of providing impact resistance to cyclonic storms in accordance with the ball bearing test specification in Building Code of Australia 2011 as set out in the attached report.

Summermore Pty Ltd accepts no responsibility for information that has not been expressly identified as part of this certification. This certificate can only be relied upon by the addressee and cannot be relied upon by any third party.

If we can be of any further assistance in this matter, please do not hesitate to contact this office.

Certified by

Ronald Bell
Grad Cert (Tech Mgt), BEng Civil (Hons), PEng, MIEAust (891940), RPEQ (6715), RBP(Vic) EC27967, RBP(NT)(60596ES), MAIB (9225), JP(Qual).
Director
Summermore Pty Ltd