

Test Report
WFRA No. SFR 41166

FIRE RESISTANCE TEST
In accordance with
BCA Specification C1.10
Section 2 (d) (iii) and Specification A2.4
Clauses 2.2(b) and 2.5

Report for
Ecohousing Building Systems
5/15 Page Street
Kunda Park
Queensland 4556

1. Purpose of Test and Test Method

At the request of Eco Panels this test was undertaken by Warrington Fire Research Australia to determine if the steel facings were able to prevent ignition of the polyurethane core and continue to screen it from access to free air for a period of not less than ten minutes when subjected to the test conditions specified in BCA 2004 Specification A2.4 Clauses 2.2(b) and 2.5.

2. Description Of Test Specimen

The assembly was manufactured and supplied by the sponsor and described by them as follows:

Polyurethane Structural Insulated Panel.

Dimensions: 1735 long x 1155 wide by 110 thick corrugated zincalume steel clad panel.

Panels fixed at 150 centres by pan head "tek" screws.

3. Date of Test

The test was performed on 15th December 2004 at the Laboratory of Warrington Fire research (Aust) Pty. Ltd. 409-411 Hammond Road Dandenong Vic. 3175.

4. Test Procedure

The test was performed using the apparatus and procedures specified in AS1530.4 Fire-resistance tests of elements of building construction and this report should be read in conjunction with that Standard. The specimen was mounted horizontally and was exposed to the heating regime of AS1530.4-1997 for ten minutes. After 10 minutes the furnace was shut down and the front panel immediately removed to allow vision of the underside (fire-exposed) face of the specimen.

5. Test Observations and Results

Smoke was released from the specimen during the test but no ignition of the core was observed and the steel casings continued to screen the core material from free air.

6. Conclusion

When tested in accordance with the procedures specified in AS1530.4 – 1997 for a period of more than ten minutes, the assembly retained the protection in position so that it prevented ignition of the material and continued to screen it from access to free air for a period of at least 10 minutes as required by the Building Code of Australia 2004, Specification C1.10 Section 2 (d) (iii)

8. Limit of Application

The results of these tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

The results of these tests apply to the configurations as tested. Any variations to the test configuration may achieve different results. It is therefore recommended that any proposed variation to the tested configuration should be referred to Warrington Fire Research Australia in the first instance.

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