

An advisory report summarising the testing of Clear Form Wall Systems “200-mm PVC permanent formwork load bearing system” in accordance with BS 8414-2 2015 (amdt 1) as modified by AS 5113-2016 (amdt 1)

Advisory Report

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Client: Permaform Australia Pty Ltd

Commercial-in-confidence

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1 Introduction

This advisory report summarises the details and results of the test conducted on a product stated by the manufacturer to be identical to Clear Form Wall Systems “200-mm PVC permanent formwork load bearing system”. The test was conducted in accordance with BS 8414-2 2015 (amdt 1) as appropriate for a non-loadbearing external cladding system fixed to and supported by a structural steel frame. The test was undertaken for the purpose of classification of the external wall in accordance with AS 5113-2016 (amdt 1) Fire propagation testing and classification of external walls of buildings.

2 Identification of specimen

The sponsor of the test and the manufacturer of the specimen tested in CSIRO Report No. FNW7951 was Permaform International Pty Ltd identified the specimen as identical to Clear Form Wall Systems' “200-mm PVC permanent formwork load bearing system”.

Permaform International Pty Ltd has been acquired by Clear Form Wall Systems Pty Ltd and the specimen has been rebranded.

The manufacturer of the specimen tested in CSIRO Report No. FNW7951 has confirmed that the “200mm PERMAFORM permanent formwork wall system” is identical to the “200-mm PVC permanent formwork load bearing system” manufactured by the new business owners Clear Form Wall Systems Pty Ltd.

Permaform International Pty Ltd has confirmed in writing there is no change to the material specification or manufacturing process and the only difference is in the name and branding of the product.

3 Description of specimen

Refer to CSIRO Report No. FNW7951 for a complete description of the test specimen construction.

4 Test results

For a complete record of the results of the test, refer to CSIRO Report No. FNW7951 issued on 6th December 2019.

5 Classification

The classification results presented in CSIRO Report No. FNW7951 are reproduced below.

Classification Criteria	Classification measure	Result in test	Pass/Fail
5.4.5(a) T_{w5m}	$\leq 600^{\circ}\text{C}$	Exceeded at 14 min 54 seconds	Fail
5.4.5(b) $T_{\text{layer5m} - \text{Cavity}}$	$\leq 250^{\circ}\text{C}$	Not applicable	N/A
5.4.5(c) $T_{\text{unexposed side 0.9m}}$	$\leq 180^{\circ}\text{K Rise}$	34°K temperature rise	Pass
5.4.5(d) flaming	No flaming	No flaming occurred	Pass
5.4.5(d) openings	No openings	No openings occurred	Pass
5.4.5(e) spread	Spread beyond confines of specimen	Spread occurred beyond confines of specimen perimeter	Fail
5.4.5(f) debris flaming	$\leq 20 \text{ s}$	Flaming $\geq 20 \text{ s}$ occurred	Fail
5.4.5(g) debris mass	$\leq 2 \text{ kg}$	98 kg of debris fell from the specimen	Fail
Classification			Not classified

References

The following informative documents are referred to in this Report:

- AS 5113:2016 (amdt 1) Fire propagation testing and classification of external walls of buildings.
- BS 8414:2015 (amdt 1) Part 2: Test method for non-loadbearing external cladding systems fixed to and supported by a structural steel frame

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