Certificate of Conformity

Certification Body:

CertMark International
ABN: 80 111 217 568
JAS-ANZ Accreditation No. Z4450210AK
PO Box 7144, Sippy Downs Qld 4556
+61 (07) 5445 2199
www.CertMark.org

Certificate Holder:

Ozone Panel Pty Ltd.
ABN: 16 155 504 831
C/- Mutual Trust Limited
33 - 360 Collins Street
Melbourne VIC 3000
Ph: 1300 696 637
www.ozonepanel.com

Certificate number: CM40029 Rev3

THIS TO CERTIFY THAT

The Ozone Panel Building System

Type and/or use of product:

The Ozone Panel Building System consist of load bearing prefabricated panels.

Description of product:

The Ozone Panel Building System is a load bearing prefabricated panels consisting of two facades of OSB3 composite boards (FSC certified) bonded to Polyisocyanurate Foam.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2016

	Volume One		Volume Two	
Performance Requirement(s)	BP1.1 (a),(b) & (c)	Structural Performance	P2.1.1(a),(b)&(c)	Structural Stability and Resistance to Actions
	CP1	Structural Stability (refer A3 below)	P2.2.2	Weatherproofing
	CP2	Spread of Fire (refer A3 below)	P2.3.1	Spread of Fire (refer A3 below)
	FP1.4	Weatherproofing		
	FP5.2	Sound transmission and insulation	P2.4.6	Sound Insulation
	JP1	Energy use	P2.6.1	Building Fabric
	GP5.1	Design and construction – Bushfire Areas		
Deemed-to-Satisfy Provision(s):	C1.1	Type of Construction Required	Part 3.7.4	Bushfire Areas
	J1.2(a)	Energy Efficiency - Thermal Construction – General (refer A3 below)	Part 3.12.1.1 (a)	Energy Efficiency - Building Fabric Thermal Insulation (refer A3 below)
	J1.5(a) & (b)	Energy Efficiency of Walls (refer A3 below)	Part 3.12.1.4	Energy Efficiency - External Walls (refer A3 below)
State or territory variation(s):	SA C1.1 NT, Qld, NSW JP1		SA P2.3.1, NT P2.6.1 SA 3.7.1.3 NSW, Qld, SA, Tas, 3.7.4 TAS P2.3.4 NSW, NT, SA, Part 3.12 Vic 3.12.0	

John Thorpe - CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 30/11/2017

Date of expiry: 26/08/2019

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

1. The use of the Ozone Panel Building System is limited to Type C construction as defined in the BCA.
2. BCA Volume Two 2016: P2.2.2 (a), does not apply to Class 10 building except where its construction contributes to the weatherproofing of Class 1 building.
3. This product is not suitable for use in applications when non-combustible materials are required by the BCA.
4. The bushfire rating of up to BAL-40 is reliant on the incorporation USG Boral Firestop® cladding (refer A3 below).
5. This Certificate is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate is outside of this document's scope and the installation of the certified product/system will not be covered by this CodeMark certification. This may result in the product being classified as a non-conforming building product/system.

Building classification/s:

Classes 1,2,3,4,5,6,7,8, 9 & 10

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

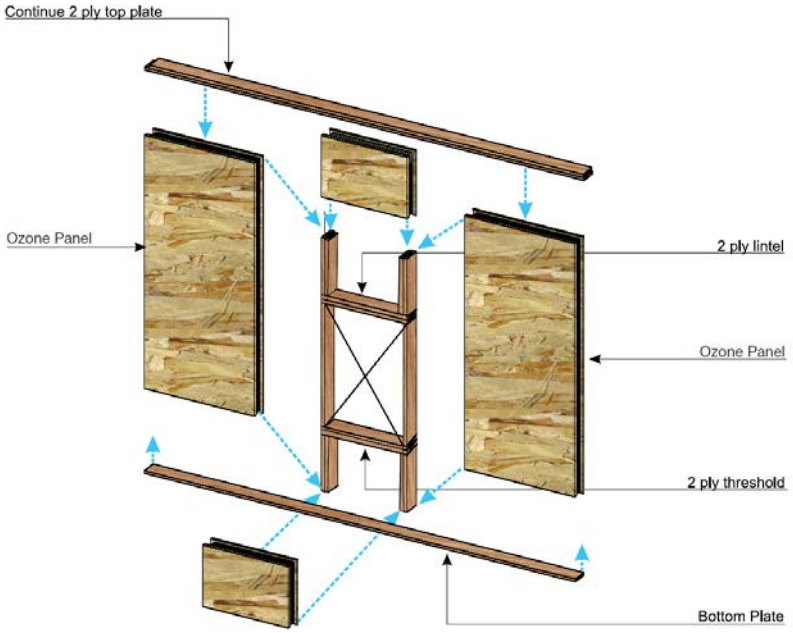
APPENDIX A – PRODUCT TECHNICAL DATA

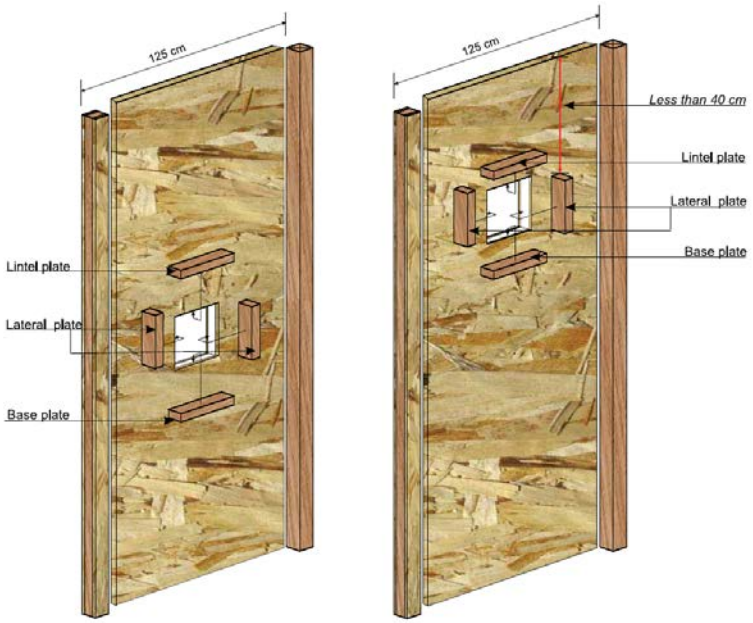
A1 Type and intended use of product

As per page one

A2 Description of product

The Ozone Panel Building System is a load bearing prefabricated panel system comprised of 16mm thick (measured) OSB/3 wood based boards with 90mm thick (measured) PIR Foam core. Refer to the schedule of components in A3 below for a full description of the fire rated panel.





A3 Product specification

FIRE:

With regard to reaction to fire this Certification relates only to the FRL achieved by the test specimen consisted of 120mm thick Ozone Panels comprising of 16mm OSB/3 wood based boards with 90mm PIR Foam core, with one layer of 16mm USG Boral Firestop® plasterboard on the fire side only. The panel system incorporated timber framing around the perimeter of the wall system.

Schedule of components

Tested by Exova Warringtonfire:

Item	Description	
1	**Name**	Ozone Panels
	Specification	Panels comprised of 16mm thick (measured) OSB/3 wood based boards with 90mm thick (measured) PIR Foam core.
	Density	OSB/3 = 659kg/m³ (measured). PIR Foam core = 43.89kg/m³ (measured).
	Installation	Installed vertically with PIR foam at all edges cut- out to accommodate the timber framing around the perimeter and the Ozone Panel studs on all internal vertical and horizontal joints.
2	**Name**	Ozone Panel studs
	Size	90 × 90mm
	Specification	Panels comprised of 16mm thick (measured) OSB/3 wood based boards with 58mm thick (measured) PIR Foam core.
	Density	OSB/3 = 659kg/m3 (measured). PIR Foam core = 43.89kg/m3 (measured).
	Installation	Fitted into grooves cut into the Ozone Panel (Item 1) joints. See figure A.1.1-A1.4 for details.
3	**Name**	Exposed Cladding
	Product Name	USG Boral Firestop®
	Size	16mm thick
	Density	794kg/m3 (measured)
	Installation	Fixed to the exposed side of the Ozone Panel wall with Item 7 at 400mm centres.
4	**Name**	Timber Framing (MGP 10)
	Size	90 × 45mm
	Installation	A single piece fitted into the grooves made along the 2 vertical edges and the bottom, with a double layer along the head.
5	**Name**	Plasterboard capping
	Specification	16mm thick × 152mm wide Boral USG Boral Firestop®
	Installation	Used to cover the timber framing along the vertical edges and screw (Item 9) fixed to timber framing at 200mm centres.
6	**Name**	Sealant
	Product name	HB Fuller “Firesound”
	Installation	Applied to exposed side cladding joints and Ozone Panel joints on fire side only.
7	**Name**	Fixing
	Size	6g × 41mm Bugle head Coarse thread screws

	Installation	Fixing the exposed cladding to the Ozone Panels at 400mm centres.
8	**Name**	Fixing
	Size	3mm gauge × 55mm Ring shift nail
	Installation	Fixing the Ozone Panels to Ozone Panel studs at 150mm centres and Ozone Panels to timber framing at 100mm centres.
9	**Name**	Fixing
	Size	3.5g × 30mm PZ2 timber screws
	Installation	Fixing the plasterboard capping to the timber framing at 200mm centres.

Source: Exova Warringtonfire, Report No. 2758400.

Exova Warringtonfire Test Results:

The specimen tested achieved the following performance with respect to the performance criteria listed in AS 1530.4-2005, Section 2 & 3.	
Criteria	Result
Structural Adequacy	No Failure
Integrity	Failure at 81 minutes
Insulation	Failure at 77 minutes
FRL	60/60/60

Source: Exova Warringtonfire, Report No. 2758400

Note: Any variation from the above tested componentry is outside the scope of this certificate of conformity.

A4 Manufacturer and manufacturing plant(s)

This field is voluntary. For more information, please contact Certificate Holder.

A5 Installation requirements

- The Ozone Panel Building System Must be installed in accordance with the Ozone Panel Technical Manual, October 2017.
- Only to be installed by a suitably licenced tradesperson as approved by Ozone Panel Pty Ltd.
- Any proposed applications of The Ozone Panel Building System that fall outside of the scope of the Ozone Panel Technical Manual, October 2017, either in design or class of structure, must be referred to the Certificate Holder for evaluation and approval.
- The Ozone Panel Building System is permitted for use in C4 Cyclonic Regions.
- For use in bushfire prone areas requiring up to BAL Flame Zone performance rating in accordance with AS 3959-2009 ‘Construction of buildings in bushfire-prone areas’.

A6 Other relevant technical data

Specification C1.1 Fire-Resisting Construction Where an FRL of No More Than 60/60/60 Is Required Subject to the Specific Wall Design.

R VALUES

- 90mm thick panel – R 2.83
- 120mm thick panel – R 3.99

FP1.4 does not apply to (Class 7-8 building where in the particular case there is no necessity for compliance or a garage, tool-shed, sanitary compartment, or the like, forming part of the building used for other purposes or an open spectator stand or open deck car park.

Where applicable, the product can be used in conjunction with other building elements to achieve Total R values and or Acoustic values.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Structural Provision A2.2 (a) (i) & (iii) and 1.2.2 (a) (i) & (iii). Reports from NATA accredited test laboratories and certificates from Professional Engineer.
2. Weatherproofing A2.2 (a) (i) & (iii) and 1.2.2 (a) (i) & (iii). Reports from NATA accredited test laboratories and certificates from Professional Engineer.
3. Thermal Provision A2.2 (a) (i) & (iii) and 1.2.2 (a) (i) & (iii). Reports from NATA accredited test laboratories and certificates from Professional Engineer.
4. Acoustic Provision A2.2 (a) (i) & (iii) and 1.2.2 (a) (i) & (iii). Reports from NATA accredited test laboratories and certificates from Professional Engineer.
5. Fire Safety Provision A2.2 (a) (i) & (iii) and 1.2.2 (a) (i) & (iii). Reports from NATA accredited test laboratories and certificates from Professional Engineer.

B2 Reports

1. Vipac Engineers & Scientists NATA Accreditation No: 676, Test Report 30B-15-0093-TRP-614078-1 Dated: 28 Mar 2017 Structure & Waterproofing testing to ISO 22452:2011 AS 4155.8:1993 AS 1684.2:2010 AS/NZS 4284:2008.
2. Vipac Engineers & Scientists NATA Accreditation No: 676, Test Report 30B-12-0004-TRP-259616-0 dated 17/08/2012 NATA, Ozone Panel Thermal Analysis Thermal construction, Energy Efficiency of Walls.
3. Vipac Engineers & Scientists NATA Accreditation No: 676, Test Report 30B-12-0004-TRP-257417-0 Dated 28/06/2012 Structural Stability Racking resistance, Axial load compression and Wind pressure resistance, compliance to Structure.
4. Vipac Engineers & Scientists NATA Accreditation No: 676, Test Report 30S-17-0049-TNT-617950-0 Dated 24/05/2017 Ozone Panel Thermal Analysis Thermal construction, Energy Efficiency of Walls.
5. Exova Warringtonfire Accreditation No: 3277, Report No. 2758400 dated 22/08/2017 In accordance with AS 1530.4:2005 60/60/60 FRL compliance to Fire provisions.
6. Bligh Tanner Consulting Engineers Report No. 2012.316.300 dated 29/11/2012 Compliance to structural provision.
7. Bligh Tanner Consulting Engineers Report Dated: 27 April 2017 Ref. No. 2016.0610 Evaluation Report. Compliance to structural provision.
8. Report Reddo Represent Consult Translate Dated 15/03/2012 In accordance to AS 1530.8:2007. Structural Stability BAL 12.5 to BAL 40.

Note: The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.