



# CERTIFICATE OF CONFORMITY

This is to certify that

## Formance Panels SIP Building System



### Complies with the New Zealand Building Code:

1. B1.3.1, B1.3.2, B1.3.3 (Excluding (d),(i) & (k)) and B1.3.4 (Excluding c)
2. B2.3.1(a)
3. F2.3.1
4. H1.3.1(a) and (b)

### Product Description

Formance Panels SIP Building System consists of a composite panel wall system, floor system and roof system, utilising a flame-retardant Expanded Polystyrene (EPS) core between layers of Oriented Strand Board (OSB) facing material for buildings within the scope of NZS 3604:2011 Timber-framed Buildings.

### Certificate Holder



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### Certification Body

### CertMark International Pty Ltd

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PO Box 321 Tuakau 2121  
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### Product Purpose or Use

Formance Panels SIP Building System is intended for use as walls, floors and panels beneath roofing.

### Subject to the following Conditions & Limitations:

- a. This Certification relates solely to the Formance Panels SIP Building System; all other building elements are excluded.
- b. Design and Installation of the Formance Panels SIP Building System must be carried out in accordance with either the Formance Design Guide V1.1 or the Formance Ready Guide V1.0 depending on the scope of work.
- c. All other elements of the building, including but not limited to, external moisture control and internal moisture control are outside the scope of this Certificate and are required to comply with the New Zealand Building Code.
- d. The Certificate Holder must maintain compliance with the conditions set out in Section 15 of the Building (Product Certification) Regulations 2008.
- e. Information contained herein or related hereto is intended only for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.

  
**John Thorpe**  
CertMark International Pty Ltd

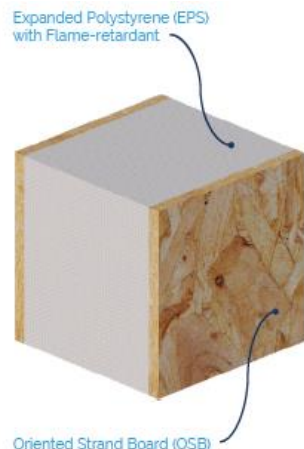
13/08/2018  
Date of Issue

CM40043-I02-R01  
Certificate Number

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## A1 Product or System Specification



### Structurally Insulated Panel (SIP) Components

- Oriented Strand Board (OSB) density 560kg/m<sup>3</sup>;
- AS/NZS 1366-1989 compliant Expanded Polystyrene (EPS); and
- Adhesive.

### Technical properties

Size	Weight
115mm	15.2 kg/m <sup>2</sup>
165mm	16.2 kg/m <sup>2</sup>
215mm	17.2 kg/m <sup>2</sup>
265mm	18.2 kg/m <sup>2</sup>
315mm	19.2 kg/m <sup>2</sup>

## Type and Use of Product

Formance Panels SIP Building System is a sandwich structured composite, consisting of an insulating layer of rigid core sandwiched between two layers of OSB structural board.

## A2 Installation Requirements

Design and Installation of the Formance Panels SIP Building System must be carried out in accordance with either the Formance Design Guide V1.1 or the Formance Ready Guide V1.0.

## A3 Other Relevant Technical Data

Clause	Reference
<b>B1 Structure</b>	The Formance Design Guide V1.1 and Formance Ready Guide V1.0 contain structural design tables and details for residential and light commercial buildings built in accordance with the New Zealand Building Code (NZBC). If installed in accordance with the relevant aforementioned guide(s), the Formance Panels SIP Building System will meet the requirements of NZBC B1.3.1, B1.3.2 and B1.3.3 (Excluding (d),(i) & (k)) and B1.3.4 (Excluding c)
<b>B2 Durability</b>	Formance Panels SIP Building System is engineered and manufactured to comply with NZBC B2.3.1 (a). The thickness of Formance Panels SIP Building System must be selected from the span tables contained in The Formance Design Guide V1.1 or the Formance Ready Guide V1.0
<b>E2 External Moisture</b>	<p>External moisture is not within the scope of this Certificate of Conformity; however, the following information may be of benefit to the reader: Weathertightness is a function of other building elements, such as but not limited to:</p> <ul style="list-style-type: none"> <li>• wall cladding, roofing, flashings, cladding and roofing underlay.</li> </ul> <p>The Oriented Strand Board (OSB) facing board of Formance Panels SIP Building System is treated equivalent to H1.2 treatment and is therefore required to be dry in use and protected from weather. All timber inserted into the Formance Panels SIP Building System is to be min. H1.2 treated. It is the responsibility of the building designer to ensure that the appropriate steps are taken to protect the panels from external moisture.</p>

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### E3 Internal Moisture

Internal moisture is not within the scope of this Certificate of Conformity; however, the following information may be of benefit to the reader: Formance Panels SIP Building System should be protected from moisture in all wet areas, such as but not limited to:

- kitchen, laundry, bathroom.

Formance Panels SIP Building System can be protected by various internal wall linings complying with NZBC E3, special plasterboard or various paint systems.

It is the responsibility of the building designer to ensure that the appropriate steps are taken to protect the panels from internal moisture.

### F2 Hazardous Building Materials

Formance Panels SIP Building System are constructed of non-hazardous building materials.

### H1 Energy Efficiency

The R-Value of Formance Panels SIP Building System increases with the thickness of the panel due to the thickness of the EPS core.

Size	R value
115mm	R2.8
165mm	R4.3
215mm	R5.7
265mm	R7.2
315mm	R8.6

It is the responsibility of the Building Designer to ensure that the product is fit for purpose and that the overall envelope will achieve the desired thermal values.

## B1 Basis of CodeMark Certification

The Formance Panels SIP Building System has been evaluated in accordance with the requirements of the Building (Product Certification) Regulations 2008 Clause 8. CMI has followed procedures for certifying the Formance Panels SIP Building System that are based on evidence established by:

- Testing of the Formance Panels SIP Building System;
- Assessing a quality plan for the Formance Panels SIP Building System that conforms to ISO10005 and the CodeMark scheme rules;
- By reviewing testing of, samples supplied to ascertain whether or not the product meets the performance requirements specified on this certificate; and
- Conducting site audits of the factory to verify compliance of the Formance Panels SIP Building System.

## B2 Sources of Information

- 50-year durability compliance report; Dated June 2018.
- Structural design compliance reports; Dated 09/08/2018.
- Flame Propagation report; Dated 07/04/2017.
- Formaldehyde Emission Testing; Dated 18/10/2007.
- Thermal Calculations; Dated 18/02/2016.
- Product review by a Licenced Building Professional; Dated 08/08/2018.

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