



PRODUCT CERTIFICATE

Kingspan TEK Panel Building System



BUREAU
VERITAS

CERTIFICATE NO: CM70025 Rev1

Date of issue: 25 March 2021

1 CERTIFICATE HOLDER DETAILS

Knightbuilt Limited

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Knight Built

2 PRODUCT CERTIFICATION BODY

Bureau Veritas Australia Pty Ltd

3/435 Williamstown Road
Port Melbourne VIC 3207
Australia

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Bureau Veritas Australia Pty Ltd

The complaints process for this certificate
can be found here:

www.bureauveritas.com.au/your-feedback

KEY INFORMATION

3 SUMMARY OF DESCRIPTION OF BUILDING METHOD OR PRODUCT

Kingspan TEK panels are structural insulated panels (SIPs), consisting of PUR foam sandwiched between two layers of OSB/3 strandboard, with a total thickness of either 142mm with R5.1 thermal resistance, or 172mm with R6.4 thermal resistance.

Continuation of description can be found in item 9. Supporting Information about Description of Building Product or Method.

Matters that should be taken into account in the use or application of the building method or product can be found in item 6. Conditions and Limitations of Use.

4 SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT

The Kingspan TEK Panel Building System is a fully insulated structural wall and/or roof system. The Kingspan TEK Panel Building System is a structural component only, and requires an external envelope cladding, over a cavity batten and building wrap to make it weathertight.

Continuation of intended use can be found in item 8. Supporting Information about Intended use of Building Product or Method.

5 BUILDING CODE PROVISIONS

The performance clauses of the New Zealand Building Code that are relevant to the intended use and with which the building method or product complies or contributes to (where used as part of a system).

B1 Structure – B1.3.1, B1.3.2, B1.3.3 (a), (b), (c), (f), (g), (h), (j), (l), (m), (p), (q), (r), B1.3.4

B2 Durability – B2.3.1 (a), B2.3.2 (a)

E2 External Moisture – E 2.3.1 (contributes to), E2.3.2 (contributes to), E2.3.7

E3 Internal Moisture – E3.3.1

F2 Hazardous Building Materials – F2.3.1

G6 Airborne and Impact Sound - G6.3.1 (contributes to)

H1 Energy Efficiency – H1.3.1 (a), (b) (contributes to), H1.3.2E (contributes to)

How the building method or product complies or contributes can be found in item 12. Basis for Certification. Any qualifications on the extent of that compliance can be found in item 6. Conditions and limitations of use.

JAS-ANZ



This certificate is issued by an independent certification body accredited by JAS-ANZ, the product certification accreditation body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment under the Building Act 2004.

The Ministry does not in any way warrant, guarantee, or represent that the building method or product that is the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. The Ministry disclaims 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 building method(s) or product(s) referred to in this certificate.

This certificate may only be reproduced in its entirety. It is advised to check that this certificate is currently valid and not withdrawn or suspended by referring to the Register of Product Certificates on the Building Performance website <http://www.building.govt.nz>.

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6 CONDITIONS AND LIMITATIONS OF USE

1. Kingspan TEK SIP panels have been certified for buildings:
 - a) within the scope of NZS3604:2011 para 1.1.1, (with respect to floor plan area and building height), and
 - b) located in any earthquake zone, and
 - c) located in any wind zone up to and including Extra High and risk score up to and including 20 (as defined in E2/AS1), and
 - d) located in any exposure zone (as defined in NZS3604:2011)
 - e) any climate zone (as defined in NZS4218:2009), and
 - f) where the construction incorporates a drained and ventilated cavity complying with the requirements of E2/AS1 (refer Conditions 4 - 6 below).
2. Kingspan TEK SIP panels shall be:
 - a) installed in accordance with the Kingspan TEK Construction Manual for 142mm Structural Insulated Panels (Second Issue October 2015) and addendum (Version 4 August 2020), or
 - b) installed in accordance with the Kingspan TEK Construction Manual for 172mm Structural Insulated Panels (First Issue 2016) and addendum (Version 3 August 2020).
 - c) Installed by persons or organisations who have been trained and certified by Knightbuilt Ltd. For a list of certified installers please contact the Certificate holder.
3. The structural design of buildings incorporating Kingspan TEK SIP panels shall be supported by specific engineering design following the procedures specified by the report attached to the respective addendum.
4. Exterior faces of Kingspan TEK wall panels shall be wrapped using Proclima Solitex Extasana membrane.
5. Proclima Solitex Mento 3000 membrane shall be applied over Kingspan TEK roof panels.
6. Openings and penetrations shall be properly taped, using tapes compatible with the building wrap, in accordance with the Proclima Solitex installation guides.
7. The acoustic performance of the Kingspan TEK Building System incorporated into single TEK and double TEK party walls shall be verified by pre-completion testing.

NOTE: Together, items 3, 4, 5 and 6 define scope of use.

7 HEALTH AND SAFETY INFORMATION

The compliance with any manufacturer's installation instructions, maintenance, OH & S statements, MSDS's and other Health and Safety declarations will provide the necessary Health and Safety Information pertaining to the product.

8 SIGNATURES

Sam Guindi
Product Certification Manager
For and on behalf of
Bureau Veritas Australia Pty Ltd

Ian Hay-Smith
Director
For and on behalf of
Knightbuilt Ltd



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SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

9 SUPPORTING INFORMATION ABOUT DESCRIPTION

Further details regarding the description of the product can be found in KingspanTEK Building System Construction Manual For 142 mm Structural Insulated Panels Second Issue, October 2015; KingspanTEK Building System Construction Manual For 172 mm Structural Insulated Panels First Issue, June 2016; Addendum to Kingspan TEK® Building System CONSTRUCTION MANUAL FOR 142MM STRUCTURAL INSULATED PANELS (Second Issue – October 2015) - Version 4 Issued 23 August 2020.

10 SUPPORTING INFORMATION ABOUT INTENDED USE

Further details regarding the use of the product can be found in KingspanTEK Building System Construction Manual For 142 mm Structural Insulated Panels Second Issue, October 2015; KingspanTEK Building System Construction Manual For 172 mm Structural Insulated Panels First Issue, June 2016; Addendum to Kingspan TEK® Building System CONSTRUCTION MANUAL FOR 142MM STRUCTURAL INSULATED PANELS (Second Issue – October 2015) - Version 4 Issued 23 August 2020.

11 SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

N/A



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12 BASIS FOR CERTIFICATION

- B1 Structure - By testing and comparison with Verification Method B1/VM1
- B2 Durability - By analysis and comparison with Acceptable Solution B2/AS1 and Verification Method B2/VM1
- E2 External moisture - By analysis and comparison with Acceptable Solution E2/AS1
- E3 Internal moisture - By analysis and comparison with Acceptable Solution E3/AS1
- F2 Hazardous building materials - By comparison with the performance requirements of Building Code clause F2.3.1
- G6 Airborne and impact sound - By testing and comparison with Verification Method G6/VM1
- H1 Energy efficiency - By testing and comparison with Acceptable Solution H1/AS1 and referenced Standard NZS4218:2009

13 SUPPORTING DOCUMENTATION FOR CERTIFICATION

1. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B1 Structure 1st Edition (Amendment 19), 28 November 2019
2. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause B2 Durability (Amendment 12), 28 November 2019
3. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause E2 External moisture 3rd edition (Amendment 9), 27 June 2019
4. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause E3 Internal moisture 2nd edition (Amendment 6), 1 January 2017
5. Compliance Document for New Zealand Building Code Clause G6 Airborne and Impact Sound, 1st edition (Amendment 2), 1 December 1995
6. BBA Agrément Certificate 02/S029 Product Sheet 1 Kingspan TEK Building System, 25 October 2018
7. BBA European Technical Assessment ETA-11/0466, 21 February 2018
8. LABC Certificate No: EWWS546 Kingspan TEK Building System, 26 June 2019
9. Ruamoko Report 1406: Kingspan Tek Structural Insulated Panel (SIP) Alternative Solution to NZBC Clauses B1 & B2, Revision B 30 July 2018
10. SCION Test Report: 600 SIP P20:2010 Wall Bracing Evaluation, 29 March 2012
11. SCION Test Report: 600mm x 2.4m 142 OSB SIP walls without Straps – P21 test results, 2 November 2017
12. SCION Test Report: 600mm x 2.4m 172 OSB SIP walls without Straps – P21 test results, 2 November 2017
13. SCION Test Report: 600mm x 2.4m 172 OSB SIP walls Straps – P21 test results, 2 November 2017
14. Product Safety Information TEK Building System, 2 June 2012
15. Material Safety Data Sheet Smartply OSB, 21 January 2010
16. CodeMark Solitex Extasana Wall Underlay No GM-CM30032-RevE 12 October 2018
17. BRANZ Appraisal No 855 [2019] Solitex Mento 3000 Roof Underlay, 19 August 2020
18. KingspanTEK Building System Construction Manual For 142 mm Structural Insulated Panels Second Issue, October 2015
19. KingspanTEK Building System Construction Manual For 172 mm Structural Insulated Panels First Issue, June 2016
20. Addendum to Kingspan TEK® Building System CONSTRUCTION MANUAL FOR 142MM STRUCTURAL INSULATED PANELS (Second Issue – October 2015) - Version 4 Issued 23 August 2020

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14 CONDITIONS RELATING TO NOTIFICATION

- (a) the certificate holder notifies the product certification body (Bureau Veritas) in writing of any intended change to any of the following particulars:
- (i) the name, address, or contact details of the certificate holder;
 - (ii) any address of a location where a certified product is produced or manufactured;
- (b) the certificate holder notifies the product certification body (Bureau Veritas) in writing of any intended change, modification, or alteration to any of the following:
- (i) the certified building method or product;
 - (ii) the method of its production or manufacture;
 - (iii) the product quality plan prepared in respect of the certified building method or product;
 - (iv) the application or installation instructions for the certified building method or product;
 - (v) any documentation relating to the use and maintenance of the certified building method or product;
- (c) if the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder notifies the product certification body (Bureau Veritas) in writing of the reason for that suspicion:
- (d) if the certificate holder or the product certification body (Bureau Veritas) finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder discloses that fact in disclosure statements published in a form that is acceptable to the product certification body and to the chief executive:
- (e) if the certificate is suspended or revoked, the certificate holder—
- (i) notifies all customers to whom the building method or product is regularly supplied; and
 - (ii) immediately ceases using the certificate, the mark of conformity, and any reference to the number of the certificate.