



CERTIFICATE OF CONFORMITY

This is to certify that

NRG Greenboard™ Insulated Wall Cladding



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Product description																		
<p>NRG Greenboard™ External Wall insulation and render components, consisting of:</p> <ul style="list-style-type: none"> Expanded polystyrene: 50, 60, 75 or 100mm thick complying with Class M of AS 1366.3 1992 incl. Amdt 1, which contains Bifenthrin Fixed to stud framing by screws and PVC washers PVC beading (UV stabilized) 5 x 5 mm alkali resistant fiberglass mesh reinforcement Polymer modified render system to NRG Render Specification Acrylic based texture membrane coating <p>The cladding system is fixed to a stud frame, incorporating a reflective or non-reflective cavity and plasterboard lining.</p>																		
Product purpose or use																		
<p>NRG Greenboard™ - Insulated Cladding System consisting of the expanded polystyrene board, beading, reinforced render, and coating. Thermal insulation for use in walls (assessed based on ASTM C518-04, referenced in AS/NZS 4859.1:2002 incl. Amdt 1).</p> <table border="1"> <thead> <tr> <th colspan="3">Table: 1 -Thermal Resistance</th> </tr> <tr> <th>Thickness mm</th> <th>Thermal Resistance m².K/W</th> <th>Equivalent R rating</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>1.28</td> <td>1.28</td> </tr> <tr> <td>60</td> <td>1.54</td> <td>1.54</td> </tr> <tr> <td>75</td> <td>1.93</td> <td>1.93</td> </tr> <tr> <td>100</td> <td>2.57</td> <td>2.57</td> </tr> </tbody> </table>	Table: 1 -Thermal Resistance			Thickness mm	Thermal Resistance m ² .K/W	Equivalent R rating	50	1.28	1.28	60	1.54	1.54	75	1.93	1.93	100	2.57	2.57
Table: 1 -Thermal Resistance																		
Thickness mm	Thermal Resistance m ² .K/W	Equivalent R rating																
50	1.28	1.28																
60	1.54	1.54																
75	1.93	1.93																
100	2.57	2.57																
Certificate holder																		
<p>MFT Holdings QLD Pty Ltd, 8/31 Lundberg Drive, Murwillumbah NSW 2484. Tel +61 (0)2 6672 2227, www.nrggreenboard.com</p>																		



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CodeMark Certification Body			13/05/2010	1/10/2013	13/05/2016	GM-CM30005 Rev H
Global-Mark Pty Ltd, Suite 4.07, 32 Delhi Road, North Ryde NSW 2113, Australia - www.Global-Mark.com.au	Herve Michoux Managing Director	Unrestricted Building Certifier, Peter Gardner	Date of issue	Last update	Date of expiry	Certificate Number

The purpose of construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. This Certificate of Conformity is issued by an accredited certification body under arrangement with JAS-ANZ. The ABCB does not in any way warrant, guarantee or represent that the Product the subject of this Certificate of Conformity conforms with the BCA, nor accepts any liability arising out of the use of the Product. The ABCB 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 product(s) referred to in this Certificate. It is advised to check that this Certificate of Conformity is currently valid and not withdrawn, suspended or superseded by a later issue by referring to the ABCB website, www.abcb.gov.au.

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Complies with the Building Code of Australia 2013:

1. Volume One BP1.1, BP1.2 and Volume Two P2.1.1 (a), (b), (c) in respect of structural performance, when designed and constructed in accordance with Table 2, Table 3 and NRG Greenboard™ Insulated Wall Cladding Specifications and Installation Manual (June 2013, 7th Edition).
2. Volume One FP1.4 and Volume Two P2.2.2 in respect of weatherproofing for external walls, if properly flashed in accordance with the NRG Greenboard™ Insulated Wall Cladding Specifications and Installation Manual (June 2013, 7th Edition).
3. Volume One FP1.5 and Volume Two P2.2.3 in respect of damp-proofing for external walls, if provided with damp-proof courses complying with AS/NZS 2904-1995 and installed above the finished ground or paving level.
4. Achieves the following fire hazard properties (as an insulation material):
 - Ignitability Index - 6
 - Spread of Flame Index - 0
 - Heat Evolved Index - 1
 - Smoke Developed Index - 4
5. Volume One JP1 in respect of energy efficiency of walls, in applications where complying thermal resistances have been determined using the values in the values Table 1.
6. Volume Two P2.6.1 in respect of energy efficiency of walls in applications where complying thermal resistances have been determined using the values in the values Table 1.
7. State Additions: SA FP1.5, SA P2.2.3, NSW P2.2.3, Vic P2.6.1

The product will contribute to compliance when installed in accordance with:

- o Volume One Clauses J1.2 (a), (c) and (d), and J1.5;
- o Volume Two Clauses 3.12.1.1(a) and (c), and 3.12.1.4.

Subject to the following conditions and limitations:

1. BCA Volume One J1.2(b) and Volume Two 3.12.1.1(b) do not apply.
2. BCA Volume Two VIC P2.6.1 (d), (e), (f), (g), (h), and (i) do not apply.
3. The thermal resistances in Table 1 are of the NRG Greenboard™ insulation alone (i.e. corresponding to “added insulation” as used in the BCA). The total thermal resistance of a wall system is the sum of values for the external air film (0.04), external cladding, air space or cavity (if applicable), NRG Greenboard™ insulation (from Table 1), internal cladding, and internal air space (0.12).
4. The calculated values do not account for thermal bridging at studs and the like.
5. These values may be used, in conjunction with the thermal properties of other components, to satisfy:
 - a. Performance requirement BCA Volume One JP1, using verification method JV3.
 - b. Performance requirement BCA Volume Two P2.6.1 using verification method V2.6.2.2.
 - c. Deemed-to-Satisfy provisions BCA Volume One J1.5, using Tables J1.5a and J1.5b
 - d. Deemed-to-Satisfy provisions BCA Volume Two 3.12.1.4, using Tables 3.12.1.3a and 3.12.1.3b.



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6. This certification excludes compliance with:
 - a. BCA Volume One Section C: compliance for fire resistance level of separating or boundary walls.
 - b. BCA Volume Two Part 3.7 for fire resistance level of separating or boundary walls.
 - c. Bushfire protection properties of BCA Volumes One and Two.
 - d. Vermin proofing (yet the product contains Bifenthrin).
7. Where NRG Greenboard™ is installed, electrical installations must comply with AS/NZS3000:2007 including Amendments 1 and 2.
8. This certification is valid for the determination of thermal resistance of walls in accordance with BCA 2013 and in those States and Territories where there are variations from the BCA 2013.
9. Product selection, and incorporation into the building design, shall be made by a person who:
 - a. Is conversant with the application and technical aspects of the product; and
 - b. Has ready access to the relevant technical information related to the product use.
10. Product installation shall be carried out in accordance with the NRG Greenboard™ Insulated Wall Cladding Specifications and Installation Manual (June 2013, 7th Edition) and out by an NRG trained and competent person (having received the NRG Greenboard™ Certificate of Competence) under the direction of a Builder.
11. An Application for NRG CodeMark Certification Form shall be completed and signed by the Supplier, Builder and Installer. This form must be signed by the Builder, and submitted to NRG, with the copy issued to the owner.
12. This system applies to wall only and not roofs, ceilings or floors.
13. This certification does not include assessment for applications in flood hazard areas as per BCA Volume One Clause BP1.4 and BCA Volume Two Clause P2.1.2.
14. Excludes compliance with BCA 2013 Volume One Section C: compliance for non-combustibility, fire hazard properties when used as a wall or ceiling lining, fire hazard properties when used as a composite member (eg. insulation within a wall), fire hazard properties generally, and regarding fire resistance or fire resistance levels.
15. Excludes compliance BCA 2013 Volume Two Part 3.7: compliance for non-combustibility and regarding fire resistance or fire resistance levels.
16. Excludes compliance with the bushfire protection properties of BCA Volumes One and Two.



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Table 2 NRG Greenboard™ Cladding Fixing Requirements – General Areas					
50mm NRG Greenboard™ Cladding			75mm NRG Greenboard™ Cladding		
Wind Classification	Stud Spacing (mm)	Fastener Spacing Vertically (mm)	Wind Classification	Stud Spacing (mm)	Fastener Spacing Vertically (mm)
N1	450	300	N1	450	300
N2	450	300	N2	450	300
N3	450	300	N3	450	300
N4	450	300	N4	450	300
N5	450	200	N5	450	275
C1	450	300	C1	450	300
C2	450	200	C2	450	250
C3	450	130	C3	450	175
C4	450	90	C4	450	115

Table 3 NRG Greenboard™ Cladding Fixing Requirements – Within 1200mm of Edges					
50mm NRG Greenboard™ Cladding			75mm NRG Greenboard™ Cladding		
Wind Classification	Stud Spacing (mm)	Fastener Spacing Vertically (mm)	Wind Classification	Stud Spacing (mm)	Fastener Spacing Vertically (mm)
N1	450	300	N1	450	300
N2	450	300	N2	450	300
N3	450	280	N3	450	300
N4	450	190	N4	450	230
N5	450	120	N5	450	160
C1	450	190	C1	450	240
C2	450	120	C2	450	160
C3	450	80	C3	450	100
C4	450	60	C4	450	70

End of document



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