



Certificate of Conformity

Certificate number: CM40188

THIS TO CERTIFY THAT
DuPont™ Tyvek® HomeWrap™

Certification Body:


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

Type and/or use of product:
Wall underlay.

Description of product:

DuPont™ Tyvek® HomeWrap™ is a breathable wall underlay manufactured from flash spun (non-woven) high-density polyethylene fibres. It is designed to allow moisture to pass through whilst preventing transfer of liquid water. The product is supplied in two roll sizes being:

- 2740mm width, length 30m and overall area of 82M²; or;
- 3048mm width, length 30m and an overall area of 91.4m².

The product is branded with the DuPont™ Tyvek® HomeWrap™ logo and name and is white in colour. Refer section A3 below for detailed product specification.

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

BCA 2016

Certificate Holder:

DuPont (Australia) Pty
Ltd
ABN: 59 000 716 469
Level 3, 7 Eden Park
Drive
MACQUARIE PARK,
NSW, 2113
Ph: (02) 9923 6111
W:
www.dupont.com

Performance Requirement(s)	Volume One	Volume Two	BCA 2016
	Not Applicable	P2.2.2	Weatherproofing: The DuPont™ Tyvek® HomeWrap™ will contribute to the overall weatherproofing of the building, when used in conjunction with other wall elements including external cladding materials.
Deemed-to-Satisfy Provision(s):	Not Applicable	Not Applicable	
State or territory variation(s):	Not Applicable	Not Applicable	

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. This certificate is limited to the details within this certificate, including the compliance elements, product description and purpose or use. This certification is to be read, considered used as a whole document and reproduced in its entirety.
2. P2.2.2(a) does not apply to a Class 10 Buildings, except where its construction contributes to the weatherproofing of the Class 1 Building.

Building classification/s:

Class 1 and 10 Buildings

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.

John Thorpe - CMI

Certificate number: CM40188

Don Grehan – Unrestricted Building Certifier

Date of issue: 05/12/2016

Date of expiry: 05/12/2019



This certificate is only valid when reproduced in its entirety.



Certificate of Conformity

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page one.

A2 Description of product

As per page one.

A3 Product specification

Technical Property	Test Method	ABC requirements (AS/NZS4200)	Tyvek®HomeWrap® DuPont 1055B
Duty Classification	Table 1 AS/NZS4200.1:1994	Light *	Light *
Vapour Permeance	ASTM E96-B	>0.14µg/N.s (high permeability)	>2.0 µg/N.s
Vapour Resistance	ASTM E96.B	<7.0MN.s/g	<0.5 MN.s/g
Vapour Barrier Classification	ASTM E96.B	Low	Low
Emittance	AS/NZS 4201.5	Non-reflective	Non-reflective
Water Barrier	AS/NZS 4201.4	High	High
Absorbency	AS/NZS 4201.6	Unclassified	Unclassified
Resistance to Dry De-Lamination	AS/NZ 4201.1	Pass	Pass
Resistance to Wet De-Lamination	AS/NZ 4201.2	Pass	Pass
Shrinkage	AS/NZ 4201.3	<0.5%	<0.1%
Tensile Strength	AS 1301.448		
• Machine Direction (k/Nm)		-	4.4kN/m
• Lateral Direction (k/Nm)		-	4.7kN/m
Edge Tear Resistance	TAPPI T470		
• Machine Direction (N)		45N	202N
• Lateral Direction (N)		45N	223N
Burst Strength	AS2001.2.19	>200 N	284N
Burst Strength	AS2001.2.19	>200 N	284N
Flammability Index	AS/NZ 1530 Part 2	≤ 5	≤ 5
Width			2740mm
Length			30.5m
Area			- 83m2
gsm			61-63gsm
Roll weight			- 5.2kg

Test results shown represent roll averages. Individual results may vary either above or below averages due to normal manufacturing variations while continuing to meet product specifications.

Source: DuPont™ Tyvek® HomeWrap™ Installation Guide - Australia Version 18-Oct-16

A4 Manufacturer and manufacturing plant(s)

E.I. du Pont de Nemours and Company
DuPont Protection Solutions-Tyvek Plant
5401 Jefferson Davis Highway
Richmond, VA 23234
United States of America



Certificate of Conformity

A5 Installation requirements

1. As per DuPont™ Tyvek® HomeWrap™ Installation Guide – Australia Version 18-Oct-16.
2. Underlay must fit tightly and be lap taped around penetrations, allowing for free drainage of condensation.
3. DuPont™ Tyvek® HomeWrap™ is suitable for use with LOSP treated timber, conditional upon the solvent in LOSP treated timber having had sufficient time to evaporate (usually 4 days after treatment under appropriate environmental conditions).
4. DuPont™ Tyvek® HomeWrap™ is non-directional and hence can be installed inside out or upside down without affecting performance.
5. DuPont™ Tyvek® HomeWrap™ requires to be fixed securely to frame using tool fasteners every 600mm horizontally and every 600mm vertically, or by using staples and strapping every 600mm.
6. Product must not be installed in areas where winds exceed 120kph and external cladding need to be installed within 2 months. DuPont™ Tyvek® HomeWrap™ passes AS/NZS 4200:1994 for pliable building membranes. DuPont™ Tyvek® HomeWrap™ should not be used under roofs.

A6 Other relevant technical data

Refer www.dupont.com.au for further technical information.



Certificate of Conformity

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. The DuPont™ Tyvek® HomeWrap™ Wall Underlay as described here in has been evaluated for compliance using the methodologies described in NCC BCA Volume Two Part 1.0.
2. The DuPont™ Tyvek® HomeWrap™ Wall Underlay has been evaluated as compliant to Performance Requirement P2.2.2 NCC BCA Volume Two 2016.
3. The DuPont™ Tyvek® HomeWrap™ Wall Underlay has been evaluated against Part 1.0.3 (a) (i) of NCC BCA Volume Two 2016 and meets the Performance Requirements.
4. The evaluation process employed to arrive at this decision include:
 - Evaluation of technical reports as detailed below in B2.
 - Audit of the installation process.
 - Expert judgment of appropriately qualified engineers.
 - Evaluation of the audit process and confirmation of the findings by the Unrestricted Building Certifier who's name and signature appears on page one of this Certificate.

B2 Reports

1. CSIRO Division of Forestry and Forest Products AS 1301.423:1997 pH extraction in accordance with AS/NZS 1301.421s:1998
2. Scion Test (Report 58093) Physical Properties of Tyvek HomeWrap.
3. AWTA (Association of Wool Testing Authority) Flammability testing in accordance with AS/NZS 1530.2:1993.
4. University of WA - Dept. of Mechanical and Materials Engineering ASTM E408 (2008) (AS/NZS 4201.5:1994) BS 6538.3;
 - Tensile Strength, Edge Tearing Resistance and Resistance to Water Vapour Transmission in accordance with AS/NZS 4200.1:1994.
 - Shrinkage in accordance with AS/NZS 4201.3:1994.
 - Resistance to Water Penetration in accordance with AS/NZS 4201.4 :1994.
 - Surface Water Absorbency in accordance with AS/NZS 4201.6:1994.
 - Air Resistance to BS 6538.3.
5. BRANZ Appraisal 642 DuPont™ Tyvek® HomeWrap™ Synthetic Wall Underlay.
6. Agrement certificate No 90/2548 Tyvek Construction Membranes, British Board of Agrement.