



## Ecoply® Barrier: Rigid Air Barrier

### Product Technical Statement

<p>Product Description</p>	<p>Ecoply® Barrier provides a weather-tight rigid air barrier for drained and vented cavity systems outside the building frame. It effectively replaces traditional building wrap in the cavity while providing structural bracing, and forming a strong secondary line of defence against moisture penetration into the building envelope.</p> <p>Ecoply Barrier is suitable for use in both residential and commercial buildings and consists of a 7 mm thick CCA treated structural plywood panel which is coated on the face and edges using a polyester powder coating process for increased sheet durability and protection from moisture penetration.</p> <p>The Ecoply Barrier system is BRANZ appraised (No 827 [2014]) for use as a rigid sheathing, and temporary weather-protecting sheathing on timber framed buildings.</p>
<p>Scope of Use</p>	<p>Ecoply Barrier meets the New Zealand Building Code (NZBC) requirements for rigid underlays as outlined in Section 9.1.4, the performance requirements of Table 23 of E2/ AS1, and has been tested for wind speed exceeding Extra High Wind Zone as defined in NZS 3604 Timber Framed Buildings (NZS3604) as detailed above when installed in accordance with Ecoply Barrier Specification &amp; Installation Guide.</p> <p>Ecoply Barrier, specified in bracing applications, or subject to specific engineering design, is suitable for use as structural bracing when:</p> <ul style="list-style-type: none"> <li>• Specified in and installed in accordance with the requirements of EPB1, EPBS or EPBG bracing specification; or</li> <li>• Specifically designed and detailed by a Chartered Professional Engineer</li> </ul> <p>For non-residential applications the Ecoply Barrier system has been tested for wind pressures up to ULS 4.5 kPa and SLS of 3.3 kPa in accordance with AS/NZS 4284 Testing of Building Facades (AS/NZS 4284) demonstrating compliance with all aspects of the test procedure.</p> <p>The durability of Ecoply Barrier in residential applications is subject to the requirements of NZS 3602 Timber and Wood Based Products for use in building (NZS 3602), in accordance with NZBC Clause B2 Durability and the requirements of E2 External Moisture.</p>
<p>Limitations / Disclaimer</p>	<p>Ecoply Barrier should not be used in direct contact with steel frames.</p> <p>Please refer to the current “Ecoply Barrier Specification &amp; Installation Guide” for information, limitations, and cautions regarding the storage, handling, installation, usage, and maintenance of Ecoply Barrier plywood and Ecoply Barrier Tapes.</p>



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<p>Compliance with the New Zealand Building Code</p>	<p>Ecoply Barrier, specified and employed in accordance with the current “Ecoply Barrier Specification &amp; Installation Guide”, assists in meeting the following provisions of the NZBC:</p> <p><b>Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.3(a,c,f,h,l,q), B1.3.4(d)</b></p> <p>Ecoply Barrier is Product Certified by the Engineered Wood Products Association of Australasia (EWPAA) as being manufactured in accordance with the joint New Zealand / Australian Standard AS/NZS 2269, Structural Plywood (AS/ NZS 2269). The EWPAA is accredited for product certification by the Joint Accreditation System of Australia and New Zealand (JAS - ANZ).</p> <p>Bracing capacities have been determined in accordance with P21 testing methods, part of NZS 3604, an Acceptable Solution of the NZBC (Acceptable Solution B1/AS1, 4.1).</p> <p><b>Clause B2 Durability: Performance B2.3.1(a, b) when used and treated to the requirements of NZS 3602</b></p> <p>CHH Woodproducts (CHHWP) Ecoply Barrier is compliant with NZBC Clause B2.3.1 (a), not less than 50 years when used where the cladding durability requirement or serviceable life is not less than 50 years, e.g. structural bracing, and compliant with NZBC Clause B2.3.1 (b), 15 years where the cladding durability requirement is 15 years.</p> <p><b>Clause E2 External Moisture E2.3.2, E2.3.5, E2.3.7</b></p> <p>Ecoply Barrier meets the NZBC requirements for rigid underlays as outlined in Section 9.1.4, the performance requirements of Table 23 of E2/ AS1 and has been tested for wind speed exceeding Extra High wind zone as defined in NZS 3604.</p> <p><b>Clause F2 Hazardous Building Materials: F2.3.1</b></p> <p>Ecoply Barrier meets this requirement and will not present a health hazard to people.</p>
<p>Quality Assurance</p>	<p>CHHWP has strict quality assurance processes in place to monitor that Ecoply Barrier plywood is manufactured in a manner that meets both the structural and visual requirements of the specific product.</p> <p>Ecoply is independently third party audited by the EWPAA. The EWPAA certifies Ecoply manufactured by CHHWP at its Tokoroa mill. Participation and compliance with the requirements of the EWPAA’s process based quality control scheme includes product testing and monitoring of properties. It provides the basis for the EWPAA’s Product Certification of Ecoply as conforming to the requirements of AS/NZS 2269. The EWPAA’s product certification scheme is accredited under JAS-ANZ.</p>



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Sustainability	<p>Ecoply is manufactured from plantation pine grown in New Zealand. It is grown on tree farms which are tended and harvested to provide wood for plywood manufacture and other applications. The crop is managed on a sustainable basis to yield millable trees. New Zealand plantations are managed in compliance with the New Zealand Forest Accord, a voluntary agreement signed in 1991 between New Zealand forest managers and environmental non-government organisations.</p> <p>Ecoply is manufactured in New Zealand, at the CHHWP Tokoroa Plywood Mill. Ecoply is available Forestry Stewardship Council (FSC) Certified on request (FSC-C012019).</p>
Installation Requirements	<p>Ecoply Barrier must be installed in accordance with good building practice, sound design principles, and the requirements of the current “Ecoply Barrier Specification &amp; Installation Guide”. The specifications and details are available at CHHWP web site <a href="http://www.chhwoodproducts.co.nz">www.chhwoodproducts.co.nz</a> or ask CHHWP by calling 0800 326 759 for information.</p>
Service Life	<p>Ecoply Barrier will continue to satisfy the relevant performance requirements of the NZBC for 50 years (or 15 years as required) provided that all of the requirements set out in this Product Technical Statement and the specific design parameters of the project are met.</p>
Maintenance Requirements	<p>Ecoply Barrier components will not normally require maintenance.</p>
Product Support	<p>CHHWP provides extensive product support for our full range of wood based building products. By visiting <a href="http://www.chhwoodproducts.co.nz">www.chhwoodproducts.co.nz</a> you can access all the latest information regarding our products including Product Guides, Specification and Installation Guides, Technical Notes, Information Bulletins, CAD Drawings, Design Software and other useful information.</p> <p>In addition to this CHHWP have a team of Engineers and Technical Experts available to assist with any product enquiries. You can contact the team by calling 0800 326 759 or by emailing <a href="mailto:woodproducts@chhwoodproducts.co.nz">woodproducts@chhwoodproducts.co.nz</a>.</p>
Legal Disclaimer	<p>The information contained in this document is current as at June 2015 and is based on data available to CHHWP at the time of going to print.</p> <p>CHHWP reserves the right to change the information contained in this document without prior notice. It is your responsibility to ensure that you have the most up to date information available. You can call toll free on 0800 326 759 or visit <a href="http://www.chhwoodproducts.co.nz">www.chhwoodproducts.co.nz</a> to obtain current information.</p> <p>CHHWP has used all reasonable endeavours to ensure the accuracy and reliability of the information contained in this document. However, to the maximum extent permitted by law, CHHWP assumes no responsibility or liability for any inaccuracies, omissions or errors in this information nor for any actions taken in reliance on this information.</p>



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