

HYDRA CLASSIC WALL UNDERLAY

PURPOSE

Marshall Innovations' Hydra Classic Wall Underlay is a flexible wall underlay that assists in the control of cavity moisture. During construction, the underlay also provides temporary weather protection.

EXPLANATION

Marshall Innovations' Hydra Classic Wall Underlay is a tri-laminate product made of 110 GSM synthetic materials. The outer layers are non-woven, while the central layer is a functional membrane. The top ply is white with grey text, with the central membrane and bottom ply both white.

The Hydra Classic Wall Underlay meets the performance metrics specified in Table 23 of E2/AS1, as defined by NZS 2295:2006.

It is available in rolls measuring 1370 mm x 37 m, covering 50 m² per roll and 2740 mm x 37 m, covering 100 m² per roll.



For further assistance please contact:

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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location In wind zones up to and including Extra High as defined by NZS 3604:2011 or to a wind design pressure (ULS) of 2.1 kPa. In all exposure zones as defined in NZS 3604:2011. At least 1 m from a relevant boundary.	<ul style="list-style-type: none"> ➤ Fixings must comply with Marshall Innovations' Hydra Classic Wall Underlay installation instructions. ➤ In Extra High wind zones, the underlay must be used in conjunction with a rigid air barrier..
Building In conjunction with a primary structure that complies with the NZ Building Code or existing buildings where the designer and/or installer have satisfied themselves that the existing building is suitable for the intended work. With a timber or lightweight steel framing.	<ul style="list-style-type: none"> ➤ For lightweight steel, a thermal break must be installed.
With cladding and joinery that complies with the relevant provisions of the NZ Building Code for the site and location.	<ul style="list-style-type: none"> ➤ The cladding system may be direct-fixed, installed over an E2/AS1 drained cavity, or used with masonry veneer that complies with E2/AS1 or has been specifically designed.
As a flexible wall underlay, including in the attic space on a gable end.	<ul style="list-style-type: none"> ➤ The Hydra Classic Wall Underlay must be covered within 60 days of installation.

USEFUL INFORMATION

For design, installation and maintenance information, refer to mwanz.com.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Marshall Innovations Ltd requirements, the Hydra Classic Wall Underlay will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	Compliance statement	BASIS OF COMPLIANCE Demonstrated by
B2 DURABILITY B2.3.1 (a), B2.3.2 (b)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Meets the requirements of NZS 2295:2006 and Table 23 of E2/AS1 [Scion, 08/2024]. ➤ Tested to ASTM D882, TAPPI T470 and ASTM G154 for mechanical strength properties after UV exposure [Scion, 08/2024].
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE C3.7	VERIFICATION METHOD C/VM2	<ul style="list-style-type: none"> ➤ Meets the requirements of NZS 2295:2006; flammability index of 1 when tested to AS 1530.2:1993 [NZWTA, 29/05/2024].
E2 EXTERNAL MOISTURE E2.3.2, E2.3.5, E2.3.7 (a, b, c)	ACCEPTABLE SOLUTION E2/AS1	<ul style="list-style-type: none"> ➤ Meets flexible wall underlay requirements of Table 23 of E2/AS1. Complies with section 2 of NZS 2295:2006 [Scion, 08/2024]. ➤ Tested to [Scion, 08/2024]: <ul style="list-style-type: none"> • vapour resistance: ASTM E96 • water penetration resistance: AS/NZS 4201.4:1994 • mechanical strength: ASTM D882, TAPPI T470 • flammability: NZS/AS 1530.2:1993 • air resistance: ISO 5636.5:2013 • UV exposure (mechanical strength): ASTM D882, TAPPI T470, ASTM G154 • classified as W4 under NZS 2295:2006. ➤ Tested to AS/NZS 4201.6:1994 (achieved greater than 100 g/m²) [BRANZ, 17/04/2024]
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Manufactured material is inert. Use in accordance with the supplier's safety instructions.

SOURCES OF INFORMATION

- Scion. [08/2024] *Marshall Innovations Classic underlay assessment to NZS2295*. Report No: 92219276.
- NZWTA. [29/05/2024] *AS 1530.2-1993 - Methods for Fire Tests on Building Materials, Components and Structures. Part 2 Test for Flammability of Materials*. Report no. 1515373.7.
- BRANZ. [17/04/2024] Report on testing to AS/NZS 4201.6. Report number: DC18596-01-1.

1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.
mwnc.com



Marshall Innovations Ltd confirms that if the Hydra Classic Wall Underlay is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

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Date of current issue: 7/10/2025

NZBN: 9429030850743

Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Marshall Innovations Ltd has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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