

HYDRA Wall Underlay

BPIR Declaration

Designated building product: Class 1

Declaration

Marshall Innovations Ltd has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

Product/system

Name	HYDRA Wall Underlay
Line	
Identifier	HYWA

Description

HYDRA Wall Underlay is a synthetic, fire retardant, breather-type flexible underlay and air barrier for use under direct fix and non-direct fixed wall cladding on timber and steel-framed buildings. UV stable for 60 days.

HYDRA consists of a plain non woven scrim and a woven bottom scrim with a polymeric laminated face. HYDRA underlay branding is clearly displayed on the external face of the underlay. HYDRA Wall Underlay is a component of the Marshall Weatherization System. Available in 2 sizes; 2740mm x 37m (100 sq/m) & 1370mm x 37m (50 sq/m)

Scope of use

HYDRA Wall Underlay has been appraised for use as a flexible wall underlay on timber and steel framed buildings within the following scope; • the scope limitations of E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and, • with direct absorbent & non-absorbent wall claddings; or, • with absorbent and non-absorbent wall claddings installed over a minimum 18mm drained cavity; or, • with masonry veneer in accordance with NZBC Acceptable Solutions E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and, • situated in NZS3604

Wind Zones up to and including Very High HYDRA Wall Underlay has also been appraised for use as a flexible wall underlay over rigid wall underlays on timber and steel framed buildings within the following scope: • the scope limitations of NZBC Acceptable Solutions E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and, • with absorbent and non-absorbent wall claddings installed over an 18mm minimum drained cavity; and, • with masonry veneer in accordance with NZBC Acceptable Solutions E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and, • situated in NZS 3604 Wind Zones up to and including Extra High.

HYDRA Wall Underlay has also been appraised for use in buildings subject to specific weathertightness design. Building designers are responsible for the building design and for the incorporation of HYDRA Wall Underlay into their design in accordance with the declared properties and the instructions of Marshall Innovations Limited.

Conditions of use

HYDRA Wall Underlay must be installed in accordance with the specifications and latest technical information and must comply with all relevant clauses of the NZBC regulations and standards

HYDRA Wall Underlay can only be exposed to UV for 60 days.

Relevant building code clauses

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

C3 Fire affecting areas beyond the fire source – C3.4 (c)

E2 External moisture – E2.3.2, E2.3.5, E2.3.6, E2.3.7

F2 Hazardous building materials – F2.3.1

H1 Energy efficiency – H1.3.1 (b)

Contributions to compliance

If designed, installed and maintained HYDRA Wall Underlay contribute or meet the following provisions of the NZBC;

- B2.3.1: Performance B2.3.1 (a), not less than 50 years (for building wraps used where the cladding durability requirements or expected serviceable life is not less than 50 years. B2.3.1 (b), 15 years for building wraps used where the cladding durability requirements is 15 years.

E2.3.2 External Moisture. When used as part of the cladding system, HYDRA Wall Underlay will contribute to meeting this requirement. HYDRA meets the requirements of Table 23 E2/AS1. Refer to BRANZ Appraisal 1072. Must be used behind claddings that meet the requirements of NZBC.

F2.3.1 HYDRA Wall Underlay is safe to handle and will not present a health hazard to people.

Supporting documentation

The following additional documentation supports the above statements:

HYDRA Wall Installation Guide	Jan 2022	https://www.mwnz.com/file/hydra-wall-specification-jan-2022/open
HYDRA Wall Underlay Product Warranty	HYWA Jun 2020	https://www.mwnz.com/file/hydra-wall-product-warranty/open
HYDRA Wall Underlay BRANZ Appraisal	1072 (2019)	https://www.mwnz.com/file/hydra-wall-branz-appraisal/open
HYDRA Wall Brochure		https://www.mwnz.com/file/hydra-wall-brochure/open

For further information supporting HYDRA Wall Underlay claims refer to our website.

Contact details

Manufacture location	Overseas
Legal and trading name of manufacturer	Not disclosed

Legal and trading name of importer	Marshall Innovations Ltd
Importer address for service	41 Hotuhotu Street Tauranga 3110
Importer website	mwnz.com
Importer NZBN	9429030850743
Importer email	headoffice@mwnz.com
Importer phone number	0800 776 97 27

Responsible person

As the responsible person as set out in Regulation 3, I confirm that the information supplied in this declaration is based on information supplied to the company as well as the company's own processes and is therefore to the best of my knowledge, correct.

I can also confirm that HYDRA Wall Underlay is not subject to a warning or ban under [s26 of the Building Act](#).

Signed for and on behalf of **Marshall Innovations Ltd**:



Nick Batt
CEO
November 2023

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Appendix

Note: The below appendix includes information relating to BPIR Ready.

Publishing this information is not a requirement under BPIR. Its inclusion here is to provide a reference for how this BPIR summary was generated as well as to help summary creators understand the performance clauses suggested by BPIR Ready.

BPIR Ready selections

Category: Building underlays – walls

	Yes	No
Use in areas exposed to the interior	x	
Use under masonry cladding systems	x	

Building code performance clauses

B2 Durability

B2.3.1

Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the *specified intended life* of the *building*, if stated, or:

- (a) the life of the building, being not less than 50 years, if: those building elements (including floors, walls, and fixings) provide structural stability to the building, or those building elements are difficult to access or replace, or failure of those building elements to comply with the building code would go undetected during both normal use and maintenance of the building

B2.3.2

Individual *building elements* which are components of a *building system* and are difficult to access or replace must either:

- (a) all have the same durability

C3 Fire affecting areas beyond the fire source

C3.4

Surface Linings

- (c) suspended flexible fabrics and membrane structures used in the construction of buildings must have properties resulting in a low probability of injury or illness to persons not in close proximity to a fire source.

E2 External moisture

E2.3.2

Roofs and exterior walls must prevent the penetration of water that could cause undue dampness, damage to *building elements*, or both.

E2.3.5

Concealed spaces and cavities in buildings must be constructed in a way that prevents external moisture being accumulated or transferred and causing condensation, fungal growth, or the degradation of building elements.

E2.3.6

Excess moisture present at the completion of construction must be capable of being dissipated without permanent damage to *building elements*.

E2.3.7

Building elements must be constructed in a way that makes due allowance for the following:

- a. the consequences of failure:
- b. the effects of uncertainties resulting from *construction* or from the sequence in which different aspects of *construction* occur:
- c. variation in the properties of materials and in the characteristics of the site.

F2 Hazardous building materials

F2.3.1

The quantities of gas, liquid, radiation or solid particles emitted by materials used in the *construction* of *buildings*, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.

H1 Energy efficiency

H1.3.1

The *building* envelope enclosing spaces where the temperature or humidity (or both) are modified must be constructed to

- (b) limit uncontrollable airflow