

HYDRA Roof 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 Roof Underlay
Identifier	HYRO

Description

HYDRA Roof Underlay is to be fixed over timber or steel framed roofs in order to limit the entry of wind into the roof cavity and to assist with the moisture management of the roof cladding system.

HYDRA Roof Underlay is a heavy duty, spun bonded, non-woven fabric laminated with a breathable coating for use under roof claddings. HYDRA Roof underlay is self-supporting & fire retardant & can be exposed to direct UV for 14 days.

Suitable for use in residential and commercial roofs, with steel and concrete roof claddings as prescribed in Table 23 of E2/AS1 and E2/AS4

Available in roll sizes 1250mm x 20m, 1250mm x 40m, 2500 x 40m.

HYDRA Roof Underlay is coloured blue with black branding and guidelines on the top face & is plain white underneath. The upper face has the embossed Gripspot technology which provides a more stable walking surface.

Scope of use

HYDRA Roof Underlay has been appraised for use on 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 masonry tile roof cladding: or, • With metal tile and profiled metal roof cladding: and, • Situated in NZS3604 Wind Zones up to and including Extra High.

HYDRA Roof 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 Roof Underlay into their design in accordance with the declared properties and the instructions of Marshall Innovations Limited.

HYDRA Roof Underlay is suitable for use in residential and commercial roofs with roof pitches of minimum 3 deg. The product must not span unsupported more than 1200mm in one direction. Spans greater than 1200mm require additional support such as galvanised wire mesh or safety mesh. At roof pitches of 10 deg or more, HYDRA Roof Underlay may be run horizontally or vertically. At roof pitches less than 10 deg. (minimum of 3deg) HYDRA Roof Underlay may be run horizontally, or vertically if installed over a roof underlay support.

HYDRA Roof Underlay must be separated from heat sources such as fireplaces, heating appliances and chimneys as per Part 7 of NZBC Acceptable Solutions C/AS1, C/AS2 and NZBC Verification Method C/VM1 provide methods for separation and protection of combustible materials from heat sources.

Conditions of use

HYDRA Roof Underlay must be installed in accordance with the HYDRA Installation Guidelines. NZBC Acceptable Solutions E2/AS1 para 8.0-8.4. NZMRM Roof & Wall Cladding Code of Practice. Metal Roof / Tile manufacturers specifications. HYDRA is to be installed by or under the direct supervision of a Licensed Building Practitioner or suitably qualified roofer. HYDRA must not be left exposed to direct UV or sunlight during its serviceable life. HYDRA will provide temporary weather protection during construction (maximum 14 days) however same day coverage is recommended. Not to be installed under roofing. Special attention is required when designing and construction of Skillion roofs or anywhere the accumulation of condensation presents an issue. Ventilation of the attic space and ridge must be addressed.

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 – E2.3.1, E2.3.2, E2.3.5, E2.3.6, E2.3.7

F2 Hazardous building materials – F2.3.1

Contributions to compliance

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

B2.3.1 (a), not less than 50 years for roof underlays used where the roof cladding durability requirements or expected serviceable life is not less than 50 years, eg masonry roof tile cladding. B2.3.1 (b), not less than 15 years for roof underlays used where the roof cladding durability requirement is 15 years.

E2.3.2 When used as part of the roof cladding system, HYDRA Roof Underlay will contribute to meeting this requirement where the roof cladding complies with NZBC.

F2.3.1 HYDRA Roof Underlay meets this requirement and will not present a health hazard to people.

Supporting documentation

The following additional documentation supports the above statements:

HYDRA Roof Installation Guide	V 1	https://www.mwnz.com/file/hydra-roof-installation-guide-1/open
HYDRA Roof Warranty	Jun 2020	https://www.mwnz.com/file/hydra-roof-product-warranty/open
HYDRA Roof BRANZ Appraisal	1071 (2019)	https://d39d3mj7qio96p.cloudfront.net/media/documents/1071.pdf
HYDRA Roof Brochure	V1	https://www.mwnz.com/file/hydra-roof-brochure/open

For further information supporting HYDRA Roof 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	mwanz.com
Importer NZBN	9429030850743
Importer email	headoffice@mwanz.com
Importer phone number	0800 776 9727

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 Roof Underlay is not subject to a warning on ban under [s26 of the Building Act](#).

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



Nick Batt
CEO
Nov 2023

MARSHALL INNOVATIONS LTD
41 Hotuhotu Street Tauranga 3110 New Zealand
[0800 776 9727](tel:08007769727) | mwanz.com

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 – roofs

	Yes	No
Use in areas exposed to the interior	x	
Use under durable roof cladding	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

E2.3.1

Roofs must shed precipitated moisture. In locations subject to snowfalls, roofs must also shed melted snow.

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.