BUILDING PERFORMANCE

THE BUILDING AGENCY
MATERIALS* SYSTEMS* SOLUTIONS

CLASS 1

Building Product Information (BPIR)

Product name:

READYSLATE® ROOFING

Product line *(the product line from which the product is customised)*:

READYSLATE® ROOFING

Product description and its intended use *(measurements, materials, usage)*:

READYSLATE® roofing is suitable for residential applications. The panel roofing is composed of two layers, firstly, the SUPPORT LAYER is a waterproofed bituminous self-adhesive Danosa SBS waterproofing membrane, refer to Declaration of Compliance Nº DoP: LBA-001. The second layer is the VISIBLE LAYER which comprises of a high-quality 3-4mm thick hand-quarried natural slate with a density of 2850 Kg/m3.
Description > Panel size 1300 x 330 x 6mm > The top layer consists of 6 x Natural Slates size 300 x 200 x 3.5mm > The bottom layer consists of a > Natural Slate is manufactured from Tectonic Compression with 3.5mm pre-drilled holes > Weight 17.96kg/m2 or 27kg per box.

Product identifier *(if applicable)*:

READYSLATE® ROOFING

Place of manufacture: ☐ **Aotearoa New Zealand** ☑ **Overseas**

Legal and trading name of the manufacturer(s):

Cupa Pizarras SA - La Medua s/s 32330 Sobradelo de Valdeorras Spain - www.cupapizarras.com/int/readyslate/

Legal and trading name of the importer *(if applicable)*:

THE BUILDING AGENCY LTD

Address for service:

STREET NAME	14A LINK DRIVE	SUBURB	WAIRAU PARK
CITY, COUNTRY	AUCKLAND	POSTCODE	0627

Website:	www.thebuildingagency.co.nz
Email address:	info@buildingagency.co.nz
Phone No. *(if applicable)*:	094152669
NZBN *(if applicable)*:	9429042373131

Relevant Building Code clauses:

B1 STRUCTURE PERFORMANCE: CLAUSES B1.3.1, B1.3.2, B1.3.3 (a, e, f, h, j, q)

B2 DURABILITY PERFORMANCE: CLAUSES B2.3.1 (b)

C3 FIRE PERFORMANCE AFFECTING AREAS BEYOND THE FIRE SOURCE: CLAUSE C3.7(a)

E2 EXTERNAL MOISTURE: PERFORMANCE CLAUSE: E2.3.2

F2 HAZARDOUS BUILDING MATERIALS: PERFORMANCE CLAUSES F3.2.1

Statement on how the building product is expected to contribute to compliance:

B1 STRUCTURE PERFORMANCE: CLAUSES B1.3.1, B1.3.2, B1.3.3 (a, e, f, h, j, q) - The panels have been verified to NZS3603 &/or NZS 3604 to support a 'Heavy Roof' (>20kg/m2&<60kg/m2) Material self-weight is 21kg/m2). The panels have a modulus of rupture (MOR) of >43MPA (439,142kg/m2).
Freeze Thaw Test - In the context of the material data sheet "Fulfil < 0.6%" means that the material being assessed must experience less than a 0.6% loss in weight or volume after undergoing a specified number of freeze-thaw cycles.
Thermal Cycle Test - The results are classified as follows: T1: No apparent change or some surface rust or other changes that neither affects the structure, nor form runs of discolouration. Assessed to very high wind speed = 49.174m/s (110mph/177 kph) with no panel displacement. Refer to TAS 100-95 Project No 2039T0001. refer to https://www.level.org.nz/site-analysis/wind/

B2 DURABILITY PERFORMANCE: CLAUSES B2.3.1 (b) - The panels have a 15-year durability warranty. In conjunction with market evidence, slate longevity expectancy is 100+ years refer to www.cupapizarras.com/int/readyslate/. The SUPPORT-LAYER, refer to Danosa SBS waterproofing membrane, Declaration of Performance Nº DoP: LBA-001 refer to www.danosa.com/global/product/self-dan-pe/

C3 FIRE PERFORMANCE AFFECTING AREAS BEYOND THE FIRE SOURCE: CLAUSE C3.7(a). The Panels are deemed non-combustible. Test result BROOF(t4)/Class A1 (UNE EN 12326-1) - Test Standard EN13501-5:2016

E2 EXTERNAL MOISTURE: PERFORMANCE CLAUSE: E2.3.2 The panels were assessed to standard FBC (HVH (TAS 100-95) with an ultimate wind speed of 49.174m/s (110mph/177 kph) with water spray of 223mm/per hour, the test duration was 10 min at this setting. The result, no panel displacement or water infiltration when built to the test assembly's specifications. Complies with the High-Velocity Hurricane Zone (HVHZ) to TAS 100-95" test procedure for wind and wind-driven rain resistance (Refer to PRI Construction Materials Technologies LLC Test Method and Compliance Project No 2039T0001). Refer to www.thebuildingagency.co.nz

F2 HAZARDOUS BUILDING MATERIALS: PERFORMANCE CLAUSES F3.2.1 - Dangerous substances emission - none in conditions of use as external roofing or cladding. (Refer to UNE EN 12326-1) EPD- DAPcons. c-004.105 Refer to www.thebuildingagency.co.nz
* Relevant Standards and References. Refer to www.thebuildingagency.co.nz
> PRI Construction Materials Technologies LLC Test Method and Compliant to TAS 100-95 Project No 2039T0001.
> Declaration of Performance DoP (no.1/2019_3/10) Standard UNE EN 12326-1 & Standard ISO140/ISO21930.
> Declaration of Performance DoP (No.3/2022_1/10) System 4 Non-carbonate slate originated by tectonic compression.
> Environmental Product Declaration DAPcons. c-004.105 according to ISO14025 & EN15804+A1.
> Declaration of Performance Nº DoP: LBA-001 Danosa SBS waterproofing membrane.

- *options for compliance set out in section 19 of the Act (regulations, acceptable solution, verification method)*
- *standard or technical document that describes the performance of the building product or the relevant specifications to which the building product was manufactured*
- *physical properties of the building product*
- *how the building product is intended to be used.*

Limitations on the use of the building product:

> Membrane temperature should not exceed 50ºC during installation.
> Do not install on pitch less than 18.5 degrees (32%). For installation under that level, please contact The Building Agency.
> The substrate must be properly prepared before starting any roofing job.
> Remember to consider any interactions between READYSLATE® waterproof SBS membrane and any other waterproofing elements used, if any.
> Do not install while the temperature is less than -20°C.

Design requirements that would support the use of the building product:

Refer to the READYSLATE® ROOFING Technical Guide.
Design requirements but not limited to as follows.
> The building designer is responsible for the framing and substrate design including steel or timber strength and relevant treatment requirements.
> Do not install on pitch less than 18.5 degrees (32%). For installation under that level, please contact The Building Agency.
> Panels must be installed with (at least) 7mm flat head stainless steel, copper, aluminium, or galvanised nails, with 2.7mm diameter and minimum 38mm long. Stainless steel twist nails are recommended. Aluminium and galvanised nails are not recommended for use on coastal applications and other saline or corrosive environments. Nail Coverage approx. 40 nails per m2
> Screws are an alternative option to nails. Stainless steel self-tapping screws 3,5 x 38 mm are recommended.
> Special fasteners for exposed locations (refer to paragraph 4.2.4 of NZS 3604:2011) or/and defined as category E of AS/NZS 2728 and C5 of ISO 9223, stainless steel with neoprene bonded washer 4.9 x 38 mm. Before fixing the screw, it is necessary to pre-drill with a 5mm drill bit. Before commencement, please follow the fixing manufacturers guidelines.
> Valleys, ridges, hips and other singular points, panels can be combined with most flashings and waterproofing solutions in metal or other materials.
> The details given in the Installation Guide for weather sealing are based on the designer principle to prevent moisture entry to all joints/overlaps, penetrations, and junctions. to the roof. Weather tightness details that are developed by the designer or builder/installer are the responsibility of the designer or builder/installer for compliance with the NZBC.
Refer to www.thebuildingagency.co.nz or email info@buildingagency.co.nz

Installation requirements:

> Handling, cutting, and the installation of the panels and the associated accessories must be in accordance with the Installation Guides in conjunction with the work safe guidelines refer to www.worksafe.govt.nz
> Ensure that the primary structure complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work.
> Outdoor storage is not recommended. Store at a maximum temperature of 43ºC in a covered dry place.
> The substrate must be clean and always kept dry during installation. Locate and fix any holes, wet or uneven areas that could affect the performance of the panels.
The roof substructure must consist of one of the following options:
b) 25mm x 152mm sized timber boards.
c) 15mm or greater plywood tongue & groove
d) 18mm or greater OSB strand board.
*For other substructures please contact our Technical Department.
> Before installation check your local building codes for roof requirements.
> Membrane temperature should not exceed 50ºC during installation. Do not install when the temperature is -20°C.
> Do not install on pitch less than 18.5 degrees (32%). For installation under that level, please contact The Building Agency email info@buildingagency.co.nz
> Remember to consider any interactions between READYSLATE® waterproof SBS membrane and any other waterproofing elements used, if any.
> Valleys, ridge, hips, and other singular points: READYSLATE® can be combined with most of flashings and waterproofing solutions in metal or other materials.
> An Ice & Water barrier is recommended for low-pitch areas, valleys and other vulnerable roof areas and meeting points.
> The details given in the Installation Guide for weather sealing are based on the designer principle to prevent moisture entry to all joints/overlaps, penetrations, and junctions. to the roof. Weather tightness details that are developed by the designer or builder/installer are the responsibility of the designer or builder/installer for compliance with the NZBC.
> It is not possible to walk on the panels, so foot traffic must be avoided if possible. If it is necessary, distribute your weight evenly to prevent breaking any slates. Step along the bottom of the panel avoiding the middle and the tops.

Maintenance requirements:

Regular maintenance and roof cleaning are necessary to prevent roof degradation. When properly maintained, the roof is more resistant to external aggressions and more efficient against water infiltrations.

There are some minimum requirements that you should conduct annually.
> General inspection of the waterproofing elements, an overview of all the additional works (like chimneys, clerestories, gutters, valleys)
> Check and clean the water drainage systems, and periodical removal of moss, mould, and other sediments and residues.

Is the building product/building product line subject to warning or ban under section 26?

☐ **Yes** ☑ **No**

If yes, description of the warning or ban under section 26:

Date: 12/07/2023