

CUPACLAD®

Product Technical Statement V1-0923

Product Description:

The Building Agency Ltd supplies CUPACLAD® Slate Cladding as an interior wall lining and an external cladding.

CUPACLAD® is a highly durable tectonic slate that is installed as part of a ventilated façade system. With a durability of over 35 years, natural slate is the most resistant material used for cladding. Unaltered, there is no need for the slate to be re-coated.

Key technical specifications:

- Slate Size: 400 mm x 200 mm
- Nominal Thickness: 7.65 mm
- Slates per m2: 16.7
- Slate Weight per m2: 30kg/m2

Each slate is handcrafted by skilled “splitters,” with no additional treatment required. Natural slate is only subject to extraction and mechanical transformation; there are no chemical or heating processes involved as with alternative materials. This and its unparalleled durability result in natural slate being a material with an extremely low carbon footprint.

CUPA PIZARRAS complies with the ISO 14001 certification, reflecting its plan to protect the environment.

www.cupapizarras.com

Scope of Use

This product technical statement relates to CUPACLAD® Cladding Systems, back ventilated and drained rain-screen cladding systems for use over external masonry, concrete, timber, and steel frame walls of new and existing commercial and residential buildings. CUPACLAD® Cladding Systems consists of natural slates hidden face fixed onto proprietary aluminium horizontal profiles.

In conjunction with a primary structure that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work (as applicable).

Limitations:

- CUPACLAD® Cladding System is a non-load-bearing construction system. It does not contribute to the stability of the wall on which it is installed.
- To allow for longitudinal expansion of the vertical rails and horizontal profiles, a minimum gap of 1 mm per metre length between adjacent horizontal rails and vertical profiles should be provided. Movement joints in the cladding system must coincide with a movement joint in the substrate wall.
- The fixing of rainwater goods, satellite dishes, clotheslines, and similar items is outside the scope of this document. In all cases, advice should be sought info@buildingagency.co.nz

- Due to the nature of the manufacturing process, some unevenness on the slates may occur, but this is unlikely to be excessive or obtrusive.

Conditions:

The specification and installation must be carried out or supervised by a suitably qualified practitioner.

Further Information:

For design, installation, maintenance, and warranty information, and for supply, please email info@buildingagency.co.nz or visit www.thebuildingagency.co.nz

Compliance with the NZBC: The following clauses of the NZBC are applicable to CUPACLAD® Cladding Systems and it complies with these requirements as explained below.

Structure - B1: Clause B1.3.1, B1.3.2, B1.3.3 (a, e, f, h, j, q) - Alternative Solution

CUPACLAD® has been tested to BS EN12326-2:2011 "Characteristic Modulus of Rapture" - Slate Thickness 7.65 mm, the result, Longitudinal 54 MPa, Transversal 35 MPa. When tested for dynamic wind load, the CUPACLAD® Cladding System, installed using an 800 mm and 1000 mm spacing between the vertical rails and the wall brackets respectively, achieved the design wind load resistance of 3.4 kPa. Refer to BBA Certificate no Agreement www.cupapizarras.com/wp-content/uploads/2018/11/bba_cupaclad_systems_18_5532.pdf

Tested to ASTM E330/E330M-14 Standard Test Method for Structural Performance of Curtain Walls Refer Intertek H7897.01-109-44 Ultimate Positive Design Pressure ± 5760 Pa (±120.30 psf) and Ultimate Negative Design Pressure ± 4800 Pa (±100.25 psf) Refer to www.thebuildingagency.co.nz

Durability - B2: Clause B2.3.1 (b) – Alternative Solution

The durability and service life of the system will have a service life of excess of 35 years. Due to CUPACLAD® low water absorption, the slates are not susceptible to frosting. Tests have also confirmed that the slates are not susceptible to hydrothermal ageing. Refer to BBA Certificate no Agreement www.cupapizarras.com/wp-content/uploads/2018/11/bba_cupaclad_systems_18_5532.pdf

Fire Performance – C: Clause C3.7 (a) – Acceptable Solution

CUPACLAD® is tested to AS/NZS1530.1 and deemed non-combustible, refer to https://www.cupapizarras.com/wp-content/uploads/2020/03/cupaclad_as1530.1_combustibility_test.pdf

External Moisture - E2: Clauses E2.3.2 Alternative Solution

The slates have a mean water absorption value of 0.16 and 0.17% to BS EN12326.2 Refer to www.cupapizarras.com/wp-content/uploads/2018/11/bba_cupaclad_systems_18_5532.pdf

Hazardous Building Materials - F2: Clause F2.3.1. Alternative Solution

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/all-products/cupa-readyslate/

Installation:

For Installation and Technical Details refer to www.thebuildingagency.co.nz or ask The Building Agency at 09 415 2669 for further information.

Maintenance:

Buildings where the system has been installed must be visually inspected regularly for any damage to the slates or the subframe. Damage slates should be replaced as soon as practicable. The work carried out should follow the CUPACLAD® installation information, refer to www.thebuildingagency.co.nz

Annual maintenance inspections should be carried out to ensure that the wall cavity ventilation, gutters, and downpipes are clear and in a good state and that such features as flashings and seals are in place and secure.

Cleaning of several forms of pollution can be performed as defined:

- > Air pollution (dust, dirt, soot, etc.) – clean with water solution.
- > Natural pollution (moss, algae) – clean with water solution.
- > Graffiti (spray cans) – clean with acetone or Duplicolor Graffiti-Ex, always following the instructions provided by the manufacturer.

Sources of Information and References

- BBA (British Board of Agreement) Approval Inspection Testing Certification 18/5532
- ETAG (European Technical Approval Guideline) parts 1 and 2 (EU Regulation 305/2011)
- CSIRO – Combustibility Fire Test - AS/NZS1530.1-1994 – Report no: FNC12546
- Tecnalía – Dynamic & static test for determining seismic drift causing glass fallout from a wall system AAMA 501.6-18, AAMA 501.4-18. Report no 087203-002-a
- Intertek - Tested to ASTM E330/E330M-14 Standard Test Method for Structural Performance of Curtain Walls Refer Intertek H7897.01-109-44.
- BRE – Environmental Product Declaration – Report no BREG EN EPD NO: 000343.