

Company Name & Address:

Stratco (Australia)

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Product: Stratco Prodek® Roofing and Cladding



Description

Stratco Prodek® is a versatile roofing material, designed to suit a wide range of applications, from verandah and carport installations to long length industrial roofing projects. The unique Prodek profile offers superior spanning ability, excellent water carrying capacity and impressive rigidity. Combine these advantages with a fast, easy pierced fixing installation and you have an economical profile that is ideal for use on industrial roofing.

Prodek is designed to provide maximum weather protection. The 50mm high rib on Prodek reduces the risk of wind driven rain entering the roof and ensures that water is channelled into the pan area of Prodek. It has a non-syphoning side lap which reduces the risk of moisture transfer between sheets due to capillary action, thus reducing the risk of roof leakage. In addition, turn up/down tools are available to assist in weatherproofing the end of the Prodek sheets

Place Of Manufacture

Australia

Design Considerations

- Effective cover 652mm
- Rib height 50mm
- Maximum Sheet Length – 24m lighter colours, 16m darker colours without expansion joints
- Minimum Sheet Length – 600mm
- Fixing Type – pierce fix with neoprene washers
- Minimum Roof Pitch – 1°
- Base Metal Thickness – 0.35mm(Wall Cladding only), 0.42mm or 0.48mm
- Yield Strength - 550 MPa
- Purlin spacing not to exceed maximum spans as per Prodek® span tables, refer Stratco Prodek® Roofing and Walling Design Guides.
https://www.stratco.com.au/siteassets/pdfs/cladding_prodek.pdf
https://www.stratco.com.au/siteassets/pdfs/cladding_prodek_roofing_cyclonic.pdf
- Ensure compatibility when using Prodek ® roofing and walling cladding with other building products to prevent accelerated corrosion.

Building Code Compliance

The product will, if used in accordance with Stratco's installation and maintenance requirements meet the following provisions of the building code:

NCC 2022 Volume 1 - For class 2 to 9 Buildings

- Section B1P1 Performance Requirements - Structural Reliability
- Section B1P2 Performance Requirements - Structural Resistance
- Section F3D2 Deemed-to-Satisfy Provisions – Roof Covering: AS 1562.1
- Section F3D5 Deemed-to-Satisfy Provisions – Wall Cladding: AS 1562.1
- Section F3F1 Functional Statements - Roof and Wall Cladding
- Section S4C2 Specification 4 Design of buildings in cyclonic areas – Roof Cladding

NCC 2022 Volume 2 - For class 1 and 10 Buildings

- Section H1D7 Deemed-to-Satisfy Provisions - Roof and Wall Cladding: AS 1562.1
- Section H2D6 Deemed-to-Satisfy Provisions - Roof and Wall Cladding

Published Capacity tables in reference manuals are suitable to determine structural adequacy and serviceability of nominated products for individual projects referencing the following Australian Standards and NCC requirements:

- NCC, Volume 1, Section B - Structure, Part B1 -Structural provisions (Deemed-to-Satisfy Provisions), Clause B1D2 Resistance to actions, Clause B1D3 Determination of individual actions and Clause B1D4 Determination of structural resistance of materials and forms of construction.
- NCC, ABCB Housing Provisions, Part 2.2 - Structural provisions, (Deemed-to-Satisfy Provisions), Clause 2.2.2 Resistance to actions, and Clause 2.2.3 Determination of individual actions.

Materials are deemed non-combustible and meets requirements:

- NCC, Volume 1 Part C1, C2D10, (5) and (6)(e) and Volume 2: Section H, Part H3, H3D2, (1)(e) : AS/NZS 1530.3:1999 (R2016)

Testing and Supporting Evidence

Australian Standards Compliance

- AS 1562.1-2018 - Design and installation of sheet roof and wall cladding - Part 1: Metal
- AS 4040.0-1992 - Methods of testing sheet roof and wall cladding
- AS 4040.2-1992 – Methods of testing sheet roof and wall cladding, Part 2: Resistance to wind pressures for non-cyclonic regions
- AS 4040.3-2018 - Methods of testing sheet roof and wall cladding, Part 3: Resistance to wind pressures for cyclone regions
- AS/NZS 1170.0:2002 - Structural design actions - Part 0: General principles
- AS/NZS 1170.1:2002 - Structural design actions Part 1: Permanent, Imposed and other actions
- AS/NZS 1170.2:2021 - Structural design actions Part 2: Wind actions
- AS/NZS 2728:2013 - Prefinished/prepainted sheet metal products for interior/exterior building applications - Performance requirements
- Coated steel substrate conforms with AS 1397:2021 - Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium

Warranty

It is important to choose the appropriate materials for the location to ensure they meet the minimum durability requirements of the NCC and satisfy customer expectations.

For project specific environment zone product selection contact Stratco for further information.

Warranty for wall cladding material:

- COLORBOND® Steel (up to 30 years)*
- COLORBOND® Steel Matt finish (up to 30 years)*
- COLORBOND® Steel Metallic finish (up to 20 years)*
- COLORBOND® Ultra Steel – Severe Environment (up to 30 years)*

Warranty for roofing material:

- COLORBOND® Steel (up to 45 years)*
- COLORBOND® Steel Matt finish (up to 45 years)*
- COLORBOND® Ultra Steel – Severe Environment (up to 45 years)*

*Warranties are subject to application and eligibility requirements

Finishes

Available in selected core and custom studio finishes and substrate metallic with aluminium/zinc/magnesium alloy coating:

- COLORBOND® Steel – AM100
- COLORBOND® Steel Matt finish – AM 100
- COLORBOND® Steel Metallic finish – AM100
- COLORBOND® Ultra Steel – AM150 - Severe Environment

Available unpainted with selected alloy coating:

- ZINCALUME® Steel – AM125

Installation

Packs of Prodek® sheeting should always be kept dry and stored above ground level on site. If the sheets have become wet, they should be separated, wiped and placed in the open to dry.

Black lead pencils must never be used for marking aluminium/zinc, and unpainted or pre-painted steel products. The carbon in the pencil promotes corrosion which will etch the surface of the material, leaving a permanent mark. Use a pencil of any colour other than black, a marker pen, or crayon.

Cutting of pre-painted steel material should be by shear with nibblers or hand shears. The use of cold cutting saw can be used with an appropriate tungsten blade.

All debris must be swept off the job at the end of each day. Prevention of swarf damage is far easier than its cure.

Prodek® sheets are laid lapped to sit neatly on the preceding sheet.

Flashings are to be installed using multi piece under and top flashings with minimal visible fixings as detailed using Stratco design details to comply with NCC Building Code.

Refer https://www.stratco.com.au/siteassets/pdfs/cladding_prodek.pdf

Maintenance

All roofing and cladding products are subject to the cumulative effects of weather, dust and other deposits so the performance and durability of Prodek® roofing and cladding over time depends on its correct maintenance as per the Stratco - Selection, Use and Maintenance Manual.

Refer https://www.stratco.com.au/siteassets/pdfs/selection_use_and_maintenance.pdf

Tolerances

Tolerances: Sheet width +/- 2mm Sheet length +/- 5mm