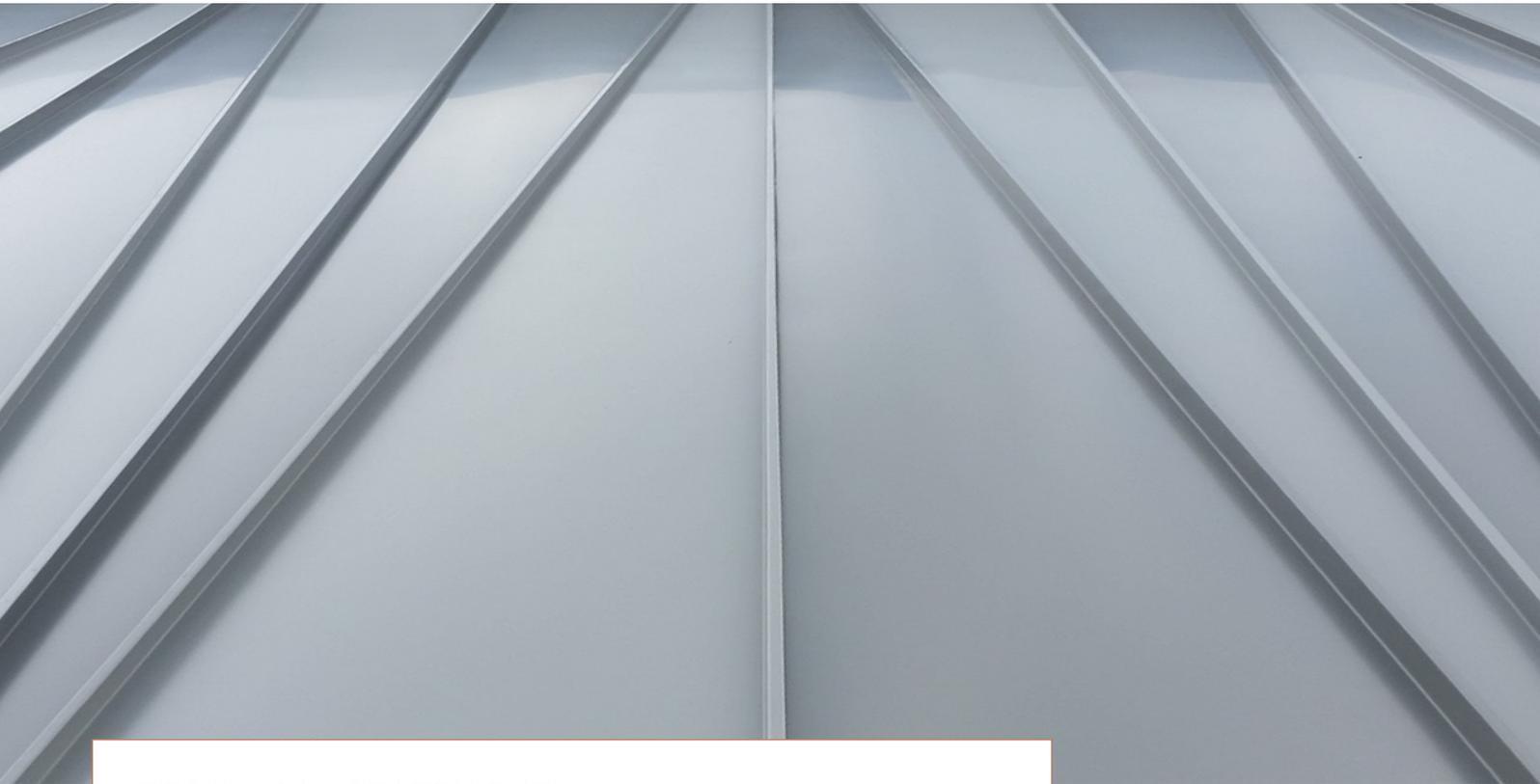


PRODUCT TECHNICAL STATEMENT

TARCTRAY Single Lock Standing Seam (SLSS)



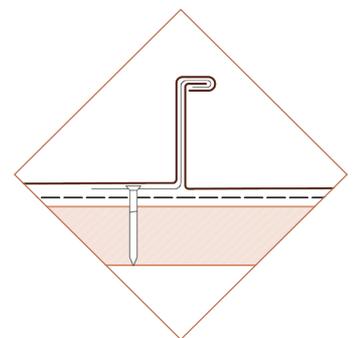
TECHNICAL STATEMENT

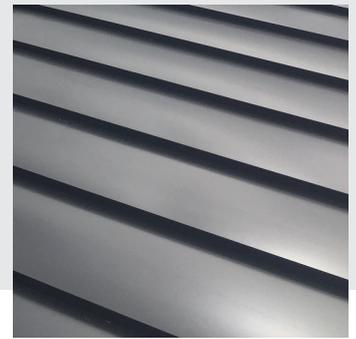
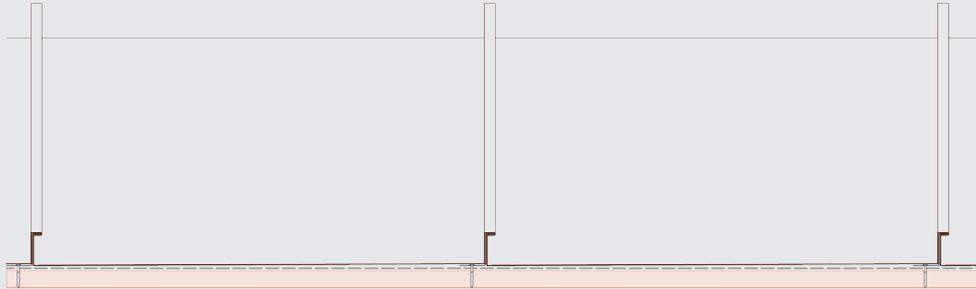
PRODUCT DESCRIPTION

The Architectural world is continuously evolving and searching for the latest designs and innovations, we here at THE **ARCHITECTURAL ROOFING COMPANY** Ltd. pride ourselves in providing New Zealand Architects with the latest Roofing and Cladding trends within a very niche Architectural market.

THE **ARCHITECTURAL ROOFING COMPANY** Ltd. are pleased to introduce, a revolutionary series of Internationally Inspired Roofing, Wall Cladding products all manufactured using the very latest technology and machinery that Europe and the US offers.

TARCTRAY Single Lock Standing Seam (SLSS) is an elegant Roofing and Wall Cladding system that offers building designers, Style, Design Flexibility, Sustainability and Durability. Our TARCTRAY Systems is predicted to be at the forefront of the Architectural Building, Design and Construction industry.





APPLICATIONS

- Residential Roofing & Cladding
- Commercial Roofing & Cladding
- Heritage Buildings
- Public Buildings
- Sporting Arenas

AVAILABLE IN A RANGE OF MATERIALS & SIZES

Gauges in 0.55 mm in plain and pre-painted steel, 0.7mm and 0.9mm AlumiGard aluminum.

Tray width sizes ranging: 300mm to 510mm.

INSTALLATION

TARCTRAY Single Lock Standing Seam (SLSS) is installed over a solid structure which uses a secret fixing clip, for timber framed buildings designed and constructed in accordance with B1/AS1, NZS3604 and E2/AS1, designed steel framed buildings to NASH 3405, and specifically designed buildings in accordance with B1/VM1 and AS/NZS 1170. Panels are joined by clipping and seaming and do not have any external through fixings.

NEW ZEALAND BUILDING CODE (NZBC)

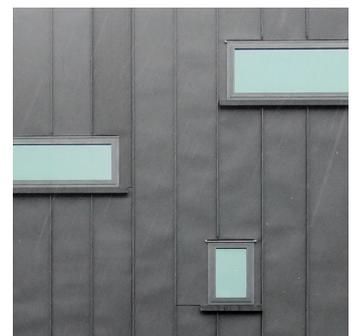
The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.3, B1.3.4
- Clause B2 Durability: Performance B2.3.1(b), B2.3.2
- Clause C3 Fire affecting areas beyond the fire source: Performance C3.7, C3.7(a)
- Clause E2 External moisture: Performance E2.3.1, E2.3.2
- Clause F2 Hazardous building materials: Performance F2.3.1

WHEN USED AS A ROOF CLADDING

TARCTRAY Single Lock Standing Seam (SLSS)

may be used with a minimum roof gradient of 3 degrees.



WHEN USED AS A WALL CLADDING

TARCTRAY Single Lock Standing Seam (SLSS)

Wall and Soffit Panel must be fixed over a solid substructure over nominal 20mm drained cavity.

NOTES

The product will, when installed using the details in the **TARCTRAY Single Lock Standing Seam (SLSS)** Installation Manual, will meet the following provisions of the building code:

- Clause B1 Structure: Performance B1.3.1; B1.3.2; B1.3.3 for the relevant physical conditions of a) self weight, b) imposed gravity loads arising from use, c) temperature, d) earthquake, e) (snow) and g) wind; B1.3.4.
- Clause B2 Durability: Performance B2.3.1(b); B2.3.2
- Clause C3 Fire Affecting Areas Beyond the Fire Source: Performance C3.7 **TARCTRAY Single Lock Standing Seam (SLSS)** is noncombustible and contributes to C3.7a)
- Clause E2 External moisture: Performance E2.3.1, E2.3.2 **TARCTRAY Single Lock Standing Seam (SLSS)** falls outside the scope of E2/AS1 and is to be specifically designed and installed to the manufacturers recommendations.
- F2 Hazardous Building Material: Performance F2.3.1

EVIDENCE

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

- Verification Method for Structure B1/VM1
- Acceptable Solution B1/AS1
- Verification Method C/VM2
- AS/NZS 2728: 2013
- NZ Metal Roof and Wall Cladding Code of Practice Version 2.2/2012 (MRM Code of Practice)

- AS/NZS 4020: 2005 Testing of products for use in contact with drinking water
- AS/NZS 1734: 1997 Aluminum and aluminum alloys – Flat sheet, coiled sheet and plate
- AS/NZS 4534: 2006 Zinc and zinc/aluminum-alloy coatings on steel wire
- AS/NZS 4680: 2006 Hot-dip galvanized (zinc) coatings on fabricated ferrous articles
- AS 1397: 2011 Continuous hot-dip metallic coated steel sheet and strip – Coatings of zinc and zinc alloyed with aluminum and magnesium
- BS EN 988: 1997 Zinc and zinc alloys. Specification for rolled products for building
- ISO 9223: 1992 Corrosion of metals and alloys; corrosivity of atmospheres; classification
- Tested for wind loads to AS4040.3: 1992 Methods of testing sheet roof and wall cladding Resistance to wind pressures for cyclone regions
- AS4040.2: 1992 Methods of testing sheet roof and wall cladding. Resistance to wind pressures for non-cyclone regions.

SUPPORTING EVIDENCE

The product has and can make available the following additional evidence to support the above statements: New Zealand Metal Roofing Manufacturers Association Inc (NZMRM) Code of Practice.

USE IN SERVICE HISTORY

TARCTRAY Single Lock Standing Seam (SLSS) coil is supplied by NZ Steel and Pacific Coil coat-ers, and history of in-service use of metal long run roof and wall cladding within New Zealand tests to in-service use.



PRODUCT CRITERIA

DESIGN REQUIREMENTS

Refer to THE **ARCHITECTURAL ROOFING COMPANY** Ltd. for material recommendations and standard pan widths to minimize waste and generally shorten lead times.

Refer to MRM Code of Practice, Section 11 for Secret Fixed Cladding.

TARCTRAY Single Lock Standing Seam (SLSS) is secretly fixed with a clip system. Panels are mechanically fixed together without any external through fixings. (For fixings and fixing patterns please refer to THE **ARCHITECTURAL ROOFING COMPANY** Ltd. Installation Manual).

A breather type underlay is recommended over substructure.

MAINTENANCE REQUIREMENTS

Regular maintenance will extend the life of **TARCTRAY Single Lock Standing Seam (SLSS)** and associated accessories. Maintenance guides are available from THE **ARCHITECTURAL ROOFING COMPANY** Ltd. or can be downloaded from either NZ Steel or Pacific Coil coaters website.

GUIDE TO REGULAR MAINTENANCE

Inspect the roof, including fasteners, and repair any damage every 6 months. Wash areas not receiving regular rain washing with fresh water at least every 3 - 6 months.

- Remove debris from gutters every 3 - 6 months.
- Remove any noticeable buildup of salt deposits and/or other contaminants when identified.
- Please consult with your local distributor when considering over painting to ensure correct procedures are undertaken.

WARRANTIES

Please refer to THE **ARCHITECTURAL ROOFING COMPANY** Ltd., coil Suppliers, Warranties and Product Maintenance Recommendations brochure has warranty periods, product recommendations, maintenance requirements and product usage restrictions.

COMPANY PRODUCT INFORMATION

ENVIRONMENTAL

Colorsteel and ColorCote pre-painted steel has been extensively tested and proven in some of New Zealand's most extreme UV, wind, rain, snow and ice environments. All Colorsteel and ColorCote materials are factory painted at either NZ Steel, Glenbrook or Pacific Coilcoaters, Penrose.

Environmental category literature available by request or the trayroofing.co.nz website, or by contacting, THE **ARCHITECTURAL ROOFING COMPANY** Ltd., technical helpline 0800 50 2004.