MANUFACTURER

PRODUCT TECHNICAL STATEMENT

TARCTRAY Batten Cap

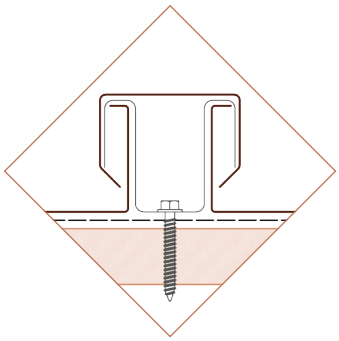
TECHNICAL STATEMENT

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 Batten Cap is an elegant but strong Roofing and Wall Cladding system that offers building designers, Style, Design Flexibility, Sustainability and Durability. Our TARCTRAY Systems are predicted to be at the forefront of the Architectural Building, Design and Construction industry.



THE **ARCHITECTURAL ROOFING** COMPANY
76A Hayton Rd, Wigram | PO Box 6025, Upper Riccarton | Christchurch 8442, New Zealand | P: 0800 50 2004 | E: info@tarc.co.nz

THE **ARCHITECTURAL ROOFING** COMPANY SOUTHERN Ltd.
Unit B | 54 McNulty Rd | Cromwell 9310, New Zealand | PO Box 37 | Lake Hawea 9345 | P: 021 578 739 | E: bruce@tarcs.nz

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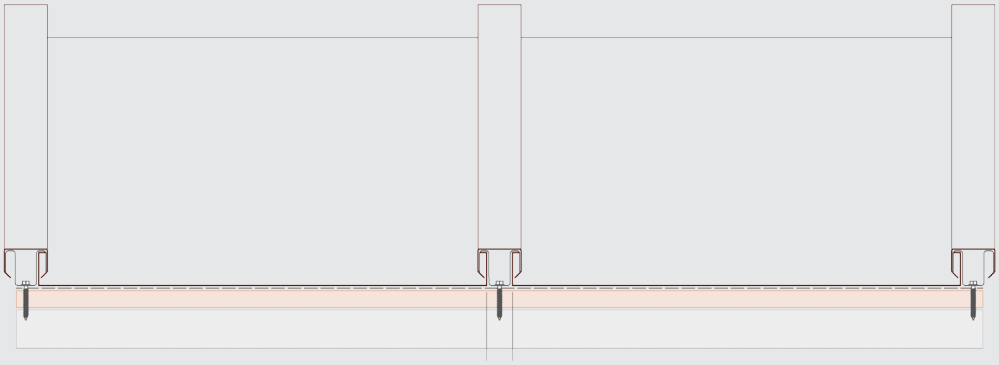

APPLICATIONS

- 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 - 0.9mm AlumiGard aluminum.
0.7mm - 1.0mm Zinc and Copper.
Tray width sizes ranging: 300mm to 550mm.

INSTALLATION

TARCTRAY Batten Cap is installed over 15mm minimum Plywood sub-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 laid all independent from one another with a 50mm wide top hat section.

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 Batten Cap may be used with a minimum roof gradient of 5 degrees.

WHEN USED AS A WALL CLADDING

TARCTRAY Batten Cap Wall and Soffit Panel must be fixed over a nominal 20mm drained cavity.

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NOTES

The product will, when installed using the details in the **TARCTRAY Batten Cap** 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 Batten Cap** is noncombustible and contributes to C3.7a)
- Clause E2 External moisture: Performance E2.3.1, E2.3.2 **TARCTRAY Batten Cap** 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 Batten Cap coil is supplied by NZ Steel and Pacific Coil coaters, and history of in-service use of metal long run roof and wall cladding within New Zealand tests to in-service use.

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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 Batten Cap** is secretly fixed with a clip system. Panels are locked together without any external through fixings with a separate cap. (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 Batten Cap** 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.

WARRANTEES

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 Color-Cote 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.

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