

Snaplock Roof Coloursteel

General

This section relates to the supply and fixing of TARC SSSL Standing Seam Snaplock Roof (Coloursteel), complete with accessories.

1.1 RELATED WORK

1.1.1 Refer to UNDERLAYS, FOIL AND DPC for underlays, foils and DPC. Refer to RAINWATER SPOUTING SYSTEMS for rainwater disposal.

1.2 ABBREVIATIONS AND DEFINITIONS

- 1.2.1 The following abbreviations apply specifically to this section:
- BMT Base metal thickness
- NZMRM New Zealand Metal Roofing Manufacturers Inc
- LBP Licensed Building Practitioner

Documents

1.3 DOCUMENTS

- 1.3.1 The following documents are specifically referred to in this section:
- NZBC C/AS1-AS7 Protection from fire
- NZBC E2/AS1 External moisture
- NZBC G12/AS1 Water Supplies
- AS/NZS 1170.2 Structural design actions Wind actions
- · AS 1397 Continuous hot-dip metallic coated steel sheet and strip Coatings of zinc and zinc alloyed with aluminium and magnesium
- AS/NZS 2728 Prefinished/pre-painted sheet metal products for interior/exterior building applications Performance requirements
- NZS 3604 Timber-framed buildings
- NZMRM COP NZ Metal Roof and Wall Cladding Code of Practice.
- NZBC B2/AS1 Durability
- AS/NZS 1170.2 Structural design actions Wind actions
- AS 1397 Steel sheet and strip-Hot dip zinc coated or aluminium zinc/coated
- NZS 2295 Pliable permeable building underlays
- NZS 3604 Timber-framed buildings
- NZMRM NZ Metal roof and wall cladding Code of practice
- BRANZ BU 318 Care of Coil Coated Metal Cladding
- BRANZ BU 467 Principles of Flashing Design
- BRANZ BU 519 Fastener Selection

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1.4 MANUFACTURER/SUPPLIER DOCUMENTS

- 1.4.1 Manufacturer's and supplier's documents relating to this part of the work: The Architectural Roofing Company Ltd. literature, including: Product Guide, Product Technical Statements and Design Solutions.
- NZ Steel: Specifiers and Builders Guide
- NZ Steel: Installers Guide
- Ecoply: Structural Plywood Properties & Application Manual

Manufacturer/supplier contact details Company: The Architectural Roofing Company Ltd.

Web: www.trayroofing.co.nz Email: info@trayroofing.co.nz Telephone: 0800 50 2004

Warranties: A sample Roofing warranty showing terms and conditions, and information on maintenance requirements is available from The Architectural Roofing Company. Ph 0800 50 2004 or on website www.trayroofing.co.nz.

1.5 WARRANTY - MANUFACTURER/SUPPLIER

- 1.5.1 Provide a material manufacturer/supplier warranty: 15 years (minimum) For Perforation 10 years (minimum) For Coatings Provide this warranty on the, The Architectural Roofing Company Ltd. standard,
- 1.5.2 Commence the warranty from the date of installation.

1.6 WARRANTY - INSTALLER/APPLICATOR

- 1.6.1 Provide an installer/applicator warranty: 5 years for workmanship.
- 1.6.2 Provide this warranty on the installer/applicator standard form. Commence the warranty from the date of installation.
- 1.6.3 Include a copy of the, The Architectural Roofing Company Ltd. maintenance requirements with the warranty. Refer to the general section WARRANTIES for additional requirements.

Requirements

1.7 QUALIFICATIONS

1.7.1 Roofers / Cladders to be TARC recommended Installers.

1.8 NO SUBSTITUTIONS

1.8.1 Substitutions are not permitted to any specified TARC products, or associated components and products.

Performance

1.9 FIXINGS, WIND

1.9.1 Use the fixings appropriate for the design loads of this site as required by NZS 3604 and AS/NZS 1170.2. Allow for specific loadings at corners and the periphery of the Roofing, where localised pressure factors apply. Contact The Architectural Roofing Company Ltd. for advice.

1.10 SPREAD OF FIRE

1.10.1 To NZBC C/AS1-AS7, 5.8.2 a) Exterior Surface Finishes.

1.11 CO-ORDINATE

1.11.1 Co-ordinate to ensure substrate and preparatory work is complete and other work programmed in the order required for access and completion of the Roofing. Ensure that all necessary members are positioned so that flashings can be fastened at both edges through the roof profile or Roofing to the primary structure.

1.12 PERFORMANCE

1.12.1 Install Roofing material and associated flashings and accessories to form a weather tight and durable system.



2. PRODUCTS / MATERIALS

2.1 TIMBER SUBSTRATE

2.1.1 75 x 50mm Purlin on its flat with 2 x 75mm nails at 450mm centres.

2.2 ROOFING UNDERLAY

2.2.1 Refer to 4161 UNDERLAYS, FOIL AND DPC. Breather, absorbent type underlays to NZS 2295.

2.3 ALUMINIUM/ZINC ALLOY COATED STEEL, UNPAINTED

2.3.1 Formability G300 steel sheet coated to AS 1397. Coating class: AZ 150.

2.4 PRE-FINISHED ALUMINIUM/ZINC ALLOY COATED STEEL

2.4.1 Formability G300 steel sheet coated to AS/NZS 2728. Coating class: AZ 150

2.5 PRE-FINISHED HOT-DIPPED ALUMINIUM/ZINC/MAGNESIUM COATED STEEL

2.5.1 Formability steel sheet, G300 for roll forming, coated to AS 1397.

2.6 ALUMINIUM 5005 or 5052

2.6.1 Alloy H34 or H36 temper to suit application.

2.7 STAINLESS STEEL

2.7.1 Strip grade 445M2.

2.8 TARC PROFILES

2.8.1 Refer to SELECTIONS for profile and pan widths.

2.9 FLASHINGS GENERALLY

2.9.1 To E2/AS1, 4.0, Flashings. Formable grade 0.55mm BMT for galvanized, aluminium/zinc-coated and pre-painted steel, and 0.90mm for aluminium (or 0.7mm for small aluminium flashings) to the same standards as the profiled sheets, notched where across profile. Where flashings are required but are not detailed, design to TARC's approved recommendations and designs.

Components

2.10 FASTENERS GENERALLY

2.10.1 Minimum Class 4 and durability not less than the Roofing material being fixed. Fastener material to be compatible with the material being fastened.

2.11 FIXING CLIPS

2.11.1 Galvanized steel (thermoplastic powder coated or stainless steel for aluminium, copper or zinc) to suit the material and profile of the rigid sheet and location as required by TARC. Fix to steel with 25mm x 2.5mm annular groove stainless steel nails.

2.12 FIXING NAILS

2.12.1 Appropriate nails to the Roofing material, clip type and the supporting structure, as required by the roofing manufacturer and with a minimum Category 5 durability and not less than the material being fixed.

2.13 RIVETS

2.13.1 Sealed aluminium, minimum diameter 4mm, for use with zinc coated, zinc/aluminium coated or aluminium Roofing.

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Accessories

2.15 SEALANT

2.15.1 Neutral curing silicone or MS polymer sealant as required by TARC and used as directed. For VM Zinc use only Sikaflex 11FC.

3. EXECUTION

Conditions

3.1 INSPECTION

3.1.1 Inspect the Roofing framing and supporting structure to ensure that it is complete and fully braced ready for Roofing and free from any misalignments or protrusions that could adversely affect the Roofing.

3.2 STORAGE

3.2.1 Take delivery of and accept packs of the Roofing undamaged on delivery. Reject all damaged material. Stack Roofing and accessories on clean, level areas of the site and protect from mechanical damage, wind damage and contamination. Loosely cover dry sheeting, with any wet sheeting fillet or cross stack to allow air to circulate. Remove strippable protective film, if applied, prior to prolonged exposure to sunlight.

3.3 HANDLING

3.3.1 Avoid distortion and contact with damaging substances, including cement. Do not drag sheets across each other and other materials. Protect edges and surface finishes from damage. Use soft, flat soled shoes when fixing and for all other work on the Roofing.

3.4 SEPARATION

3.4.1 Place isolators between dissimilar metals and separate Roofing from treated timber and cement based materials. Do not use unpainted lead sheet or copper in contact with or allow water run-off onto galvanized or Zincalume® materials.

Application

3.5 SET-OUT

3.5.1 Carefully set out the planned layout before fixing commences, to ensure true lines and the correct relationship to module, grid and Roofing features. Check during fixing to eliminate creep or spread.

3.6 END LAPS

3.6.1 Install in continuous lengths without end laps. Where end laps are necessary, install in accordance with the relevant TARC Roofing design details.

3.7 LAY ROOFING UNDERLAY

3.7.1 Fit and lap Roofing underlay where specified over the purlins. Lay underlay horizontally or vertically with a 150mm side lap, over sailing the spouting and/or gutters by 10mm.

3.8 AVOID DAMAGE

3.8.1 Take care to avoid damaging pre-finished Roofing both during fixing. Wear only soft-soled shoes on the finished surface.

3.10 MARKING AND CUTTING PROFILED METAL ROOFING

3.10.1 Use ink pen, chalk line or coloured pencil for marking Roofing sheets prior to cutting. Do not use black lead pencil for marking aluminium/zinc-based products. Cut by using nibblers or hand snips. Remove all cutting and drilling debris from the Roofing as soon as possible, ensuring that it does not contaminate gutters or lower surfaces.

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3.11 INSTALLING PROFILED METAL ROOFING

- 3.11.1 Install and fix in accordance with NZ Steel's Installers Guide, NZMRM CoP and to TARC current product literature. Use only nails as required by the roofing manufacturer. Fixings and accessories to be colour matched before installation.
- 3.11.2 Fix sheets in place into 75mm x 50mm purlin, with breather type Roofing underlay, using TARC clips secured with 2 8g x 25mm x 2.5mm annular groove stainless steel nails (clips and nails to be of compatible material to that of Roofing). Clips to be fastened to purlin at typically 450mm centres using a combination of TARC fixed and sliding clips for Snap Lock profiles. Layout of fixed and sliding clips is dependent on Roofing design. Consult TARC for recommended fixing centres and layout. Make provision for due allowance for dynamic local wind pressures on building and thermal movement in sheet.

3.12 FIXINGS

3.12.1 Refer to the roofing manufacturer's literature for fixing details, taking care in the higher wind uplift areas at ridges, edges and verges.

3.13 VALLEYS

3.13.1 Form valleys as detailed and required by TARC, ensuring the valleys provide a weathertight and neat appearance.

3.14 INSTALL FLASHINGS AND CAPPINGS

3.14.1 Flash neatly to all penetrations and openings through Roofing using secret clip systems avoiding visible fastenings. Flashing design and installation to TARC Design Solutions.

3.15 FLASHING PENETRATIONS

3.15.1 Flash all penetrations through the Roofing. Fit pipe flashings with a proprietary collar flashing through pan of TARC profile only. Other penetrations flash as detailed and to provide a weathertight installation. Ensure that flashings are set to avoid any ponding of water.

3.16 USE OF SEALANTS

3.16.1 Select and use sealants only as recommended by the roofing manufacturer. Apply sealant in two narrow beads transversely across flashing intersections, close to the two edges. Avoid exposing sealant on outside surfaces.

3.17 REMOVE FILINGS

3.17.1 Remove metal filings from Roofing surfaces at least daily.

3.18 PENETRATIONS AND JUNCTIONS

3.18.1 Check that adjoining walls and parapets are prepared ready for the installation of the Roofing. Confirm that openings have been prepared ready for the installation of skylights and other penetrations through the Roofing. Required work includes the following: - underlay turned up at wall and parapet lines - underlay finished and dressed off to all openings, ready for the installation of skylights and other penetrations - Roofing installation neatly finished to all sides of openings and to all wall and parapet junctions - installation of flashings (those required to be installed prior to installation of penetrating elements and/or wall linings).

Completition

3.19 REPLACE

3.19.1 Replace damaged or marked elements. Do not attempt to repair coatings by applying colour match paint to pre-finished surfaces.

3.19 LEAVE

3.19.1 Leave this work complete with all necessary flashings, under cloaks, valleys, ridges and hips all properly installed as the work proceeds so the finished Roofing is completely weathertight.

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3.20 REMOVE

Remove trade rubbish and unused materials from the Roofing and surrounds daily during the work. Sweep down at the end of each day, and clean out spouting, gutters and rainwater pipes on completion of the Roofing. Remove debris, unused materials and elements from the site. Remove any protective strippable film as soon as possible. Do not leave product exposed with strippable film for more than one week.

4. SELECTIONS

For further details on selections go to www.trayroofing.co.nz,

Substitutions, are not permitted to the following, unless stated otherwise.

Coating System

4.1 COATING SYSTEM - EXPOSURE ZONE B-C (CAT 1-3)

4.1.1 Project Exposure Zone B-C to NZS 3604, C 1-3 to ISO 9223.

Profile/location: ~

Base material: ~

Coating system: ~

Coating colour. \sim

4.2 COATING SYSTEM - EXPOSURE ZONE D (CAT 4)

4.2.1 Project Exposure Zone D to NZS 3604, C 4 to ISO 9223.

Profile/location: ~

Base material: \sim

Coating system: \sim

Coating colour. ~

4.3 COATING SYSTEM - EXPOSURE ZONE E (CAT 5)

4.3.1 Project Exposure Zone E to NZBC E2/AS1, C 5 (C5I & C5M) to ISO 9223.

Profile/location: ~

Base material: \sim

Coating system: ~

Coating colour. \sim

Roofing

4.6 TARC - SNAPLOCK ROOF

4.6.1 **BMT/material:** 0.55mm

Pan width: 300mm to 515mm

Clips: TARC Fixed Clips

Substrate: Timber

Clip Fixing:

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Accessories

4.7 FLASHINGS - GENERALLY

4.7.1 **BMT/material**:

Coating system: To match Roofing

Coating colour: To match Roofing

4.8 DEKTITE PIPE FLASHINGS

4.8.1 **Brand/Type:** Dektite