

NZ Metal Roof And Wall Cladding Code Of Practice v26.06

Table of Contents	1
19 Revision History	3
19A Revision Categories	4
19.1 v26.06 June 2026	5
19.2 April 2026	8
19.3 v26.03 March 2026	10
19.4 v25.12 December 2025	12
19.5 v25.09 September 2025	15
19.6 v25.06 June 2025	23
19.7 v25.03 March 2025	27
19.8 v24.12 December 2024	30
19.9 v24.09 September 2024	32
19.10 v24.06 June 2024	34
19.11 v24.03 March 2024	38
19.12 v23.12 December 2023	40
19.13 2023 - September	44
19.14 2023 - June	49
19.15 2023 - March	56
19.16 2022 - November	58
19.17 2022 - June	61
19.18 2022 - April	65
19.19 2021 - December	67
19.20 2021 - September	69
19.21 2021 - June	71
19.22 2021 - March	76
19.23 2020 - December	78
19.24 2020 - September	80
19.25 2020 - June	82
19.26 2020 - March	85
19.27 2019 - December	87
19.28 2019 - August	91
19.29 2019 - May	98
19.30 2019 - February	107
19.31 2018 - November	109
19.32 2018 - October	117

NZ Metal Roof And Wall Cladding Code Of Practice v26.06



19

Revision History

Policy for Updates to NZ Metal Roof and Wall Cladding Code Practice.

All revisions to clauses of the COP after June 2018 are recorded at [19 Revision History](#), including a brief explanation of the change.

See sub-clauses for detail of revisions at particular dates.

- Reproductions of specific sections from the Code of Practice at a particular date are available on request by emailing admin@metalroofing.org.nz.
- From June 2026, the PDF Download of the Code of Practice contains detailed revision history for *only changes made to the current edition*.

A PDF version of the full revision history to June 2018 is available at metalroofing.org.nz/RoofingCOP_RevisionHistory.pdf.

The online Code of Practice retains the full revision history.

Revisions are split into 3 categories for simple assessment by users:

19A Revision Categories

Category	Description	Notification
Category 1 - Minor Errata	Correction to spelling, grammar or formatting that have no bearing on the substance of the clause.	Recorded on website only - not individually included in emailed update
Category 2 - Editing and rearrangement	A clause or section of clauses has been rewritten to some extent for better articulation of the existing recommendation. Existing citations of the COP in project documentation may be less clear as a result, but recommendations are not altered.	Recorded on website, and will be cited in emailed update as either specific or summary information as appropriate.
Category 3 - Substantial change to recommendation	A substantial change in a specific recommendation of the COP has taken place. A review of existing project documentation against the new clause is considered essential.	Recorded on website, and explained with detail in emailed update

19.1 v26.06 June 2026

The latest changes to the NZMRM Metal Roof and Wall Cladding code of Practice were Published on 1 June 2026.

Substantial changes to recommendations

- The [5.7.3 Downpipe Capacity Calculator](#) and [5.7.2A Downpipe Capacity Table](#) have been updated with common dropper sizes, which resulted in a decrease in downpipe capacity in many cases. The calculator now automatically selects the minimum dropper size relevant to a chosen downpipe size.
- The calculations in the [9.4.4 Maximum Area Above Penetration Calculator](#) for corrugate profiles now assumes that there is no lap in the discharge trough. This resulted in an increase in the maximum area above penetrations recommendations in the CoP.
- We improved general labelling and descriptions of conditions and dimensions for [5.5.6 Asymmetrical Valleys](#) designs.
- The clause [8.11 Wall Cladding](#) now contains details for wall cladding flashings, including internal and external corners, and vermin proofing.
Window details for Corrugate Horizontal on Cavity, Corrugate Vertical on Cavity, and Corrugate Vertical Direct fixed have been tested to comply with E2/VM1. Details are available from roofmattersnz@gmail.com and will be published the next Code of Practice revision on 1 September 2026.

Editing and rearrangement

- The [5.8.1 Maximum Area Above Spreader Calculator](#) now features an additional callout to draw attention to Condition 3.
- We revised the [7.3.2 Roof Cladding Expansion Provisions](#) required for controlling expansion in aluminium.
- We added a recommendation for fastener identification to be stamped on fastener heads to [17.2 MRM Fastener Performance Requirements and Testing](#).
- The illustration for [10.10.2B Ventilation Pathway: Top Plate with Underlay](#) was updated to show how a baffle can be used to improve ventilation.
- The PDF Download of the Code of Practice now contains detailed revision history for only changes made to the current edition. The online Code of Practice retains the full detail at [19 Revision History](#) and a PDF version of the full revision history is available at metalroofing.org.nz/RoofingCOP_RevisionHistory.pdf.

19.1A Revision Detail v26.06 - 2026 - June

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	New revision message for v26.06, published on 1 June 2026.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2- Editing and rearrangement		5.7.2 Capacity Table for Common Size Downpipes	Revised the 5.7.2A Downpipe Capacity Table to use dropper sizes and linked the table to the 5.7.3 Downpipe Capacity Calculator .
1 - Minor Errata		4.6.3 Material Selection	Fixed table content alignment.
3 - Substantial change to recommendation		5.4.6 Secret Gutters	Revised 5.4.6B Secret Gutter Detail to clearly show the height of the gutter.
1 - Minor Errata		5.4.7 Gutter Capacity Calculator	Grammar fix.
2 - Editing and rearrangement		5.5.6 Asymmetrical Valleys	Added clarification for asymmetrical valley dimensions.
3 - Substantial change to recommendation		5.5.7 Valley Capacity Calculator	Improve labeling and conditions for asymmetrical valley designs and fix label positioning. Clarifies requirement for valley baffle in some asymmetrical designs.
1 - Minor Errata		5.6 Outlets	Correction for clarity.
1 - Minor Errata		5.7.2 Capacity Table for Common Size Downpipes	Fixed link to 5.7.3 Downpipe Capacity Calculator
3 - Substantial change to recommendation		5.7.3 Downpipe Capacity Calculator	Updated for in-place selection of common downpipe sizes, and now uses measured dimensions of standard droppers. This may result in reduced capacity vs previous calculations.
2 - Editing and rearrangement		5.8.1 Maximum Area Above Spreader Calculator	Grammar fix and additional callout on illustration to Condition 3
1 - Minor Errata		7.1.4 Maximum Run Calculator	Grammar fix.
2 - Editing and rearrangement		7.3.2 Roof Cladding Expansion Provisions	Revised 7.3.2A Favourable Circumstances for Controlling Expansion to show the correct recommendations for aluminium.
1 - Minor Errata		8.4 Flashing Cover	Removed requirement for a baffle in Category C in 19.1A Revision Detail v26.06 - 2026 - June .
2 - Editing and rearrangement		8.8 Profile Closures	Illustrations for vermin flashings have been moved to 8.11 Wall Cladding .
3 - Substantial change to recommendation		8.11 Wall Cladding	Renamed clause and added illustrations for wall cladding flashings and vermin closures.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation		9.4.4 Maximum Area Above Penetration Calculator	For corrugate profiles this now assumes flow to top of profile (no freeboard), which increases area but requires that there be no discharge to lap row.
2 - Editing and rearrangement		10.10.1.2 Fascia Vents	This clause has been revised as part of the larger revision of 10.10 Ventilation Pathways .
2 - Editing and rearrangement		10.10.2 Battens	Editing of 10.10.2B Ventilation Pathway: Top Plate with Underlay to clearly show a baffle.
1 - Minor Errata		14.10 Overhang	Edit for clarity. No changes to recommendations.
1 - Minor Errata		17.1.3.1 UDL Testing	Minor edit for clarity.
2 - Editing and rearrangement		17.2 MRM Fastener Performance Requirements and Testing	Added recommendation fastener identification stamped on the head.
2 - Editing and rearrangement		19 Revision History	PDF Download of the Code of Practice now contains detailed revision history for <i>only changes made to the current edition</i> .
1 - Minor Errata		19.2 April 2026	Correction to clause links
4 - Clause Inserted		19.1 v26.06 June 2026	Latest revision.

19.2 April 2026

On 21 April 2026 the Roof Drainage Calculators were updated outside of the standard update sequence.

This update was to address the issue of the HIRDS tool from NIWA changing to a pay-per-use tool:

- There were no changes to recommendations or calculation methodologies.
- Existing project calculations and figures are unchanged for the same parameter.
- All calculators now enable selection of Location to utilise rainfall intensity figures from NZBC E1/AS1 Table A.
- Intensities determined from HIRDS or other methods can be entered as 'Custom'

19.2A Changes for Roof Drainage Calculators April 2026

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	5.3.2	5.3.2 Rainfall Intensity	Inserted mention that payment is now required to use NIWA's HRIDS tool.
2 - Editing and rearrangement	5.3.2.1	5.3.2.1 Designing for Climate Change	We have changed the recommendation for calculating rainfall intensity to using the new feature on our online calculators.
2 - Editing and rearrangement	5.4.7	5.4.7 Gutter Capacity Calculator	Enable selection of Region/location per NZBC E1 Table A. Calculations are unchanged for a given Rainfall Intensity, and Rainfall Intensity can still be manually entered if determined from HIRDS or other methods.
2 - Editing and rearrangement	5.5.7	5.5.7 Valley Capacity Calculator	Enable selection of Region/location per NZBC E1 Table A. Calculations are unchanged for a given Rainfall Intensity, and Rainfall Intensity can still be manually entered if determined from HIRDS or other methods.
2 - Editing and rearrangement	5.7.3	5.7.3 Downpipe Capacity Calculator	Enable selection of Region/location per NZBC E1 Table A. Calculations are unchanged for a given Rainfall Intensity, and Rainfall Intensity can still be manually entered if determined from HIRDS or other methods.
2 - Editing and rearrangement	5.8.1	5.8.1 Maximum Area Above Spreader Calculator	Enable selection of Region/location per NZBC E1 Table A. Calculations are unchanged for a given Rainfall Intensity, and Rainfall Intensity can still be manually entered if determined from HIRDS or other methods.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	7.1.4	7.1.4 Maximum Run Calculator	Enable selection of Region/location per NZBC E1 Table A. Calculations are unchanged for a given Rainfall Intensity, and Rainfall Intensity can still be manually entered if determined from HIRDS or other methods.
2 - Editing and rearrangement	9.4.4	9.4.4 Maximum Area Above Penetration Calculator	Enable selection of Region/location per NZBC E1 Table A. Calculations are unchanged for a given Rainfall Intensity, and Rainfall Intensity can still be manually entered if determined from HIRDS or other methods.
4 - Clause Inserted		1B v26.4 - April 2026	Urgent update to introduce rainfall intensity calculator.

19.3 v26.03 March 2026

In the March 2026 revision of the Code of Practice the focus was heavily towards clarification with some substantial changes.

Important Revisions

- We thoroughly revised [10.10 Ventilation Pathways](#) and all its sub-clauses. This revision included updating illustrations of ventilation pathways and revising the recommendations around ventilated battens.
- In another substantial revision we added guidance about [4.10.7 Crevice Corrosion/Wet Storage Stain](#) stain caused by incorrectly supported scaffolding.
- We added a new clause discussing [12.3 Clip Marking on Trough Sections](#).
- The illustration for [9.5.1C Over-flashed Boot with Arrowhead Soaker on Trapezoidal Profile](#) was updated to show the correct details.

Editing and rearrangement

Most editing and rearrangement for this update concentrated on clarifying and removing ambiguities throughout the Code of Practice.

Revision Detail v26.03 - 2026 - March

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	New revision message for v26.03, published on 1 March 2026.
2 - Editing and rearrangement	2.1	2.1 Definitions	Updated definition for Lap Tape.
3 - Substantial change to recommendation	4.10.7	4.10.7 Crevice Corrosion/Wet Storage Stain	Added guidance for scaffolding support on roofing.
2 - Editing and rearrangement	4.19.1	4.19.1 Fastener Durability	Edited for clarity. No changes to recommendations.
2 - Editing and rearrangement	8.6	8.6 Fastening Flashings	Editing for clarity.
2 - Editing and rearrangement	8.8	8.8 Profile Closures	Editing for grammar and clarity. No changes to recommendations.
1 - Minor Errata	9.4.1.1	9.4.1.1 Overflashed Backflashings	Renamed clause, for linking purposes.
2 - Editing and rearrangement	9.4.2.6	9.4.2.6 Penetration Flashings on Trapezoidal Profiles	Updated the illustration to show the apron of the cricket covering the penetration apron.
1 - Minor Errata	9.4.3	9.4.3 Dormer Details	Reformatting of 9.4.3B Gable Dormer Valley: Corrugate . No other edits or changes to recommendations.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	9.5.1	9.5.1 Boot Flashings to an Over Flashing	Replaced details drawing: 9.5.1C Over-flashed Boot with Arrowhead Soaker on Trapezoidal Profile
0 - Clause Removed	9.5.2	Other Applications for Boot Flashings	Removed empty clause.
3 - Substantial change to recommendation	10.1	10.10 Ventilation Pathways	This clause and its sub-clauses have been substantially revised.
1 - Minor Errata	10.10.1.1	10.10.1.1 Soffit Vents	Small layout fix.
2 - Editing and rearrangement	10.10.1.2	10.10.1.2 Fascia Vents	This clause has been revised as part of the larger revision of 10.10 Ventilation Pathways .
2 - Editing and rearrangement	10.10.1.3	10.10.1.3 Ridge Vents	This clause has been revised as part of the overall revision of 10.10 Ventilation Pathways .
1 - Minor Errata	10.10.1.4	10.10.1.4 Vented Soft Edge	Spacing fixes.
2 - Editing and rearrangement	10.10.2	10.10.2 Battens	This clause has been revised during the overall review of 10.10 Ventilation Pathways and the drawings have been updated.
4 - Clause Inserted		12.3 Clip Marking on Trough Sections	New clause.
1 - Minor Errata	15.4.7	15.4.7 Sarking	Text formatting.
2 - Editing and rearrangement	15.4.12	15.4.12 Canning and Purlin Creasing	Revised definition (see 2 Glossary), and added a specifications for lap tape and HD tape as an alternative backer for tray roofing.
2 - Editing and rearrangement	17.1.3.2	17.1.3.2 Point Load Testing	Removed wrongly placed image.
1 - Minor Errata	17.1.5.2	17.1.5.2 Interpreting UDL Load Results	Typo Fix.
2 - Editing and rearrangement	18	18 Useful Tools	Renamed the clause to 18 Useful Tools .
1 - Minor Errata	18.5	18.5 Geometry And Measurement	Replaced some illustrations with better quality ones. No changes to recommendations.
1 - Minor Errata	18.6	18.6 Velocities	Removed superfluous captions.
1 - Minor Errata	18.7	18.7 Cricket Penetration Patterns	Replaced copied drawings with original illustrations. No changes to recommendations.
1 - Minor Errata	18.8	18.8 Sheet Metal Work For Roofing Contractors	Replaced copied drawings with original illustrations. No changes to recommendations.
4 - Clause Inserted		19.3 v26.03 March 2026	Revision detail for the update on 1 March 2026

19.4 v25.12 December 2025

In this update, we made few substantial changes to recommendations. Most of the revision consisted of editing and rearrangement for clarity, consistency, and accuracy. We have also linked all published Bulletins to the relevant content in the CoP.

Important changes

- [8.4.2 Clearances and Minimum Slope](#) for Flashing Cover was substantially revised and renamed.
- We updated our recommendations on the limitations for [9.4.1.1 Overflashed Backflashings](#) and added clearer guidance on their construction, supported by a new illustration.
- A new illustration was added to [8.5.4.2 Change Of Pitch](#) to clarify recommendations for minimising rust on change-of-pitch junctions.

Editing and rearrangement

- [15.1.1A Spring Curving Calculator](#) has been updated and can now work from either height or desired radius to enable profile selection and calculate the total length of seal required.
- We made some edits for clarity and added a reference to wall cladding to [17.1.3.2 Point Load Testing](#).
- In [4.6.3 Material Selection](#), we changed materials endorsed as complying with AS/NZS 2728 coating types to align with the current product range.

Revision Detail v25.12 - 2025 - December

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	New revision message for v25.12, published on 1 December 2025.
2 - Editing and rearrangement	3.7.6	3.7.6 Construction Loads	Added a photo showing severe damage, causing splitting on the rib.
2 - Editing and rearrangement	3.10.2	3.10.2 Maximum Spans and Fastening Patterns for Corrugate Wall Cladding	Inserted a link to: BCVW01 Support Spacings on Corrugate Wall Cladding
2 - Editing and rearrangement	4.6.3	4.6.3 Material Selection	Materials endorsed as complying with AS/NZS 2728 coating types have been changed to align with the current Colorsteel® product range.
1 - Minor Errata	4.9.2	4.9.2 The Electrochemical or Galvanic Series	Fixed image format, no changes to recommendations.
2 - Editing and rearrangement	4.9.3	4.9.3 Compatibility with Non-Metallic Substances	Inserted link to bulletin: BV01 Cavity Batten Protection .
2 - Editing and rearrangement	4.10.6	4.10.6 Capillary Action	Revised 4.10.6B Roofing Sheet End Lap for clarity and accuracy. No changes to recommendations.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	4.10.9	4.10.9 Gutter Leaf Guard	Inserted a link to: Bulletin BGLG01 Using Proprietary Leaf Guards
2 - Editing and rearrangement	4.15.1	4.15.1 Ground Clearance	Inserted a link to: BGC01 Pre-Painted Metal Wall Cladding to Ground Clearance
2 - Editing and rearrangement	4.16.3	4.16.3 Aluminium	Formatting change to 4.16.3A Aluminium Hardness End-use and inserted a link to: BA01 Required Temper for Aluminium Roof and Wall Cladding . No changes to recommendations.
1 - Minor Errata	5.3.2	5.3.2 Rainfall Intensity	Minor formatting fix. No changes to content.
2 - Editing and rearrangement	5.6.2	5.6.2 Sumps	Renamed 5.6.2B Sump with Overflow . No changes to recommendations.
1 - Minor Errata	5.8	5.8 Downpipe Spreaders	Layout fixing. No change to content or recommendations.
2 - Editing and rearrangement	7.4.1	8.11.1 Wall Cladding End Laps	Inserted a link to: BEL01 End Laps in Wall Cladding .
3 - Substantial change to recommendation	8.4.2	8.4.2 Clearances and Minimum Slope	This clause was substantially revised and renamed.
1 - Minor Errata	8.5.1	8.5.1 Ridge and Hip Intersections	Updated illustrations for clarity. No changes to recommendations.
2 - Editing and rearrangement	8.5.3	8.5.3 Parapet Cappings	Added a new drawing to show 8.5.3B Parapet Expansion Joint Details , renamed 8.5.3C Parapet Corner Detail , and corrected the titles of 8.5.3D Clip-fixed Parapet Cross-section Detail and 8.5.3F Cap-fixed Parapet Cap to Smooth Profile Inner .
2 - Editing and rearrangement	8.5.4.2	8.5.4.2 Change Of Pitch	Updated illustrations for clarity. No change to recommendations.
2 - Editing and rearrangement	8.6	8.6 Fastening Flashings	Editing for clarity.
2 - Editing and rearrangement	8.8	8.8 Profile Closures	Inserted a link to bulletin: BPC01 Profiled Foam Closures
3 - Substantial change to recommendation	9.4.1.1	9.4.1.1 Overflashed Backflashings	Changed limitations for wide over-flashings behind penetrations and given guidance on how they should be constructed, and added a new illustration in support.
1 - Minor Errata	9.4.3	9.4.3 Dormer Details	Reformatting of 9.4.3B Gable Dormer Valley: Corrugate . No other edits or changes to recommendations.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
1 - Minor Errata	9.5.2.1	9.5.1.1 Plant Room And Conduit Penetrations	Reformatted illustration of 9.5.1.1A PVC and E.P.D.M Flashing . No changes to recommendations.
1 - Minor Errata	9.5.2.2	9.5.1.2 Mechanical Services	Reformatted illustrations. No change to recommendations.
2 - Editing and rearrangement	10.1	10.10 Ventilation Pathways	Inserted new illustrations to show typical ventilation pathways and link to a bulletin: BEF01 Position of Eaves Flashing to Underlay .
2 - Editing and rearrangement	10.10.1.4	10.10.1.4 Vented Soft Edge	Replaced the photographs with more modern versions.
2 - Editing and rearrangement	10.11	10.11 Underlay	Inserted a link to bulletin: BU01 Double laying of Underlay on Re-roof
2 - Editing and rearrangement	12.2	12.2 Purlin Creasing	Inserted a link to bulletin: PC01 Purlin Creasing or Print-Through .
2 - Editing and rearrangement	14.7	14.7 Double Lapping	Inserted link to bulletin BDL01 Double Lapping Roofing Sheets .
1 - Minor Errata	14.15	14.15 Stop-ends	Inserted a title for Dog-eared Stop-ends
1 - Minor Errata	14.18.1	14.18.1 Roof Cladding Damage	Minor fix for clarity. No changes to recommendations.
1 - Minor Errata	14.21	14.21 Tools Of The Trade	Reformatted some drawings of 14.21G Hand Jenny Edger and 14.21H Joint Sealing by Hand Seaming
2 - Editing and rearrangement	15.2.1		This clause was reviewed for clarity, and the 15.1.1A Spring Curving Calculator was updated to have improved functionality.
1 - Minor Errata	15.3.2.6.5	15.3.2.6.5 Diverters	Inserted a title for Metal Tile Wall-to-Roof Junction.
2 - Editing and rearrangement	17.1.3.2	17.1.3.2 Point Load Testing	Added reference to point load testing for wall cladding.
4 - Clause Inserted		19.4 v25.12 December 2025	New clause detailing the revisions published on 1 December 2025.

19.5 v25.09 September 2025

Important Revisions

Most of this revision consisted of editing and rearrangement for clarity, consistency, and accuracy.

- In [5.4.2.1 Gutter Fall](#), we amended the MRM recommendation of a 1:200 fall for its effect on the aesthetics of the finished gutter. Although a fall of 5mm in 1m may improve self-cleaning and drainage, it may have an undesirable visual outcome.
- Our recommendations for making provision for expansion in aluminium were updated in both [7.3.2 Roof Cladding Expansion Provisions](#) and [14.19.2 Recommendations for Fixing Aluminium](#) to be less restrictive.
- [17.1 Metal Cladding Testing](#) was revised to improve understanding of testing requirements. These changes only affect how MRM members will publish testing results, not testing procedures.
- The entire clause [15.3 Pressed Metal Tiles](#) was revised and edited, with some information being updated.
- [15.5 Warm Roofs](#) were similarly revised and edited. Although there were no substantial changes to recommendations, the content was updated to reflect more modern techniques and approaches.
- The revision of Warm Roofs included updated details for [15.5.1.18B Insulated Panels Barge Flashing](#).

Other Edits and revisions

The rest of this update is taken up with minor edits and revisions for clarity, grammar, and spelling.

Important Notice:

In a move to help us better understand our audience and make the NZMRM Metal and Wall Roof Cladding Code of Practice even more useful and relevant, we are introducing an industry selector to the existing registration form. If your particular industry is not listed please select one that is closest.

Registration is important so everybody will be informed of important revisions which is done on a quarterly schedule. You will only receive four emails per year regarding our updates.

The data gathered stays anonymous and will never be shared with anyone outside the NZMRM.

Revision Detail v25.09 - 2025 - September

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	5.4.2.1	5.4.2.1 Gutter Fall	Revision to clarify the acceptable and recommended amount of gutter fall.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	7.3.2	7.3.2 Roof Cladding Expansion Provisions	Revised 7.3.2A Favourable Circumstances for Controlling Expansion to show the correct recommendations for aluminium.
3 - Substantial change to recommendation	14.19.2	14.19.2 Recommendations for Fixing Aluminium	Changed the recommendation for sheet lengths over 10 m to 3 m.
2 - Editing and rearrangement	1	1 Introduction	New revision message for v25.09, published on 1 September 2025.
1 - Minor Errata	4.6.3	4.6.3 Material Selection	Clarification of C4 and C6 fasteners.
1 - Minor Errata	4.10.9	4.10.9 Gutter Leaf Guard	Grammar and typo fixes.
1 - Minor Errata	4.15.1	4.15.1 Ground Clearance	Typo fix.
1 - Minor Errata	5.4.7	5.4.7 Gutter Capacity Calculator	Updated label of "Span length of roof" on Secret Gutter for clarity. This previously stated "Length of roof", which was ambiguous: calculations are unchanged. The enforced minimum remains unchanged at 2.2.
2 - Editing and rearrangement	5.6.2	5.6.2 Sumps	Clarifying edit.
2 - Editing and rearrangement	5.7	5.7 Downpipes	This clause was renamed, and some content was moved to 5.6 Outlets . Minor edit for clarity: removed the reference to <i>astragalus</i> . No other changes to content or recommendations.
2 - Editing and rearrangement	7.4	7.4 End Laps	Removed historical error regarding the use of rivets.
2 - Editing and rearrangement	8.5.2	8.5.2 Barge And Verge	Added illustrations showing details for
1 - Minor Errata	8.5.4	8.5.4 Apron Flashings	Deleted "optional cation" statements.
2 - Editing and rearrangement	8.5.4.4	8.5.4.4 Eaves Flashing	Updated and renamed 8.5.4.4A Gutter-Eaves Flashing Option 1 and introduced option 2.
1 - Minor Errata	10.10.1.2	10.10.1.2 Fascia Vents	Typo fix.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
1 - Minor Errata	10.10.2	10.10.2 Battens	Typo fix.
1 - Minor Errata	10.11.1	10.11.1 Underlay Standards	Aligned some table items.
1 - Minor Errata	10.11.6	10.11.6 Installing Underlay	Typo Fix.
1 - Minor Errata	10.12.4	10.12.4 The Mechanics of Condensation	Typo fix.
1 - Minor Errata	10.12.7	10.12.7 Water Vapour Pressure	Typo fix.
1 - Minor Errata	11	11 Natural Light	Typo fix.
1 - Minor Errata	11.1.1	11.1.1 Compliance	Typo fix.
1 - Minor Errata	11.3.1	11.3.1 Point Load on Translucent Sheets	Typo fix.
2 - Editing and rearrangement	11.4	11.4 Thermal Resistance	Updated illustration: 11.4A Double-Skinned Rooflight .
1 - Minor Errata	12.1.3	12.1.3 Thermal Noise	Grammar fix.
1 - Minor Errata	12.2	12.2 Purlin Creasing	Punctuation fix.
1 - Minor Errata	12.3	12.4 Flashing Buckling	Punctuation fix.
1 - Minor Errata	12.4.3	12.5.3 Installation	Some grammar fixes.
1 - Minor Errata	12.5.1	12.6.1 Touch-Up	Grammar fix.
1 - Minor Errata	14.1	14.10 Overhang	Minor layout edit.
1 - Minor Errata	14.1	14.1 Pre-Installation	Typo fix.
1 - Minor Errata	14.5	14.5 Walking On Roofs	Typo fix.
1 - Minor Errata	14.9	14.9 Marking and Cutting	Typo Fix.
1 - Minor Errata	14.12.1	14.12.1 Nails	Punctuation fix.
1 - Minor Errata	14.12.2	14.12.2 Screws	Punctuation fix and reformatted font in illustrations for consistency.
1 - Minor Errata	14.13.2	14.13.2 Fastener Placement	Grammar fix.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
1 - Minor Errata	14.18.1	14.18.1 Roof Cladding Damage	Grammar fix.
1 - Minor Errata	14.18.3	14.18.3 Correctly Installed Gutters	Typo fix.
1 - Minor Errata	14.18.4.1	14.18.4.1 Preventing Swarf Damage	Formatting fix.
1 - Minor Errata	14.19	14.19 Fixing Aluminium Sheeting	Punctuation fix. Added clarifying statement for using aluminium screws.
1 - Minor Errata	14.19.1	14.19.1 Painted Aluminium	Typo fix.
1 - Minor Errata	15	15 Other Products	Punctuation fix.
1 - Minor Errata	15.1	15.1 Curved Roofs	Grammar fix.
2 - Editing and rearrangement	15.3.1	15.3.1 Design	This clause was revised as part of a comprehensive revision of the parent clause, 15.3 Pressed Metal Tiles .
2 - Editing and rearrangement	15.3.1.1	15.3.1.1 Durability	This clause was comprehensively edited during a comprehensive revision of 15.3 Pressed Metal Tiles .
4 - Clause Inserted		15.3.1.2 Structure	A new clause, created as part of a comprehensive revision of 15.3 Pressed Metal Tiles
2 - Editing and rearrangement	15.3.1.2	15.3.1.3 Minimum Pitch	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
2 - Editing and rearrangement	15.3.1.3	15.3.2.3 Underlay	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
2 - Editing and rearrangement	15.3.1.4	15.3.2.1 Roof Framing	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	15.3.1.5	15.3.2.4 Tiling Battens	This clause was edited during a comprehensive revision of Pressed Metal Tiles . We introduced a table for Batten Installation , replacing the multiple tables in Pullout resistance for different constructions (which was removed).
0 - Clause Removed	15.3.1.5	Pullout resistance for different constructions	This clause was removed during an overall revision of 15.3 Pressed Metal Tiles , and replaced with 15.3.2.4A Batten Installation sizing and fixing requirements in accordance with NZS 3604: 2011 in 15.3.2.4 Tiling Battens .
2 - Editing and rearrangement	15.3.2	15.3.1.4 Valleys	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
4 - Clause Inserted		15.3.2 Installation	A newly created clause as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
2 - Editing and rearrangement	15.3.3	15.3.2.5 Roof Traffic	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
2 - Editing and rearrangement	15.3.4	15.3.2.2 Valley Installation	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
2 - Editing and rearrangement	15.3.5	15.3.2.6 Flashings	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
2 - Editing and rearrangement	15.3.5.1	15.3.2.6.1 Ridge	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
2 - Editing and rearrangement	15.3.5.3	15.3.2.6.3 Gable Ends	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	15.3.5.4	15.3.2.6.4 Flashing Metal Tile to Wall	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
2 - Editing and rearrangement	15.3.5.5	15.3.2.6.5 Diverters	This clause was renamed and edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
1 - Minor Errata	15.3.5.6	15.3.2.6.6 Penetrations	Typo fixes.
2 - Editing and rearrangement	15.3.6	15.3.1.5 Longrun Tiles	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
1 - Minor Errata	15.3.7	15.3.3 Sitework	Fixed links.
2 - Editing and rearrangement	15.3.8	15.3.4 Laying Metal Tiles	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
2 - Editing and rearrangement	15.3.9	15.3.5 Workmanship	This clause was edited as part of a comprehensive revision of 15.3 Pressed Metal Tiles .
1 - Minor Errata	15.4.13.4	15.4.13.4 Finishing at Ridges and Eaves of Tray Roofing	Typo fix.
2 - Editing and rearrangement	15.5.1.3	15.5.1.3 Insulated Panel Face Profiles	Updated profile illustrations.
1 - Minor Errata	15.5.1.6	15.5.1.6 Insulation Panel Insulation Values	Typo and grammar fix.
2 - Editing and rearrangement	15.5.1.18	15.5.1.18 Insulated Panel Flashings	Replaced 15.5.1.18B Insulated Panels Barge Flashing detail for accuracy.
2 - Editing and rearrangement	15.5.2	15.5.2 Composite Systems	Editing for clarity.
2 - Editing and rearrangement	15.5.2.2	15.5.2.2 Composite System Installation	Edited for clarity and accuracy.
1 - Minor Errata	16.1	16.1 Maintenance Compliance	Typo fix.
1 - Minor Errata	16.6	16.6 Special Maintenance	Typo fix.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	16.8.2	16.8.2 Paint Application	Clause renamed for clarity. <ul style="list-style-type: none"> 16.8.6 Brush Application 16.8.7 Roller Application 16.8.8 Spray Application
2 - Editing and rearrangement	17.1.2	17.1.2 Test Requirements	Edit for clarification.
2 - Editing and rearrangement	17.1.4	17.1.4 Test Report	Edit for clarification.
2 - Editing and rearrangement	17.1.5.2	17.1.5.2 Interpreting UDL Load Results	Edit for clarification.
1 - Minor Errata	17.1.5.3	17.1.5.3 Interpreting Point Load Results	Typo fix.
1 - Minor Errata	17.2.3.1	17.2.3.1 Site Testing	Typo fix.
1 - Minor Errata	17.2.5	17.2.5 Weatherproofing	Typo fix.
1 - Minor Errata	17.3.1	17.3.1 Soft Edge Product Technical Statement Requirements	Typo fix.
1 - Minor Errata	17.4.1	17.4.1 Part1: AS/NZS 2728:2013	Typo fix.
1 - Minor Errata	17.4.4	17.4.4 Appendices of AS/NZS 2728:2013 included as Normative in the MRM Standard	Typo Fix
1 - Minor Errata	17.4.5	17.4.5 Appendices of AS/NZS 2728:2013 considered Informative in the MRM Standard:	Typo fix.
1 - Minor Errata	18	18 Useful Tools	Typo fix.
1 - Minor Errata	18.1	18.1 Conversion Factors	Text styling.
1 - Minor Errata	18.3	18.3 Material Density, Melting Point, Expansion And Modulus	Typo fix.
1 - Minor Errata	18.4	18.4 Decadic Number System	Typo fix.
1 - Minor Errata	18.8	18.8 Sheet Metal Work For Roofing Contractors.	Typo fix.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
4 - Clause Inserted		19.5 v25.09 September 2025	Revision details for the update on 1 September 2025.

19.6 v25.06 June 2025

The update to the Code of Practice published on 1 June 2025 focused on clarification and usability.

Important Changes

We replaced the illustration for [9.4.2.6F Cricket Under-Soaker: Trapezoidal](#) to show the width of the cricket flashing correctly.

In [8.8 Profile Closures](#), we removed a repeated paragraph and added illustrations showing vermin closures, and we removed a statement from [4.9.3 Compatibility with Non-Metallic Substances](#) that neither AZ-coated steel nor Aluminium should be used as a flashing embedded in concrete or masonry.

In [8.10.1 Flashing Expansion](#), we clarified the required moisture content of timber and removed a recommendation for using aluminium rivets in place of expansion joints.

Other Notable Revisions

We renamed three clauses: [7.1.2 Runoff Capacity](#), [5.6 Outlets](#), and [5.7 Downpipes](#), with no changes to recommendations.

In another bid to improve clarity and usability, we introduced an interactive table to [16.7.1 Lichen And Mould](#). The table gives improved guidance on water/bleach ratios to achieve a 2% chlorine solution for treating lichen and mould on roofs.

The rest of the updates and revisions consisted of minor edits for clarity, grammar, and spelling. There were no other changes to recommendations.

Revision Detail v25.06 - 2025 - June

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	4.9.3	4.9.3 Compatibility with Non-Metallic Substances	Removed statement that neither AZ coated steel nor aluminium should be used as a flashing embedded in concrete or masonry.
3 - Substantial change to recommendation	7.1.1	7.1.1 Minimum Roof Cladding Pitch	Added an exception to 7.1.1B Exceptions to the Minimum Recommended Roof Cladding Pitch requirements : regarding guidance for Reroofing trough section roofs at less than 3°.
3 - Substantial change to recommendation	8.10.1	8.10.1 Flashing Expansion	Clarified statement of the required moisture content of timber and removed statement about using aluminium rivets in place of expansion joints.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	8.10.2	8.10.2 Building Expansion Joints	Corrected the slope of parapet cap from 10° to 3 – 5° and updated the illustrations to be consistent with the Code of Practice format.
3 - Substantial change to recommendation	16.7.1	16.7.1 Lichen And Mould	We introduced a new interactive table to assist in diluting Sodium Hypochlorite for use on roofs.
2 - Editing and rearrangement	1	1 Introduction	New revision message for v25.03, published on 1 March 2025.
1 - Minor Errata	1.5.2	1.5.2 Adjudication	Minor typo fix: <i>and</i> to <i>an</i> . No change to recommendations.
1 - Minor Errata	4.3	4.3 Metal Performance	Typo fix in 4.3A Metal Performance in Acid/Alkaline Environments , updated font in illustration—no changes to recommendations.
1 - Minor Errata	4.4.1	4.4.1 Sacrificial Protection	Typo fix: <i>zinc-oxide</i> to <i>zinc oxide</i> . No changes to recommendations.
1 - Minor Errata	4.5.2	4.5.2 Sea Spray	Minor for clarity and a typo fix. No changes to recommendations.
1 - Minor Errata	4.7.1	4.7.1 West Coast of the South Island and South Coast of the North Island	Edited the clause heading for clarity. No changes to recommendations.
1 - Minor Errata	4.9.4	4.9.4 Compatibility Table	Typo fix/ Changed <i>prepainted Aluminium</i> to <i>Pre-Painted Aluminium</i> .
1 - Minor Errata	4.10.1	4.10.1 Unwashed Areas	Edit for style, grammar, clarity, and consistency.
1 - Minor Errata	4.10.2	4.10.2 Poultice Corrosion	Punctuation fix: <i>eg</i> to <i>e.g.</i> , No change to recommendations.
1 - Minor Errata	4.10.3	4.10.3 Solar Collectors and Other Roof Mounted Structures	Some punctuation and typo fixes. No changes to recommendations.
1 - Minor Errata	4.10.6	4.10.6 Capillary Action	Removed repeated sentence. No changes to recommendations.
1 - Minor Errata	4.11	4.11 Inert Catchment	Added some labels for clarification to 4.11A Localised Damage due to Inert Catchment .
1 - Minor Errata	4.14	4.14 Swarf Staining and Cut Edge Corrosion	Grammar Fix. No changes to recommendations.
1 - Minor Errata	4.15	4.15 Clearances	Illustration reformatting. No changes to recommendations.
1 - Minor Errata	4.15.1	4.15.1 Ground Clearance	Illustration reformatting. No changes to recommendations.
1 - Minor Errata	5.3.2.1	5.3.2.1 Designing for Climate Change	Table formatting for 5.3.2.1A RCP Level Descriptions . No change to content or recommendations.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
1 - Minor Errata	5.3.2.3	5.3.2.3 Allowance for Short-Term Intensities	Punctuation Fix. No change to content or recommendations.
1 - Minor Errata	5.4	5.4 Gutters	Grammar fix. No change to content or recommendations.
1 - Minor Errata	5.4.1	5.4.1 External Gutters (Spouting)	Grammar fix.
1 - Minor Errata	5.4.5	5.4.5 Internal Gutters	Font sizing in 5.4.5A Separation of Butyl Gutter and Metal Roofing . No change to content or recommendations.
1 - Minor Errata	5.4.7	5.4.7 Gutter Capacity Calculator	Typo fix. No change to content or recommendations. The enforced minimum remains unchanged at 2.2.
1 - Minor Errata	5.5.2	5.5.2 Valley Design	Typo fix. No change to content or recommendations.
1 - Minor Errata	5.5.4	5.5.4 Intersecting Valleys	Font resizing in 5.5.4A Correct Valley Intersection and 5.5.4B Incorrect Valley Intersection . No change to content or recommendations.
2 - Editing and rearrangement	5.5.5	5.5.5 Changing Angles in Valleys	Added an illustration showing the details for changing angles or pitch in valleys.
2 - Editing and rearrangement	5.6	5.6 Outlets	The clause was renamed, and some content from 5.7 Downpipes relating to <i>Outlets</i> was moved to this clause. No changes to recommendations.
2 - Editing and rearrangement	5.7	5.7 Downpipes	This clause was renamed, and some content was moved to 5.6 Outlets . Minor edit for clarity: removed the reference to <i>astragalus</i> . No other changes to content or recommendations.
2 - Editing and rearrangement	5.8.1	5.8.1 Maximum Area Above Spreader Calculator	Updated casing of labels for consistency
2 - Editing and rearrangement	6	6 External Moisture Overview	Minor edit for clarity. No changes to recommendations.
1 - Minor Errata	6.3	6.3 Related Topics	Punctuation fix. No change to content or recommendations.
2 - Editing and rearrangement	7.1.2	7.1.2 Runoff Capacity	Renamed the clause 7.1.2 Runoff Capacity for clarity. No changes to recommendations.
1 - Minor Errata	7.1.3	7.1.3 Roof Drainage Capacity	Font display fixed in 7.1.3A Trough Capacity and 7.1.3B Penetration Gutters . No other changes to content or recommendations.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
1 - Minor Errata	7.3.2	7.3.2 Roof Cladding Expansion Provisions	Font resized for 7.3.2A Favourable Circumstances for Controlling Expansion and 7.3.2B Unfavourable Circumstances for Controlling Expansion . No changes to recommendations.
1 - Minor Errata	8.1	8.10 Flashing Expansion Details	Some grammar fixes and removed <i>optional Caption</i> tags from illustrations. No changes to recommendations.
1 - Minor Errata	8.4	8.4 Flashing Cover	Typo fix. No change to content or recommendations.
1 - Minor Errata	8.4.1	8.4.1 Apron Upstands	Typo fix in 8.4.1A Undertray for an Additional Upstand . No changes to content or recommendations.
1 - Minor Errata	8.4.4	8.4.4 Flashing Laps	Typo fix. No other changes.
0 - Clause Removed	8.5.2	Head Barge/Ridge/Barge Junction	Clause removed because it was a double-up. 8.5.2.1D Head-Barge/Ridge/Barge Junction is still available under 8.5.2.1 Ridge – barge Intersections .
1 - Minor Errata	8.5.4	8.5.3 Parapet Cappings	Typo in title of 8.5.3A Parapet Cap Expansion Provisions and font updates in the other illustrations.
1 - Minor Errata	8.5.5.1	8.5.4.1 Parapet And Apron Capping Terminations	Typo fix, changed <i>and</i> to <i>an</i> , and <i>deleted the optional caption</i> tag from illustrations. No other changes.
1 - Minor Errata	8.9	8.9 Compression Timber	Grammar fix. Removed redundant word. No other changes.
1 - Minor Errata	9.5.2.2	9.5.1.2 Mechanical Services	Removed <i>Optional Caption</i> tag from below the illustrations.
1 - Minor Errata	9.5.3	9.5.2 Flush Penetrations	Grammar fix.
1 - Minor Errata	11.6	11.6 Installing Translucent Sheets	Fixed typo and text formatting in 11.6B Translucent Sheet Stop End . No changes to recommendations.
4 - Clause Inserted		19.6 v25.06 June 2025	Revision details for the 1 June 2025 update.

19.7 v25.03 March 2025

The updates published on 1 March 2025 mostly include some changes to recommendations and some editing and rearrangement for clarity and consistency.

Important Changes

We replaced the illustration for [8.5.1A Ridge-Hip Junction](#) as experience showed the extra line of defence previously shown is not required.

A new clarifying statement in [9.4.2.7 Cricket Over-Flashing More Than 1 m Wide](#) gives guidance on when to use this detail rather than some of the under-soaker variants.

We changed [10.11.5 Underlay Durability](#) to recommend specifying material strictly in accordance with the manufacturer's recommendations when using synthetic underlay in unlined situations where it is exposed to fumes or reflected UV.

We've raised the [5.4.7 Gutter Capacity Calculator](#) default Short-Term Intensity Multiplication Factor for Commercial Internal Gutters to 3.1 (from 2.2) for a more cautious design, while the minimum remains 2.2. This factor adjusts 10-minute rainfall figures for higher short-term intensities. Non-residential roofs now match the 3.1 default but can be adjusted down to 2.2 if needed.

Other Notable Revisions

We edited [3.11.2 Steel Cladding Wind Load Span Graphs](#) and [3.11 Wind Load/Span Graphs – Designs to AS/NZS1170](#) to remove identical content in these two clauses. There were no changes to recommendations and no information was deleted. A new sub-clause gives guidance on [3.11.1 Fastener Pull-out](#) in SED situations.

The [2 Glossary](#) now has added definitions for dunnage, straps, and strops.

For Internal Moisture [10.1.4 Compliance](#), we added an improved explanation of the compliance requirements of NZBC E3.3a. We similarly introduced improved guidance to [14.8.5 Stopends](#) to aid clarity, with no changes to recommendations.

In another bid to improve clarity, we replaced 'C1' and 'C2' designations in [Minimum Flashing Cover](#) with 'X' and 'Y' labels to reduce confusion.

In the [4.9.4 Compatibility Table](#), we revised the terminology for ZM Coated Steel to ZM/AM Coated Steel and moved Pre-Painted ZM/AM Coated Steel to be directly after ZM/AM Coated Steel to make the table more accurate and more easily interpreted.

The rest of the updates and revisions consisted of minor edits for clarity, grammar, and spelling. There were no other changes to recommendations.

Revision Detail v25.03 - 2025 - March

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	New revision message for v25.03, published on 1 March 2025.
2 - Editing and rearrangement	2.1	2.1 Definitions	Added definition for dunnage, straps, and stops.
2 - Editing and rearrangement	3.11	3.11 Wind Load/Span Graphs – Designs to AS/NZS1170	Revision of the introduction to remove repeated content. The rest of the content is still available in 3.11.2 Steel Cladding Wind Load Span Graphs .
2 - Editing and rearrangement	3.11.1	3.11.2 Steel Cladding Wind Load Span Graphs	Editing to address repeated content. The removed content is still available in 3.11 Wind Load/Span Graphs – Designs to AS/NZS1170 .
4 - Clause Inserted		3.11.1 Fastener Pull-out	A new clause is giving guidance on fastener pullout in SED situations.
3 - Substantial change to recommendation	4.9.4	4.9.4 Compatibility Table	Revised ZM Coated Steel to ZM/AM Coated Steel and changed Pre-Painted Steel to Pre-Painted ZM/AM Coated Steel; moved Pre-Painted ZM/AM Coated Steel to be directly after ZM/AM Coated Steel.
3 - Substantial change to recommendation	5.4.7	5.4.7 Gutter Capacity Calculator	Update the default Short-Term Intensity Multiplication Factor for Commercial Internal Gutters to 3.1 (from 2.2) as recommended for more prudent design. The enforced minimum remains unchanged at 2.2.
1 - Minor Errata	5.5.1	5.5.1 Valley Fixing	Typo fix. No changes to recommendations.
2 - Editing and rearrangement	8.4	8.4 Flashing Cover	Replaced 'C' and 'D' with 'X' and 'Y' to improve useability and extract Minimum Flashing Cover to a more visible level.
3 - Substantial change to recommendation	8.5.1	8.5.1 Ridge and Hip Intersections	Replaced illustration for 8.5.1A Ridge-Hip Junction as experience showed the extra line of defense is not required in these situations.
3 - Substantial change to recommendation	9.4.2.7	9.4.2.7 Cricket Over-Flashing More Than 1 m Wide	Added clarifying statement for use case of this detail, rather than other Undersoaker variants.
2 - Editing and rearrangement	10.1.4	10.1.4 Compliance	We added a more detailed explanation of NZBC, clause E3.3a requirements for compliance.
3 - Substantial change to recommendation	10.11.5	10.11.5 Underlay Durability	Clause revised and expanded.
2 - Editing and rearrangement	14.16	14.15 Stop-ends	Improved guidance for stop-ending cladding. No changes to recommendations.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
1 - Minor Errata	15.5.1.6	15.5.1.6 Insulation Panel Insulation Values	Deleted an editorial comment, that was accidentally published. No changes to recommendations.
4 - Clause Inserted		19.7 v25.03 March 2025	Revision details for the 1 March 2025 update.

19.8 v24.12 December 2024

The following revisions to the NZ Metal Roof and Wall Cladding Code of Practice were published on 1 December 2024.

Substantial change to recommendations:

- [3.11.3 Aluminium Cladding Wind Load Span Graphs](#)
Only 0.90 mm Aluminium is now offered as a standard thickness.
- [3.7.2 Deflection](#)
Added the statement: "Temporary deflection under load is not considered for roof load tables as it has not been found to affect weathertightness. Temporary deflection under load of wall cladding is a recommended limitation for aesthetic reasons, but it is not mandatory."
- [3.10.2 Maximum Spans and Fastening Patterns for Corrugate Wall Cladding](#)
Changed "span/120 + P/20" to "span/120 + P/30"
- [5.6.3 Overflows](#)
Changed the recommended cross-sectional area of a scupper to align with the BRANZ recommendation.
- [5.4.5.1 Internal Gutter Design Features](#)
Added a recommendation to align with [5.6.3 Overflows](#), for the cross-sectional area of a scupper to be 1½ times that of the downpipe.
- [5.5.6 Asymmetrical Valleys](#)
Changed recommendation to: "A valley baffle is required in all cases where the valley has a change of angle or difference in roof pitch exceeds 10°."

Notable Editing and rearrangement:

- [5.5.1 Valley Fixing](#)
 - Rearranged layout.
 - Clarified statement about positive (through) fixing.
 - Replaced the old illustration for Clip System with Correct Valley Fixing, Allowing for Thermal Movement
 - Added illustrations for Valley Junction at the Apex.
- [10.11.1 Underlay Standards](#)
Moved this clause to 10.11 Underlay for continuity and relevance.
- [9.4.2.6 Penetration Flashings on Trapezoidal Profiles](#)
Updated [9.4.2.6F Cricket Under-Soaker: Trapezoidal](#) the cricket covering the penetration apron.

The rest of the updates consisted of minor corrections and edits.

19.8A

Category	Clause Number	Clause (As of current publication) (prior to update)	Details
2 - Editing and rearrangement	1	1 Introduction	New revision message for V24.12, published on 1 December.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	3.7.2	3.7.2 Deflection	Added a statement: <i>Temporary deflection under load is not considered for roof load tables as it has not been found to affect weathertightness. Temporary deflection under load of wall cladding is a recommended limitation for aesthetic reasons, but it is not mandatory.</i>
3 - Substantial change to recommendation	3.10.2	3.10.2 Maximum Spans and Fastening Patterns for Corrugate Wall Cladding	Changed "span/120 + P/20" to "span/120 + P/30".
3 - Substantial change to recommendation	5.4.5.1	5.4.5.1 Internal Gutter Design Features	Added a recommendation to align with 5.6.3 Overflows , for the cross-sectional area of a scupper to be 1½ times that of the downpipe.
2 - Editing and rearrangement	5.5.1	5.5.1 Valley Fixing	Rearranged layout. Clarified statement about positive (through) fixing. Replaced the old illustration for <i>Clip System</i> with 5.5.1A Correct Valley Fixing, Allowing for Thermal Movement . Added illustrations for Valley Junction at the Apex.
3 - Substantial change to recommendation	5.5.6	5.5.6 Asymmetrical Valleys	Changed recommendation: A valley baffle is required in all cases where a valley has a change of angle or difference in roof pitch exceeds 10 .
3 - Substantial change to recommendation	5.6.3	5.6.3 Overflows	Changed the recommended cross-sectional area of a scupper to align with BRANZ recommendation.
2 - Editing and rearrangement	9.4.2.6	9.4.2.6 Penetration Flashings on Trapezoidal Profiles	Updated the illustration to show the apron of the cricket covering the penetration apron.
1 - Minor Errata	10.1	10.10 Ventilation Pathways	Typo fix: changed <i>through</i> to <i>trough</i> . No changes to recommendations.
2 - Editing and rearrangement	10.12.5	10.11.1 Underlay Standards	Moved clause to 10.11 Underlay for relevance. Fixed table formatting. No changes to recommendations.
4 - Clause Inserted		19.8 v24.12 December 2024	Revision details for v24.12; published on 1 December 2024.

19.9 v24.09 September 2024

The latest changes to the NZMRM Metal Roof and Wall Cladding Code of Practice; published on 1 September 2024.

Category 3: Substantial Changes to Recommendations.

- [8.5.1 Ridge and Hip Intersections](#)
Changed the requirement for butyl membranes, underlay, or soft flashing for weathertightness to a recommendation as a secondary method in addition to good design and installation.
- [5.4.2.3 Spouting Support Systems](#)
Clarifying recommendation: brackets for pre-painted spouting in marine conditions must be appropriately painted or powder-coated before installation, or non-ferrous metals should be used.

Category 2: Editing and Rearrangement

- [8.4.4 Flashing Laps](#)
Clarified the recommendation for unsealed laps to have a minimum of 150 mm cover and sealed laps a minimum of 100 mm.
- [18.2A Rafter, Hip and Rise Chart](#)
Added options for pitches steeper than 60°.

Revision Detail v24.09 - 2024 - September

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	Updated Revisions Message
1 - Minor Errata	4.3	4.3 Metal Performance	Minor revision to improve clarity, conciseness, style, or layout. No changes to recommendations.
1 - Minor Errata	4.6	4.6 Environmental Categories	Minor revision for style, grammar, and clarity. No changes to recommendations.
1 - Minor Errata	4.10.3	4.10.3 Solar Collectors and Other Roof Mounted Structures	Resizing of photos for consistency. No changes to recommendations.
1 - Minor Errata	4.10.6	4.10.6 Capillary Action	Minor edit for style, grammar, clarity, or consistency. No changes to recommendations.
1 - Minor Errata	4.14	4.14 Swarf Staining and Cut Edge Corrosion	Resized photos for consistency and layout. No changes to recommendations.
1 - Minor Errata	4.15	4.15 Clearances	Illustration reformatting. No changes to recommendations.
1 - Minor Errata	4.15.1	4.15.1 Ground Clearance	Illustration reformatting. No changes to recommendations.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
1 - Minor Errata	4.18.2	4.18.2 Post-Painted Factory Applied finish	Minor edit to improve clarity, conciseness, style, or layout. No changes to recommendations.
2 - Editing and rearrangement	5.4.2.3	5.4.2.3 Spouting Support Systems	Editing to clarify the requirement for pre-painting spouting brackets.
1 - Minor Errata	8.4	8.4 Flashing Cover	Fixed typo. changed "m" to "mm".
2 - Editing and rearrangement	8.4.4	8.4.4 Flashing Laps	Clarified the recommendation for unsealed laps to have a minimum of 150 mm cover and sealed laps a minimum of 100 mm.
3 - Substantial change to recommendation	8.5.1	8.5.1 Ridge and Hip Intersections	<ul style="list-style-type: none"> Renamed clause to <i>Ridge and Hip Intersections</i>. Changed the requirement for butyl membranes, underlay, or soft flashing for weathertightness to a recommendation as a secondary method in addition to good design and installation.
1 - Minor Errata	15.1.6	15.1.6 Durability	Fixed the spelling of soffit. No changes to recommendations.
2 - Editing and rearrangement	18.2	18.2 Pitch & Rise Calculator	Added pitches to the table above 60°
4 - Clause Inserted		19.9 v24.09 September 2024	A new clause providing details of the updates published on 1 September 2024.

19.10 v24.06 June 2024

The updates published on 1 June 2024 include improvements to [5.4.2.3 Spouting Support Systems](#) and clarifying recommendations to prevent negative pressure with [10.10.1.3 Ridge Vents](#). Substantial changes include removing wind load/span graphs for 0.70 mm aluminium.

Editing and rearrangement updates involve updating and editing images for consistency, clarifying [7.3.2 Roof Cladding Expansion Provisions](#), material thickness, and amending references to the availability of [4.16.1.6 AM Coatings](#) in New Zealand. Minor edits were made for grammar, style, clarity, and consistency.

Notable revisions:

- We removed the option of 0.70 mm Aluminium cladding from [3.11.3 Aluminium Cladding Wind Load Span Graphs](#) because 0.90 mm Aluminium is offered as a standard thickness.
- Experience showed that hot-dipped galvanised gutter support brackets are not as durable as pre-painted steel products. Therefore, we added some recommendations to improve the durability of [5.4.2.3 Spouting Support Systems](#).
- Although not a change in recommendation, we added a statement to [10.10.1.3 Ridge Vents](#) to help prevent negative pressure in roof cavities.
- We clarified the positioning of oversized holes and washers to aid in making [7.3.2 Roof Cladding Expansion Provisions](#).

In addition to these and some minor edits and rearrangements, several images have been revised for consistency. For a detailed list of revisions, please visit [19.10 v24.06 June 2024](#).

Revision Detail v24.06 - 2024 - June

Category	Clause Number	Clause (As of current publication) (prior to update)	Details
3 - Substantial change to recommendation	5.4.2.3	5.4.2.3 Spouting Support Systems	Clause renamed. Expanded recommendation for compatibility of spouting support systems.
3 - Substantial change to recommendation	10.10.1.3	10.10.1.3 Ridge Vents	Added recommendation for ridge vents to be smaller than eaves vents.
0 - Clause Removed	3.11.2.3	Trapezoidal Five Rib Aluminium – 0.70	The clause has been removed because aluminium is now offered in 0.90mm as the standard thickness.
0 - Clause Removed	3.11.2.1	Corrugated Aluminium – 0.70	The clause has been removed because aluminium is now offered in 0.90mm as the standard thickness.
2 - Editing and rearrangement	1	1 Introduction	Updated Revisions Message and rewriting for clarity. No changes in recommendations.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
1 - Minor Errata	1.4	1.4 Acknowledgements	Typo fix: tradespeople
1 - Minor Errata	1.5.1	1.5.1 Mediation	Minor revisions for grammar and clarity. No change to recommendations.
1 - Minor Errata	1.5.2	1.5.2 Adjudication	Minor revision for grammar, style, and clarity. No change to recommendations.
1 - Minor Errata	1.5.3	1.5.3 Arbitration and Litigation	Minor punctuation fix.
2 - Editing and rearrangement	2.1	2.1 Definitions	Added definition for Vented Ridging.
1 - Minor Errata	3	3 Structure	Minor revision for style, grammar, and clarity. No change to recommendations.
1 - Minor Errata	3.2	3.2 Standards	Minor review for style, grammar, and clarity. No change to recommendations.
1 - Minor Errata	3.2.1	3.2.1 AS/AZS 1170.2:2011	Minor revision for style, grammar and clarity. No changes to recommendations.
1 - Minor Errata	3.3	3.3 Performance	Minor revision for style, grammar, and clarity. No changes to recommendations.
2 - Editing and rearrangement	3.4.6	3.4.6 Material Thickness	Minor review for style, grammar, and clarity. Edit to clarify the use of 0.63 mm material.
1 - Minor Errata	4.2	4.2 Metal Corrosion	Minor edit for style, grammar, and clarity. No change to recommendations.
1 - Minor Errata	4.5.2	4.5.2 Sea Spray	Minor revision for style, grammar, and clarity. No changes to recommendations.
1 - Minor Errata	4.6.1	4.6.1 Assessment of Marine Environments	Minor revision for style, grammar, and clarity. No changes to recommendations.
1 - Minor Errata	4.6.2	4.6.2 Environmental Guides	Minor revision for style, grammar, and clarity. No changes to recommendations.
1 - Minor Errata	4.8.3	4.8.3 Graffiti Removal	Minor revision for style, grammar, and clarity. No changes to recommendations.
1 - Minor Errata	4.8.4	4.8.4 Lichen	Minor revision for style, layout, grammar, and clarity. No changes to recommendations.
1 - Minor Errata	4.9.1	4.9.1 Dissimilar Metals	Minor revision for style, layout, grammar, and clarity. No changes to recommendations.
1 - Minor Errata	4.9.4	4.9.4 Compatibility Table	Minor revision for layout, style, grammar, and clarity. No changes to recommendations.
1 - Minor Errata	4.10.1	4.10.1 Unwashed Areas	Edit for style, grammar, clarity, and consistency.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
1 - Minor Errata	4.10.2	4.10.2 Poultrice Corrosion	Minor edit for style, grammar, clarity, or consistency. No change to recommendations.
1 - Minor Errata	4.10.6	4.10.6 Capillary Action	Minor edit for style, grammar, clarity, or consistency. No changes to recommendations.
1 - Minor Errata	4.11	4.11 Inert Catchment	Minor edits for style, clarity, consistency, and grammar. No changes to recommendations.
1 - Minor Errata	4.12	4.12 Ponding	Minor edits for grammar, style, clarity, or consistency. No changes to recommendations.
1 - Minor Errata	4.13	4.13 Pitting Corrosion	Minor edit for grammar, clarity, consistency, and style. No changes to recommendations.
1 - Minor Errata	4.14	4.14 Swarf Staining and Cut Edge Corrosion	Minor edits for grammar, punctuation, clarity, and consistency. No changes to recommendations.
1 - Minor Errata	4.15	4.15 Clearances	Minor editing for style, grammar, clarity, and consistency. No changes to recommendations.
1 - Minor Errata	4.15.1	4.15.1 Ground Clearance	Minor edit for style, layout, grammar, clarity, and consistency. No changes to recommendations.
1 - Minor Errata	4.15.2	4.15.2 Site Management	Minor edit for style, grammar, layout, clarity, and consistency. No changes to recommendations.
1 - Minor Errata	4.16.1.1	4.16.1.1 Metallic Coatings	Minor edit for grammar and punctuation. No changes to recommendations.
2 - Editing and rearrangement	4.16.1.6	4.16.1.6 AM Coatings	Removed reference to coatings weights and availability in NZ.
1 - Minor Errata	4.16.3	4.16.3 Aluminium	Minor edits for grammar, style, punctuation, and consistency. No changes to recommendations.
1 - Minor Errata	4.16.4	4.16.4 Zinc	Minor edit for style, grammar, and punctuation. No changes to recommendations.
1 - Minor Errata	5.7	5.7 Downpipes	Edits for clarity and corrected link to Inert Catchment
1 - Minor Errata	7.3.2	7.3.2 Roof Cladding Expansion Provisions	Minor edit for style, grammar, consistency, or clarity.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
4 - Clause Inserted	19.1	19.10 v24.06 June 2024	New clause providing details of the updates published on 1 June 2024.

19.11 v24.03 March 2024

In the most recent update to the NZ Metal Roof and Wall Cladding Code of Practice, published on 1 March 2024, there were no substantial changes to recommendations.

New Clauses:

8.11.1 Wall Cladding End Laps: Giving guidance for flashing end laps on wall cladding. Including an illustration.

Editing and rearrangement:

- **8.5.3 Parapet Cappings:** added a new illustration showing how to flash a parapet-roof intersection.
- **5.7 Downpipes:** Inserted an explanation for using stand-off clips.
- **2 Glossary:** Added definition of stand-off clips.
- Renamed **12.1.3A Poor Purlin-to-Rafter Connection** to **12.1A Poor Purlin to Rafter Connection**.
- **4.17 Tray Roofing Clip Durability:** made allowance for plastic clips.
- **5.4.7 Gutter Capacity Calculator:** updated Manufacturer's Data illustration to ignore freeboard when there is Overflow along Gutter.

The rest of the updates consisted of some renamed clauses, and minor corrections and edits.

Revision Detail v24.03 - 2024 - March

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and 1 rearrangement		1 Introduction	Updated Revisions Message
2 - Editing and 2.1 rearrangement		2.1 Definitions	Added definition for Stand-off clips.
1 - Minor Errata	3.4.5	3.4.5 Material Grade	Fixed typo in title for 3.4.5C Typical Result for G550 Steel .
2 - Editing and 4.17 rearrangement		4.17 Tray Roofing Clip Durability	Made provision for plastic clips in table 4.17A Allowable Clip Material for Tray and Trough Cladding Over Dry Internal Environments .
2 - Editing and 5.4.7 rearrangement		5.4.7 Gutter Capacity Calculator	Update Manufacturer's Data illustration to ignore freeboard when there is Overflow along Gutter
4 - Clause Inserted		8.11.1 Wall Cladding End Laps	New Clause giving guidance about wall cladding end laps.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
1 - Minor Errata	8.4	8.4 Flashing Cover	Sized text for consistency throughout the illustrations. Added a hem to 8.4E Barge Flashing Cover – Trapezoidal and Secret Fixed and 8.4G Barge Flashing Cover – Corrugate . Adjusted the cover shown in 8.4O Parapet Cap Cover (no change to values)
2 - Editing and rearrangement	8.5.4	8.5.3 Parapet Cappings	New illustration showing a 8.5.3H Parapet-Roof Intersection .
2 - Editing and rearrangement	12.1.3	12.1.3 Thermal Noise	Renamed photograph to 12.1.3A Poor Purlin-to-Rafter Connection .
1 - Minor Errata	14.11	14.10 Overhang	Minor adjustments on illustration for improved accuracy, some minor content editing for clarity.
1 - Minor Errata	15.4.5	15.4.5 Tray Fixings	Typo fix.
1 - Minor Errata	15.4.8	15.4.8 Tray Ventilation	Typo Fix.
1 - Minor Errata	15.4.11	15.4.11 Tray Roof Flashing	Reformatted text in illustrations for consistency.
4 - Clause Inserted		19.11 v24.03 March 2024	New revision clause detailing changes following the update on 1 March 2024

19.12 v23.12 December 2023

NZ Metal Roof and Wall Cladding Code of Practice v23.12

The following revisions to the NZ Metal Roof and Wall Cladding Code of Practice were published on 1 December 2023.

Substantial change to recommendations:

- [15.1 Curved Roofs](#) and all its sub-clauses have been substantially reviewed and revised.
- [8.4 Flashing Cover](#):
 - Added clarification of rib cover to Apron Flashing Cover – Trapezoidal.
 - Changed rib height for minimum flashing cover from 25 mm to 20 mm.
 - Changed recommendation for longitudinal flashings to include both apron and barge flashings.
 - Added *Category D* for SED in Wind Zones up to 68 m/s.

Notable Editing and rearrangement:

- [15.4.2 Tray Roofing Profiles](#): This clause has been renamed and edited to clarify the difference between tray roofing and standing seam roofing.
- [15.4.4 Tray Roofing Weathertightness](#): A clause has been added on weathertightness of standing seam roofs.
- [15.4.3 Tray Roofing Design](#): This clause has been renamed and some of the content revised.
- [15.4.5 Tray Fixings](#): Content editing for clarity.
- [14.3.2 Wet Storage Damage](#): Added content for dealing with *Blooming*.
- [8.5.2.1 Ridge – barge Intersections](#): New Illustration showing a [8.5.2.1D Head-Barge/Ridge/Barge Junction](#).
- [8.4.1 Apron Upstands](#): Inserted an illustration to show Undertray for additional upstand.

The rest of the updates consisted of some renamed clauses, and minor corrections and edits.

Revision Detail v23.12 - 2023 - December

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	3.9.3	3.10.2 Maximum Spans and Fastening Patterns for Corrugate Wall Cladding	This clause has been renamed and moved to 3.10 Fastening Pattern Tables – Designs to NZS 3604 .
1 - Minor Errata	3.10.1	3.10.1 G550 Steel Roof Fastening Pattern Tables	Clause has been renamed to clearly differentiate between roof and wall cladding fastening patterns.
3 - Substantial change to recommendation	15.1	15.1 Curved Roofs	The main clause 15.1 Curved roof has been comprehensively reviewed and revised.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	15.1.1	15.1.7 Spring Curving	This clause has been substantially revised during the overall review of 15.1 Curved Roofs .
0 - Clause Removed	15.1.3	Transverse Laps	This clause has been removed during the revision of 15.1 Curved Roofs . Information previously contained in this clause is now available in other sub-clauses of the main clause (15.1 Curved Roofs).
4 - Clause Inserted		15.1.3 Penetrations: Curved Roofs	A newly created clause as part of the overall revision of 15.1 Curved Roofs
4 - Clause Inserted		15.1.4 Ventilation: Curved Roofs	A newly created clause as part of the overall revision of 15.1 Curved Roofs .
2 - Editing and rearrangement	9	9 External Moisture Penetrations	New referral to RANZ Roofing Guide for further information.
4 - Clause Inserted		15.1.5 Thermal Expansion: Curved Roofs	A newly created clause as part of the overall revision of 15.1 Curved Roofs .
4 - Clause Inserted		15.1.9 Installation: Curved Roofs	New clause, created from information previously contained in 15.1.11 Crimp Curving .
0 - Clause Removed	15.1.6	Concave Roofs	This clause has been removed during the revision of 15.1 Curved Roofs .
0 - Clause Removed	15.1.10	Timber Fixing	This clause has been removed during the revision of 15.1 Curved Roofs .
2 - Editing and rearrangement	15.1.4	15.1.6 Durability	This clause has been edited during the overall revision of 15.1 Curved Roofs .
0 - Clause Removed	15.1.5	Purlin Spacing	This clause has been removed during the overall revision of 15.1 Curved Roofs . The information can now be found in 15.1.7 Spring Curving .
2 - Editing and rearrangement	15.1.7	15.1.8 Pre-Curved Roofs	This clause has been revised as part of the overall revision of 15.1 Curved Roofs .
2 - Editing and rearrangement	15.1.9	15.1.11 Crimp Curving	This clause has been substantially edited during the revision of 15.1 Curved Roofs . <ul style="list-style-type: none"> Information about lapping can be found at 9.7.9 Laps and 15.1.2 End Laps: Curved Roofs respectively. The information about installing curved roofs and the correct fixing order can now be found at 15.1.9 Installation: Curved Roofs.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	15.1.8	15.1.10 Roll Curving	This clause has been revised during the overall revision of 15.1 Curved Roofs .
4 - Clause Inserted		15.1.2 End Laps: Curved Roofs	Newly created clause as part of the overall revision of 15.1 Curved Roofs .
2 - Editing and rearrangement	9.4	9.4 Penetration Design	New referral to RANZ Roofing Guide for further information.
2 - Editing and rearrangement	5.4.7	5.4.7 Gutter Capacity Calculator	Additional label to clarify that gutter dimensions at the outlet are to be used for the calculation.
2 - Editing and rearrangement	8	8 External Moisture Flashings	New referral to RANZ Roofing Guide for further information.
2 - Editing and rearrangement	8.2	8.2 Flashing Design	New referral to RANZ Roofing Guide for further information.
2 - Editing and rearrangement	1, 1	1 Introduction	Updated Revisions Message
3 - Substantial change to recommendation	15.1.2	15.1.1 Side Laps: Curved Roofs	This clause has been comprehensively revised during the overall review of 15.1 Curved Roofs
4 - Clause Inserted		19.12 v23.12 December 2023	Revision details for V23.12; published on 1 December 2023.
2 - Editing and rearrangement	8.5.2.1	8.5.2.1 Ridge – barge Intersections	New illustration showing a head barge/ridge/barge junction.
3 - Substantial change to recommendation	8.4	8.4 Flashing Cover	<ul style="list-style-type: none"> Added clarification of rib cover to 8.4K Apron Flashing Cover – Trapezoidal. Changed rib height for minimum flashing cover from 25 mm to 20 mm. Changed recommendation for longitudinal flashings to include both apron and barge flashings. Added Category "D" for SED up to 68 m/s, all pitches, and updated tables and the illustrations to match.
4 - Clause Inserted		8.5.2 Head Barge/Ridge/Barge Junction	New illustration of Head Barge/Ridge/Barge Junction.
2 - Editing and rearrangement	8.4.1	8.4.1 Apron Upstands	Inserted an illustration to show Undertray for additional upstand.
2 - Editing and rearrangement	14.3.2	14.3.2 Wet Storage Damage	Added description and recommendation for dealing with Blooming.
1 - Minor Errata	14.13.2	14.12.2 Screws	Fixed table: Screw Thread Types.
0 - Clause Removed	16.2.1	Installation	Clause removed because the subject is comprehensively covered in Installation.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	15.4.3	15.4.3 Tray Roofing Design	This clause has been renamed Tray Roofing Design. Some content editing for clarity.
2 - Editing and rearrangement	15.4.12.1	15.4.13.1 Tray Cladding Set Out	The clause has been renamed Tray Cladding Set Out and a grammar fix.
4 - Clause Inserted	10.1.4	10.1.4 Compliance	New Clause under 10.1 NZBC Clause E3: Internal Moisture (Extract) .
2 - Editing and rearrangement	15.4.6	15.4.7 Sarking	Changed recommendation for overhang at the gutter line.
2 - Editing and rearrangement	15.4.4	15.4.5 Tray Fixings	Content editing for clarity.
2 - Editing and rearrangement	15.4.2	15.4.2 Tray Roofing Profiles	This clause has been renamed Tray Roofing Profiles. Some content editing.
2 - Editing and rearrangement	15.4.1	15.4.1 Tray Roofing Materials	Renamed the clause to Tray Roofing Materials. Some minor edits.
3 - Substantial change to recommendation	15.4	15.4 Tray Roofing	This clause has been revised to clarify the difference between Tray roofing and standing seam roofing, as terms are used in the Code of Practice.
2 - Editing and rearrangement	9.4.2.6	9.4.2.6 Penetration Flashings on Trapezoidal Profiles	Renamed clause to Penetration Flashings on Trapezoidal Profiles.
4 - Clause Inserted		15.4.4 Tray Roofing Weathertightness	A new clause dealing with Weathertightness and tray roofing.
4 - Clause Inserted		4.17 Tray Roofing Clip Durability	A new clause about the durability of roofing clips.
2 - Editing and rearrangement	9.4.1	9.4.1 Penetration Back Flashings	Clause renamed to Penetration Back Flashings.
2 - Editing and rearrangement	9.4.2.5	9.4.2.5 Penetration Flashings on Corrugated Profiles	Renamed the clause to Penetration Flashings on Corrugated Profiles.
1 - Minor Errata	4, 4	4 Durability	Inserted a link to the 4.9.4A Interactive Material Compatibility Tool .
1 - Minor Errata	14.20.2	14.19.2 Recommendations for Fixing Aluminium	Added "non-compressible" to point d.
1 - Minor Errata	15.4.8.1	15.4.9.1 Tray Roofing Wind Noise	Grammar fix.
1 - Minor Errata	3.4.6	3.4.6 Material Thickness	Punctuation fix.
1 - Minor Errata	3.4.1	3.4.1 Corrugate Profile	Grammar fix.
1 - Minor Errata	3.4	3.4 Profiles	Typo fix.
1 - Minor Errata	3	3 Structure	Punctuation fix.

19.13 2023 – September

The following revisions to the NZ Metal Roof and Wall Cladding Code of Practice were published on 1 September 2023.

Versioning and presentation:

- Beginning with this revision the Code of Practice updates its version number with each update, to make it clear when the current update was published.
The version numbering uses a year.month pattern: for example this update is v23.09, where 23 indicates the year (2023) and 09 indicates the month (September).
Refer to [19 Revision History](#) for a log of specific changes in each update.
- An overall upgrade to styling for improved typeface readability and better contrast in headings.
- Additionally there are new "Quick Actions" on the COP Home page for reference to updates and interactive tools, and the registration process has been streamlined.

Substantial change to recommendations:

- [16 Maintenance](#) and all its sub-clauses have been comprehensively revised.
- [5.6.2 Sumps](#): Added recommendation to seal internal sumps against the sides and soles of the gutter.
- [14.18.3 Correctly Installed Gutters](#): Changed recommendation for gutter drainage to be more consistent with MBIE tolerances.
- In [3 Structure](#), tables and graphs have been rearranged to correspond to whether the design is under NZS3604 or AS/NZS1170:
 - [3.10 Fastening Pattern Tables – Designs to NZS 3604](#)
 - [3.11 Wind Load/Span Graphs – Designs to AS/NZS1170](#)

Editing and rearrangement:

- [8.5.4 Apron Flashings](#): Corrected name for chase and face fastened flashing to *Reglet flashings*. Added definition to the *Glossary*.
- [9.4.2.6 Penetration Flashings on Trapezoidal Profiles](#): Clarified recommendations for trapezoidal sheet cover above the flashing when using under-soaker flashings.
- Revised the Introduction to [3 Structure](#) to make it easier for users to find the correct fastening pattern for NZS3604 or Wind Load/Span Graphs for SED (AS/NZS 1170) designs.
- [3.9 Fastener Requirements and Overhangs](#): renamed the clause.
- [4.9.4 Compatibility Table](#): Correction to use caution for contact between concrete and steel.
- Revised [8.2A Notched Flashing](#) illustration to recommend a screw fastener to the purlin in preference to a rivet.
- [7.3.2B Unfavourable Circumstances for Controlling Expansion](#): inserted vertical axis label: sheet length (m). Removed Pan Fixing as unfavourable condition for expansion control.
- [15.4.9 Standing Seam Roofing Wind Loads](#): Renamed table – Generic Standing Seam Clip Spacing.
- [12.2 Purlin Creasing](#): Copy editing for clarity.
- [8.2.1 Flashing Edges](#): Removed recommendation to provide longitudinal flashings with an anti-capillary gap, as this is impractical.

The rest of the updates consisted of minor corrections and edits.

Revision Detail - 2023 - September

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	Updated Revisions Message
2 - Editing and rearrangement	1.1	1.1 Disclaimer and Copyright	Removed copy explaining the update-policy and created a new subclause for those explanations.
4 - Clause Inserted		1.1.1 Code of Practice Update-Policy	Outline the update policy, new Version numbering scheme, and process for requesting archival content
2 - Editing and rearrangement	2.1	2.1 Definitions	Added definition for Reglet flashing.
4 - Clause Inserted		3.11 Wind Load/Span Graphs – Designs to AS/NZS1170	New clause to group 3.11.2 Steel Cladding Wind Load Span Graphs and 3.11.3 Aluminium Cladding Wind Load Span Graphs for designs to AS/NZS 1170.
2 - Editing and rearrangement	3	3 Structure	Revision of the introductory clause to clarify uses of 3.10 Fastening Pattern Tables – Designs to NZS 3604 and 3.11 Wind Load/Span Graphs – Designs to AS/NZS1170 .
1 - Minor Errata	3.2.1	3.2.1 AS/AZS 1170.2:2011	Fixed typo: amendments. Completed the last sentence and formatted the link to 3.7 Modes of Failure properly.
1 - Minor Errata	3.6.2.1	3.6.2.1 Wind Load	Resized photographs so they display the same.
1 - Minor Errata	3.6.2.2	3.6.2.2 Snow Loads	Grammatical fix for clarity.
1 - Minor Errata	3.7.2	3.7.2 Deflection	Fixed typo: distributed and roofing.
2 - Editing and rearrangement	3.9	3.9 Fastener Requirements and Overhangs	Clause has been renamed.
4 - Clause Inserted		3.10 Fastening Pattern Tables – Designs to NZS 3604	New clause to group 3.10.1 G550 Steel Roof Fastening Pattern Tables and 3.10.3 Aluminium Fastening Pattern Tables for NZS3604-designs.
3 - Substantial change to recommendation	4.9.4	4.9.4 Compatibility Table	Correction to "use with caution" for contact between concrete and steel. Removed brand names in favour of generic descriptive terms.
4 - Clause Inserted	4.15.1	4.15.1 Ground Clearance	New clause under 4.15 Clearances .
3 - Substantial change to recommendation	5.5.7	5.5.7 Valley Capacity Calculator	Enabled valley calculations for roofs at pitches below 3° - enforces a minimum freeboard of 30mm

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	5.6.2	5.6.2 Sumps	Added recommendation for internal sumps to be sealed against the sides and sole of the gutter. Some typo fixes.
1 - Minor Errata	6.2	6.2 Compliance	Fixed a missing link to: 7 External Moisture Roofing , 8 External Moisture Flashings , and 9 External Moisture Penetrations .
2 - Editing and rearrangement	8.2	8.2 Flashing Design	Revised 8.2A Notched Flashing illustration to recommend a screw fastener to the purlin in preference to a rivet.
2 - Editing and rearrangement	8.2.1	8.2.1 Flashing Edges	Removed recommendation to provide longitudinal flashings with an anti-capillary gap, as this is impractical.
4 - Clause Inserted		8.3 Metal Fascias and Facades	A new clause providing guidance for purpose-made Metal Fascias and Facades.
2 - Editing and rearrangement	8.4.4	8.5.4 Apron Flashings	Corrected name for 8.5.4H Parapet – Reglet Flashing, Chase Cut and 8.5.4I Parapet – Reglet Flashing, Face Fixed .
2 - Editing and rearrangement	9.4.2.6	9.4.2.6 Penetration Flashings on Trapezoidal Profiles	Clarifying text for fixing under-soaker flashing added to 9.4.2.6B Level Under-Soaker: Trapezoidal ,
1 - Minor Errata	12	12 Fitness For Purpose	Fixed typo: Addition
1 - Minor Errata	13.3	13.3 Working on Roofs	Edited the caption under 13.3A Working on Roofs Safety Systems .
1 - Minor Errata	14.3	14.3 Accepting Delivery	Added clarifying statement to contact the supplier when the condition of the product is in doubt.
1 - Minor Errata	14.13.1	14.12.1 Nails	Photo of Nail Pull-Out rotated.
3 - Substantial change to recommendation	14.19.3	14.18.3 Correctly Installed Gutters	Changed recommendation for gutter drainage to be more consistent with MBIE tolerances.
1 - Minor Errata	15.1.1	15.1.7 Spring Curving	Updated reference to the tables in this clause.
1 - Minor Errata	15.1.6	15.1.6 Concave Roofs	Removed reference to a redundant table. Some grammar fixes.
1 - Minor Errata	15.1.9	15.1.11 Crimp Curving	Fixed a broken link to 16.8 Overpainting .
2 - Editing and rearrangement	15.4.8	15.4.9 Standing Seam Roofing Wind Loads	Renamed table, it is now called: Generic Standing Seam Clip Spacing and inserted Medium Wind Zone.
1 - Minor Errata	15.4.12.4	15.4.13.4 Finishing at Ridges and Eaves of Tray Roofing	Typo fix.
1 - Minor Errata	16	16 Maintenance	Some editing for accuracy.
4 - Clause Inserted		16.1 Maintenance Compliance	New clause inserted.

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
0 - Clause Removed	16.1	Improved Durability	Clause removed during the over-all revision of 16 Maintenance .
0 - Clause Removed	16.2	Normal Maintenance	This clause was removed during the over-all revision of 16 Maintenance
4 - Clause Inserted		16.3 Reactive Maintenance	New clause created during the over-all revision of 16 Maintenance .
3 - Substantial change to recommendation	16.3	16.4 Scheduled Maintenance	The clause was revised as part of the overall revision of 16 Maintenance .
3 - Substantial change to recommendation	16.4	16.5 Preventative Maintenance	This clause was revised during the overall revision of 16 Maintenance .
3 - Substantial change to recommendation	16.5	16.6 Special Maintenance	This clause was revised during the overall revision of 16 Maintenance .
3 - Substantial change to recommendation	16.6	16.2 Inspection	Clause revised as part of the over-all revision of 16 Maintenance .
3 - Substantial change to recommendation	16.7	16.7 Washing	This clause was revised during the overall revision of 16 Maintenance .
3 - Substantial change to recommendation	16.7.1	16.7.1 Lichen And Mould	THis clause was revised during the overall revision of 16 Maintenance .
2 - Editing and rearrangement	16.7.2	16.7.2 Graffiti	This clause was revised during the overall revision of 16 Maintenance .
3 - Substantial change to recommendation	16.8	16.8 Overpainting	This clause was revised during the overall revision of 16 Maintenance .
4 - Clause Inserted		16.8.1 Preparation for Overpainting	New clause created during the overall revision of 16.8 Overpainting .
3 - Substantial change to recommendation	16.8.1	16.8.3 Unpainted Cladding	This clause has been revised during the overall revision of 16 Maintenance .
2 - Editing and rearrangement	16.8.2	16.8.4 Weathered Pre-Painted Cladding	This clause was revised during the overall revision of 16 Maintenance .
2 - Editing and rearrangement	16.8.3	16.8.1.1 White Corrosion	This clause has been revised during the overall revision of 16 Maintenance .
2 - Editing and rearrangement	16.8.4	16.8.1.2 Red Corrosion	This clause was revised during the overall revision of 16 Maintenance .
4 - Clause Inserted		16.8.5 Unweathered Pre-Painted Cladding	New clause created during the overall revision of 16 Maintenance .

Category	Clause Number (prior to update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	16.8.5	16.8.2 Paint Application	This clause has been renamed and completely revised during the overall revision of 16 Maintenance , previously independent clauses have also been incorporated. They are: Brush Application, Roller Application, Spray Application
0 - Clause Removed	16.8.6	Brush Application	This clause has been removed during the overall revision of 16 Maintenance . Brush Application is now discussed in 16.8.2 Paint Application .
0 - Clause Removed	16.8.7	Roller Application	This clause has been removed during the overall revision of 16 Maintenance . Roller Application is now discussed in 16.8.2 Paint Application .
0 - Clause Removed	16.8.8	Spray Application	This clause has been removed during the overall revision of 16 Maintenance . Spray Application is now discussed in 16.8.2 Paint Application .
0 - Clause Removed	16.9	Material Selection	This clause was removed during an overall revision of 16 Maintenance .
0 - Clause Removed	16.9.1	Residential	This clause was removed during an overall revision of 16 Maintenance .
0 - Clause Removed	16.9.2	Commercial	This clause was removed during an overall revision of 16 Maintenance .
0 - Clause Removed	16.9.3	Responsibility and Liability	This clause was removed during an overall revision of 16 Maintenance .
0 - Clause Removed	16.9.4	Special Environments And Exclusions	This clause was removed during an overall revision of 16 Maintenance .
0 - Clause Removed	16.11	Storage	This clause was removed during an overall revision of 16 Maintenance . Storage is dealt with through various clauses under 14 Installation .
2 - Editing and rearrangement	18.2	18.2 Pitch & Rise Calculator	Renamed from "Roof Pitch Tangent" to "Pitch & Rise Calculator" for clarity.
2 - Editing and rearrangement	18.5	18.5 Geometry And Measurement	Renamed from "Geometry And Mensuration" to "Geometry And Measurement".
4 - Clause Inserted		19.13 2023 – September	New clause listing revisions for September 2023.

19.14 2023 – June

The following revisions to the NZ Metal Roof and Wall Cladding Code of Practice were published on 1 June 2023.

Substantial change to recommendations:

The main section 3 [Structure](#) has been comprehensively revised.

- The revision comprises several changes throughout the main clause and sub-clauses.
- Several clauses were revised in part or completely and illustrations were updated.
- Clauses dealing with fastening patterns and SED Wind Load/Span Graphs are currently being reviewed pending ongoing MRM testing.
- An interactive filter for fastener patterns and load/span graphs is now available in these clauses.

Design	Steel	Aluminium
NZS 3604	3.10.1 G550 Steel Roof Fastening Pattern Tables	3.10.3 Aluminium Fastening Pattern Tables
SED	3.11.2 Steel Cladding Wind Load Span Graphs	3.11.3 Aluminium Cladding Wind Load Span Graphs

Other important updates:

- A new clause discusses [12.4 Flashing Buckling](#) in more detail, while the old clause has been renamed Compression Timber.
- *Standing Seam Cladding* has been renamed [15.4 Tray Roofing](#) and the entire clause and its sub-clauses have been reviewed.
- The definition of *standing seam* roofing (a form of tray roofing installed on solid sarking, using traditional seaming tools) has been clarified.

The rest of the updates consisted of minor corrections and edits.

Revision Detail - 2023 - June

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	Updated Revisions Message
2 - Editing and rearrangement	2.1	2.1 Definitions	Clarified the definition of <i>Standing Seam Profile</i> .
3 - Substantial change to recommendation	3	3 Structure	The main clause Structure has been comprehensively revised. The revision comprises several changes throughout the main clause and sub-clauses

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		3.2 Standards	New clause to group the standards referred to in 3 Structure in the COP.
0 - Clause Removed	3.2	General	This clause has been merged with the introductory clause for 3 Structure .
3 - Substantial change to recommendation	3.3	3.2.1 AS/AZS 1170.2:2011	This clause has been revised as part of the overall revision of 3 Structure .
3 - Substantial change to recommendation	3.4	3.2.2 NZS 3604:2011	Changed the description of what NZS 3604 includes. Removed the statement that NZS 3604 is location specific.
4 - Clause Inserted		3.2.3 NASH Standard	New clause to mention the NASH Standard in relation to B1/AS1.
4 - Clause Inserted		3.3 Performance	New clause. This clause was filled with information previously available in the old clause 3.5.1 Understanding Loads
4 - Clause Inserted		3.3.1 Section Properties	New sub-clause discussing how to determine profile strength under load.
3 - Substantial change to recommendation	3.15	3.4 Profiles	This clause has been revised as part of the overall revision of 3 Structure . Some copy has been moved to 3.5.6 Section Properties
2 - Editing and rearrangement	3.15.1	3.4.1 Corrugate Profile	The clause has been revised as part of the overall revision of Structure.
2 - Editing and rearrangement	3.15.2	3.4.2 Trapezoidal Profile	revised as part of the overall revision of 3 Structure .
3 - Substantial change to recommendation	3.15.5	3.4.3 Miniature Profiles	Deleted reference to metrical or imperial sizing of miniature profiles.
3 - Substantial change to recommendation	3.15.3	3.4.4 Secret-fixed Profiles	Clause renamed and combined with 3.15.4 Standing Seam (removed). Added an illustration
3 - Substantial change to recommendation	3.13	3.4.5 Material Grade	Content had been revised and edited as part of the overall revision of 3 Structure .
3 - Substantial change to recommendation	3.14	3.4.6 Material Thickness	The content of this clause was revised as part of the overall revision of 3 Structure .
4 - Clause Inserted		3.5 Loads	New introductory clause leading into various clauses dealing with different loads.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	3.5	3.5.1 Understanding Loads	The clause has been revised and edited as part of the overall revision of 3 Structure . The illustration of 3.3A Profiled Steel – Flanges and Webs and some content have been moved to 3.4 Profiles . The illustration 3.5.1A Compression, Tensile and Shear Force
0 - Clause Removed	3.5.1	Point Load	This clause has been removed as part of the overall revision of 3 Structure . Instead of two clauses
0 - Clause Removed	3.5.6	Section Properties	This clause was removed as part of the overall revision of 3 Structure . The information previous contained in this clause has been spread throughout other clauses.
3 - Substantial change to recommendation	3.5.8	3.5.1.1 Continuity	The content of this clause was revised and edited as part of the overall revision of 3 Structure . The illustration for 3.5.1.1A Continuity
2 - Editing and rearrangement	3.5.4	3.5.1.2 Load Distribution	The 3.5.1.2 Load Distribution -clause has been revised and edited as part of the overall revision of 3 Structure .
0 - Clause Removed	3.5.2	Wind Load	This clause was merged with 3.6.2.1 Wind Load as part of the overall revision of 3 Structure .
0 - Clause Removed	3.5.5	Yield Strength	This clause has been assimilated into a new clause
3 - Substantial change to recommendation	3.6	3.6 Types of Load	Clauses describing types of load have been rearranged and revised for clarity and easy of use. Content previously contained to this clause was distributed among it's sub-clauses.
2 - Editing and rearrangement	3.6.1	3.6.1 Point Load	This clause revised as part of the overall revision of 3 Structure .
3 - Substantial change to recommendation	3.7	3.6.2.1 Wind Load	Two clauses that previously discussed wind load were merged into one as part of the overall revision of 3 Structure . The content of both clauses were revised and edited to facilitate the merger.
3 - Substantial change to recommendation	3.7.1	3.6.2.1.1 Local Pressure Factor (Kl)	Corrected illustration 3.6.2.1.1A Local Pressure for Low-Pitch Roofs and deleted C Local Pressure Factors C .
2 - Editing and rearrangement	3.7.2	3.6.2.1.2 Conversion of Wind Speed To Pressure	The content of this clause has been edited as part of a overall revision of 3 Structure .

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	3.8	3.6.2.2 Snow Loads	This contents in this clause has been edited for conciseness as part of the overall revision of 3 Structure .
2 - Editing and rearrangement	3.7.3	3.6.2.3 Roof Weight	The content os this clause has been edited for clarity.
3 - Substantial change to recommendation	3.3.1	3.7 Modes of Failure	The contents of this clause has been edited as part of the overall revision of 3 Structure .
4 - Clause Inserted		3.7.1 Serviceability and Ultimate Failure	Newly created clause discussing <i>Serviceability and Ultimate Failure</i> .
3 - Substantial change to recommendation	3.5.3	3.7.2 Deflection	The content of this clause has been revised as part of the overall revision of 3 Structure . The contents have been merged with 3.5.5 Yield Strength
4 - Clause Inserted		3.7.3 Deformation	New clause made up of merged content from 3.7.2 Deflection and 3.5.5 Yield Strength .
3 - Substantial change to recommendation	3.6.2	3.7.4 Roof Traffic	The content of this has been edited to include a load of 2 kPa applied for accessible roofs.
3 - Substantial change to recommendation	3.9	3.7.5 Dead Loads	The content of this clause has been edited as part of the overall revision of 3 Structure .
2 - Editing and rearrangement	3.1	3.7.6 Construction Loads	The content is this clause has been revised as part of the overall revision of 3 Structure . A photo to illustrate rib damage due to construction loads was added.
3 - Substantial change to recommendation	3.5.7	3.7.7 Fatigue and Brittle Failure	The content of this clause has been revised as part of the overall revision of 3 Structure
4 - Clause Inserted		3.8 Fasteners	New introductory clause to sub-clauses dealing with structural requirements for fasteners.
3 - Substantial change to recommendation	3.11	3.8.1 Fastener Loads	The content is this clause has been revised as part of the overall revsion of 3 Structure .
3 - Substantial change to recommendation	3.12.1.1	3.8.2 Steel Purlins	This clause has been renamed and merged with 3.12.1 Screw Fasteners and 3.12.1.2 Steel Purlins Thicker Than 1 mm .

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	3.12.2	3.8.4 Pull-over Values	The content of this clause has been edited as part of the overall revision of 3 Structure . The copy was revised and the table A Typical Pull over values for crest fixing (serviceability failure) was removed.
2 - Editing and rearrangement	3.11.1	3.8.5 Load-spreading Washers	This clause has been moved as part of the overall revision of 3 Structure . It now follows 3.8.4 Pull-over Values .
0 - Clause Removed	3.12	Fastener Performance	This clause has been merged with 3.8.1 Fastener Loads .
0 - Clause Removed	3.12.1	Screw Fasteners	This clause has been merged with 3.8.2 Steel Purlins .
0 - Clause Removed	3.12.1.2	Steel Purlins Thicker Than 1 mm	This clause was merged with 3.8.2 Steel Purlins .
0 - Clause Removed	3.15.4	Standing Seam	Clause was combined with 3.4.4 Secret-fixed Profiles .
1 - Minor Errata	4	4 Durability	Fixed typo.
3 - Substantial change to recommendation	4.9.4	4.9.4 Compatibility Table	Correction to the combination of <i>Stainless Steel</i> with <i>Zinc or Zinc coated steel</i> , where runoff from <i>Stainless Steel</i> is not suitable. Amendment of some material descriptions to more common industry terms (<i>Galvanised steel</i> , <i>Colorsteel®/Colorcote®</i> , <i>Zincalume®</i>). Addition of <i>Painted Galvanised Steel</i> .
2 - Editing and rearrangement	5.5.1	5.5.1 Valley Fixing	Rearranged layout.
3 - Substantial change to recommendation	5.5.6	5.5.6 Asymmetrical Valleys	Added recommendation for valley baffles where roof pitches exceed 10°.
3 - Substantial change to recommendation	8.4.3	8.5.3 Parapet Cappings	This clause was comprehensively reviewed and all the illustrations were updated.
1 - Minor Errata	8.4.4	8.5.4 Apron Flashings	Edited for clarity. Removed mention of 'hidden flashings' and inserted mention of B2/AS1.
1 - Minor Errata	8.4.4.4	8.5.4.4 Eaves Flashing	The illustration of 8.5.4.4A Gutter-Eaves Flashing Option 1 has been amended to align with measurements from E2/AS1.
2 - Editing and rearrangement	8.8	8.9 Compression Timber	Clause renamed. Flashing buckling is discussed in 12.4 Flashing Buckling .
4 - Clause Inserted		12.4 Flashing Buckling	New clause discussing buckling of flashings.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
1 - Minor Errata	14.11	14.10 Overhang	Drawing tidy up.
3 - Substantial change to recommendation	15.4	15.4 Tray Roofing	The entire clause 15.4 Tray Roofing
2 - Editing and rearrangement	15.4.1	15.4.1 Tray Roofing Materials	Renamed the couse to <i>Tray Profile Materials</i> .
2 - Editing and rearrangement	15.4.2	15.4.2 Tray Roofing Profiles	15.4 Tray Roofing has been revised and renamed to <i>Self-Support and Standing Seam Profiles</i> .
4 - Clause Inserted		15.4.3 Tray Roofing Design	New clause discussing standing seam design.
3 - Substantial change to recommendation	15.4.3	15.4.5 Tray Fixings	<i>Standing Seam Fixings</i> has been reviewed
1 - Minor Errata	15.4.5	15.4.7 Sarking	Provided full terminology for CPD (Control Panel Directive).
2 - Editing and rearrangement	15.4.6	15.4.8 Tray Ventilation	<i>Standing Seam Ventilation</i> has been renamed <i>Tray Ventilation</i> .
2 - Editing and rearrangement	15.4.7	15.4.9 Standing Seam Roofing Wind Loads	The clause <i>Standing Seam Roofing Wind Loads</i> has been renamed <i>Tray Roofing Wind Loads</i> .
4 - Clause Inserted		15.4.9.1 Tray Roofing Wind Noise	New Clause for <i>Tray Roofing Wind Noise</i> .
2 - Editing and rearrangement	15.4.8	15.4.10 Penetrations on Tray Roofing	The clause <i>Penetrations on Standing Seam Cladding</i> has been renamed to <i>Penetrations on Tray Roofing</i> .
3 - Substantial change to recommendation	15.4.10.3	15.4.11 Tray Roof Flashing	1. Clause and illustraions have been renamed
2 - Editing and rearrangement	15.4.9	15.4.12 Canning and Purlin Creasing	Removed last line to avoid confusion .
2 - Editing and rearrangement	15.4.10	15.4.13 Installing Tray Cladding	Clause renamed
4 - Clause Inserted		15.4.13.2 Commence Laying Tray Cladding	New clause discussing laying of tray cladding.
2 - Editing and rearrangement	15.4.10.2	15.4.13.3 Provision for Expansion – Tray Roofing	Photo from <i>Installing Standing Seam Cladding</i> has been moved to 15.4.13.3 Provision for Expansion – Tray Roofing . Clause has been renamed for consistency.
4 - Clause Inserted		15.4.13.4 Finishing at Ridges and Eaves of Tray Roofing	New clause describing tray roofing sheet end treatment.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
1 - Minor Errata	17.1.5.1	17.1.5.1 Allowance for Variation	Corrected depreciation factor for clip-fastened products from 30% to 1.3.
4 - Clause Inserted		19.14 2023 – June	New clause with revision details for 1 June 2023.

19.15 2023 – March

The following revisions to the NZ Metal Roof and Wall Cladding Code of Practice were published on 1 March 2023.

Substantial changes to recommendations:

- [5.4.7 Gutter Capacity Calculator](#) extended to include secret gutters, and gutter fall greater than 1:100.
- New clause [5.2A Roof Drainage Terminology as used in the COP](#) .
- Opinion on small sheds and bay windows that do not require spouting.
- Reviewed table [7.1.1 Minimum Roof Cladding Pitch](#) and added maximum run.
- Added design advice for scuppers in [5.4.5.1 Internal Gutter Design Features](#)
- Added advice for minimising roof noise in [15.4.9 Standing Seam Roofing Wind Loads](#).

Editing and rearrangement:

- Freeboard for Internal Gutters has been increased to 30mm to align with COP calculator and E1/AS1
- [14.10A Minimum Overhang](#) updated drawing. No change to recommendations.
- [14.16 Turndowns \(Drip Forming or Drip Edging\)](#) reviewed copy to provide guidance for difficult-to-turn-down profiles, such as deep corrugated profiles.
- [2 Glossary](#) added definitions for freeboard, internal gutters, hidden gutters, secret gutters, and raked spouting.
- Updated illustrations detailing
[8.5.2C Stepped Fascia Corrugate Over Barge](#), [8.5.2B Stepped Fascia Corrugate Under Barge](#), [8.5.2E Stepped Fascia Trapezoidal Over Barge](#), [8.5.2D Stepped Fascia Trapezoidal Under Barge](#), [8.5.4H Parapet – Reglet Flashing, Chase Cut](#), [8.5.4I Parapet – Reglet Flashing, Face Fixed](#), [8.5.2F Tray Roofing-Wall Connection](#) and [5.5.6A Valley Baffle](#).

Other changes consisted of small fixes for clarity and grammar.

Revision Detail - 2023 - March

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	5.3.7	5.4.7 Gutter Capacity Calculator	Gutter Capacity Calculator now supports calculation where gutter fall is greater than 1:100, and has an option for Secret Gutters (i.e. where a roof slopes towards a raking wall or barge).
3 - Substantial change to recommendation	7.1.1	7.1.1 Minimum Roof Cladding Pitch	Revised and renamed table 7.1.1A Minimum Pitch for Generic Metal Roofing .
4 - Clause Inserted		5.2 Roof Drainage Terminology	New clause to clarify COP usage of terminology pertaining to Roof Drainage.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		5.3.2.1 Designing for Climate Change	Newly introduced clause, recommending NIWA's HIRDS-tool.
4 - Clause Inserted		5.4.1.1 Bay Windows	New clause discussing drainage for Bay Windows.
4 - Clause Inserted		5.4.1.2 Outbuildings	New clause to give guidance on roof drainage for outbuildings.
2 - Editing and rearrangement	1	1 Introduction	Updated Revisions Message
2 - Editing and rearrangement	2.1	2.1 Definitions	Added definitions for Freeboard, Internal gutter, Hidden gutter, Secret gutter, and Raking Spouting.
1 - Minor Errata	3.5.2	3.5.2 Wind Load	Fixed broken link.
2 - Editing and rearrangement	5.3.5.1	5.4.5.1 Internal Gutter Design Features	Added clarifying text regarding scuppers.
2 - Editing and rearrangement	5.4.6	5.5.6 Asymmetrical Valleys	Included details drawing for installing a .
2 - Editing and rearrangement	8.3	8.4 Flashing Cover	Added clarification of rib cover to 8.4K Apron Flashing Cover – Trapezoidal .
2 - Editing and rearrangement	8.4.2	8.5.2 Barge And Verge	Added illustrations showing details for: 8.5.2B Stepped Fascia Corrugate Under Barge ; 8.5.2C Stepped Fascia Corrugate Over Barge ; 8.5.2D Stepped Fascia Trapezoidal Under Barge ; 8.5.2E Stepped Fascia Trapezoidal Over Barge ; and 8.5.2F Tray Roofing-Wall Connection .
2 - Editing and rearrangement	8.4.4	8.5.4 Apron Flashings	Added illustration showing 8.5.4H Parapet – Reglet Flashing, Chase Cut and 8.5.4I Parapet – Reglet Flashing, Face Fixed .
1 - Minor Errata	14.16	14.15 Stop-ends	Minor edit for clarity.
2 - Editing and rearrangement	14.17	14.16 Turndowns (Drip Forming or Drip Edging)	Edited copy to provide guidance for difficult to turn down profiles, such as deep corrugated profiles.
4 - Clause Inserted		19.15 2023 – March	Revision and updates active 1 March 2023.

19.16 2022 – November

In a major update, effective 1 November 2022, the Clause 15.5 – previously 'Insulated Panels' – has been revised and extended.

The main clause has been renamed [15.5 Warm Roofs](#), and it now includes sub-clauses dealing with [15.5.1 Insulated Panels](#) [15.5.2 Composite Systems](#) and [15.5.3 Spray-On Systems](#).

Other notable updates include:

- Changed recommendations for [5.5.6 Asymmetrical Valleys](#).
- Changed recommendations for [15.4.9 Standing Seam Roofing Wind Loads](#) to minimise wind noise.
- The performance requirements quoted from [5.1 NZBC: Clause E1 – Surface Water](#) has been expanded to better reflect the intent of NZBC E1 – Surface Water.
- The [3.6.2.2B Altitudes for Snow Loading Design](#) was renamed to remove ambiguity.
- Roofing products with adhered absorbent fleece were added to [10.10 Ventilation Pathways](#).
- [15.4.11 Tray Roof Flashing](#) details added to [15.4 Tray Roofing](#).

The rest of the updates consist of minor edits for clarity and layout.

Revision Detail - 2022 - November

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	Updated Revisions Message
2 - Editing and rearrangement	3.8	3.6.2.2 Snow Loads	Table 3.6.2.2B Altitudes for Snow Loading Designn was renamed to remove ambiguity.
1 - Minor Errata	3.15	3.4 Profiles	Renamed Tray/Deck profiles to Standing Seam/Tray Profiles.
1 - Minor Errata	5.1	5.1 NZBC: Clause E1 – Surface Water	Expanded performance requirement in accordance with E1– Surface Water.
3 - Substantial change to recommendation	5.4.6	5.5.6 Asymmetrical Valleys	Changed recommendation in line with the most recent 5.5.7 Valley Capacity Calculator .
2 - Editing and rearrangement	10.1	10.10 Ventilation Pathways	Added fleece lined products.
1 - Minor Errata	12.1.1	12.1.1 Wind Noise	Added recommendation to reduce Underlay Flutter, by adding spray-on foam insulation.
2 - Editing and rearrangement	15.3.2	15.3.1.4 Valleys	Updated Reference to 5.5.7 Valley Capacity Calculator
2 - Editing and rearrangement	15.4.6	15.4.8 Tray Ventilation	Replaced 15.4.8A Standing Seam Ventilation with better quality image.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	15.4.7	15.4.9 Standing Seam Roofing Wind Loads	Change in recommendation.
4 - Clause Inserted		15.4.11 Tray Roof Flashing	Newly created clause.
3 - Substantial change to recommendation	15.5	15.5 Warm Roofs	The main clause Insulated Panels have been renamed Warm Roofs. In addition to insulated panels, the clause also features composite roofs and spray-on systems.
2 - Editing and rearrangement	15.5.1	15.5.1.1 Insulated Panel Manufacturing	The clause Design under Insulated Panels has been comprehensively reviewed and edited. It is now called Insulated Panel manufacturing. The rest of the content is available in smaller sub-clauses throughout the new clause 15.5.1 Insulated Panels .
4 - Clause Inserted		15.5.1 Insulated Panels	Newly created clause for Insulated Panels.
4 - Clause Inserted		15.5.1.2 Insulated Panel Composition	Newly created clause.
4 - Clause Inserted		15.5.1.3 Insulated Panel Face Profiles	Newly created clause.
4 - Clause Inserted		15.5.1.6 Insulation Panel Insulation Values	Newly created clause.
4 - Clause Inserted		15.5.1.8 Natural Lighting for Insulated Panels	Newly created clause.
4 - Clause Inserted		15.5.1.11 Insulated Panels Fitness for Purpose	Newly created clause.
4 - Clause Inserted		15.5.1.12 Insulated Panel Installation	Newly created clause.
4 - Clause Inserted		15.5.1.13 Insulated Panel Installation Safety	Newly created clause.
4 - Clause Inserted		15.5.1.15 Insulated Panel Penetrations	Newly created clause.
4 - Clause Inserted		15.5.1.17 Insulated Panel End Laps	Newly created clause.
2 - Editing and rearrangement	15.5.2	15.5.1.4 Insulated Panel Face Materials	The clause has been comprehensively reviewed and edited.
4 - Clause Inserted		15.5.2 Composite Systems	Newly created clause.
4 - Clause Inserted		15.5.2.1 Composite Systems Composition	Newly created clause.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		15.5.2.2 Composite System Installation	Newly created clause.
2 - Editing and rearrangement	15.5.3	15.5.1.5 Insulated Panel Core Materials	The clause has been comprehensively reviewed and edited.
4 - Clause Inserted		15.5.3 Spray-On Systems	Newly created clause.
4 - Clause Inserted		15.5.3.1 Ventilation of Spray-on Systems	Newly created clause.
2 - Editing and rearrangement	15.5.4	15.5.1.7 Insulation Panel Structure	This clause has been comprehensively reviewed and edited.
2 - Editing and rearrangement	15.5.4.1	15.5.1.14 Insulated Panels Supporting Structure	The clause has been comprehensively reviewed and renamed.
0 - Clause Removed	15.5.5	Thermal	Clause was removed during the revision of Insulated Panels.
0 - Clause Removed	15.5.5.1	Fire	Clause was removed during a revision of Insulated Panels.
2 - Editing and rearrangement	15.5.6	15.5.1.10 Insulated Panels and Internal Moisture	This clause has been comprehensively reviewed and renamed.
2 - Editing and rearrangement	15.5.7	15.5.1.9 Insulated Panel Acoustics	This clause has been comprehensively reviewed and edited.
3 - Substantial change to recommendation	15.5.8	15.5.1.16 Fixing Insulated Panels	This clause has been comprehensively revised and renamed.
2 - Editing and rearrangement	15.5.9	15.5.1.18 Insulated Panel Flashings	This clause has been comprehensively revised and renamed.
2 - Editing and rearrangement	17.3	17.3 MRM Soft Edge Standard	Editing for clarity.
4 - Clause Inserted		19.16 2022 – November	Revision summary for the November 2022 update.

19.17 2022 – June

The following revisions to the NZ Metal Roof and Wall Cladding Code of Practice were published on 1 June 2022.

Revised clauses:

Clause [15.4 Tray Roofing](#) and all its sub-clauses were comprehensively revised for this update.

Change in recommendation:

- [3.10.3 Aluminium Fastening Pattern Tables](#): Corrected minimum depth of corrugated aluminium to 17 mm instead of 27 mm.
- Added H36 to the headings for correct identification and product selection.

The rest of the updates consisted of minor changes, grammar fixes, and minor edits to improve clarity.

Revision Detail - 2022 - June

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	3.2	3.10.3 Aluminium Fastening Pattern Tables	Corrected minimum depth of corrugated aluminium to 17 mm instead of 27 mm. Added H36 to the headings for correct identification and product selection.
3 - Substantial change to recommendation	7.1.1	7.1.1 Minimum Roof Cladding Pitch	Added corrugated profiles with a height of more than 35 mm to 7.1.1A Minimum Pitch for Generic Metal Roofing .
3 - Substantial change to recommendation	8.3	8.4 Flashing Cover	Increased recommended cover for 8.4E Barge Flashing Cover – Trapezoidal and Secret Fixed and 8.4G Barge Flashing Cover – Corrugate Category C from 50 mm to 75 mm.
3 - Substantial change to recommendation	15.4	15.4 Tray Roofing	The entire clause 15.4 Tray Roofing , including all sub-clauses, had been revised.
3 - Substantial change to recommendation	15.4.3	15.4.1 Tray Roofing Materials	This sub-clause has been entirely revised as part of the revision of the main clause 15.4 Tray Roofing .
4 - Clause Inserted		15.4.2 Tray Roofing Profiles	New clause, inserted as part of a comprehensive revision of 15.4 Tray Roofing .
4 - Clause Inserted		15.4.5 Tray Fixings	New clause, inserted as part of a comprehensive revision of 15.4 Tray Roofing .
4 - Clause Inserted		15.4.6 Standing Seam End Laps	New clause, added as part of the comprehensive revision of 15.4 Tray Roofing .

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		15.4.7 Sarking	New clause, introduced as part of a comprehensive revision of 15.4 Tray Roofing .
4 - Clause Inserted		15.4.8 Tray Ventilation	New clause, introduced during a comprehensive review of 15.4 Tray Roofing .
4 - Clause Inserted		15.4.9 Standing Seam Roofing Wind Loads	New clause, introduced during comprehensive revision of 15.4 Tray Roofing .
4 - Clause Inserted		15.4.10 Penetrations on Tray Roofing	New clause, introduced during a comprehensive review of 15.4 Tray Roofing .
4 - Clause Inserted		15.4.12 Canning and Purlin Creasing	New clause, introduced as part of a comprehensive revision of 15.4 Tray Roofing .
4 - Clause Inserted		15.4.13 Installing Tray Cladding	New clause, introduced as part of a comprehensive revision of 15.4 Tray Roofing .
4 - Clause Inserted		15.4.13.1 Tray Cladding Set Out	New clause, introduced a during a comprehensive revision of 15.4 Tray Roofing .
4 - Clause Inserted		15.4.13.3 Provision for Expansion – Tray Roofing	New clause, introduced during a comprehensive revision of 15.4 Tray Roofing .
4 - Clause Inserted	19.1	19.17 2022 – June	Revision message June – 2022.
2 - Editing and rearrangement	1	1 Introduction	Update Revisions Message
2 - Editing and rearrangement	3.18	3.10.1 G550 Steel Roof Fastening Pattern Tables	Edited table headings for improved readability. Inserted a table explaining wind speed as per NZS 3604.
1 - Minor Errata	9.4.2.3	9.4.2.3 Cricket Back Curbs	Grammar fix. Rewrote the last sentence.
1 - Minor Errata	17.1.2.2.3	17.1.2.2.3 Number of Spans	Clarification.
0 - Clause Removed	15.4.1	Self-Supporting Cladding	Clause removed during a comprehensive revision of 15.4 Tray Roofing . The subject is now discussed through various new sub-clauses.
0 - Clause Removed	15.4.2	Fully Supported Roof And Wall Cladding	Clause removed during a comprehensive revision of 15.4 Tray Roofing . For information about the subject, see 15.4.7 Sarking .
0 - Clause Removed	15.4.2.1	Types	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.2.2	Traditional Architectural Metal Panels	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.2.3	Long Length Strip Roof Cladding	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.2.4	Types Of Joints	Clause removed as part of the overall revision of 15.4 Tray Roofing .

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	15.4.2.5	Standing Seam	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.2.6	Angled Seam	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.2.7	Roll Cap	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.2.8	Transverse Laps	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.3.1	Copper	Clause removed as part of the overall revision of 15.4 Tray Roofing . For information about this material, see 4.16.5 Copper .
0 - Clause Removed	15.4.3.2	Zinc	Clause removed as part of the complete revision of 15.4 Tray Roofing . For information about this material see 4.16.4 Zinc .
0 - Clause Removed	15.4.3.3	Aluminium	Clause removed as part of the complete revision of 15.4 Tray Roofing . For information about this material see 4.16.3 Aluminium .
0 - Clause Removed	15.4.3.4	Stainless Steel	Clause removed as part of the complete revision of 15.4 Tray Roofing . Information about this material can be found at 4.16.2 Stainless Steel .
0 - Clause Removed	15.4.3.5	Coated Steel	Clause removed as part of the revision of 15.4 Tray Roofing , information about this product is still available in 4.16.1 Steel .
0 - Clause Removed	15.4.4	Loadings	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.4.1	Fixing	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.4.2	Substrate	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.4.3	Fasteners	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.5	Underlay	Clause removed during a comprehensive revision of 15.4 Tray Roofing . Information about underlay can be found in 10.11 Underlay .
0 - Clause Removed	15.4.6	Ventilation	Clause removed during a comprehensive revision of 15.4 Tray Roofing . The subject is now discussed in 15.4.8 Tray Ventilation .
0 - Clause Removed	15.4.7	Drainage	Clause removed during a comprehensive revision of 15.4 Tray Roofing . For information about drainage, see 5 Roof Drainage .

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	15.4.7.1	Valleys	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.8	Facade Cladding	This clause was removed during a comprehensive revision of 15.4 Tray Roofing . The subject is now discussed through various other sub-clauses.
0 - Clause Removed	15.4.9	Edge Finishes	This clause was removed during a comprehensive revision of 15.4 Tray Roofing , please see the new sub-clause 15.4.6 Standing Seam End Laps .
0 - Clause Removed	15.4.9.1	Ridge And Hip	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.9.2	Apron Or Abutment	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.9.3	Eaves And Verge	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.9.4	Penetrations	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.9.5	Cappings	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.10	Durability	Clause removed during a comprehensive revision of 15.4 Tray Roofing . For durability issues, see 15.4.10 Durability .
0 - Clause Removed	15.4.10.1	Patina Formation	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.10.2	Copper Patination	Clause removed as part of the overall revision of 15.4 Tray Roofing .
0 - Clause Removed	15.4.10.3	Zinc Patination	Clause removed as part of the overall revision of 15.4 Tray Roofing .

19.18 2022 – April

The following revisions to the NZ Metal Roof and Wall Cladding Code of Practice were published on 1 April 2022.

Change in recommendation:

4.9.1 Dissimilar Metals: Gutters and spouting made from materials which are incompatible with the roof cladding to include special provisions such as a gap between spouting and fascia, using leaf deflectors, and considering low fronted spouting.

Revised clauses:

- **8.4 Flashing Cover:** Revision of the minimum requirements for flashing cover in the Metal Roofing Code of Practice. Drawings have been updated and a *category C* added for SED Wind Zones up to 60 m/s on all pitches.
- **10.10 Ventilation Pathways** has completely revised for clarity. The revision includes a new recommendation to provide additional ventilation for trough or tray section roofs.

The rest of the updates consisted of minor changes, editing, and new drawings for [14 Installation](#), without any changes in recommendations.

Revision Detail - 2022 - April

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	4.9.1, 4.10.1	4.9.1 Dissimilar Metals	Change of recommendation for spouting and roof cladding made from incompatible material.
3 - Substantial change to recommendation	8.3	8.4 Flashing Cover	Clause has been completely revised.
3 - Substantial change to recommendation	10.1	10.10 Ventilation Pathways	Clause revised for clarity.
2 - Editing and rearrangement	1	1 Introduction	Update Revisions Message
1 - Minor Errata	2.1, 2.1	2.1 Definitions	Added definition for SED Wind Zone.
2 - Editing and rearrangement	3.15, 3.13	3.4 Profiles	Inserted new Drawing: Profile Types –
2 - Editing and rearrangement	5.3.7	5.4.7 Gutter Capacity Calculator	Enabled Profile Description Field to describe product.
1 - Minor Errata	5.4.7	5.5.7 Valley Capacity Calculator	Standardise internal structure - no user facing or operational changes.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
1 - Minor Errata	5.6.3	5.7.3 Downpipe Capacity Calculator	Standardise internal structure - no user facing or operational changes.
2 - Editing and rearrangement	5.7.1	5.8.1 Maximum Area Above Spreader Calculator	Enabled Profile Description Field to describe product.
2 - Editing and rearrangement	7.1.4	7.1.4 Maximum Run Calculator	Enabled Profile Description Field to describe product.
2 - Editing and rearrangement	8.3.2	8.2.1 Flashing Edges	Copy moved from 8.4 Flashing Cover to this clause.
4 - Clause Inserted		8.4.1 Apron Upstands	New clause created from 8.4 Flashing Cover .
4 - Clause Inserted		8.4.2 Clearances and Minimum Slope	New clause created from 8.4 Flashing Cover .
4 - Clause Inserted		8.4.3 Ridging and Other Transverse Flashings	New clause created from 8.4 Flashing Cover .
1 - Minor Errata	8.4.4.4	8.5.4.4 Eaves Flashing	Corrected reference typo E1/AS1 to E2/AS1.
2 - Editing and rearrangement	9.4.4	9.4.4 Maximum Area Above Penetration Calculator	Enabled Profile Description Field to describe product.
1 - Minor Errata	10.10.1.2	10.10.1.2 Fascia Vents	Grammar fix.
4 - Clause Inserted		10.10.1.4 Vented Soft Edge	New clause.
2 - Editing and rearrangement	10.10.1	10.10.1 Methods of Ventilation	Clause renamed.
1 - Minor Errata	10.10.2	10.10.2 Battens	Grammatical fix for clarity.
4 - Clause Inserted		10.10.3 Applied Fleeces	New Clause.
2 - Editing and rearrangement	14.13.2	14.12.2 Screws	Updated drawings: 14.12.2D Screw Gauge and 14.12.2E Threads per Inch (TPI) .
2 - Editing and rearrangement	14.16	14.15 Stop-ends	Drawings updated: 14.15A Dog-eared Stop-ends , 14.15B Pull-up Stopends , and 14.15C Corrugate Stop-ends .
2 - Editing and rearrangement	14.17	14.16 Turndowns (Drip Forming or Drip Edging)	UPdated drawing: 14.16A Profile Turndown
2 - Editing and rearrangement	14.19.1	14.18.1 Roof Cladding Damage	Drawing updated: 14.18.1A Sealed and Riveted Saddle
2 - Editing and rearrangement	14.3.1	14.3.1 Unloading	Drawing updated: 14.3.1A Sling with Spreader Bar .
2 - Editing and rearrangement	14.6	14.5 Walking On Roofs	Drawings updated: 14.5A Walking in the Pan and 14.5B Spreading Weight over two Ribs .
4 - Clause Inserted		19.18 2022 – April	Revision message – April 2022.

19.19 2021 – December

The following revisions to the NZ Metal Roof and Wall Cladding Code of Practice were published on 1 December 2021.

Summary of Changes in this update:

- Update to [5A Capacity Calculations](#): These have now all been updated to require input of both 10 and 50 year ARI. This allows the calculators to automatically incorporate the correct ARI for the specifics of the project. Both values are retained when you select a different calculator or return for another project.
- Complete revision of clause [12.1 Roof Noise](#).
- Complete revision of clause [4.10.3 Solar Collectors and Other Roof Mounted Structures](#).
- Change of recommendation for [3.10.1 G550 Steel Roof Fastening Pattern Tables](#) in Extra High Wind Zones. Recommendation amended from C2 pattern to C3.

The rest of this update comprises minor edits and fixes.

Revision Detail - 2021 - December

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	3.17.1	3.11.2.1 Corrugated Steel – 0.40	Drawing edited to change C2 recommendation to stay below Very High.
3 - Substantial change to recommendation	3.17.2	3.11.2.2 Corrugated Steel – 0.55	Changed recommendation for C2, to only be used below Very High Wind Zones.
3 - Substantial change to recommendation	4.10.3	4.10.3 Solar Collectors and Other Roof Mounted Structures	Clause has been completely revised.
3 - Substantial change to recommendation	8.8	8.9 Compression Timber	Changed recommended minimum moisture content to 12% following advice from Scion .
3 - Substantial change to recommendation	12.1	12.1 Roof Noise	This clause has been substantially revised. Some-subsections have been promoted to headings and some had been deleted a part of the revision.
4 - Clause Inserted		12.1.1 Wind Noise	New clause, raised and revised from former sub-sub clause of Roof Noise.
4 - Clause Inserted		12.1.2 Precipitation Noise	Newly created clause from the revised Roof Noise.
4 - Clause Inserted		12.1.3 Thermal Noise	New clause, information elevated from the revised Roof Noise.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		19.19 2021 – December	Revision message for the 1 December 2021 Update.
2 - Editing and rearrangement	1	1 Introduction	Update Revisions Message
2 - Editing and rearrangement	5.3.7	5.4.7 Gutter Capacity Calculator	All calculators now require input of both 50 year and 10 year ARI.
2 - Editing and rearrangement	5.4.7	5.5.7 Valley Capacity Calculator	All calculators now require input of both 50 year and 10 year ARI.
2 - Editing and rearrangement	5.6.3	5.7.3 Downpipe Capacity Calculator	All calculators now require input of both 50 year and 10 year ARI.
2 - Editing and rearrangement	5.7.1	5.8.1 Maximum Area Above Spreader Calculator	All calculators now require input of both 50 year and 10 year ARI.
2 - Editing and rearrangement	7.1.4	7.1.4 Maximum Run Calculator	All calculators now require input of both 50 year and 10 year ARI.
2 - Editing and rearrangement	9.4.4	9.4.4 Maximum Area Above Penetration Calculator	All calculators now require input of both 50 year and 10 year ARI.
1 - Minor Errata	1.3	1.3 Standards and Related Documents	Fixed column spacing.
1 - Minor Errata	2.1	2.1 Definitions	Clarified definitions for tray, trough, standing seam, and secret fixed profiles.
1 - Minor Errata	3.6.2	3.7.4 Roof Traffic	Changed "trademan" to trades people for gender neutrality.
1 - Minor Errata	3.18	3.10.1 G550 Steel Roof Fastening Pattern Tables	Fixed grammar for consistency. Fixed drawings to show C2 fastening pattern.
2 - Editing and rearrangement	4.6.2	4.6.2 Environmental Guides	Envrinmental guides redone for improved display on all browsers.
1 - Minor Errata	15.1	15.1 Curved Roofs	Grammar fix.
1 - Minor Errata	16.8	16.8 Overpainting	slight formatting change for improved reading.

19.20 2021 – September

The following revisions to the NZ Metal Roof and Wall Cladding Code of Practice were published on 1 September 2021.

Summary of Changes in this update:

- In an important update, the recommendation for freeboard for internal gutters on the [5.4.7 Gutter Capacity Calculator](#) was changed to 30mm to align with E1/AS1 and E1/AS2.
- The recommendation for minimum suitable pitch for [9.1 Penetrations Minimum Pitch](#), has been amended to include modern proprietary profiles.
- New clauses with easy-to-use fastener pattern reference tables. The tables would cover most standard corrugated and trapezoidal cladding, for [3.10.1 G550 Steel Roof Fastening Pattern Tables](#) and [3.10.3 Aluminium Fastening Pattern Tables](#).
- Other new clauses were for [5.5.4 Intersecting Valleys](#) and [14.7 Double Lapping](#).
- The drawing in [5.8 Downpipe Spreaders](#) was replaced to give a clearer reflection of the downpipe design and using the online downpipe spreader capacity calculator.

The rest of this update consisted of fixing minor errors.

Revision Detail - 2021 - September

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	Introduction	Update Revisions Message
4 - Clause Inserted		3.10.1 G550 Steel Roof Fastening Pattern Tables	New clause aimed at easy reference of fastening patterns.
4 - Clause Inserted		3.10.3 Aluminium Fastening Pattern Tables	New clause for easy referencing of fastening patterns for aluminium cladding.
1 - Minor Errata		3.7.4 Roof Traffic	Changed "tradesman" to trades people for gender neutrality.
1 - Minor Errata		3.6.2 Uniformly Distributed Load (Wind or Induced Action)	Corrected spelling of "Uniformly. Included a full term before the abbreviation for UDL in the first sentence.
2 - Editing and rearrangement		5.4.3 Internal Corners	Clause moved from Valleys to Gutters.
3 - Substantial change to recommendation		5.4.7 Gutter Capacity Calculator	The minimum Freeboard on internal gutter calculations has been changed to 30mm to align with E1/AS1 and E1/AS2.
1 - Minor Errata		5.5.2 Valley Design	Inserted cross-reference link to Internal Corners.
4 - Clause Inserted		5.5.4 Intersecting Valleys	New clause showing the correct way to intersect valleys.
2 - Editing and rearrangement		5.8 Downpipe Spreaders	Replaced Downpipe Spreader Design-drawing with a more detailed one.
3 - Substantial change to recommendation		9.1 Penetrations Minimum Pitch	Revised first sentence to make allowance for modern profiles and proprietary profiles.
4 - Clause Inserted		14.7 Double Lapping	New clause.
4 - Clause Inserted		19.20 2021 – September	New Revision clause

19.21 2021 – June

The following updates to the NZ Metal Roof and Wall Cladding Code Practice (COP), are effective 1 June 2021.

COP Clauses [11 Natural Light](#) and [14 Installation](#) were comprehensively reviewed and revised for this update. Users are advised to reread those clauses for the most up-to-date information and recommendations.

Other updates included minor fixes to grammar, layout, and updated drawings and dividing [4.9.4 Compatibility Table](#) into smaller, more usable clauses (with no change to recommendations).

Revision Detail - 2021 - June

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	Update Revisions Message
1 - Minor Errata	3.5.2	3.5.2 Wind Load	Some rewording for clarity.
1 - Minor Errata	4.10.1	4.9.1 Dissimilar Metals	Editing for clarity.
2 - Editing and rearrangement	4.10.3	4.9.4 Compatibility Table	The clause was split for ease of use.
3 - Substantial change to recommendation	5.2.2.2	5.3.2.3 Allowance for Short-Term Intensities	Updated Short-term Intensity Factor Explanation.
1 - Minor Errata	5.4.2	5.5.2 Valley Design	Updated link to the Valley Capacity Calculator.
2 - Editing and rearrangement	8.4.4.4	8.5.4.4 Eaves Flashing	Inserted a paragraph recommending eaves flashings in Marine Environments.
2 - Editing and rearrangement	10.9	10.9 Minimising Ingress of Water Vapour into the Ceiling Cavity	Clause renamed and revised for clarity.
3 - Substantial change to recommendation	11	11 Natural Light	COP Clause 11. Natural Light has been completely revised.
3 - Substantial change to recommendation	11.1	11.1 Clause G7 NZBC	COP Clause 11. Natural Light has been entirely revised.
3 - Substantial change to recommendation	11.2	11.2 Natural Light Materials	COP clause 11. Natural Light has been revised, which includes the clause previously titled "Materials".

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	11.3	Types Of Roof Lights	This clause was removed as part of an overall revision of COP clause 11. Natural Light. Illustration of different rooflights can be found in Thermal Expansion and
3 - Substantial change to recommendation	11.4	11.5 Light Transmission	Clause has been revised as part of an overall revision of COP Clause 11. Natural Light.
0 - Clause Removed	11.5	Weathering And Durability	This clause has been removed as part of an overall revision of COP Clause 11. Natural Light. Information about translucent sheeting durability can now be found at Natural Light Performance - Durability,
3 - Substantial change to recommendation	11.6	11.3 Performance – Structure	Clause renamed and content added.
2 - Editing and rearrangement	11.6.1	11.3.1 Point Load on Translucent Sheets	Clause revised and renamed as part of the overall revision of COP Clause 11. Natural Light.
2 - Editing and rearrangement	11.6.2	11.3.2 Distributed Loads on Translucent Sheeting	Clause revised and renamed as part of the overall revision of COP Clause 11. Natural Light.
3 - Substantial change to recommendation	11.7	11.4 Thermal Resistance	Clause has been revised as part of an overall revision of COP Clause 11. Natural Light.
3 - Substantial change to recommendation	14	14 Installation	COP Clause 14. Installation has been significantly reviewed and revised.
1 - Minor Errata	14.1	14.10 Overhang	Drawing tidy up.
3 - Substantial change to recommendation	14.1	14.1 Pre-Installation	This clause has been revised as part of an overall revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.2.2	14.2.2 Ordering	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.2.3	14.2.3 Transportation	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.3	14.3 Accepting Delivery	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	14.3.1	14.3.1 Unloading	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.3.2	14.3.2 Wet Storage Damage	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.6	14.5 Walking On Roofs	This clause has been reviewed as part of a substantial overall revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.6.1	14.5.1 Footwear	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.7	14.6 Strippable Films	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
4 - Clause Inserted	14.7.1	14.6.1 Storing Product with Strippable Film	This clause has been removed as part of a substantial revision of COP Clause 14. Installation. For handling and storage of products with strippable film, please see Strippable Films.
0 - Clause Removed	14.7.2	Using Strippable Film	This clause has been removed as part of a substantial revision of COP Clause 14. Installation. For using and handling products with strippable film, please see Strippable Films.
1 - Minor Errata	14.9	14.9 Marking and Cutting	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
2 - Editing and rearrangement	14.12.2	14.12.2 Screws	Added "Reduced Diameter Drill Point" to Screw Points. This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
1 - Minor Errata	14.12.3	14.12.3 Clip Fasteners	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.12.4	14.12.4 Rivets	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
1 - Minor Errata	14.13	14.13 Fastener Installation	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted	14.15	14.15 Stop-ends	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
1 - Minor Errata	14.16	14.16 Turndowns (Drip Forming or Drip Edging)	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
1 - Minor Errata	14.18	14.18 Avoiding Problems	This clause has been renamed as part of an overall revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.18.1	14.18.1 Roof Cladding Damage	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.18.2	14.18.2 Water Ponding	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.18.3	14.18.3 Correctly Installed Gutters	This clause has been reviewed as part of a substantial revision of COP Clause .
3 - Substantial change to recommendation	14.18.4	14.18.4 Swarf Damage	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
0 - Clause Removed	14.18.4.1	Identifying Swarf Stains	This clause has been removed as part of a substantial revision of COP Clause 14. Installation.
3 - Substantial change to recommendation	14.18.4.2	14.18.4.1 Preventing Swarf Damage	This clause has been reviewed as part of a substantial revision of COP Clause 14. Installation.
0 - Clause Removed	14.18.4.3	Swarf Effect on Performance	This clause has been reviewed as part of an overall revision of COP Clause 14. Installation. For more information about swarf effects, please read Swarf Staining and Cut Edge Corrosion.
0 - Clause Removed	14.18.4.4	Repairing Swarf Damage	This clause has been reviewed as part of an overall revision of COP Clause 14. Installation. For more information about dealing with swarf, see Swarf Damage.
2 - Editing and rearrangement	14.18.5	14.18.5 Colour Matching Paint	Inserted picture. This clause has been reviewed as part of an overall revision of COP Clause 14. Installation.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	14.18.7	14.18.7 Sunscreen	Inserted photo of sunscreen damage. This clause has been reviewed as part of an overall revision of COP Clause 14. Installation.
0 - Clause Removed	14.18.8	Removing Lichen	This clause has been removed as part of an overall revision of COP Clause 14. Installation. For information about Lichen, see Lichen.
0 - Clause Removed	14.18.9	Gutter Installation	This clause has been removed as part of an overall revision of COP Clause 14. Installation. For Information about gutters, see Gutters.
1 - Minor Errata	14.19	14.19 Fixing Aluminium Sheeting	Grammar fix. This clause has been reviewed as part of an overall revision of COP Clause 14. Installation.
1 - Minor Errata	14.19.2	14.19.2 Recommendations for Fixing Aluminium	Fixed a link.
4 - Clause Inserted		11.8 Flatsheet Rooflights	New clause created as part of an overall revision of COP Clause 11. Natural Light.
4 - Clause Inserted		14.11.2 Side Laps	New clause created as part of a substantial revision of COP Clause 14. Installation.
4 - Clause Inserted		11.7 Stand-Alone Rooflights	New clause created as part of an overall revision of COP Clause 11. Natural Light.
4 - Clause Inserted		11.6 Installing Translucent Sheets	New clause under COP Clause 11. Natural Light.
4 - Clause Inserted		Natural Light Performance - Durability	New clause.
4 - Clause Inserted		11.1.1 Compliance	New clause dealing with natural light and compliance to NZBC G7.
4 - Clause Inserted		19.21 2021 – June	Revision message for the update on 1 June 2021.

19.22 2021 – March

The addition of an interactive calculator for asymmetrical valleys constitutes the most important inclusion in this update.

The other capacity calculators have all been refined and positioned for improved usability.

19.22A Capacity Calculators

Gutter Capacity	5.4.7 Gutter Capacity Calculator
Valley Capacity (both symmetrical and asymmetrical)	5.5.7 Valley Capacity Calculator
Downpipe Capacity	5.7.3 Downpipe Capacity Calculator
Maximum Area Above Spreaders	5.8.1 Maximum Area Above Spreader Calculator
Maximum Area Above Penetrations	9.4.4 Maximum Area Above Penetration Calculator
Maximum Run	7.1.4 Maximum Run Calculator

In addition, various drawings have been updated for accuracy and correctness.

The rest of this update consisted of fixing minor errors and improvements for clarity.

Revision Detail - 2021 - March

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and 1 rearrangement		1 Introduction	Update Revisions Message
1 - Minor Errata	2.1	2.1 Definitions	Added definitions for Translucent, Transparent, Opalescent, and Opaque.
1 - Minor Errata	3.13	3.4.5 Material Grade	Minor revision for Aluminium.
0 - Clause Removed	4.8	Biological Corrosion	Clause removed. 4.8.4 Lichen is now in 4.8 Paint Durability , and 4.10.9 Gutter Leaf Guard is now in 4.10 Other Causes of Corrosion .
2 - Editing and 5.3.7 rearrangement		5.5.7 Valley Capacity Calculator	Updated calculator to support Asymmetrical Valley calculations, including dynamic illustration.
2 - Editing and 5.5.2 rearrangement		5.8.1 Maximum Area Above Spreader Calculator	Clause edited, new clause (Downpipe Spreaders) introduced with explanatory text about spreaders. Trapezoidal illustration updated to show effective pan-depth area.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	5.6	5.4.2 Gutter Capacity Design	Clause renamed and moved to Types of Gutter.
1 - Minor Errata	5.6.2	5.4.2.3 Spouting Support Systems	Clause moved to Gutter Installation and Maintenance.
2 - Editing and rearrangement	5.6.3	14.18.9 Gutter Installation	Clause renamed and moved to Pre-empting Problems.
2 - Editing and rearrangement	5.7.1	5.8 Downpipe Spreaders	Previously removed clause, now reinstated and updated to align with the new Maximum Area Above Spreader Calculator.
1 - Minor Errata	5.7.2	5.4.2.1 Gutter Fall	Clause moved to Gutter Installation and Maintenance.
2 - Editing and rearrangement	5.7.5	5.7.3 Downpipe Capacity Calculator	Illustration updated to show effective head.
2 - Editing and rearrangement	5.8	5.4.7 Gutter Capacity Calculator	Rectangular Gutter illustration updated to show effective gutter area. Clause renamed to refine search results.
0 - Clause Removed	6.2	Acceptable Solution NZBC E2/AS1	Clause removed as it pertains to E2, which is discussed in NZBC Clause E2 External Moisture (Extract).
2 - Editing and rearrangement	6.2.1	6.2 Compliance	Clause promoted, replacing ES/AS1 at position 6.2, and content of clause reviewed.
2 - Editing and rearrangement	7.1.4	7.1.4 Maximum Run Calculator	Trapezoidal illustration updated to show effective pan-depth area.
2 - Editing and rearrangement	7.4	7.4 End Laps	Drawing deleted, replaced with a reference to 14.11.1 Sealing End Laps .
2 - Editing and rearrangement	8.7	8.8 Profile Closures	Clause revised. Recommendations have not changed. Drawings replaced with more accurate depictions.
2 - Editing and rearrangement	9.4.4	9.4.4 Maximum Area Above Penetration Calculator	Trapezoidal illustration updated to show effective pan-depth area.
2 - Editing and rearrangement	14.11.1	14.11.1 Sealing End Laps	Drawing replaced with with more accurate depiction of correctly and incorrectly sealed end laps.
1 - Minor Errata	15.4.4.2	15.4.4.2 Substrate	Removed empty link.
4 - Clause Inserted		19.22 2021 – March	New Revision clause.

19.23 2020 – December

The following revisions to the NZ Metal Roof and Wall Cladding Code of Practice were published on 1 December 2020.

Summary of Changes in this update:

We introduced three more responsive tools to aid in roof drainage design. They are:

- **7.1.4 Maximum Run Calculator:** Calculating the maximum roof length of any profile, at any pitch, and for any rainfall intensity to achieve effective roof drainage.
- **5.8.1 Maximum Area Above Spreader Calculator:** To calculate the maximum allowable area feeding into spreaders.
- **9.4.4 Maximum Area Above Penetration Calculator:** To calculate the maximum allowable area above roof penetrations.

The rest of this update consisted of fixing minor errors and improvements for clarity.

Revision Detail - 2020 - December

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	Update Revisions Message
1 - Minor Errata	1.3	1.3 Standards and Related Documents	Clause renamed.
1 - Minor Errata	4.10.1	4.9.1 Dissimilar Metals	Formatting fix.
1 - Minor Errata	4.10.3	4.9.4 Compatibility Table	Removed reference to Butly Rubber into its own clause 4.9.3 Compatibility with Non-Metallic Substances .
2 - Editing and rearrangement	4.12	4.11 Inert Catchment	Inserted photo "Localised Damage due to Inert Catchment".
1 - Minor Errata	5.2.4.6	5.5.6 Asymmetrical Valleys	Punctuation fix.
2 - Editing and rearrangement	5.2.5	7.1.3 Roof Drainage Capacity	Clause renamed to more accurately reflect its content.
4 - Clause Inserted	5.4.3	5.8.1 Maximum Area Above Spreader Calculator	New online tool for calculating maximum drainage areas for spreaders.
1 - Minor Errata	5.5	5.4.2 Gutter Capacity Design	Grammar fix.
2 - Editing and rearrangement	5.6.3	5.3.2 Rainfall Intensity	Rainfall intensity maps have been added to this clause. Links to rainfall maps have been included in the calculators.
1 - Minor Errata	5.6.3.2	5.3.2.3 Allowance for Short-Term Intensities	Updated short-term intensity multiplication factors.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	5.7	5.4.7 Gutter Capacity Calculator	Renamed the clause. Other capacity calculators have been moved closer to the relevant information dealing with each topic.
0 - Clause Removed	5.7.1	North Island 50-year ARI, 10-minute Rainfall Intensity Map	Map moved to 5.3.2 Rainfall Intensity .
0 - Clause Removed	5.7.2	South Island 50-year ARI, 10-minute Rainfall Intensity Map	Map moved to 5.3.2 Rainfall Intensity .
3 - Substantial change to recommendation	7.1.2	7.1.2 Runoff Capacity	Clause completely revised.
4 - Clause Inserted	7.1.3	7.1.4 Maximum Run Calculator	New online tool to calculate maximum run for drainage of different roofing profiles.
2 - Editing and rearrangement	8.4.4.4	8.5.4.4 Eaves Flashing	Inserted a paragraph recommending eaves flashings in Marine Environments.
1 - Minor Errata	9.4.2	9.4.2 Curb Design	Introductory copy added.
4 - Clause Inserted	9.4.4	9.4.4 Maximum Area Above Penetration Calculator	New online tool for calculating the maximum area above a penetration.
1 - Minor Errata	17.2.3.1	17.2.3.1 Site Testing	Updated the graph.
4 - Clause Inserted		4.9.3 Compatibility with Non-Metallic Substances	A new clause, previously part of "4.10.3 Compatibility Table". Information was split since this is not part of the table or online tool.
4 - Clause Inserted		5.5.7 Valley Capacity Calculator	New clause created for Valley Capacity Calculator. The calculator was previously part of Capacity Calculators.
4 - Clause Inserted		5.7.3 Downpipe Capacity Calculator	New clause for Downpipe Capacity Calculators.
4 - Clause Inserted		19.23 2020 – December	New clause showing updates effective on 1 December 2020.

19.24 2020 – September

The following updates to the NZ Metal Roof and Wall Cladding Code Practice (COP) were published on 1 September 2020.

Summary of Changes in this update:

- New standard added for [17.4 MRM Pre-Painted Coil Standard – Performance Requirements](#).
- Additional information on salt contamination added to [4.2 Metal Corrosion](#).
- Revised [2.1 Definitions](#) of Gutter and Valley.
- The rest of this update consisted of fixing minor errors and improvements for clarity.

Revision Detail - 2020 - September

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and 1 rearrangement	1	Introduction	Update Revisions Message
2 - Editing and 2.1 rearrangement	2.1 Definitions		Revised definitions of Gutter and Valley.
2 - Editing and 4.2 rearrangement	4.2 Metal Corrosion		Added paragraph about salt contamination.
1 - Minor Errata	5.7	5.4.7 Gutter Capacity Calculator	Clarity improvement. Inserted the Comment: "Please read with Roof Drainage Design "
1 - Minor Errata	9.3	9.3 Penetration Durability and Compatibility	Renamed clause to be more reflective of its content.
1 - Minor Errata	12.4.1	12.6.1 Touch-Up	Changed punctuation in heading for consistency.
2 - Editing and 15.2 rearrangement	15.2 Mounting Air Conditioning, Aerials, and Solar Units		Clause has been renamed and new copy included.
2 - Editing and 17 rearrangement	17 Testing and MRM Standards		Added introduction.
1 - Minor Errata	18.6	18.6 Velocities	Removed extra heading.
1 - Minor Errata	18.7	18.7 Cricket Penetration Patterns	Fixed headings.
4 - Clause Inserted		17.4 MRM Pre-Painted Coil Standard – Performance Requirements	New clause.
4 - Clause Inserted		17.4.1 Part1: AS/NZS 2728:2013	New clause.
4 - Clause Inserted		17.4.2 Part 2: Additional Criteria	New clause.

Category	Clause Number (at time of update)	Clause (As of current publication)Details
4 - Clause Inserted		17.4.3 Commentary New clause.
4 - Clause Inserted		17.4.4 Appendices of AS/NZS 2728:2013 included as Normative in the MRM Standard New clause.
4 - Clause Inserted		17.4.5 Appendices of AS/NZS 2728:2013 considered Informative in the MRM Standard: New clause.
4 - Clause Inserted		17.4.6 Copyright Acknowledgement New clause.

19.25 2020 – June

The following updates to the NZ Metal Roof and Wall Cladding Code Practice (COP), are effective 1 June 2020.

New clauses:

- In this update, we included new clauses concerning [17.2 MRM Fastener Performance Requirements and Testing](#) and [17.3 MRM Soft Edge Standard](#).
- We updated [3.9 Fastener Requirements and Overhangs](#) to include [3.11.3 Aluminium Cladding Wind Load Span Graphs](#).
- We added a new table [5.3.3 Minimum Freeboard Values](#) to [5.3 Roof Drainage Design](#) and implemented interface refinements to [5.4.7 Gutter Capacity Calculator](#).

The rest of this update consists of minor improvements, such as tidying up drawings and edits for clarity and grammar.

Revision Detail - 2020 - June

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	Update Revisions Message
2 - Editing and rearrangement	3.16.4	3.9.3 Fastener Patterns	Fastener pattern illustrations updated for clarity - no change to intent.
2 - Editing and rearrangement	3.16.5	3.11.2 Steel Cladding Wind Load Span Graphs	Clause renamed.
2 - Editing and rearrangement	3.16.5.1	3.11.2.1 Corrugated Steel – 0.40	Clause renamed and Fastener pattern illustrations updated for clarity - no change to intent.
2 - Editing and rearrangement	3.16.5.3	3.11.2.2 Corrugated Steel – 0.55	Clause renamed and Fastener pattern illustrations updated for clarity - no change to intent.
2 - Editing and rearrangement	3.16.5.2	3.11.2.3 Trapezoidal Five Rib Steel – 0.40	Clause renamed and Fastener pattern illustrations updated for clarity - no change to intent.
2 - Editing and rearrangement	3.16.5.4	3.11.2.4 Trapezoidal Five Rib Steel – 0.55	Clause renamed and Fastener pattern illustrations updated for clarity - no change to intent.
2 - Editing and rearrangement	3.16.5.5	3.11.2.5 Trapezoidal Six Rib Steel – 0.40	Clause renamed and Fastener pattern illustrations updated for clarity - no change to intent.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	3.16.5.6	3.11.2.6 Trapezoidal Six Rib Steel – 0.55	Clause renamed and Fastener pattern illustrations updated for clarity - no change to intent.
4 - Clause Inserted		3.11.3 Aluminium Cladding Wind Load Span Graphs	New clause.
4 - Clause Inserted		3.11.2.1 Corrugated Aluminium – 0.70	New Clause for Aluminium Cladding Wind Load Span Graphs.
4 - Clause Inserted		3.11.3.1 Corrugated Aluminium – 0.90	New Clause for Aluminium Cladding Wind Load Span Graphs.
4 - Clause Inserted		3.11.2.3 Trapezoidal Five Rib Aluminium – 0.70	New Clause for Aluminium Cladding Wind Load Span Graphs.
4 - Clause Inserted		3.11.3.2 Trapezoidal Five Rib Aluminium – 0.90	New Clause for Aluminium Cladding Wind Load Span Graphs.
3 - Substantial change to recommendation	5.6.3	5.3.2 Rainfall Intensity	Clause had been completely revised, with updated Rainfall Intensity Maps at the end of the main Clause, Roof Drainage.
1 - Minor Errata	5.6.3.1	5.3.2.2 Duration	Replaced comparison chart with a simplified one.
2 - Editing and rearrangement	8.3	8.4 Flashing Cover	Added minimum flashing cover values for change of pitch junctions.
4 - Clause Inserted		17 Testing and MRM Standards	New clause.
2 - Editing and rearrangement	17	17.1 Metal Cladding Testing	Clause renamed.
1 - Minor Errata	17.5.1	17.1.5.1 Allowance for Variation	Fixed "overall" to "over all"
4 - Clause Inserted		17.2 MRM Fastener Performance Requirements and Testing	New clause.
4 - Clause Inserted		17.2.1 Requirements for Fastener Testing	New clause.
4 - Clause Inserted		17.2.2 Test Panel Requirements	New Clause.
4 - Clause Inserted		17.2.2.1 Test Location	New Clause.
4 - Clause Inserted		17.2.2.2 Site Orientation	New Clause.
4 - Clause Inserted		17.2.2.3 Preparation of Test Panel	New Clause.
4 - Clause Inserted		17.2.3 Fastener Performance Testing	New Clause.
4 - Clause Inserted		17.2.3.1 Site Testing	New clause.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		17.2.3.2 Field Performance Validation	New clause.
4 - Clause Inserted		17.2.3.3 Accelerated Testing	New clause.
4 - Clause Inserted		17.2.3.4 Fastener Shanks	New clause.
4 - Clause Inserted		17.2.3.5 Sealing Washer Conductivity	New clause.
4 - Clause Inserted		17.2.4 Appearance	New clause.
4 - Clause Inserted		17.2.5 Weatherproofing	New Clause.
4 - Clause Inserted		17.2.6 Fastener Performance Test Report	New clause.
4 - Clause Inserted		17.3 MRM Soft Edge Standard	New clause.
4 - Clause Inserted		17.3.1 Soft Edge Product Technical Statement Requirements	New clause.
4 - Clause Inserted		19.25 2020 – June	New clause. Revision detail.
0 - Clause Removed	5.5	Gutters	The clause had been removed. Gutters are now discussed in more detail in a separate clause for each type, under the main clause Types of Gutter.

19.26 2020 – March

The following updates to the NZ Metal Roof and Wall Cladding Code Practice (COP), are effective 1 March 2020.

This update contains only minor revisions, mostly concerning grammar and punctuation fixes.

Editing and rearrangement for clarity

- Corrected "upstand angles" of valleys to 90°, removed "Upstand Angles" from Internal Valley Angle Table.
- Replaced Comparison of 10-Minute Published Intensity with 1-Minute and 2-Minute Intensities-chart with a simplified chart only showing comparison for 10-year and 50-year ARI.

Revision Detail - 2020 - March

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and 1 rearrangement		1 Introduction	Update Revisions Message
1 - Minor Errata	5.2	5.4 Gutters	Easier to read layout options.
1 - Minor Errata	5.2.1	5.4.1 External Gutters (Spouting)	Grammar fix.
1 - Minor Errata	5.2.3	5.4.5 Internal Gutters	Grammar fix.
2 - Editing and 2 rearrangement	5.2.4.2	5.5.2 Valley Design	Removed references to "Upstand Angle B" and replaced drawing "Common Valley Shapes"
1 - Minor Errata	5.2.4.6	5.5.6 Asymmetrical Valleys	Punctuation fix.
1 - Minor Errata	5.3.1	5.6.1 Rainwater Heads	Punctuation fix.
1 - Minor Errata	5.3.2	5.6.2 Sumps	Typo fix.
1 - Minor Errata	5.4	5.7 Downpipes	Punctuation fix.
1 - Minor Errata	5.5.3	14.18.9 Gutter Installation	Minor Typo Fix.
1 - Minor Errata	5.6.2	5.4.2.1 Gutter Fall	Typo fix.
1 - Minor Errata	5.6.3.1	5.3.2.2 Duration	Replaced comparison chart with a simplified one.
1 - Minor Errata	8.9.1	8.10.1 Flashing Expansion	Grammar fix.

19.27 2019 – December

The following updates to the NZ Metal Roof and Wall Cladding Code Practice (COP), are effective 1 December 2019.

Major Revisions

- For this update, the COP section [5 Roof Drainage](#) and all its sub-clauses have been substantially revised. The updates focussed heavily on creating new online tools for calculating *Roof Drainage*, *Gutter Capacity*, *Downpipe Capacity* and *Valley Capacity*, which are located in [5.4.7 Gutter Capacity Calculator](#).

Summary of other changes in this update

- All the content in [5 Roof Drainage](#) has been updated to provide clarity and brevity, and detail drawings are updated.
- The previous methods of capacity calculations, using two distinct methods based on standard sizes, have been removed and replaced by online calculator in [5.4.7 Gutter Capacity Calculator](#).
- New clauses have been added for [17.1.3.2 Point Load Testing](#) and [17.1.1.2 Point Load Testing Standard](#) under [17.1 Metal Cladding Testing](#).
- The Glossary has been updated with [2.1A Definitions](#) for Swiss Gable, Finial, and Profiled Washer; and some minor edits to refine definitions and grammar fixes.

Revision Detail - 2019 - December

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	1	1 Introduction	Update Revisions Message
2 - Editing and rearrangement	2.1	2.1 Definitions	Revised definition of "Load Spreading Washer", added a new item "Profiled Washer", added definition for "Finial", minor grammatical fixes.
2 - Editing and rearrangement	5	5 Roof Drainage	The entire Roof Drainage-clause had been revised.
1 - Minor Errata	5.1	5.1 NZBC: Clause E1 – Surface Water	Formatting
4 - Clause Inserted		5.4 Gutters	New clause.
4 - Clause Inserted		5.4.1 External Gutters (Spouting)	New clause.
2 - Editing and rearrangement	5.5.5	5.4.4 Concealed Fascia Gutters	This clause had been completely revised and renamed.
2 - Editing and rearrangement	5.5.4	5.4.5 Internal Gutters	Clause completely revised.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		5.4.5.1 Internal Gutter Design Features	New clause.
2 - Editing and rearrangement	5.6	5.5 Valleys	Valleys had been completely revised and divided into smaller, more specific, sections.
4 - Clause Inserted		5.5.1 Valley Fixing	New clause.
4 - Clause Inserted		5.5.2 Valley Design	New clause.
4 - Clause Inserted		5.4.3 Internal Corners	New clause.
2 - Editing and rearrangement	5.6.2	5.5.3 Bifurcated Valleys	The clause had been revised. Valleys are now discussed in smaller, more specific, clauses.
4 - Clause Inserted		5.5.5 Changing Angles in Valleys	New clause.
4 - Clause Inserted		5.5.6 Asymmetrical Valleys	New clause.
4 - Clause Inserted		7.1.3 Roof Drainage Capacity	New clause.
3 - Substantial change to recommendation	5.5.7	5.4.6 Secret Gutters	Clause revised, for brevity and clarity.
4 - Clause Inserted		5.6 Outlets	New clause.
2 - Editing and rearrangement	5.8.1	5.6.1 Rainwater Heads	Clause revised, now providing more information.
2 - Editing and rearrangement	5.8	5.6.2 Sumps	This clause has been revised.
2 - Editing and rearrangement	5.8.2	5.6.3 Overflows	Clause renamed, Outlets are now discussed under Outlets and Downpipes.
4 - Clause Inserted		5.7 Downpipes	New clause.
4 - Clause Inserted		5.7.1 Placement of Downpipes	New clause.
4 - Clause Inserted		5.7.2 Capacity Table for Common Size Downpipes	New clause.
2 - Editing and rearrangement	5.5.1	5.4.2 Gutter Capacity Design	Clause has been revised and edited.
4 - Clause Inserted		5.4.2.2 Maximum Gutter Length	New clause.
2 - Editing and rearrangement	5.5.2	5.4.2.3 Spouting Support Systems	Clause revised.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		14.18.9 Gutter Installation	New clause.
2 - Editing and rearrangement	5.2	5.3 Roof Drainage Design	Clause had been completely revised.
2 - Editing and rearrangement	5.3.1	5.3.1 Catchment Area	Clause has been completely revised. All calculations are now under a new clause Capacity Calculations.
2 - Editing and rearrangement	5.5.8	5.4.2.1 Gutter Fall	Clause revised and renamed.
3 - Substantial change to recommendation	5.3	5.3.2 Rainfall Intensity	Clause had been completely revised, with updated Rainfall Intensity Maps at the end of the main Clause, Roof Drainage.
4 - Clause Inserted		5.3.2.3 Allowance for Short-Term Intensities	New clause.
4 - Clause Inserted		5.3.2.2 Duration	New clause
2 - Editing and rearrangement	5.3.2	5.4.7 Gutter Capacity Calculator	The old clause, Capacity Calculations, replaced by a new clause of the same name but including new online tools.
4 - Clause Inserted		5.7.1 North Island 50-year ARI, 10-minute Rainfall Intensity Map	New clause.
4 - Clause Inserted		5.7.2 South Island 50-year ARI, 10-minute Rainfall Intensity Map	New clause.
4 - Clause Inserted	8.3	8.4 Flashing Cover	Adjusted spacing in Table 8.3A
2 - Editing and rearrangement	8.4.4.3	8.5.4.3 Step Apron	Removed reference to "Fortress Fasteners" in drawing A: Step Apron Details.
4 - Clause Inserted	8.4.4.4	8.5.4.4 Eaves Flashing	Drawing 8.4.4.4A renamed to Gutter Flashing.
2 - Editing and rearrangement	12.2	12.2 Purlin Creasing	Inserted photograph.
4 - Clause Inserted	17.1.2	17.1.1.2 Point Load Testing Standard	New Clause.
4 - Clause Inserted	17.3.2	17.1.3.2 Point Load Testing	New clause.
1 - Minor Errata	18.8	18.8 Sheet Metal Work For Roofing Contractors.	Clause revised for gender neutrality. No significant changes.
4 - Clause Inserted		19.27 2019 – December	Summary of Changes – December 2019

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	5.3.2.1	Method 1: Gutter and Downpipe Capacity Determined by Graph	These methods have been replaced by online capacity calculating tools.
0 - Clause Removed	5.3.2.3	Method 2: Gutter and Downpipe Capacity Determined by Calculations	These methods have been replaced by online capacity calculating tools.
0 - Clause Removed	5.3.3	Roof Cladding Capacity	These methods have been replaced by online capacity calculating tools.
0 - Clause Removed	5.4	Snow	Clause removed, Snow and hail are comprehensively discussed in Snow Loads.
0 - Clause Removed	5.4.1	Hail	Clause removed. Leaf guards and maintenance are discussed under Gutter Maintenance.
0 - Clause Removed	5.5	Gutters	The clause had been removed. Gutters are now discussed in more detail in a separate clause for each type, under the main clause Types of Gutter.
0 - Clause Removed	5.5.3	Eaves Gutters	Clause deleted. Now discussed under External Gutters.
0 - Clause Removed	5.6.1	Valley Catchment	This clause had been replaced with the newly developed online tool in Valley Capacity Calculations.
0 - Clause Removed	5.7	Downpipes	Information previously contained in this clause is now discussed in Outlets and Downpipes.
Out-of-band updates 16/12/2019			
2 - Editing and rearrangement	5.4.2A	5.7.2 Capacity Table for Common Size Downpipes	Removed obsolete column for Roof Area Drained as the online calculator replaces this.
2 - Editing and rearrangement	5.7	5.4.7 Gutter Capacity Calculator	Added link to Common Sized Downpipes.

19.28 2019 – August

The following updates to the NZ Metal Roof and Wall Cladding Code Practice (COP), are effective 1 August 2019.

Major Revisions

1. The main clause [17.1 Metal Cladding Testing](#) was substantially revised to give more practical guidance for testing in accordance with the NZ MRM Code of Practice.
2. The main clause [13 Safety](#) has been substantially revised and updated to closer reflect the Health and Safety at Work Act 2015, referencing the documents [Worksafe: Working on Roofs](#) and [Worksafe: Working at Height in New Zealand](#).
3. The sub-clause [14.19A Fixing Aluminium](#) has been substantially revised to better reflect good trade practice and manufacturers' recommendations.

Summary of other changes in this update

- [9.4 Penetration Design](#) has been reorganised so sheetmetal back curb designs are now shown in different clauses for corrugated and trapezoidal profiles.
- [9.4 Penetration Design](#) now includes an easy-use-use guide for penetration flashing design.
- Previously missing design details have been added for [9.4.2.6F Cricket Under-Soaker: Trapezoidal](#) and [9.4.2.6D Arrowhead Under-Soaker: Trapezoidal](#).
- Trough Section and Standing Seam have been added to [3.4 Profiles](#) descriptions in Structure.

Revision Detail - 2019 - August

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		19.28 2019 – August	Summary of Changes – August 2019
1 - Minor Errata	10.5	10.5 Building Airtightness	Minor erata: changed 36.2 to 3602
0 - Clause Removed	9.4	Penetration Positioning	Clause is now included in Penetration Design.
2 - Editing and rearrangement	9.5	9.4 Penetration Design	Revised clause. Penetration Positioning is now included in this clause.
1 - Minor Errata	14.8	14.8 Setting Out	Typo correction
4 - Clause Inserted	9.6	9.5 Boot Flashings	Changed the word profile to profiles for consistency with the rest of the document.
4 - Clause Inserted		9.4.2.4 Penetration Flashings Reference	New clause to compare penetration flashing options.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	9.5.3	9.4.1.2 Under-Soaker Back Flashings	Clause renamed for consistency.
1 - Minor Errata	9.5.4.3	9.4.2.3 Cricket Back Curbs	Changed kerb to curb for consistency.
1 - Minor Errata	8.3	8.4 Flashing Cover	Corrected a misprint, removed <20mm from aprons, category B.
1 - Minor Errata	14.13.4	14.13.4 Fastener Allowance for Expansion	Fixed 8 mm for style consistency.
2 - Editing and rearrangement	14.12.1	14.12.1 Nails	Photo of Nail Pull-Out inserted.
4 - Clause Inserted		14.19.1 Painted Aluminium	Newly created clause dealing with Painted Aluminum products
4 - Clause Inserted		14.19.2 Recommendations for Fixing Aluminium	Newly created clause setting out COP recommendations for fixing aluminium cladding.
0 - Clause Removed	13	Site Practice	Clause removed. Topics previously discussed in Site Practice is now dealt with in more detail in various clauses under Installation.
3 - Substantial change to recommendation	13.1	13 Safety	Safety has been updated in accordance with the Health and Safety at Work Act 2015 (HSWA 2015).
3 - Substantial change to recommendation	13.1.1	13.2 Responsibilities	Clause updated in accordance with the Health and Safety at Work Act (HSWA) 2015.
3 - Substantial change to recommendation	13.1.7	13.4.1 Scaffolding	Clause has been substantially revised in accordance with Worksafe: Working at height in New Zealand.
3 - Substantial change to recommendation	13.1.10	13.4.3 Safety Mesh	This clause has been substantially revised in accordance with Worksafe: Working at Height in New Zealand.
4 - Clause Inserted		13.4.6 Safety Harness	New clause.
4 - Clause Inserted		13.4.7 Soft Landing Systems	New clause.
2 - Editing and rearrangement	14.21	14.21 Tools Of The Trade	Picture added: Turn Up and Turn Down Tools.
2 - Editing and rearrangement	9.5.2	9.4.1.1 Overflashed Backflashings	Clause has been renamed.
0 - Clause Removed	13.1.2	Training	Clause removed. Whole main clause (Safety) has been substantially revised in accordance with HSWA 2015 and Worksafe guidelines.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	13.1.5	Limitations Of Fall Arrest And Travel Restraint	Clause removed. Whole main clause (Safety) has been substantially revised in accordance with HSWA 2015 and Worksafe guidelines.
0 - Clause Removed	13.1.4	Residential And Light Commercial Roofing	Clause removed. Whole main clause (Safety) has been substantially revised in accordance with HSWA 2015 and Worksafe guidelines.
0 - Clause Removed	13.1.13	Roof Access During Construction	Clause removed. Whole main clause (Safety) has been substantially revised in accordance with HSWA 2015 and Worksafe guidelines.
0 - Clause Removed	13.1.12	Joining Safety Mesh	Clause removed. Whole main clause (Safety) has been substantially revised in accordance with HSWA 2015 and Worksafe guidelines.
0 - Clause Removed	13.1.11	Steel Fixing	Clause removed. Whole main clause (Safety) has been substantially revised in accordance with HSWA 2015 and Worksafe guidelines.
0 - Clause Removed	13.1.9	Personal Safety	Clause removed. Whole main clause (Safety) has been substantially revised in accordance with HSWA 2015 and Worksafe guidelines.
0 - Clause Removed	13.1.8	Mobile Scaffolds	Clause removed. Whole main clause (Safety) has been substantially revised in accordance with HSWA 2015 and Worksafe guidelines.
0 - Clause Removed	13.1.6	Access	Clause removed. Whole main clause (Safety) has been substantially revised in accordance with HSWA 2015 and Worksafe guidelines.
4 - Clause Inserted		13.4.5 Mechanical Access Plant	New clause.
4 - Clause Inserted		13.4.4 Safety Netting	New clause.
4 - Clause Inserted		13.3.3 Weather Conditions	New clause.
4 - Clause Inserted		13.3.2 Assessment of Existing Roof Cladding	New clause.
4 - Clause Inserted		13.3.1 Safe Access to Roofs	New clause.
4 - Clause Inserted		13.3 Working on Roofs	New clause.
4 - Clause Inserted		13.2.4.1 Other People's Responsibilities	New clause.
4 - Clause Inserted		13.2.4 Other People	New clause.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		13.2.1 PCBU	New clause.
4 - Clause Inserted		13.2.3.1 Workers' Responsibilities	New clause.
4 - Clause Inserted		13.2.3 Workers	New clause.
4 - Clause Inserted		13.2.2.1 Officer Responsibilities	New clause.
4 - Clause Inserted		13.2.2 Officers	New clause.
4 - Clause Inserted		13.2.1.1 PCBU Responsibilities	New clause.
4 - Clause Inserted	9.5.5	9.4.2.5 Penetration Flashings on Corrugated Profiles	This clause has been revised and renamed to specifically show sheetmetal flashings on corrugated profiles.
4 - Clause Inserted		3.15.4 Standing Seam	New clause.
4 - Clause Inserted		3.4.4 Secret-fixed Profiles	New clause.
2 - Editing and rearrangement	14.3.2	14.3.2 Wet Storage Damage	Removed reference to "Fretting".
2 - Editing and rearrangement	2.1	2.1 Definitions	Updated Glossary item: "Fretting"
2 - Editing and rearrangement	4.12	4.11 Inert Catchment	Inserted photo "Localised Damage due to Inert Catchment".
1 - Minor Errata	14.4	14.4 Site Safety	Fixed link: Safety
1 - Minor Errata	14.5	14.5 Handling	Minor grammatical fix.
1 - Minor Errata	14.7.1	14.6.1 Storing Product with Strippable Film	Grammar fix.
1 - Minor Errata	14.7.2	14.7.2 Using Strippable Film	Grammar fix.
1 - Minor Errata	14.1	14.10 Overhang	Drawing tidy up.
4 - Clause Inserted		17.1 Metal Cladding Testing	New Clause, to replace Testing.
4 - Clause Inserted		17.1.1 Standards: AS Standards and COP Testing Standard	New clause.
4 - Clause Inserted		17.1.2 Test Requirements	New Clause
4 - Clause Inserted		17.1.2.1 Supporting Structure and Equipment	New Clause
4 - Clause Inserted		17.1.2.2 Test Set-up	New clause.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted		17.1.2.2.1 Number of Specimens	New clause.
4 - Clause Inserted		17.1.2.2.2 Width of Specimen	New clause.
4 - Clause Inserted		17.1.2.2.3 Number of Spans	New clause.
4 - Clause Inserted		17.1.3 Testing Procedure	New clause.
4 - Clause Inserted		17.1.3.1 UDL Testing	New clause.
4 - Clause Inserted		17.1.5 Publishing Results	New clause.
4 - Clause Inserted		17.1.5.1 Allowance for Variation	New clause.
0 - Clause Removed	17	Testing	The entire clause Testing has been substantially revised and published as Structural Testing to give better guidance on testing according to the Code of Practice Standards.
0 - Clause Removed	17.2	Background to Scope	The entire clause Testing has been substantially revised and published as Structural Testing to give better guidance on testing according to the Code of Practice Standards.
0 - Clause Removed	17.1	Scope	The entire clause Testing has been substantially revised and published as Structural Testing to give better guidance on testing according to the Code of Practice Standards.
0 - Clause Removed	17.3	General Methods Of Testing Sheet Roof And Wall Cladding	The entire clause Testing has been substantially revised and published as Structural Testing to give better guidance on testing according to the Code of Practice Standards.
0 - Clause Removed	17.4	Commentary On 16.3	The entire clause Testing has been substantially revised and published as Structural Testing to give better guidance on testing according to the Code of Practice Standards.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	17.5	Determining Wind load Span Graphs	The entire clause Testing has been substantially revised and published as Structural Testing to give better guidance on testing according to the Code of Practice Standards.
0 - Clause Removed	17.6	Specific Methods Of Testing Sheet Roof And Wall Cladding	The entire clause Testing has been substantially revised and published as Structural Testing to give better guidance on testing according to the Code of Practice Standards.
0 - Clause Removed	17.7	Wind and Point Load Testing	The entire clause Testing has been substantially revised and published as Structural Testing to give better guidance on testing according to the Code of Practice Standards.
0 - Clause Removed	17.8	Method: Resistance To Wind Pressures For New Zealand	The entire clause Testing has been substantially revised and published as Structural Testing to give better guidance on testing according to the Code of Practice Standards.
0 - Clause Removed	17.9	Background to wind load testing	The entire clause Testing has been substantially revised and published as Structural Testing to give better guidance on testing according to the Code of Practice Standards.
4 - Clause Inserted		17.1.5.3 Interpreting Point Load Results	New clause.
4 - Clause Inserted		17.1.3.2 Point Load Testing	New clause.
4 - Clause Inserted		17.1.1.1 UDL Load Testing Standard	New clause.
4 - Clause Inserted		9.4.2.7 Cricket Over-Flashing More Than 1 m Wide	New clause.
4 - Clause Inserted		9.4.3 Dormer Details	New clause.
4 - Clause Inserted		17.1.1.2 Point Load Testing Standard	New Clause.
1 - Minor Errata	14.2.2	14.2.2 Ordering	Punctuation fix.
3 - Substantial change to recommendation	13.1.3.1	13.4.2 Roof Edge Protection	Clause has been substantially revised in accordance with Worksafe: Working at Height in New Zealand.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
3 - Substantial change to recommendation	13.1.3	13.4 Working At Height	Clause has been substantially revised in accordance with the HSWA 2015.
4 - Clause Inserted		9.4.2.6 Penetration Flashings on Trapezoidal Profiles	New clause, specifically showing penetration flashings on trapezoidal profiles.
3 - Substantial change to recommendation	14.19	14.19 Fixing Aluminium Sheeting	Section comprehensively revised to better reflect good trade practice and Manufacturer's recommendations.
2 - Editing and rearrangement	3.15	3.4 Profiles	Inserted new Drawing: Profile Types
2 - Editing and rearrangement	3.15.2	3.4.2 Trapezoidal Profile	Removed drawing in favour of a more descriptive drawing: Profile Types.
4 - Clause Inserted	9.5.1	9.4.1 Penetration Back Flashings	Table removed.
4 - Clause Inserted		17.1.4 Test Report	New clause.
4 - Clause Inserted		17.1.5.2 Interpreting UDL Load Results	New clause.
4 - Clause Inserted		17.1.3.2 Point Load Testing	New clause.

19.29 2019 – May

The following updates to the NZ Metal Roof and Wall Cladding Code Practice (COP), are effective 1 May 2019.

Important updates:

The main clause Roof Ventilation was renamed [10 Internal Moisture](#) and completely revised and updated. The revised clause recommends designing and installing roof cladding to allow natural ventilation in residential buildings and requires design to enable ventilation in skillion, sarked, and low-pitched residential roofs.

Summary of other changes in this update

- The main clause [14 Installation](#) was revised and updated for clarity.
- Some clauses from [13 Site Practice](#) were moved to be included in the more relevant clause Installation. Site Practice now contains mainly [13 Safety](#).
- Some clauses in [17 Testing](#) were renamed and renumbered to fix broken links and reflect content more accurately. A major revision of [17 Testing](#) is underway.
- Other changes are Category 1 updates, which fixed minor errata such as grammar, spelling, and layout.

Revision Detail - 2019 - May

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	2.1	2.1 Definitions	Updated Glossary to include the terms: "Square Stopping".
2 - Editing and rearrangement	3.5.4	3.5.1.2 Load Distribution	Minor edit to drawing (3.5.1.2C Deflection and the Square of Depth)
1 - Minor Errata	3.12.1.1	3.8.2 Steel Purlins	Edited for Consistency – changed 1.1 mm to 1 mm.
1 - Minor Errata	4.1	4.1 NZBC Clause B2 (Extract)	Revised for clarity.
1 - Minor Errata	4.1.1	4.1.1 B2 Objective	Reformatting
1 - Minor Errata	4.1.2	4.1.2 B2 Functional Requirements	Reformatting
1 - Minor Errata	4.1.3	4.1.3 Performance Requirements	Reformatting
2 - Editing and rearrangement	4.11.6	4.10.6 Capillary Action	Changed minimum cover in 4.10.6B Roofing Sheet End Lap to closer reflect MRM recommendations and renamed the drawing.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
1 - Minor Errata	5.3.2.3	5.3.2.3 Method 2: Gutter and Downpipe Capacity Determined by Calculations	Fixed broken link to E Standard Gutter Capacity and F Standard Down Pipe Capacity , and rewrote link copy for greater clarity.
2 - Editing and rearrangement	8.9.1	8.10.1 Flashing Expansion	First line revised for clarity.
2 - Editing and rearrangement	10	10 Internal Moisture	Clause renamed to Internal <i>Moisture</i> . Clause revised for clarity.
2 - Editing and rearrangement	10.1	10.9 Minimising Ingress of Water Vapour into the Ceiling Cavity	Clause renamed and revised for clarity.
4 - Clause Inserted	10.1.1	10.1.1 E3 Objective	New Clause
4 - Clause Inserted	10.1.2	10.1.2 E3 Functional Requirements	New Clause created
4 - Clause Inserted	10.1.3	10.1.3 E3 Performance Requirements	New clause created.
4 - Clause Inserted	10.2	10.2 Why Manage Internal Moisture	Newly created clause
2 - Editing and rearrangement	10.4	10.3 Special Requirements	Clause revised for clarity and relevance.
0 - Clause Removed	10.4	10.4 The External Environment	Clause removed, information has been revised and moved to other main clauses.
2 - Editing and rearrangement	10.5	10.4 Condensation	Clause completely rewritten.
2 - Editing and rearrangement	10.6	10.5 Building Airtightness	Clause completely rewritten.
0 - Clause Removed	10.6.1	10.6.1 Natural Ventilation	Clause removed. New drawings used in more relevant clauses.
4 - Clause Inserted	10.7	10.6 Insulation	Newly created clause.
4 - Clause Inserted	10.7.1	10.6.1 Insulation Position	Newly created clause
4 - Clause Inserted	10.7.2	10.6.2 Other Insulation	Newly created clause
0 - Clause Removed	10.7.4.1	10.7.4.1 Direction of Lay	Clause delted. Information is now discussed in <i>Horizontal laying</i> and <i>Vertical laying</i> .

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	10.7.5	10.7.5 Non-Residential Buildings	Clause removed. Information is discussed elsewhere.
2 - Editing and rearrangement	10.8	10.7 Climate	Clause revised for clarity.
0 - Clause Removed	10.8	10.8 Wall Underlay	Clause removed and content discussed in other relevant clauses.
4 - Clause Inserted	10.8.1	10.7.1 Humidity	Relative humidity (RH, given in per cent [%]), is the most widely known method: It gives the content of water vapour in the air relative to the maximum amount of water this parcel of air can hold at its present temperature. Other measures are absolute humidity and water vapour pressure.
2 - Editing and rearrangement	10.9	10.8 Moisture Sources	Renamed and revised clause for clarity. Lead clause for various " <i>Sources of Internal Moisture</i> "
4 - Clause Inserted	10.9.1	10.8.1 Occupant Behaviour	Newly created clause, combining new information with some from revised "Managing Water Vapour at the Source" (renamed <i>Sources of Internal Moisture</i>).
4 - Clause Inserted	10.9.2	10.8.2 Heating	Newly created clause
2 - Editing and rearrangement	10.9.4	10.8.4 Construction Moisture	Clause revised for clarity.
4 - Clause Inserted	10.9.5	10.8.5 Ground Moisture	Newly created clause
2 - Editing and rearrangement	10.11	10.10 Ventilation Pathways	Clause revised for clarity.
4 - Clause Inserted	10.11.1	10.10.1 Methods of Ventilation	Newly created clause
4 - Clause Inserted	10.11.1.1	10.10.1.1 Soffit Vents	Newly created clause.
4 - Clause Inserted	10.11.1.2	10.10.1.2 Fascia Vents	Newly created clause
4 - Clause Inserted	10.11.1.3	10.10.1.3 Ridge Vents	Clause renamed and revised for clarity.
2 - Editing and rearrangement	10.11.1.4	10.10.1.5 Turbine Vents	Clause revised for clarity.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted	10.11.2	10.10.2 Battens	Newly Created clause.
2 - Editing and rearrangement	10.12	10.11 Underlay	Clause revised and expanded for clarity.
4 - Clause Inserted	10.12.1	10.11.2 Underlay Requirements	Newly created clause.
2 - Editing and rearrangement	10.12.2	10.11.3 Types Of Underlay	Clause revised for clarity.
4 - Clause Inserted	10.12.3	10.11.4 Underlay Usage	Clause revised for clarity.
2 - Editing and rearrangement	10.12.4	10.11.5 Underlay Durability	Clause revised and expanded.
2 - Editing and rearrangement	10.12.5	10.11.6 Installing Underlay	Clause revised and expanded.
4 - Clause Inserted	10.12.5.1	10.11.6.1 Horizontal Laying	Newly created clause.
4 - Clause Inserted	10.12.5.2	10.11.6.2 Vertical Laying	Newly created clause.
2 - Editing and rearrangement	10.12.5.3	10.11.6.3 Underlay Support	Clause revised.
2 - Editing and rearrangement	10.13	10.12 Additional Information	Clause renamed to <i>Additional Information</i> .
2 - Editing and rearrangement	10.13.1	10.12.1 Cold Roofs	Clause revised for clarity.
2 - Editing and rearrangement	10.13.2	10.12.2 Warm Roofs	Clause revised for clarity.
2 - Editing and rearrangement	10.13.3	10.12.3 Night Sky Radiation	Clause revised for clarity.
2 - Editing and rearrangement	10.13.4	10.12.4 The Mechanics of Condensation	Clause revised and renamed, it is now: <i>The Mechanics of Condensation</i> .
4 - Clause Inserted	10.13.5	10.11.1 Underlay Standards	Newly created clause.
4 - Clause Inserted	10.13.6	10.12.5 Relative Humidity	Newly created clause
4 - Clause Inserted	10.13.7	10.12.6 Absolute Humidity	Newly created clause
4 - Clause Inserted	10.13.8	10.12.7 Water Vapour Pressure	Newly created clause
2 - Editing and rearrangement	13.2	13.1.13 Roof Access During Construction	Clause moved to 13 Safety

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	13.4	13.4 Acceptance Of Materials	class="views-field views-field-field-revision-message-revision-id">
0 - Clause Removed	13.4.1	13.4.1 Presence Of Moisture Between Sheets	Clause combined with 14.3.2 Wet Storage Damage
0 - Clause Removed	13.4.2	13.4.2 Colour Match	Clause combined with 14.18.5 Colour Matching Paint
0 - Clause Removed	13.4.3	13.4.3 Storage Stain	Clause removed.
0 - Clause Removed	13.5	13.5 Roof Loading	Clause combined with 14.3.1 Unloading
2 - Editing and 14 rearrangement		14 Installation	Clause revised for clarity.
2 - Editing and 14.1 rearrangement		14.1 Pre-Installation	Clause revised for clarity.
2 - Editing and 14.1 rearrangement		14.10 Overhang	Clause revised for clarity
0 - Clause Removed	14.1	14.10 Metal Roof Defects	Clause removed. See 14.18.1 Roof Cladding Damage
0 - Clause Removed	14.1.5	14.1.5 Cutting And Drilling	Clause deleted. Information was spread through other clauses, mainly 14.18.4.4 Repairing Swarf Damage
4 - Clause Inserted	14.2	14.2 Product Selection	Newly Created Clause
2 - Editing and 14.2 rearrangement		14.20 Completion	Clause revised for clarity.
4 - Clause Inserted	14.2.1	14.2.1 Measuring	Newly created clause
0 - Clause Removed	14.2.1	14.2.1 Swarf Removal	clause removed, subject is now discussed in 14.18.4.1 Preventing Swarf Damage .
4 - Clause Inserted	14.2.2	14.2.2 Ordering	Newly created clause.
2 - Editing and 14.2.3 rearrangement		14.2.3 Transportation	Clause revised for clarity and moved to 14 Installation .
4 - Clause Inserted	14.3	14.3 Accepting Delivery	New created clause, combining <i>Acceptance of Materials</i> , previously in <i>Site Practice</i> .
4 - Clause Inserted	14.3.1	14.3.1 Unloading	Newly created clause
0 - Clause Removed	14.3.1	14.3.1 Primary Fasteners	Clause removed. Information is now discussed in various shorter and newly created clauses.
4 - Clause Inserted	14.3.2	14.3.2 Wet Storage Damage	Newly created clause

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0	14.4	14.4 Secondary Fasteners	class="views-field views-field-field-revision-message-revision-id">
0 - Clause Removed	14.4.2	14.4.2 Monel Rivets	clause removed, information is now discussed in other clauses.
0 - Clause Removed	14.4.3	14.4.3 Aluminium Rivets	Clause removed, information now in 14.12.4 Rivets
0 - Clause Removed	14.4.4	14.4.4 Stainless Steel Rivets	Clause deleted. See 14.12.4 Rivets
0 - Clause Removed	14.4.6	14.4.6 Fastener Frequency	Clause removed. See 14.13.1 Fastener Spacing
2 - Editing and rearrangement	14.5	14.5 Handling	Clause revised for clarity and moved to Installation.
0 - Clause Removed	14.5.2	14.5.2 Pan Fixing	Clause Removed. See 14.12.2 Screws
0 - Clause Removed	14.5.3	14.5.3 Expansion Fixings	Clause removed. See 14.13.4 Fastener Allowance for Expansion
0 - Clause Removed	14.5.4	14.5.4 Lap Stitching	Clause removed. Information absorbed in other clauses.
2 - Editing and rearrangement	14.6	14.5 Walking On Roofs	Clause revised for clarity and moved to 14 Installation .
0 - Clause Removed	14.6	14.6 Installation	Empty heading removed. See 14.13 Fastener Installation .
4 - Clause Inserted	14.6.1	14.5.1 Footwear	Newly created clause
2 - Editing and rearrangement	14.7	14.6 Strippable Films	Clause revised for clarity.
0 - Clause Removed	14.7	14.7 Re-Roofing	Clause removed. Information absorbed in other clauses.
4 - Clause Inserted	14.7.1	14.6.1 Storing Product with Strippable Film	Newly created clause
2 - Editing and rearrangement	14.8	14.8 Setting Out	Clause revised for clarity.
0 - Clause Removed	14.8.2	14.8.2 Side Lap Fixing Between Purlins	Clause removed.
0 - Clause Removed	14.8.6	14.8.6 Purlin Protection	clause removed
0 - Clause Removed	14.8.7	14.8.7 Drainage	Clause removed
0 - Clause Removed	14.8.8	14.8.8 Condensation	Clause removed.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted	14.9	14.9 Marking and Cutting	Newly created clause
2 - Editing and rearrangement	14.11	14.11 Sealing and Joining	Clause revised for clarity
4 - Clause Inserted	14.11.1	14.11.1 Sealing End Laps	Newly created clause
2 - Editing and rearrangement	14.12	14.12 Fasteners	Clause revised for clarity.
0	14.12.1	14.12.1 Nails	class="views-field views-field-field-revision-message-revision-id">
2 - Editing and rearrangement	14.12.2	14.12.2 Screws	Clause revised for clarity.
4 - Clause Inserted	14.12.3	14.12.3 Clip Fasteners	Newly created clause.
2 - Editing and rearrangement	14.12.4	14.12.4 Rivets	Clause revised for clarity
2 - Editing and rearrangement	14.13	14.13 Fastener Installation	Clause renamed and revised for clarity.
2 - Editing and rearrangement	14.13.1	14.13.1 Fastener Spacing	Newly created clause
4 - Clause Inserted	14.13.2	14.13.2 Fastener Placement	Newly created clause
4 - Clause Inserted	14.13.3	14.13.3 Fastener Seating	Newly created clause
4 - Clause Inserted	14.13.4	14.13.4 Fastener Allowance for Expansion	Newly created clause
4 - Clause Inserted	14.14	14.14 Modes Of Fastener Failure	Clause revised for clarity
4 - Clause Inserted	14.15	14.15 Stop-ends	Clause revised for clarity.
2 - Editing and rearrangement	14.16	14.16 Turndowns (Drip Forming or Drip Edging)	Clause revised for clarity.
4 - Clause Inserted	14.17	14.17 Soft edging and Flashing	Newly created clause
4 - Clause Inserted	14.18	14.18 Avoiding Problems	Newly created clause heading
2 - Editing and rearrangement	14.18.1	14.18.1 Roof Cladding Damage	Clause revised for clarity and moved to 14 Installation
4 - Clause Inserted	14.18.2	14.18.2 Water Ponding	Newly created clause

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted	14.18.3	14.18.3 Correctly Installed Gutters	Newly created clause
0	14.18.4	14.18.4 Swarf Damage	class="views-field views-field-field-revision-message-revision-id">
4 - Clause Inserted	14.18.4.1	14.18.4.1 Identifying Swarf Stains	Newly created clause
4 - Clause Inserted	14.18.4.2	14.18.4.1 Preventing Swarf Damage	Newly created clause
4 - Clause Inserted	14.18.4.3	14.18.4.3 Swarf Effect on Performance	Newly created clause.
2 - Editing and rearrangement	14.18.4.4	14.18.4.4 Repairing Swarf Damage	Clause revised for clarity and renamed.
4 - Clause Inserted	14.18.4.5	14.18.4.2 Severe or Extensive Swarf Staining	Newly created clause.
4 - Clause Inserted	14.18.5	14.18.5 Colour Matching Paint	Newly created clause
4 - Clause Inserted	14.18.6	14.18.6 Field Painting	Newly created clause.
4 - Clause Inserted	14.18.7	14.18.7 Sunscreen	Newly created clause.
4 - Clause Inserted	14.18.8	14.18.8 Removing Lichen	Newly created clause.
2 - Editing and rearrangement	14.21	14.21 Tools Of The Trade	Clause revised for clarity.
4 - Clause Inserted	14.21.1	14.22.1 Spacing	Clause removed. See 14.13.1 Fastener Spacing
4 - Clause Inserted	14.22.1	14.23.1 Crest Fixing	Clause removed. See 14.12.2 Screws
4 - Clause Inserted	14.23	14.6.2 Tools	Clause removed. See 14.12.2 Screws
4 - Clause Inserted	14.24	14.8 Translucent Sheeting	Clause removed.
4 - Clause Inserted	14.24.1	14.8.1 Side-Lap Fixing	Clause removed.
4 - Clause Inserted	14.24.2	14.8.3 End Laps	Clause deleted.
4 - Clause Inserted	14.24.3	14.8.4 Midspan Supports	Clause removed
4 - Clause Inserted	14.24.4	14.8.5 Stopends	Clause removed.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted	14.24.5	14.8.9 Pitch	Clause removed.
2 - Editing and rearrangement	17	17 Testing	Edited for clarity.
2 - Editing and rearrangement	17.1	17.1 Scope	Clause revised for clarity
1 - Minor Errata	17.1.2	17.1.2 Resistance to point load	Fixed typos – "serviceability" and "strength".
2 - Editing and rearrangement	17.2	17.2 Background to Scope	Heading changed from "Commentary on 16.1" and clause revised for clarity and brevity.
4 - Clause Inserted	17.4	17.4 Commentary On 16.3	Clause removed
2 - Editing and rearrangement	17.5	17.5 Determining Wind load Span Graphs	Minor grammatical edits and clause renamed to "Determining Wind Load Span Graphs" to avoid confusion with 3.11.2 Steel Cladding Wind Load Span Graphs .
1 - Minor Errata	17.6	17.6 Specific Methods Of Testing Sheet Roof And Wall Cladding	Clause moved (renumbered) to follow 17.7 Wind and Point Load Testing .
4 - Clause Inserted	17.7.1	17.7.1 Commentary On Section 15.5	Clause Removed. 17 Testing to undergo major revision.
2 - Editing and rearrangement	17.9	17.9 Background to wind load testing	Renamed "Clause from Commentary on 16.6".

19.30 2019 – February

The following updates to the NZ Metal Roof and Wall Cladding Code Practice (COP), is effective 1 February 2019.

In this update, no recommendations have been altered that would require changes to existing projects in progress.

Summary of Changes in this Update

- Two new clauses were added in [3 Structure](#) to discuss [3.4.5 Material Grade](#) and [3.4.6 Material Thickness](#).
- Two new, separate, clauses under [4.15 Clearances](#), discuss [4.15.1 Ground Clearance](#) and related [4.15.2 Site Management](#) in more detail.
- Clauses dealing with [3.12.1 Screw Fasteners](#) fixing to specific purlin types re-ordered for clarity.
- New drawing to show recommended [9.4A Recommended Penetration Type Positioning](#).
- Other updates consist of Category 1 – minor errata corrections to spelling, and grammar and layout.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	3.12.1	3.12.1 Screw Fasteners	Clauses dealing with fixing to specific purlin types re-ordered for clarity.
1 - Minor Errata	3.13.1	3.4.1 Corrugate Profile	Minor grammatical editing for clarity.
1 - Minor Errata	3.14.3	3.10.2 Maximum Spans and Fastening Patterns for Corrugate Wall Cladding	Heading says 0.40 mm but Table is .40 and .55. So remove .40 from heading
1 - Minor Errata	4.6.1	4.6.1 Assessment of Marine Environments	Removed full stop from the heading.
2 - Editing and rearrangement	4.8.1	4.8.4 Lichen	Resized photo (4.8.4A Lichen on a Metal Roof) and inserted photo (4.8.4B Permanent Damage from Lichen Growth).
2 - Editing and rearrangement	4.15	4.14 Swarf Staining and Cut Edge Corrosion	Renamed clause. Resized photos and inserted new photo (4.14D Cut Edge Corrosion)
1 - Minor Errata	4.17.3	4.16.3 Aluminium	fixed spelling of "quaters" to quarters
1 - Minor Errata	4.18.1.3	4.18.1.3 Top Coat and Backer	0
1 - Minor Errata	5.3.1	5.3.1 Catchment Area	Removed (Optional Caption) from A Wind-effect on Rain
1 - Minor Errata	6.1.1	6.1.1 E2 Objective	Set format as Block Quote
1 - Minor Errata	6.1.2	6.1.2 E2 Functional Requirement	Format as block Quote.
1 - Minor Errata	6.3	6.3 Related Topics	Changed link "Internal Moisture" to "Roof Ventilation."
2 - Editing and rearrangement	9.5.6	9.4.2.5 Penetration Flashings on Corrugated Profiles	Revised and renamed clause.
1 - Minor Errata	14.5.1	14.23.1 Crest Fixing	Corrected minimum embedment into soft wood from 35mm to 30mm aligning with E2/AS1 and other reference in 3.8.3 Timber Purlins

19.31 2018 – November

The NZ Metal Roof and Wall Cladding Code Practice (COP), has been updated effective 1 November 2018.

In this Update no recommendations have been altered that would require changes to existing projects in progress

Summary of Changes in this Update

- The previous *External Moisture, Flashings and Penetrations* sections have been updated to closer reflect the requirements of NZBC Clause E2 – External Moisture. All clauses and sub-clauses in these sections have been substantially revised and drawings updated to show details more clearly.
 - [6 External Moisture Overview](#) gives a general introduction and overview of NZBC Clause E2 – External Moisture.
 - [7 External Moisture Roofing](#) discusses requirements for roof and wall cladding.
 - [8 External Moisture Flashings](#) deals with flashings, seals and laps.
 - [9 External Moisture Penetrations](#) recommends good practice for penetration design and installation.
- Other updates consist of Category 1 – minor errata corrections to spelling, and grammar and layout.

19.31A

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	4.5.2	4.5.2 Sea Spray	Moved copy dealing with corrosion from "Eaves Flashing" to "Sea Spray".
1 - Minor Errata	4.11.8	4.10.8 Microcracking	Correction to comparative scale of illustrations
0 - Clause Removed	6.1.1	7.1.1 Conduction	
4 - Clause Inserted	6.1.1	6.1.1 E2 Objective	E2 Objective under NZBC Clause E2 (Extract)
4 - Clause Inserted	6.1.2	6.1.2 E2 Functional Requirement	New clause to follow E2 Objective.
4 - Clause Inserted	6.1.3	6.1.3 E2 Performance Requirements	New clause to follow "Functional Requirement".
0 - Clause Removed	6.1	7.1 Heat	Clause removed, see 7.3 Thermal Expansion And Contraction .
4 - Clause Inserted	6.1	6.1 NZBC Clause E2 External Moisture (Extract)	New Clause under External Moisture – General.
4 - Clause Inserted	6.2.1	6.2 Compliance	New 2nd level clause to follow "Acceptable Solution NZBC E2/AS1"

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	6.2.2.1	7.4.2.1 Profile Strength	Subject now discussed in 7.3 Thermal Expansion And Contraction .
2 - Editing and rearrangement	6.2.2.3	8.10 Flashing Expansion Details	Completely revised clause.
2 - Editing and rearrangement	6.2.2.4	8.10.2 Building Expansion Joints	Clause duplicated.
4 - Clause Inserted	6.2	6.2 Acceptable Solution NZBC E2/AS1	New 2nd level clause to follow "Limits on Applications. "
0 - Clause Removed	6.3	8.15 Sealing Washers	
4 - Clause Inserted	6.3	6.3 Related Topics	New 1st level heading under "External Moisture – General"
3 - Substantial change to recommendation	6.5.2	7.1.2 Runoff Capacity	Clause completely revised.
0 - Clause Removed	6.5.3	7.2.3 Snow	Clause removed, combined with 5.4 Snow .
0 - Clause Removed	6.5.4	7.2.4 Hail	Clause removed combined with 5.4.1 Hail .
2 - Editing and rearrangement	6	6 External Moisture Overview	Clause completely revised to reflect all four COP clauses dealing with E2 External Moisture.
3 - Substantial change to recommendation	7.1.1	7.1.1 Minimum Roof Cladding Pitch	Clause completely revised.
0 - Clause Removed	7.1	7.1 Radiation	
0 - Clause Removed	7.1	8.1 Purpose	Clause removed, included in 8 External Moisture Flashings .
2 - Editing and rearrangement	7.2.1	8.1.1 Flashing Durability	Completely revised and renamed clause renamed (previously "compatibility").
0 - Clause Removed	7.2	7.2 Convection	
2 - Editing and rearrangement	7.2	7.1 Roof Pitch	Clause completely revised. To be the first sub-clause under External Moisture – Cladding.
2 - Editing and rearrangement	7.2	8.1 Flashing Materials	Completely revised clause
4 - Clause Inserted	7.2	7.2 Fastening Roofing	New sub-clause to be inserted at the end of Roof Pitch under External Moisture – Cladding.
3 - Substantial change to recommendation	7.3.1	7.3.1 Temperature Range	Completely Revised and rewritten. To follow "Thermal Expansion and Contraction" under the new level 1 Clause: "Cladding"

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted	7.3.1	8.4.4 Flashing Laps	Completely revised and shortened clause.
3 - Substantial change to recommendation	7.3.2	7.3.2 Roof Cladding Expansion Provisions	Completely Revised and Rewritten. To follow "Steel Cladding Temperature Ranges" in "Thermal expansion and Contraction" under new Level 1 Clause: "Cladding".
2 - Editing and rearrangement	7.3	7.3 Thermal Expansion And Contraction	Completely revised and redone. To be moved under new level 1 Clause: External Moisture Cladding.
0 - Clause Removed	7.4.1.1	8.6.1.1 Ridge - Hip Intersections	Clause incorporated into 8.5.1 Ridge and Hip Intersections .
2 - Editing and rearrangement	7.4.2	8.5.2 Barge And Verge	Completely revised clause.
0 - Clause Removed	7.4.2.1	8.6.2.1 Internal Barge Flashing	Incorporated into parent clause.
2 - Editing and rearrangement	7.4.2.2	8.5.2.1 Ridge – barge Intersections	Completely revised clause.
2 - Editing and rearrangement	7.4.4	8.5.4 Apron Flashings	Completely revised clause
2 - Editing and rearrangement	7.4.4.1	8.5.4.1 Parapet And Apron Capping Terminations	Completely revised clause.
2 - Editing and rearrangement	7.4.4.3	8.5.4.3 Step Apron	Completely revised clause. Drawings updated.
2 - Editing and rearrangement	7.4.4.4	8.5.4.4 Eaves Flashing	Completely revised and renamed clause. (Previously "Gutter Apron"). Drawing updated.
0 - Clause Removed	7.4.5	8.6.5 Valley Flashings	Clause removed. Valleys are discussed in "Roof Drainage".
2 - Editing and rearrangement	7.4.6	8.5.5 Curved Flashings	Completely revised clause.
2 - Editing and rearrangement	7.4.6.1	8.5.5.1 Lockseamed Flashings	Revised clause. Information added.
0 - Clause Removed	7.4.6.2	8.6.6.2 Jennied Flashings	Clause removed – all references to "jennying" has been removed from "Flashings".
4 - Clause Inserted	7.4.6.3	8.5.5.2 Crimped Flashings	New clause under 8.5.5 Curved Flashings .
0 - Clause Removed	7.4.7	8.6.7 Soffit Flashings	Clause removed.
2 - Editing and rearrangement	7.4	7.4 End Laps	Clause completely revised.
2 - Editing and rearrangement	7.4	8.5 Flashing Types	The last line edited.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	7.5.1	8.12.1 Unpainted Metal Cladding	Clause removed.
0 - Clause Removed	7.5.2	8.12.2 Ventilation and Cavities	Clause removed.
0 - Clause Removed	7.5.3	8.12.3 Window and Door Flashings in Metal Cladding	
0 - Clause Removed	7.5.4	8.12.4 Horizontal Metal Cladding	
0 - Clause Removed	7.5.5	8.12.5 General Principles	
0 - Clause Removed	7.5.6	8.12.6 Flush Window Flashings	Clause removed.
0 - Clause Removed	7.5.7	8.12.7 Recessed Window Flashings	Clause removed.
0 - Clause Removed	7.5.8	8.12.8 Butt Window Flashings	Clause removed.
0 - Clause Removed	7.5.9	8.12.9 Flashings For Vertical Cladding	
0 - Clause Removed	7.5.10	8.12.10 Alternative Flashing Designs	
2 - Editing and rearrangement	7.5	8.11 Wall Cladding	Completely revised and renamed clause.
0 - Clause Removed	7.6	8.13 Flashings For Vertical Cladding	Clause removed.
0 - Clause Removed	7.7	8.14 Flashings For Horizontal Corrugate Cladding	Clause Removed.
2 - Editing and rearrangement	7.8.1	8.6.1 Primary Fasteners	Completely revised and shortened clause.
2 - Editing and rearrangement	7.8.2	8.6.2 Secondary Fasteners	Completely revised clause.
0 - Clause Removed	7.8.3	8.7.3 Secret Fixing Clips	Clause deleted.
2 - Editing and rearrangement	7.8.4	8.6.3 Flashing Cleats	
4 - Clause Inserted	7.8.5	8.6.4 Seams	Split the drawing into eight individual drawings, for improved layout.
2 - Editing and rearrangement	7.8	8.6 Fastening Flashings	Clause renamed.

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
0 - Clause Removed	7.9.1	8.8.1 Properties	Clause removed. Discussed in 8.7 Sealants .
2 - Editing and rearrangement	7.9.2	8.7.1 Methods Of Sealing	Revised clause
2 - Editing and rearrangement	7.9.3	8.7.2 Surface Preparation	Clause shortened.
0 - Clause Removed	7.9.5	8.8.5 Sealed Laps	Clause removed see: A Sealed End Lap .
0 - Clause Removed	7.9.6	8.8.6 Strip Sealants	Clause removed.
0 - Clause Removed	7.9.7	8.8.7 Soldered Joints	Clause Removed.
2 - Editing and rearrangement	7.9	8.7 Sealants	Completely revised clause.
0 - Clause Removed	7.10.1	8.9.1 Vented Fillers	
2 - Editing and rearrangement	7.10.2	8.8.1 Soft Edging	Revised and renamed clause.
2 - Editing and rearrangement	7	8 External Moisture Flashings	Completely revised clause.
4 - Clause Inserted	7	7 External Moisture Roofing	New Level 1 clause.
0 - Clause Removed	8.1	9.1 General	Clause removed. General discussion incorporated in the introduction.
2 - Editing and rearrangement	8.2.1	9.2 Additional Support	Completely revised and renamed clause.
2 - Editing and rearrangement	8.2.2	9.3 Penetration Durability and Compatibility	Completely revised and renamed clause.
0 - Clause Removed	8.2.3	9.5 Corrosion	Incorporated into " 9.3 Penetration Durability and Compatibility ".
0 - Clause Removed	8.2.4	9.5.1 Catchment	Clause removed.
0 - Clause Removed	8.2.5	9.5.2 Obstruction	Clause removed.
0 - Clause Removed	8.2.6	9.5.3 Discharge Capacity	Clause removed, see
0 - Clause Removed	8.2.7	9.5.4 Sealing	Clause removed. (Information is repeated in 8 External Moisture Flashings)
0 - Clause Removed	8.2.8	9.5.5 Alternative Materials	Clause removed, see 8.8.1 Soft Edging .

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	8.2	8.2 Flashing Design	Completely revised and shortened clause
2 - Editing and rearrangement	8.2	9.1 Penetrations Minimum Pitch	Completely revised and renamed clause.
0 - Clause Removed	8.3.1	9.7.6 Nomenclature	Clause removed. More details added in 9.4 Penetration Design .
0 - Clause Removed	8.3.2	9.7.7 Diverter Or Cricket Designs	Clause removed in favour of more detailed drawings in Penetration Flashing Design.
0 - Clause Removed	8.3.3	9.7.8 Penetration Flashing Installation	Clause removed in favour of more detailed drawings in "Penetration Flashing Design".
0 - Clause Removed	8.3.4	9.7.9 Laps	Clause removed, see 7.4 End Laps .
0 - Clause Removed	8.3.5	9.7.10 Details	Clause removed. See 9.4.2.5 Penetration Flashings on Corrugated Profiles .
0 - Clause Removed	8.3.7	9.7.11 Type A Soaker	
0 - Clause Removed	8.3.8	9.7.12 Type B Watershed	Clause removed. New Details available.
0 - Clause Removed	8.3.9	9.7.13 Type C Tapered	Clause removed. New flashing details provided.
0 - Clause Removed	8.3.10	9.7.14 Type D Tray	Clause removed. New Flashing details provided elsewhere.
2 - Editing and rearrangement	8.3	8.4 Flashing Cover	Completely revised clause. Drawings updated for clarity.
2 - Editing and rearrangement	8.3	9.4 Penetration Design	Revised clause.
2 - Editing and rearrangement	8.4.1	9.5.1.1 Plant Room And Conduit Penetrations	Completely revised clause.
2 - Editing and rearrangement	8.4	8.2.1 Flashing Edges	Completely revised clause. Drawings updated.
2 - Editing and rearrangement	8.5.1	8.5.1 Ridge and Hip Intersections	Completely revised clause.
2 - Editing and rearrangement	8.5.3	8.5.3 Parapet Cappings	Completely revised clause.
3 - Substantial change to recommendation	8.5.4.2	8.5.4.2 Change Of Pitch	Completely revised clause. Drawings updated.
0 - Clause Removed	8.5	9.9 Dormer Junctions	Clause removed.
4 - Clause Inserted	8.7.3	8.7.3 Sealant Extrusion And Placement	Updated drawing: "Applying Sealant".

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
4 - Clause Inserted	8.8.2	8.8.2 Notched Edging	New Clause to follow "Soft Edging", under "Profile Closures".
2 - Editing and rearrangement	8.8	8.8 Profile Closures	Completely revised clause.
4 - Clause Inserted	8.9	8.9 Compression Timber	Inserted new clause.
4 - Clause Inserted	8.32	19.31 2018 – November	November Update Message added
2 - Editing and rearrangement	8	9 External Moisture Penetrations	Completely revised and renamed clause.
4 - Clause Inserted	9.3	9.2.1 Penetrations Safety	New sub-clause under "Additional Support".
4 - Clause Inserted	9.5.1	9.4 Penetration Positioning	New Clause.
4 - Clause Inserted	9.5.2	9.4.1 Penetration Back Flashings	New Clause.
4 - Clause Inserted	9.5.3	9.4.1.1 Overflashed Backflashings	New Clause
4 - Clause Inserted	9.5.4	9.4.1.2 Under-Soaker Back Flashings	New Clause
4 - Clause Inserted	9.5.5	9.4.2 Curb Design	New Level 2 Clause.
4 - Clause Inserted	9.5.5.1	9.4.2.1 Level Back Curbs	New level 3 Clause under 9.4.2 Curb Design .
4 - Clause Inserted	9.5.5.2	9.4.2.2 Arrowhead Back Curbs	New 3rd level clause under 9.4.2 Curb Design .
4 - Clause Inserted	9.5.5.3	9.4.2.3 Cricket Back Curbs	New level 3 Clause under 9.4.2 Curb Design .
2 - Editing and rearrangement	9.5.6	9.4.2.5 Penetration Flashings on Corrugated Profiles	Revised and renamed clause.
4 - Clause Inserted	9.6.1	9.5.1 Boot Flashings to an Over Flashing	New Clause
4 - Clause Inserted	9.6.2	9.5.2 Other Applications for Boot Flashings	New Clause
4 - Clause Inserted	9.6.2.2	9.5.1.2 Mechanical Services	New clause
2 - Editing and rearrangement	9.6	9.5 Boot Flashings	Revised and renamed clause.
4 - Clause Inserted	9.7	9.5.2 Flush Penetrations	New clause

Category	Clause Number (at time of update)	Clause (As of current publication)	Details
2 - Editing and rearrangement	16.7	17.7 Wind and Point Load Testing	

19.32 2018 – October

The NZ Metal Roof and Wall Cladding Code Practice (COP), has been updated effective 1 October 2018.

Summary of Changes in this Update

In this update there are Category 1 - Minor Errata corrections only, for spelling and grammar - no clauses have been substantially revised, nor any recommendations altered.

Revision Detail - 2018 - October

Category	Clause Number (As of current at time publication of update)	Clause Number(As of current at time publication of update)	Details
1 - Minor Errata	1.5.1	1.5.1 Mediation	1. Inserted "a" before settlement. 2. Corrected spelling of "available" in the second paragraph.
1 - Minor Errata	2.1	2.1 Definitions	General tidy up; Fix spelling: Intersection, surface, heights, dewpoint, six-sided, practitioners, seashore, rainwater, coatings, trademark, components, electromagnetic, skylight, sawtooth, embedded, cross-section, violently, stop end, fibreglass, change. Changed: Low Pitched 15° to 10°, and Pitch Roof 15° to 10°. Remove some extra spaces. Removed some commas. Inserted comma. Changed "newton" to "Newton". Reworked Pop Rivet definition. Removed semi-colon. Updated "boot Flashings.
1 - Minor Errata	3.5.6	3.5.6 Section Properties	Moved paragraph: "Symmetrical corrugate or trapezoidal profiles have the advantage of being more easily curved around a radius. Because the ribs are necessarily close together, they have the disadvantage of roof traffic loads having to be spread over two crests or along the purlin line, and they have a lower run-off capacity."
1 - Minor Errata	3.5.8	3.5.1.1 Continuity	Updated Drawing. Arrows were not displaying correctly.
1 - Minor Errata	3.6.1	3.6.1 Point Load	Removed empty paragraph spacing
1 - Minor Errata	4.9.3	4.8.3 Graffiti Removal	Fixed typo "Grafitti"
1 - Minor Errata	4.10.3	4.9.4 Compatibility Table	Inserted "online" in the description of the online interactive tool.
1 - Minor Errata	4.11.6	4.10.6 Capillary Action	Typo – Changed 80 to 8°.

1 - Minor Errata	4.10.8 Microcracking	Replaced drawings a through to e
1 - Minor Errata	5.7 Downpipes	Replaced drawing "Collecting Rainwater"
1 - Minor Errata	6 External Moisture Overview	Fixed typo: "conductionand" to "conduction and"
1 - Minor Errata	10.12.1 Cold Roofs	fixed typo: inserted " is ..."
1 - Minor Errata	10.11 Underlay	1. Added new new photo – 9.5C Condensation on Synthetic Underlay. 2. Typo: corrected spelling of 9.5B "Condesation.." to "Condensation"
1 - Minor Errata	10.7.5 Non- Residential Buildings	Fixed typo: deleted extra "in"
1 - Minor Errata	11 Natural Light	Fixed typos: "thermal", "installation" and "available"
1 - Minor Errata	11.1 Clause G7 NZBC	Fixed typos: "through", "enough"
1 - Minor Errata	11.2 Natural Light Materials	Fixed typos: "a varying mass" and "square"
1 - Minor Errata	11.3 Types Of Roof Lights	Fixed typos: "single" and removed extra space after comma.
1 - Minor Errata	11.5 Weathering And Durability	Fixed typo: "not"
1 - Minor Errata	14.16 Turndowns (Drip Forming or Drip Edging)	changed "downturns" to "Turn-downs" and inserted "drip forming or drip edging" in the heading.
1 - Minor Errata	14.12.2 Screws	1. Fixed typos: "hardwoods", 2. Fixed broken links "Fastener Performance" and "Secret Fixing Clips"
1 - Minor Errata	14.5.3 Expansion Fixings	Fixed link: "favourable conditions for expansion"
1 - Minor Errata	15.1.5 Purlin Spacing	Fixed typo: "subjected", removed comma.
1 - Minor Errata	15.4.2.4 Types Of Joints	Removed unnecessary link: (See drawing 11.2.4)
1 - Minor Errata	17.1.3 Resistance for wind pressures	Replaced incorrect numbering reference (section 15.7) with correct link (Wind and Point Load Testing)

1 - Minor Errata	16.2 17.2 Background to Scope	Corrected heading "Commentary on 16.1"
1 - Minor Errata	16.4 17.4 Commentary On 16.3	Corrected heading: "Commentary On 16.3"
1 - Minor Errata	16.9 17.9 Background to wind load testing	Corrected heading: "Commentary On Section 16.6"
