



Photographs of proposed VMZINC roof and wall cladding in Quartz-zinc finish

NYMNPA

01/02/2023

21047 Appletree Cottage

New Dormer Window, External Alterations & Landscaping

**Specification Rev B**

RIBA Work Stage 4

September 2022

**ian hazard**itect  
North Yorkshire

**Specification to be Read with Preliminaries and CDM  
Pre-Construction Health and Safety Information**

<b>Rev</b>	<b>Note</b>	<b>Date</b>
.	In-progress Stage 4b draft Issued to Client for comment and review	15.09.2022
A	Issued to Client at Work Stage 4b Completion	23.09.2022
B	Issued for Tender	27.10.2022

## **Specification**

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## H74 Zinc roof & wall coverings

To be read with preliminaries/ general conditions.

### 3 Zinc sheet fully supported roof covering to new dormer

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1. **Description:** New ventilated zinc mono-pitched roof cladding to new dormer window. Final project specific specification TBC by VMZinc
2. **Covering system:** VMZinc Standing seam roof for slopes ranging from 3 degrees to vertical.
3. **Specialist Installation Contractor:** VMZinc Approved installation contractor only - GNR Geoff Neal Roofing, York. 01904 763894/Or Paul 07971 170339
4. **Membrane:** As P10/65
5. **Insulation:** As Section P10
6. **Substrate:** Exterior grade 18mm plywood (EN 314-3 & EN636-2)
  - 6.1. **Preparation:** The plywood deck must be even and flush with all joints being less than 2mm in height. Nails should be driven into the plywood so as to avoid abrasive contact with underside of zinc roofing sheets. Ensure that any treatment which the plywood may have received (fungicides or insecticides) is compatible with zinc cladding sheets. A continuous air space of at least 50mm must be allowed for between the plywood and insulation (which can be protected by the VMZinc membrane).
7. **Sheet underlay:** VMZinc membrane over plywood
8. **Zinc**
  - 8.1. **Type:** VMZinc zinc-titanium-copper alloy to BSEN 501 EN988
  - 8.2. **Designation:** VMZinc, Collier House, Mead Lane, Hertford, Herts. SG13 7AX. TEL: 0203 445 5640 Web:www.vMZinc.co.uk
  - 8.3. **Finish:** Quartz-zinc
  - 8.4. **Thickness:** 0.7 or 0.8mm
9. **Joints in direction of fall:** 25mm high double lock standing seam
  - 9.1. **Spacing:** TBC 430mm/530mm/60mm
10. **Cross joints:** In accordance with manufacturer's recommendations, double welt or roof step depending on slope
  - 10.1. **Spacing:** Panels to be no longer than 13m
11. **Eaves:** Ventilated eaves in line with manufacturer's standard details.

### 5 Zinc sheet fully supported wall covering to new dormer

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1. **Description:** New ventilated zinc vertical wall cladding to new Dormer window
2. **Covering system:** VMZinc Single lock standing seam cladding for vertical walls and soffits.
3. **Specialist Installation Contractor:** VMZinc Approved installation contractor only - GNR Geoff Neal Roofing, York. 01904 763894/Or Paul 07971 170339
4. **Substrate:** Exterior grade 18mm plywood (EN 314-3 & EN636-2)
  - 4.1. **Preparation:** The plywood deck must be even and flush with all joints being less than 2mm in height. Nails should be driven into the plywood so as to avoid abrasive contact with underside of zinc roofing sheets. Ensure that any treatment which the plywood may have received (fungicides or insecticides) is compatible with zinc cladding sheets. A continuous air space of at least 50mm must be allowed for between the plywood and insulation (which can be protected by the VMZinc membrane).
5. **Sheet underlay:** VMZinc membrane installed over plywood
6. **Zinc**

- 6.1. Type: VMZinc zinc-titanium copper alloy to BSEN 501 and BS EN988
- 6.2. Finish: Quartz-zinc
- 6.3. Thickness: 0.8 mm
7. Joints in cheeks: 25mm high single lock standing seam
8. Spacing: Not more than 430mm
9. Cross joints: Single welts, in accordance with manufacturer's recommendations.
10. Vented base detail: In line with manufacturer's standard detail
11. Vented Parapet detail: In line with manufacturer's standard detail

#### **40 Materials design and workmanship generally**

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1. Zinc strip/ sheet: To BS EN 14873, BS EN 501 and BS EN 988.
2. Design and workmanship: Generally to CP 143-5 and Federation of Traditional Metal Roofing Contractors' 'UK guide to good practice in fully supported metal roofing and cladding'.
3. Fabrication and fixing: To provide a secure, free draining and completely weathertight installation.
4. Preforming: Measure, mark, cut and form zinc prior to assembly wherever possible. Do not use scribes or other sharp instruments without approval.
5. Metal temperature: Do not form zinc when the metal temperature is below the minimum recommended for working by the manufacturer.
6. Folding: With presses to give straight, regular and tight bends, leaving panels free from ripples, kinks, buckling and cracks.
7. Sharp metal edges: Remove as work proceeds.
8. Sealants: Do not use in joints to attain waterproofing.
9. Solder: Use only where specified. Soldering materials and procedures must be as recommended by the zinc manufacturer.
10. Finished zinc work: Fully supported, adequately fixed to resist wind uplift and able to accommodate thermal movement without distortion, stress or impairment of security.
  - 10.1. Protection: Prevent staining, discolouration and damage by subsequent works.

#### **41 Zinc strip/ Sheet**

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1. Type: Zinc-copper-titanium
2. Standard: To BS EN 988
3. Manufacturer: VMZinc
  - 3.1. Product reference: As Clauses 3 & 5

#### **42 Soldering and naked flame preheating**

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1. In situ soldering and naked flame preheating: Not permitted.

#### **50 Timber for use with zinc work**

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1. Quality: Planed, free from wane, pitch pockets, decay and insect attack (ambrosia beetle excepted).
2. Moisture content: Not more than 22% at time of fixing and covering.
3. Preservative treatment: Organic solvent as section Z12 and Wood Protection Association Commodity Specification C8.

#### **51 Sheet underlay**

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1. Manufacturer: VMZinc
  - 1.1. Product reference: VMZinc membrane

2. Weight: 220 g/m<sup>2</sup>

## **52 Laying sheet underlay**

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1. Handling: Prevent tears and punctures.
2. Laying: Butt jointed onto a dry substrate.
  - 2.1. Fixing edges: With galvanized, sherardized or stainless steel staples or 20 x 3 mm extra large head clout nails.
  - 2.2. Do not lay over eaves and drip/ step zinc underlaps.
3. Protection: Keep dry and cover with zinc at the earliest opportunity.

## **53 Preparation of existing timber substrates**

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1. Remedial work: Adjust boards to level and securely fix. Punch in protruding fasteners and plane or sand to achieve an even surface.
2. Defective boards: Give notice.
3. Moisture content: Not more than 22% at time of covering. Give notice if greater than 16%.

## **60 Fixings for clips**

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1. Nails to timber substrates: Galvanized or sherardized steel.
  - 1.1. Shank type: Annular ringed, helical threaded, or serrated.
  - 1.2. Head: Flat.
  - 1.3. Length: Not less than 25 mm or equal to substrate thickness.
2. Screws to concrete or masonry substrates: Sherardized or zinc plated steel.
  - 2.1. Length: Not less than 25 mm.
  - 2.2. Washers and plastics plugs: Compatible with screws.

## **62 Clips**

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1. Material: Zinc, supplied preformed by the strip/ sheet manufacturer, or cut and formed in situ as recommended by the strip/ sheet manufacturer.
2. Dimensions, number of fixings and provision for movement: As recommended by the strip/ sheet manufacturer.

## **65 Wedge fixing into joints/ chases**

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1. Joint/ Chase: Rake/ Cut out to a depth of not less than 25 mm (under dpc where in same joint).
2. Zinc: Fold 25 mm into joint/ chase with a waterstop welted end.
  - 2.1. Fixing: Zinc wedges at not more than 450 mm centres, at every change of direction, and with at least two for each piece of zinc.
3. Sealant:
  - 3.1. Application: As section Z22.

## **67 Standing seam joints**

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1. Joint allowances: 45 mm overlap, 35 mm underlap and not less than 5 mm gap for thermal movement. Preformed interlocking profiles are permitted.
2. Clip positions
  - 2.1. Fixed clips .....
  - 2.2. Sliding clips .....
3. Forming: Double welt overlap and clips around underlap to form a standing seam 25 mm high of consistent cross section.



## **72 Drip/ Step joints**

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1. Strip/ Sheet from below step: Fold up full height of upstand and fix to top edge.
2. Form zinc underlap/ continuous clip
  - 2.1. Cover to roof slope: Not less than 100 mm with anticapillary welt at top edge.
  - 2.2. Projection: 25 mm projection for forming into drip welt.
  - 2.3. Downstand: Not less than 40 mm.
  - 2.4. Fixing: To roof slope at 100 mm centres.
3. Strip/ Sheet from above step: Fold around underlap projection and single welt to form a drip.

## **76 Single lock welt joints**

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1. Joint allowance: 100 mm overlap and 50 mm underlap.
2. Underlap: Welt and secure with clips, two per bay.
3. Overlap: Welt around underlap and clips and dress down.

## **77 Single lock welt with check welt joints**

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1. Underlap: Fold anticapillary welt at top edge of and secure with clips, two per bay.
2. Overlap: Welt bottom edge and lay 250 mm over underlap.
  - 2.1. Fixing: Secure with continuous clip soldered to underlap.

## **78 Double-lock welt joints**

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1. Joint allowance: 90 mm overlap and 60 mm underlap.
2. Underlap: Welt and secure with clips, one per bay.
3. Overlap: Double welt around underlap and dress down.

Ω End of Section

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