



141532 NBS Specification Rev: H71 - C5

Rutherford Building

Rutherford Building H71 Construction

Revisions

Date	Revision	Rev
2025/03/21	Updates to Lead codes within section H71	H71 - C5

Notes

- Specification to be read in conjunction with IBI Group drawings
- Any discrepancies in Specification or between Specification and drawings to be reported to IBI Group

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H71

LEAD SHEET FULLY SUPPORTED ROOF AND WALL COVERINGS/ FLASHINGS REVISED

SUMMARY

REVISION HISTORY

Date	No.	Title	Status	Revision	Note
12/10/2023		Rutherford Building		P01	Review and comment
18/10/2023		Rutherford Building		P01	Review and comment
19/10/2023		Rutherford Building		P02	Stage 4 for costing
17/11/2023		Rutherford Building		P03	Updated Stage 4 for costing
17/11/2023		Rutherford Building		P03	Stage 4 for costing
17/11/2023		Rutherford Building		P03	Stage 4 for costing
21/11/2023		Rutherford Building		P04	Further updated Stage 4 for costing
21/11/2023		Rutherford Building		P04	Further updated Stage 4 for costing
24/11/2023		Rutherford Building		P05	Further updated Stage 4 for costing
25/06/2024	06	Rutherford Building	Interim Issue - Construction		Updates to Clauses M60 + R10
30/07/2024		Rutherford Building			
04/12/2024	C2	Rutherford Building	Construction	C2	General updates to partition types and introduction of timber studwork
05/12/2024	141532 NBS Specification	Rutherford Building	Construction	C1	Updates to Lift, finishes, wet room
05/12/2024	141532 NBS Specification	Rutherford Building	Construction	C3	Lift update, finishes updated, wetroom shower tray changed
21/02/2025	141532 NBS Specification	Rutherford Building	Construction	H71 - C4	Updates to Lead codes within section H71
21/03/2025	141532 NBS Specification	Rutherford Building	Construction	H71 - C5	Updates to Lead codes within section H71

DETAILS OF AMENDED CLAUSES

Change	Code	Prefix	Title	Suffix
REVISED	H71/209		Gutter lining – box, parapet, tapered and flat roof valley	Type A - Code 6
ADDED	H71/209		Gutter lining – box, parapet, tapered and flat roof valley	Type B - Code 8
REVISED	H71/510		Workmanship generally	

TYPES OF LEADWORK

209 GUTTER LINING – BOX, PARAPET, TAPERED AND FLAT ROOF VALLEY TYPE A - CODE 6 **REVISED**

1. Substrate: Existing timber boarding
 - Preparation: All existing leadwork to be retained and protected during the works
All existing leadwork to roof gutters, parapet gutters, linings, flashings to be cleared of any debris and investigated in detail into their suitability and condition prior to any refurbishment
2. Sheet underlay: Building paper to BS 1521, Class A1
3. Type of lead: Rolled to BS EN 12588
Existing defective leadwork to be removed and renewed where necessary to an improved standard
 - Thickness: 2.65 mm (Code 6)
4. Pretreatment: Apply thin coating of patination oil to underside of lead and allow to dry before laying.
5. Joints in direction of fall: Wood-cored roll
 - Spacing: On centre line of gutter
6. Cross joints: Wood-cored roll at gutter watershed
 - Spacing: 2250mm max, 850mm girth
7. Outlets: Chute outlet through wall to hopper head

209 GUTTER LINING – BOX, PARAPET, TAPERED AND FLAT ROOF VALLEY TYPE B - CODE 8 **ADDED**

1. Substrate: Existing timber boarding
 - Preparation: All existing leadwork to be retained and protected during the works
All existing leadwork to roof gutters, parapet gutters, linings, flashings to be cleared of any debris and investigated in detail into their suitability and condition prior to any refurbishment
2. Sheet underlay: Building paper to BS 1521, Class A1
3. Type of lead: Rolled to BS EN 12588
Existing defective leadwork to be removed and renewed where necessary to an improved standard
 - Thickness: 3.55mm (Code 8)
4. Pretreatment: Apply thin coating of patination oil to underside of lead and allow to dry before laying.
5. Joints in direction of fall: Wood-cored roll
 - Spacing: On centre line of gutter
6. Cross joints: Wood-cored roll at gutter watershed
 - Spacing: 3000 mm max, girth 1000mm
7. Outlets: Chute outlet through wall to hopper head

230 VALLEY GUTTER LINING TO SLATE/ TILE ROOFS

1. Sheet underlay: Building paper to BS 1521, Class A1
2. Type of lead: Rolled to BS EN 12588
 - Thickness: 2.65 mm (Code 6)
3. Pretreatment: Apply thin coating of patination oil to underside of lead and allow to dry before laying
4. Laying: Over and beyond tilting fillets

5. Lengths: Not more than 1500 mm 2000 mm.
 - Cross joints: Lapped not less than 300 mm.
6. Fixing: Welt edges. Nail top edge of each sheet. Dress bottom end neatly into eaves gutter

322 SOAKERS FOR MITRED HIPS TO SLATE/ PLAIN TILE ROOFS

1. Lead
 - Thickness: 1.75mm to 1.8mm (Code 4).
2. Dimensions
 - Length: Slate/ tile gauge + lap + 25 mm.
 - Underlaps: Not less than

325 SOAKERS FOR MITRED VALLEYS TO SLATE/ PLAIN TILE ROOFS

1. Lead
 - Thickness: 1.75mm to 1.8mm (Code 4).
2. Dimensions
 - Length: Slate/ tile gauge + lap + 25 mm.
 - Underlaps: Not less than 150 mm.

326 SOAKERS FOR SWEEP VALLEYS TO SLATE/ PLAIN TILE ROOFS

1. Lead
 - Thickness: 1.75mm to 1.8mm (Code 4).
2. Dimensions: To suit sweep and pitch of tiles. Allow adequate length for turning over head of cut tiles and width for underlay to first standard tile on each side.

410 APRON FLASHINGS

1. Description: To match existing
2. Lead
 - Thickness: 2.65 mm (Code 6)
3. Dimensions
 - Lengths: Not more than 1500 mm.
 - End to end joints: Laps of not less than 100 mm.
 - Upstand: Not less than 75 mm.
 - Cover to abutment: Not less than 150 mm.
4. Fixing: Lead wedges into bed joint, clips to bottom edge at laps and 500 mm centres

420 COVER FLASHINGS

1. Description: To match existing
2. Lead
 - Thickness: 2.65 mm (Code 6)
3. Dimensions
 - Lengths: Not more than 1500 mm.
 - End to end joints: Laps of not less than 100 mm.
 - Cover: Overlap to upstand of not less than 75 mm.
4. Fixing: Lead wedges into bed joint, clips to lead upstand at laps and 500 mm centres

440 SOAKERS AND STEP FLASHINGS

1. Description: To match existing

2. Lead soakers
 - Thickness: 1.75-2.00 mm (Code 4) 2.00-2.50 mm (Code 5)
 - Dimensions
 - o Length: Slate/ tile gauge + lap + 25 mm.
 - o Upstand: Not less than 75 mm.
 - o Underlay: Not less than 100 mm.
 - Fixing: By roofer.
3. Lead step flashings
 - Thickness: 2.65 mm (Code 6)
 - Dimensions
 - o Lengths: Not more than 1500 mm.
 - o End to end joints: Laps of not less than 100 mm.
 - o Cover: Overlap to soaker upstands of not less than 65 mm.
 - Fixing: Lead wedges at every course.

450 STEP AND COVER FLASHINGS

1. Description: To match existing
2. Lead
 - Thickness: 2.65 mm (Code 6)
3. Dimensions
 - Lengths: Not more than 1500 mm.
 - End to end joints: Laps of not less than 100 mm.
 - Upstand: Not less than 85 mm.
 - Cover to roof: Not less than 150 mm.
4. Fixing: Lead wedges at every course and clips at not more than 500 mm centres along free edge.

452 SINGLE-STEP AND COVER FLASHINGS

1. Description: To match existing
2. Lead
 - Thickness: 2.65 mm (Code 6)
3. Single-step flashings
 - Dimensions
 - o End to end joints: Laps of not less than 50 mm.
 - o Cover: Overlap to cover flashing upstands of not less than 65 mm.
 - Fixing: Lead wedges at every step.
4. Cover flashings
 - Dimensions
 - o Lengths: Not more than 1500 mm.
 - o End to end joints: Laps of not less than 100 mm.
 - o Upstand: Not less than 85 mm.
 - o Cover to roof: Not less than 150 mm and over first full tile corrugation.
 - Fixing: Turn over head of tile and clip (clause 715) at not more than 500 mm centres along free edge. At pitches over 30°, plug and screw upstand to abutment in top third of each length only.

454 SINGLE-STEP FLASHINGS

1. Description: To match existing
2. Lead
 - Thickness: 2.65 mm (Code 6)
3. Dimensions
 - Lengths: Not more than 1500 mm.
 - End to end joints: Laps of not less than 50 mm.
 - Cover: Overlap to lead roof upstand of not less than 65 mm.
4. Fixing: Lead wedges at every step.

456 STEP FLASHINGS WITH SECRET GUTTER

1. Description: To match existing
2. Lead step flashings
 - Thickness: 2.65 mm (Code 6)
 - Dimensions
 - o Lengths: Not more than 1500 mm.
 - o End to end joints: Laps of not less than 100 mm.
 - o Cover: Overlap to gutter lining upstand of not less than 65 mm.
 - Fixing: Lead wedges at every course.
3. Lead secret gutter lining
 - Thickness: 1.75 or 1.80 mm (Code 4) 2.00 or 2.24 mm (Code 5)
 - Dimensions
 - o Lengths: Not more than 1500 mm.
 - o End to end joints: Laps of not less than 300 mm.
 - o Upstand: Not less than 65 mm above tiles.
 - Fixing: Dress into secret gutter and form a welted edge at side to be tiled. Nail top edge of each sheet. Dress bottom end neatly into gutter.

458 STEP AND COVER FLASHING WITH SECRET GUTTER

1. Description: To match existing
2. Lead step and cover flashing
 - Thickness: 2.65 mm (Code 6)
 - Dimensions
 - o Lengths: Not more than 1500 mm.
 - o End to end joints: Lap of not less than 100 mm.
 - o Upstand: Not less than 85 mm with overlap to gutter lining upstand of not less than 65 mm.
 - o Cover to roof: Not less than 150 mm.
 - Fixing: Lead wedges at every course and clips at not more than 500 mm centres along free edge.
3. Lead secret gutter lining
 - Thickness: 1.75 or 1.80 mm (Code 4) 2.00 or 2.24 mm (Code 5)
 - Dimensions
 - o Lengths: Not more than 1500 mm.
 - o End to end joints: Laps of not less than 300 mm.
 - o Upstand: Not less than 65 mm above tiles.

- Fixing: Dress into secret gutter and form a welted edge at side to be tiled. Nail top edge of each sheet. Dress bottom end neatly into eaves gutter.

460 CHANGE OF ROOF PITCH FLASHINGS

1. Description: To match existing
2. Lead
 - Thickness: 2.65 mm (Code 6)
3. Dimensions
 - Lengths: Not more than 1500 mm.
 - End to end joints: Laps of not less than 150 mm.
 - Under course of slates/ tiles above: Not less than 150 mm.
 - Over course of slates/ tiles below: Not less than 150 mm.
4. Fixing: Nail top edge at 150 mm centres and welt edge. Clip bottom edge at laps and 500 mm centres.

470 FLASHINGS

1. Description: To match existing
2. Lead
 - Thickness: 2.65 mm (Code 6)
3. Dimensions
 - Lengths: Not more than 1500 mm.
4. Fixing: Fixing: Nail top edge at 150 mm centres and welt edge. Clip bottom edge at laps and 500 mm centres.

472 CHIMNEY FLASHINGS TO SLATE/ PLAIN TILE ROOFS

1. Lead front apron
 - Thickness: 2.65 mm (Code 6)
 - Dimensions
 - o Length: Width of chimney plus not less than 150 mm underlap to each side flashing.
 - o Upstand: Not less than 75 mm.
 - o Cover to roof: Not less than 300 mm.
 - Fixing: Lead wedges into bed joint.
2. Lead soakers
 - Thickness: 1.75mm to 1.8mm (Code 4).
 - Dimensions
 - o Length: Slate/ tile gauge + lap + 25 mm.
 - o Upstand: Not less than 75 mm.
 - o Underlap: Not less than 100 mm.
3. Lead step flashings
 - Thickness: 2.65 mm (Code 6)
 - Dimensions
 - o Lengths: Not more than 1500mm.
 - o End to end joints: Laps of not less than 100 mm.
 - o Front end: Turn 75 mm around chimney over apron.
 - o Cover: Overlap to soaker upstands of not less than 65 mm.
 - Fixing: Lead wedges at every course.

4. Lead back gutter
 - Thickness: 2.65 mm (Code 6)
 - Dimensions
 - o Length: Width of chimney plus not less than 100 mm overlap to each side flashing.
 - o Upstand: Not less than 100 mm.
 - o Gutter sole: Not less than 150 mm.
 - o Cover up roof: Not less than 225 mm.
5. Lead back gutter cover flashing
 - Thickness: 2.65 mm (Code 6)
 - Dimensions
 - o Length: Width of chimney plus not less than 100 mm overlap to each side flashing.
 - o Cover: Overlap to back gutter upstand of not less than 75 mm.
 - Fixing: Lead wedges into bed joint.

478 CHIMNEY DAMP-PROOF COURSE

1. Position: Not less than 150 mm above roof finish
2. Lead
 - Thickness: 2.00 or 2.24 mm (Code 5)
3. Protection: Fully coated with high build bitumen based paint on both sides of surfaces to be embedded
4. Dimensions
 - Plan area of chimney plus laps on perimeters: turned down over stack externally with not less than 75 mm overlap to upstand, through flue lining and turned up 25 mm all round internally.
5. Laying: On a thin even bed of wet mortar.
 - Next layer of overlying construction: Bed on wet mortar without delay and finish joint neatly.

497 LEAD DAMP-PROOF COURSE/ CAVITY TRAY AT RAKING ABUTMENTS

1. Lead
 - Thickness: 2.00 or 2.24 mm (Code 5)
 - Finish: Fully coated on both sides with high-build, bitumen based paint on the surfaces which are to be embedded.
2. Joints
 - Generally: Lap not less than 50 mm.
 - Where the lead spans a cavity: Lead-welded.
3. Laying: On a thin even bed of wet mortar.
 - Next layer of overlying construction: Bed on mortar without delay and finish joint neatly.
 - Chase in bedding mortar under damp-proof course: Rake out to a depth of 25 mm before fully set, for subsequent fitting of flashing.

498 COMBINED LEAD DAMP-PROOF COURSE/ CAVITY TRAY AND COVER FLASHING AT HORIZONTAL ABUTMENTS

1. Lead
 - Thickness: 2.00 or 2.24 mm (Code 5)
 - Finish: Fully coated on both sides with high-build, bitumen based paint on the surfaces which are to be embedded.
2. Length: Not more than 1500 mm.

3. Cover of flashing: Not less than 300 mm.
4. Joints: Lead-weld gusset upstand not less than 100 mm from end of each length, coinciding with vertical mortar joint in wall. Lap adjoining length over gusset upstand.
5. Laying: On a thin even bed of wet mortar.
 - Next layer of overlying construction: Bed on mortar without delay and finish joint neatly.
6. Fixing cover flashing:

GENERAL REQUIREMENTS/ PREPARATORY WORK

510 WORKMANSHIP GENERALLY REVISED

1. Standard: In accordance with BS EN 14783 and BS EN 12588 and to BS 6915 and latest edition of 'Rolled lead sheet. The complete manual' published by the Lead Sheet Training Academy.
2. Fabrication and fixing: To provide a secure, free draining and completely weathertight installation. All laps, lengths and fixing to be in accordance with latest edition of 'Rolled lead sheet. The complete manual' published by the Lead Sheet Training Academy.
3. Operatives: Trained in the application of lead coverings/ flashings. Submit records of experience on request.
4. Preforming: Measure, mark, cut and form lead prior to assembly wherever possible.
5. Marking out: With pencil, chalk or crayon. Do not use scribes or other sharp instruments without approval.
6. Bossing and forming: Straight and regular bends, leaving sheets free from ripples, kinks, buckling and cracks.
7. Solder: Use only where specified.
8. Sharp metal edges: Fold under or remove as work proceeds.
9. Finished work: Fully supported, adequately fixed to resist wind uplift but also able to accommodate thermal movement without distortion or stress.
10. Protection: Prevent staining, discolouration and damage by subsequent works.

515 LEAD-WELDING

1. In situ lead-welding: Not permitted.

520 LEAD SHEET

1. Production method
 - Rolled, to BS EN 12588, or
 - Machine cast and BBA-certified, or
 - Sand cast, from lead free from bitumen, solder, other impurities, inclusions, laminations, cracks, air, pinholes and blowholes; to code thicknesses but with a tolerance (by weight) of $\pm 10\%$.
2. Identification: Labelled to show compliance with the harmonized standard (hEN) BS EN 14783, where appropriate, and detail of the thickness/ code, weight and type.

550 LIGHTNING PROTECTION

1. Lead coverings: Attach the following to a lightning protection system:
 - Electrical continuity: Provide between lead sheets. Discontinuous sections must be separately bonded.

555 LAYOUT

1. Setting out of longitudinal and cross joints: Submit proposals.

560 CONTROL SAMPLES

1. General: Complete areas of the finished work, and obtain approval of appearance before proceeding:
2. Size: Submit proposals
3. Location: Submit proposals

565 MOCK-UP

1. General: At an agreed stage in the detailed design work construct a mock-up as follows:
2. Size: Submit proposals
3. Location: Submit proposals
4. Purpose: To compare appearance of bossing and lead-welding, finalize profile of hood over window openings and agree standard of workmanship
5. Inspection: Obtain approval of appearance before proceeding. Retain mock-up in undisturbed condition until completion of lead installation.

570 EXISTING METAL RETAINED

1. Type/ Location/ Extent: Leadwork existing
2. Cleaning: Remove dirt without damage to metal or adversely affecting other material.

580 EXISTING METAL REUSED

1. Type/ Location/ Extent: Leadwork existing
2. Handling/ Storage: Keep for reuse in the Works.

585 EXISTING METAL REMOVED TO REMAIN THE PROPERTY OF THE EMPLOYER

1. Type/ Location/ Extent: Leadwork existing
2. Removal: Give notice when the metal is to be stripped.
 - Handling/ Storage: Keep for reuse by the employer.

610 SUITABILITY OF SUBSTRATES

1. Condition: Dry and free of dust, debris, grease and other deleterious matter.

620 PREPARATION OF EXISTING TIMBER SUBSTRATES

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%.

625 EXISTING MEMBRANE

1. Defective, unsuitable or missing membrane: Give notice.

627 EXISTING AVCL

1. Defective, unsuitable or missing AVCL: Give notice.

630 PLYWOOD OVERLAY

1. Standard: Manufactured to an approved national standard and to BS EN 636, section 8 (plywood for use in humid conditions).
 - Sheet size: 2400 or 1200 x 1200 mm and 6 mm thick.
2. Moisture content: Not more than 22% at time of covering. Give notice if greater than 16%.
3. Laying: Parallel to perimeter edges with cross joints staggered and a 0.5-1 mm gap between sheets.

4. Fixing: With 25 mm annular ringed shank copper or stainless steel nails, at 300 mm grid centres over the area of each sheet and at 150 mm centres along edges, set in 10 mm from perimeter edges and in pairs across joints.
 - Nail heads: Set flush with or just below the surface.

640 TIMBER FOR USE WITH LEADWORK

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. Give notice if greater than 16%.
3. Preservative treatment: Organic solvent as section Z12 and Wood Protection Association Commodity Specification C8.

650 LAYING SHEET UNDERLAY

1. Handling: Prevent tears and punctures.
2. Laying: Butt or overlap jointed onto a dry substrate.
 - Fixing edges: With copper or stainless steel staples or clout nails.
 - Do not lay over roof edges but do turn up at abutments.
 - Wood core rolls: Fixed over sheet underlay.
 - Protection: Keep dry and cover with lead at the earliest opportunity.

FIXING LEAD

705 HEAD FIXING LEAD SHEET

1. Top edge: Secured with two rows of fixings, 25 mm and 50 mm from top edge of sheet, at 75 mm centres in each row, evenly spaced and staggered.
2. Sheets less than 500 mm deep: May be secured with one row of fixings, 25 mm from top edge of sheet and evenly spaced at 50 mm centres.

710 FIXINGS

1. Nails to timber substrates: Stainless steel (austenitic) clout nails to BS 1202-1.
 - Shank type: Annular ringed, helical threaded or serrated.
 - Shank diameter: Not less than 2.65 mm for light duty or 3.35 mm for heavy duty.
 - Length: Not less than 20 mm or equal to substrate thickness.
2. Screws to concrete or masonry substrates: Brass or stainless steel.
 - Diameter: Not less than 3.35 mm.
 - Length: Not less than 19 mm.
 - Washers and plastic plugs: Compatible with screws and lead.
3. Screws to composite metal decks: Self tapping as recommended by the deck and lead manufacturer/ supplier for clips.

765 CONTINUOUS CLIPS FOR CROSS JOINTS IN ROOFING

1. Lead continuous clips: 50 mm wide, cut from sheets of same thickness/ code as sheet being secured.
2. Fixing clips: Lead-weld top edge of clips to underlap sheet, 50 mm from lower edge of overlap.
3. Fixing lead sheet: Welt edge around continuous clip and dress down.

770 WEDGE FIXING INTO JOINTS/ CHASES

1. Joint/ chase: Rake out to a depth of not less than 25 mm.

2. Lead: Dress into joint/chase.
 - Fixing: Lead wedges at not more than 450 mm centres, at every change of direction and with at least two for each piece of lead.
3. Sealant: Submit proposals
 - Application: As section Z22.

780 WEDGE FIXING INTO DAMP-PROOF COURSE JOINTS

1. Joint: Rake/ cut out under damp-proof course to a depth of not less than 25 mm.
2. Lead: Dress lead into joint.
 - Fixing: Lead wedges at not more than 450 mm centres, at every change of direction and with at least two for each piece of lead.
3. Sealant: Submit proposals
 - Application: As section Z22.

790 SCREW FIXING INTO JOINTS/ CHASES

1. Joint/ chase: Rake out to a depth of not less than 25 mm.
2. Lead: Dress into joint/ chase and up back face.
 - Fixing: Into back face with stainless steel screws and washers and plastics plugs at not more than 450 mm centres, at every change of direction, and with at least two fixings for each piece of lead.
3. Sealant: Submit proposals
 - Application: As section Z22.

JOINTING LEAD

810 FORMING DETAILS

1. Method: Bossing or lead-welding except where bossing is specifically required.
2. Lead-welded seams: Neatly and consistently formed.
 - Seams: Do not undercut or reduce sheet thickness.
 - Filler strips: Of the same composition as the sheets being joined.
 - Butt joints: Formed to a thickness one third more than the sheets being joined.
 - Lap joints: Formed with 25 mm laps and two loadings to the edge of the overlap.
3. Bossing: Carried out without thinning, cutting or otherwise splitting the lead sheet.

830 STANDING SEAM JOINTS

1. Joint allowance: 100 mm overlap, 75 mm underlap and copper or stainless steel clips at not more than 750 mm centres.
2. Forming joint: Welt overlap and clips around underlap, loosely turn over to form a standing seam of consistent cross section.

847 HOLLOW ROLL JOINTS

1. Joint allowance: 125 mm overcloak and 100 mm undercloak.
2. Copper or stainless steel clips: Fix to substrate at not more than 450 mm centres.
3. Overcloak: Welt with clips around undercloak to form a roll of consistent cross section.

862 DRIPS WITH SPLASH LAPS

1. Underlap: Dress up full height of drip upstand.
 - Fixing: Two rows of nails to lower level substrate, 25 mm and 50 mm from face of drip. At 75 mm centres in each row, evenly spaced and staggered. Seal over nails with a soldered or lead-welded dot.

2. Overlap: Dress over drip and form a 75 mm splash lap.
 - Fixing: Lead clips, lead-welded to underlap, with not less than one per bay.

865 DRIPS WITHOUT SPLASH LAPS

1. Underlap: Dress into rebate along top edge of drip.
 - Fixing: One row of nails at 50 mm centres on centre line of rebate.
2. Overlap: Dress over drip to just short of lower level.

880 WELTED JOINTS

1. Joint allowance: 50 mm overlap and 25 mm underlap.
2. Copper or stainless steel clips: Fix to substrate at not more than 450 mm centres.
3. Overlap: Welt around underlap and clips and lightly dress down.

950 PLAQUES – EXISTING

1. Existing plaques/ inscriptions: Retain and refix in approved locations by lead-welding along edges.

970 PATINATION OIL

1. Manufacturer: Submit proposals
 - Product reference: Submit proposals
2. Application: As soon as practical, apply a smear coating to lead, evenly in one direction and in dry conditions.



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