Decra®
Roof Systems Limited
A member of the Icopal Group

NBS Specification for Sports Pavilion Barton Green Westleigh, using the Decra Roof Systems Plus Tile profile.

1st September, 2009

NBS Model Specification – Preliminaries

FOREWORD:

This specification has been prepared from an external & internal survey carried out during a site visit by Graham Kidd.

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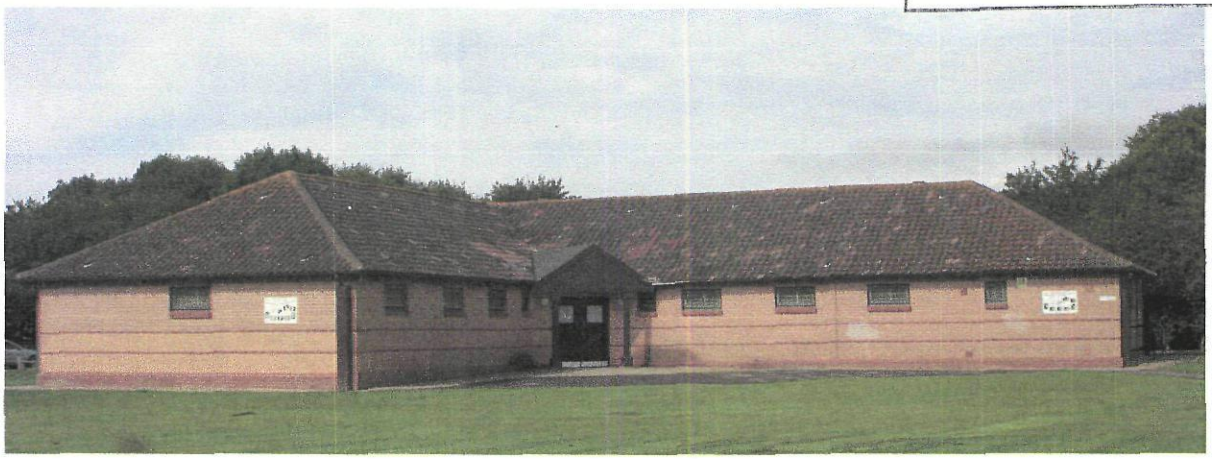
LOCATION:

Sports Pavilion, Bartons Green, Westleigh, PO9 5JD



PROPOSAL:

Remove existing concrete Pantiles and existing insulation laid at ceiling level.

Retain existing pitched trussed cold roof structure.

If new roof level is likely to affect existing guttering arrangement, remove existing gutter brackets, guttering, and then re-position at appropriate level to new roof covering.

CONSTRUCTIONAL DESIGN NOTES:

- Existing cold roof
- Roof pitch 23°
- Truss rafters 115mm x 35mm spaced at 600mm centres.
- Exposed truss rafter feet at eaves.
- Low level ventilation at eaves via existing ventilators to top of brick walls & between rafters
- Decra Ventilated ridge.
- Roof layout consists of Ridges, Hips, Gables, Valley's & Eaves.

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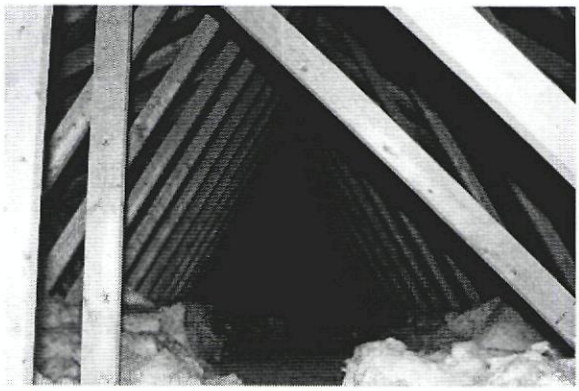

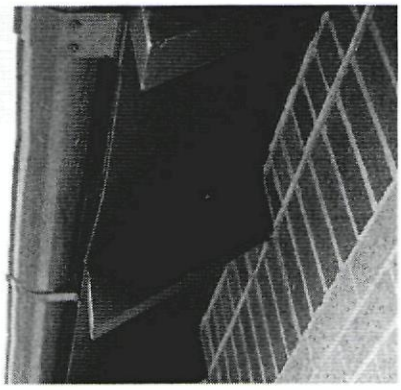

Important Notes:

Decra Roof Systems recommend that a site survey be undertaken by persons tendering the contract. It shall be the responsibility of the successful contractor to ensure that all necessary preparation and working practices are achieved to produce a level of workmanship and finished appearance resulting in client satisfaction.

Contractors must at all times follow the instruction contained within the Decra's installation instructions (available at www.decra.co.uk) or contact Decra Roof Systems technical support team if in doubt.

LOFT INSULATION:

Install insulation to ceiling within the loft. Supply and lay one layer of mineral or glassfibre type quilt laid tightly between the joists and an additional layer laid tightly over the first layer over the joists (i.e. at right angles to the first layer).

Where deemed necessary an additional vapour control layer should be installed under Warm side of the insulation.

Insulation should be selected of sufficient depth to ensure that the current recommendations of Building Regulation L (conservation of fuel & power) and BS 5250: Code of practice for control of condensation are met and current codes of practice should be followed at all times.

All pipework and ducting must be insulated with appropriate insulants. Areas under cold water storage tank should be left un-insulated.

Loft hatches should be draft sealed and insulated with an equivalent thickness of insulation.

All gaps and holes in the ceiling should also be vapour sealed.

The bottom layer to be installed over the walls and terminated in accordance with good practice and to comply with the recommendations of DTLR Robust Detailing.

At all times, insulation should be installed in accordance with manufacturer's recommendations and current codes of practice.

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NBS Model Specification – Decra Roof System

This model specification is designed for specifiers of Decra Roof Systems Ltd products who require National Building Specification clauses (NBS), for sections H67 Single Lap Metal Roof Tiles. The model specification provided below is not designed to be exhaustive and is given in good faith.

The purpose/extent of the enclosed model specification is to provide an indicative outline of the general processes required to complete a successful Decra Roof. It is not the intent of this model specification to provide step by step guidance covering all aspects and issues that may be relevant to the installation of this project. Installers must always follow Decra's installation instructions (available at www.decra.co.uk) or contact Decra Roof Systems technical support team if in doubt.

Where there is a requirement for additional products and execution clauses that fall outside the scope of NBS H67 (Single Lap Metal Roof Tiles) it is the specifiers responsibility add these clauses to the specification from the relevant NBS section.

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H67 METAL SINGLE LAP ROOF TILING

To be read with Preliminaries/ General conditions.

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GENERAL

110 METAL ROOF TILING TO Sports Pavilion, Westleigh, PO9 5JD

- Substrate: Trussed rafters at 600mm centres.
- Pitch: 10° and greater
- Underlay: FRCA4 Decra 700 High Performance Breather Membrane.
  - Direction: Parallel to eaves.
  - Head-lap (minimum): 300mm – for 10° to 12° pitch, 225mm – for 12.5° to 14° pitch, 150mm – for 15° to 34° pitch, 100mm – for 35° pitch and above.
- Battens:
  - Size: 50 x 25mm
  - Gauge: 368mm
  - Fixing: Strictly in accordance with manufacturer instructions
- Tiles:
  - Manufacturer: Decra Roofing Systems Ltd. Unit 4, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9QB. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk .
    Product reference: Decra Plus Tile (0.9mm) Tile
  - Finish and durability : To meet the specified performance requirements. the metal tile and accessories required must; (1) Be manufactured from 0.9mm thick high quality steel and zinc/aluminium galvanised for maximum performance and durability. The use of Z275 Zinc galvanised coatings is strictly prohibited. (2) Be given a passivation coating with a subsequent epoxy primer applied to both sides to ensure maximum adhesion of subsequent acrylic coating. The use of acrylic as a primer coatings is strictly prohibited. (3) Have a mandatory polyester coating on underside. (4) Subsequent acrylic resin coatings must have a non-toxic fungicide incorporated into the coating for added protection. (5) Have a stone granular finish, which must be ceramically colour glazed before being added to the resin coating, giving a good covering with no gaps between the granules. (6) Have a finishing coat of a clear acrylic resin, incorporating a U.V inhibitor, applied over the granules. (7) The use of a paint as a colour bearing coating final finish is strictly prohibited. (8) Manufactured to ISO 9000 Quality Standards and ISO 14001 Environmental Management Systems. (9) Be independently assessed to have a product life span of in excess of 40 years.
  - Colour: To be advised by client.
  - Size: 1260mm x 368mm
  - Gauge: 368mm
  - Bond: Straight bond – recommended for simple shapes (i.e. gable to gable roofs). Broken bond – recommended for complex shapes (i.e. hip and valley roofs).
  - Fixing: 4 no 50mm x 2.5mm coated Decra Plus nails per tile located in positions as recommended in Decra Roof Systems installation guides
- Other requirements: 30-year Weather Security Guarantee (consult with Decra for details and conditions

PRODUCTS

310 BATTENS/ COUNTERBATTENS - TREATED

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- Timber: Sawn softwood.
  - Standard: BS 5534, clause 4.12.1.
  - Permissible characteristics and defects: Not to exceed limits in BS 5534, Annex C.
  - Moisture content at time of fixing and covering (maximum): 22%.
- Preservative treatment: As section Z12 and British Wood Preserving and Damp-proofing Association Commodity Specification C8.
  - Type: Organic solvent (OS) or CCA as appropriate – see NBS section Z12, table 4. (Note: CCA treated wood must not be used in residential or domestic construction).

320 EAVES UNDERLAY SUPPORTS
- Type: Plastic underlay carrier .
- Manufacturer: : Decra Roofing Systems Ltd. Unit 4, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9QB. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk
  - Product reference: Decra Eaves Guard 400 Ref: DXUM400.

325 EAVES VENTS
- Type: Fascia mounted ventilator with a continuous rafter roll eaves ventilation tray and gutter spacing brackets.
- Manufacturer: Decra Roofing Systems Ltd. Unit 4, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9QB. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk
- Product reference: Decra Eaves Ventilation System in accordance with manufacturers recommendations

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335 VERGE CAPS
- Manufacturer: Decra Roofing Systems Ltd. Unit 4, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9QB. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk .
  - Product reference: 'D' Box Barge Cap Ref: PH_D1
- Accessories:

340 HIP CAPS
- Manufacturer: Decra Roofing Systems Ltd. Unit 4, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9QB. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk .
  - Product reference: 'D' Ridge Ref: PD_D1
- Accessories: Ridge/Hip sealing strip Ref: PSXD1 - this is a required component for Decra Plus

345 VALLEYS
- Manufacturer: Decra FormFlash or Lead or GRP Valley Troughs complying with the requirements of BS 5534
- Product reference: Valley to be formed from metal sheet (Decra FormFlash or code 5 lead) or moulded glass fibre or similar approved lining, supported on valley boarding. Decra FormFlash or Lead valleys if required to client's specification in NBS sections: H71 – lead.

375 RIDGE CAPS
- Manufacturer: Decra Roofing Systems Ltd. Unit 4, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9QB. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk .
  - Product reference: 'D' Ridge Ref: PD_D1
- Accessories: Ridge/Hip sealing strip Ref: PSXD1 - this is a required component for Decra Plus

385A STRIP VENTILATORS

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- Manufacturer: Decra Roofing Systems Ltd. Unit 4, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9QB. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk .
  - Product reference: Universal D Ridge /Hip Ventilator Ref: DVUXW1
- Location: Ridges and top edge abutments

390 RIDGE TERMINALS
- Manufacturer: Decra Roofing Systems Ltd. Unit 4, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9QB. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk .
  - Product reference: Gas Flue Ridge Terminal Ref: DVG_W1 (adaptor for connection to flue not included)
- Accessories: install blanks to the ridge batten/ cap detail to prevent gas entering the roof space.

400 ROOF SLOPE TERMINALS
- Manufacturer: Decra Roofing Systems Ltd. Unit 4, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9QB. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk .
  - Product reference: Decra Plus Tile In-line Soil/Mechanical Extract Ventilation tile – including adaptor and flexipipe Ref: DVS_W1

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EXECUTION

605 BASIC WORKMANSHIP
- General: Fix metal tiling and accessories to make the whole sound and weathertight at earliest opportunity.
- Setting out: To regular appearance, with neat fit at edges, junctions and features.
- Fixings of accessories: As recommended by metal tile manufacturer.
- Metal tiles: Laps must face away from valley or rainwater discharge pipes on roof.
- Cut metal tiles: Cold cut and treat as recommended by manufacturer. Tiles and accessories must not be cut with an angle grinder.
- Flashings: Fix with or immediately after metal tiling. Form neatly.

610 REMOVING EXISTING TILING
- General: Carefully remove tiles, battens, underlay, etc. with minimum disturbance of adjacent retained tiling.

615 FIRE SEPARATING WALLS
- Separating walls: Completely fill space between top of wall and underside of metal tiles with mineral wool quilt to provide fire stopping.
- Boxed eaves: Completely seal air paths in plane of separating wall with wire reinforced mineral wool, not less than 50 mm thick, fixed to rafters and carefully cut to shape to provide fire stopping.

625 LAYING UNDERLAY
- Handling: Do not tear or puncture.
- Laying: Maintain consistent tautness.
- Vertical laps (minimum): 100 mm wide, coinciding with supports and securely fixed.
- Fixing: Aluminium or steel coated by zinc or zinc alloy, 20 x 3 mm clout head nails.
- Eaves: Where exposed, underlay must be BS 747/ BS 5534, Annex A Type 5U, or an equivalent UV durable type.
- Penetrations: Use proprietary underlay seals or cut underlay to give a watertight fit around pipes and components.
- Ventilation paths: Do not obstruct.

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645 FIXING BATTENS - ROOF TILING

- Setting out: Align parallel to ridge in straight horizontal lines to gauge required by the metal tile. Align on adjacent areas.
- Batten length (minimum): Sufficient to span over three supports.
- Joints in length: Square cut. Butt centrally on supports.
  - Rafters up to 600 mm centres: Not more than one batten joint in any four consecutive battens on the same support.
  - Rafters over 600 mm centres: Stagger batten joints to avoid coincidence on same support.
- Additional battens: Provide where unsupported laps in underlay occur between battens.
- Fixing: Each batten to each support. Skew fix at joints in length.

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655 FIXING METAL TILES

- Setting out: Lay each course to specified bond.
- Side laps: 64mm
- Fixing: As recommended by metal tile manufacturer.
  - Nail heads: Treat vertically driven nail heads with Decra finishing kit.

660 VENTILATED EAVES FOR COLD ROOF CONSTRUCTION

- Eaves vents: Fix to top of fascia board.
- Ventilator trays: Fix to provide free passage of air over insulation.
- Underlay support: Continuous to prevent water-retaining troughs.
- Gutter: Dress underlay or underlay support tray to form drip into gutter. Ensure gutter brackets are fixed to provide a ventilation path to eaves vents.
- First course metal tiles: Fix with tails projecting 40 mm over gutter or to centre of gutter, whichever dimension is the lesser Seal the heads of vertically driven nails with Decra finishing kit.
  - Fixing: Fix with 7no.Decra Plus nails on each side
- Manufacturer: Decra Roofing Systems Ltd. Unit 3, Faraday Centre, Faraday Road, Crawley, West Sussex.RH10 9PX. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk

670A VERGES

- Barge board: The top of the barge board should be level the top face of the battens
- Underlay: Carry over full width of verge and turn up face of barge board.
- Battens: Carry over underlay and finish adjacent to barge board.
- Verge fixing batten: Size: 2no. 50 x 38mm
  - Fixing: To battens and external face of bargeboard
- Metal tiles: Cut and form to an upstand.
- Verge and end caps: Fix with 4no. Decra nails on each side.

675 HIPS

- Underlay: Lay courses over hip.
  - Overlaps (minimum):150 mm.
- Hip fixing battens:
  - Size: 50 x 25mm
  - Fixing: Install over Decra Ridge Sealing Strip and secure through tile into underlying battens.
- Metal tiles: Raking cut tiles.
- Hip and end caps: Fix to face of fixing battens with 4no. Decra nail on each side of the D Ridge.

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690 LAYING GRP VALLEY
- Valley boards: Locate in a position suitable to accept metal tiling.
- Underlay: Lay as recommended by GRP valley manufacturer.
- Battens: Project over valley to provide fixing for metal tiles.
- Metal tiles: Cut adjacent tiles to fit neatly, allowing sufficient downturn to cover battens.
  - Valley width between tiles: as appropriate to comply with the requirements of BS 5534

695 LAYING METAL VALLEY
- Valley boards: Locate in a position suitable to accept metal tiling.
- Underlay: Cut to rake and dress over tilting fillets to lap onto metal valley. Ensure underlay is not laid under metal.
- Battens: Project over valley to provide fixing for metal tiles.
- Metal tiles: Cut adjacent tiles to fit neatly, allowing sufficient downturn to cover battens.
  - Valley width between tiles: as appropriate to comply with the requirements of BS 5534

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740 VENTILATED RIDGES
- Underlay: Lay to provide a 10 mm air gap centred on the ridgeline.
- Battens: Position and fix to suit ridge cap profile.
- Ridge fixing battens:
  - Size: 50mm x 25mm
  - Fixing: Install over Decra Ridge Sealing Strip and secure through the tile into underlying battens.
- Metal tiles: Cut tiles.
- Ventilator: Universal D Ridge/Hip Ventilator, install between ridge cap and ridge fixing batten
- Ridge and end caps: Fix to face of fixing battens through continuous ventilator.

770 CHANGE OF ROOF PITCHES
- Tiling substrate work: Set out battens at appropriate gauge from eaves to change of roof pitch. Set out battens at pitch change from front edge of batten. Fix next tile batten at appropriate gauge.
- Metal tiles: Fix courses above and below metal tile change in roof pitch to form a weathertight junction.

775 INSTALLING ROOF SLOPE TERMINALS
- Ventilator tiles:
  - Connect to Soil & Vent Pipes.

COMPLETION

910 COMPLETION
- Roof area: Clean.
- Rainwater pipes, gutters and outlets: Clear.
- Metal tile profiles: Free from defects.
- Roof edges, junctions and features: Watertight.

LEADWORK & ASSOCIATED LEAD FLASHINGS:

As an alternative to the use of traditional lead flashings we have included in this specification for the use of Decra FormFlash.

Decra FormFlash is a lead free waterproof flashing for use in all applications where lead is traditionally installed including: stepped flashings, rooflights, abutment flashings, dormers,

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valleys, chimney flashings and flat/pitched roof junctions.

Features and Benefits of Decra FormFlash

- Over 4 times lighter than Code 4 lead flashing providing easier handling and health and safety advantages.
- Is compatible with all common building materials with which it is likely to come into contact.
- Looks like lead to the eye, but not to the touch, so maintaining aesthetics but deterring thieves.
- Has no scrap value so is of value only to the installer.
- Environment friendly and non-toxic – no lead, no other heavy metals, no PVC.
- Does not cause staining when rainwater runs off of it.
- Made of a monolithic strong durable SEBS/bitumen blend.
- Allows flashings up to 10m in length to be installed without joints making it quicker and easier to install.
- Malleable and easy to form.
- Weldable – with hot air gun or flame free welder.
- Self sealing.
- Easy to cut.

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NOTE: There are currently no specific NBS clauses produced for lead free waterproof flashing systems. For the purpose of this specification we have modified the clauses contained within NBS section H71 lead sheet coverings and flashings to suit a lead free waterproof flashing system. All users of this specification must verify the information and ensure that it is suitable for the particular project application for which it is required

H71 LEAD SHEET COVERINGS/FLASHINGS

To be read with Preliminaries/ General conditions. NOTE: There are currently no specific NBS clauses produced for lead free waterproof flashing systems. For the purpose of this specification we have modified the clauses contained within NBS section H71 lead sheet coverings and flashings to suit a lead free waterproof flashing system. All users of this specification must verify the information and ensure that it is suitable for the particular project application for which it is required

60A MATERIALS AND WORKMANSHIP GENERALLY:

- Lead Free Flashing Systems
  - Manufacturer: Decra Roofing Systems Ltd. Unit 4, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9QB. Tel: 01293 545 058. Fax: 01293 562 709. Email: sales@decra.co.uk Email: technical@decra.co.uk Web: www.decra.co.uk .
  - Product reference: Decra FormFlash (lead free waterproof flashing for use in all applications where lead is traditionally installed)
  - Finish and durability : SEBS modified bitumen on a malleable aluminium mesh finished with a fine grey granular finish on the outer face and a polyethylene film on the inner face
  - Colour: Grey
- Site Work & Installation:
  - Decra FormFlash is installed and worked in a similar way to traditional lead flashing, without the need for protective measures, except for wearing gloves to protect from cuts.
  - Decra FormFlash Can be cut with a sharp knife or tin snips.
  - When installed in exposed conditions Decra FormFlash should be mechanically fixed with appropriate stainless steel flat headed self drilling fasteners. Where fastening to Decra Tiles the fasteners should be installed in the same positions as

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the general positioning of the nails used to fasten the Decra roof tiles (e.g Fasteners along the vertical plane of the roof should be located through the downturned nose as shown in the Decra's installation guides. Fasteners along the horizontal plane of the roof should be located 10mm from the high point of the pan for Decra Classic, Elegance, Plus Tile and Parctile profiles, or located at the high points of the tile surface for Decra Stratos & Oberon Tile profiles).
  - Decra FormFlash is weldable with hot air gun or flame free welder.
  - Cut, joint and dress Decra FormFlash neatly and accurately, to provide fully waterproof coverings/flashings, free from ripples, kinks, buckling and cracks.
- Comply with BS 6915 and good practice as described in the latest editions of 'The Lead Sheet Manual' published by the Lead Sheet Association, unless agreed otherwise.
- Ensure that finished Decra FormFlash flashings are fully supported, adequately fixed to resist wind uplift but also able to accommodate thermal movement without distortion or stress (Decra FormFlash flashings up to 10m in length can be installed without joints making it quicker and easier to install).

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15A PITCHED VALLEY LININGS:
- Lining: Decra FormFlash, Design of valley and usage of valley ling material to comply with Decra Roof Systems Ltd installation guides and BS 5534, 2003, Code of Practice Slating and Tiling
- Fixing: Dress over, and beyond, tilting fillets and welt edges. Nail top edge of each sheet. Dress bottom edge neatly into gutter.

30A APRON FLASHINGS
- Material: Decra FormFlash
- End to end joints: Laps of not less than 100 mm.
- Upstand not less than 75 mm.
- Cover to abutment: in accordance with Lead Sheet Association recommendations
- Fixing: Dress Decra FormFlash into joint/chase and fix with wedges (cut from Decra FormFlash) at not more than 300 mm centres. Decra FormFlash should be mechanically fixed with appropriate stainless steel flat headed self drilling fasteners see clause 60A

35A COVER FLASHINGS:
- Material: Decra FormFlash
- End to end joints: Laps of not less than 100 mm.
- Cover: Overlap to upstand of not less than 75 mm.
- Fixing: Dress Decra FormFlash into joint/chase and fix with wedges (cut from Decra FormFlash) at not more than 300 mm centres. Decra FormFlash should be mechanically fixed with appropriate stainless steel flat headed self drilling fasteners see clause 60A

45A STEP AND COVER FLASHINGS:
- Material: Decra FormFlash
- End to end joints: Laps of not less than 100 mm.
- Dimensions:
  Upstand: Not less than 85 mm.
  Cover to roof: Not less than 150 mm.
- Fixing: Dress Decra FormFlash into joint/chase and fix with wedges at every course (cut from Decra FormFlash) at not more than 300 mm centres. Decra FormFlash should be mechanically fixed with appropriate stainless steel flat headed self drilling fasteners see clause 60A

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52A CHIMNEY FLASHINGS:

- Front apron: Decra FormFlash
  Length: Width of chimney plus not less than 150 mm underlap to each side flashing.
  Upstand: Not less than 75 mm.
  Cover to roof: in accordance with Lead Sheet Association recommendations
  Fixing: Dress Decra FormFlash into joint/chase and fix with wedges (cut from Decra FormFlash) at not more than 300 mm centres. Decra FormFlash should be mechanically fixed with appropriate stainless steel flat headed self drilling fasteners see clause 60A
- Back gutter: Decra FormFlash
  Length: Width of chimney plus not less than 100 mm overlap to each side flashing.
  Upstand: Not less than 100 mm.
  Gutter Sole: Not less than 150 mm.
  Cover up roof: Not less than 225 mm.
- Back gutter cover flashing: Decra FormFlash
  Length: Width of chimney plus not less than 100 mm overlap to each side flashing.
  Cover: Overlap to back gutter upstand of not less than 75 mm.
  Fixing: Dress Decra FormFlash into joint/chase and fix with wedges (cut from Decra FormFlash) at not more than 300 mm centres. Decra FormFlash should be mechanically fixed with appropriate stainless steel flat headed self drilling fasteners see clause 60A

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65A EXISTING LEAD TO BE REMOVED will become the property of the contractor. The scrap value of such lead must be estimated by the contractor, itemised separately in the tender, and set against the tender sum.

70A REPLACEMENT OF EXISTING LEAD WITH DECRA FORMFLASH must be carried out in small sections at a time to reduce the risk of weather damage. Provide temporary waterproof coverings to prevent damage to the existing base and building.

75A TIMBER FOR USE WITH DECRA FORMFLASH:

- Planed, free from wane, pitch pockets, decay and insect attack except pinhole borers.
- Moisture content: Not more than 22% at time of covering.
  Inform CA if moisture content greater than 16%.
- Preservative treatment: As section Z12 and British Wood Preserving and Damp-proofing Association Commodity Specification C8.
  - Type: Organic solvent (OS) or CCA as appropriate – see NBS section Z12, table 4. (Note: CCA treated wood must not be used in residential or domestic construction).

84A WELTED JOINTS:

- Where a welted joint is necessary form with a 50 mm overlap, 25 mm underlap and mechanically fix with appropriate stainless steel flat headed self drilling fasteners at 450 mm centres.

90A WEDGE FIXING INTO JOINTS/CHASES:

- Carefully rake out joint/chase to a depth of not less than 25 mm.
- Dress Decra FormFlash into joint/chase and fix with wedges (cut from Decra FormFlash) at not more than 450 mm centres, at every change of direction and with at least two for each piece of Decra FormFlash.
- Prepare joint/chase and apply appropriate sealant.

Terms and Conditions of Use

1. The enclosed information relates exclusively to products manufactured or distributed by Decra Roof Systems Ltd. The information is not design to be exhaustive and is given in good faith. It is not the intent of this model specification to provide step by step guidance covering all aspects and issues that may be relevant to the installation of this project. Installers must always follow Decra's installation instructions (available at www.decra.co.uk) or contact Decra Roof Systems technical support team if in doubt.

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2. All users must verify the information and ensure that it is suitable for the particular project application for which it is required.
3. This model specification assumes that the new or existing roof structure is in a satisfactory condition and is built in accordance with accepted building practice. It is the client's responsibility to satisfy himself that the roof is structurally sound and that local conditions and current Health and Safety Regulations have been taken into account before any contract is undertaken.
4. In line with our policy of constant product improvement, Decra Roof Systems Ltd reserves the right to modify designs and specifications without prior notice.
5. The specification clauses and guidance notes provided in this model specification are based on NBS subscription services and as a consequence are subject to the provisions of copyright, disclaimers and conditions of sale upon which that service is supplied.
6. It is not possible to produce a project specific specification by using the clauses below in isolation, generic NBS clauses (including preliminarys) must also be used.
7. These Specification Guides are for use by the NBS subscribers. If you are not a subscriber and would like more information, please contact:

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The Old Post Office
St Nicholas Street
Newcastle upon Tyne
NE1 1RH

Tel: 0845 456 9594
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