

1. FIX THE BREATHABLE MEMBRANE / UNDERLAY TO EXTEND OVER THE TILTING FILLET / VENTILATION TRAY INTO THE GUTTER. THE UNDERLAY SHOULD OVERHANG BY 50mm/min.
2. FIX FULL COURSE BATTEN (GUTTER BATTEN) SO THAT THE TAILS OF THE SLATES IN THE EAVES AND THE UNDER-EAVES COURSES ALIGN. FIX THE UNDER-EAVES BATTEN IMMEDIATELY BELOW THE EAVES BATTEN.
3. LAY THE SLATES FORMING THE UNDER-COURSE ON THEIR BACKS AND HEAD-NAIL THEM TO THE UNDEREAVES BATTEN.
4. FIX THE EAVES COURSE WITH THE TAILS OF THE SLATES ALIGNING WITH THE TAILS OF SLATES IN THE UNDER-EAVES COURSE.
5. EXISTING BUILD UP OF EXISTING ROOF STRUCTURE SHOWN INDICATIVELY. ALL DETAILS ARE TO BE REVIEWED AND VALIDATED ON SITE.
6. ROOF PITCHES SHOWN FOR INDICATIVE PURPOSES.
7. EXISTING GUTTER / KNEELER DETAIL SHOWN FOR INDICATIVE PURPOSES.

NEW / EXISTING NATURAL SLATES FIXING IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND BS5534 PART 1 2014, BS8000 PART 6 2013 AND SPECIFICATION SECTION H62.

FULL LENGTH SLATES

UNDER-EAVES BATTEN

SHORT SLATE COURSE

Airpath

ASSUMED WALL STRUCTURE.

**NATURAL SLATE
TYPICAL EAVES AND
GUTTER DETAIL**

ANGLED RIDGE TILES JOINTED AND BEDDED IN LIME BASED MORTAR.

NEW / EXISTING NATURAL SLATES FIXING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND BS5534 PART 1 2014, BS PART 6 2013 AND SPECIFICATION SECTION 1

600mm WIDE OVERLAY TO SARKING FELT

EXISTING HIP RAFTER

**NATURAL SLATE
TYPICAL RIDGE TILED HIP DETAIL**

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- ANGLED RIDGE TILES JOINTED AND BEDDED IN LIME BASED MORTAR
- TOP COURSE MAINTAINING LAP
- SHOULDERED COURSE
- BREATHER MEMBRANE / UNDERLAY 150mm AT JUNCTIONS.
- EXISTING RIDGE / APEX BEAM
- NATURAL SLATE
TYPICAL RIDGE DETAIL**
- NEW / EXISTING NATURAL SLATE TO BE LAPPED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND BS5534 PART 6 2013 AND SPECIFICATION

1. MORTAR 1:3 NHL 3.5 LIME / SHARP SAND PIGMENTED TO APPROVED COLOUR.
2. FIX BREATHER MEMBRANE / UNDERLAY OVER THE RIDGE SO THAT IT OVERLAPS THE MAIN UNDERLAY BY AT LEAST 150mm. WHERE THE RIDGE IS VENTILATED, A GAP OF 50mm MUST BE ALLOWED BETWEEN THE TOP OF THE BREATHER MEMBRANE / UNDERLAY AND EACH PITCH.
3. FIX THE TOP COURSE OF SLATES TO MAINTAIN GAUGE.
4. COVER THE RIDGE TILES WITH AN 80mm THICK BEDDED MORTAR AND FIRMLY BED THE EDGES ALONG THE ROOF SLOPE IN LIME BASED MORTAR, WHERE THE RIDGE TILES MEET, SQUEEZE UP THE BEDDING TO FILL THE JOINTS AND STRIKE IT OFF SMOOTHLY, NO SEPARATE POINTING IS NECESSARY.
5. EXISTING BUILD UP OF EXISTING ROOF STRUCTURE SHOWN INDICATIVELY; ALL DETAILS ARE TO BE REVIEWED AND VALIDATED ON SITE.
6. ROOF PITCHES SHOWN FOR INDICATIVE PURPOSES.

SLATE

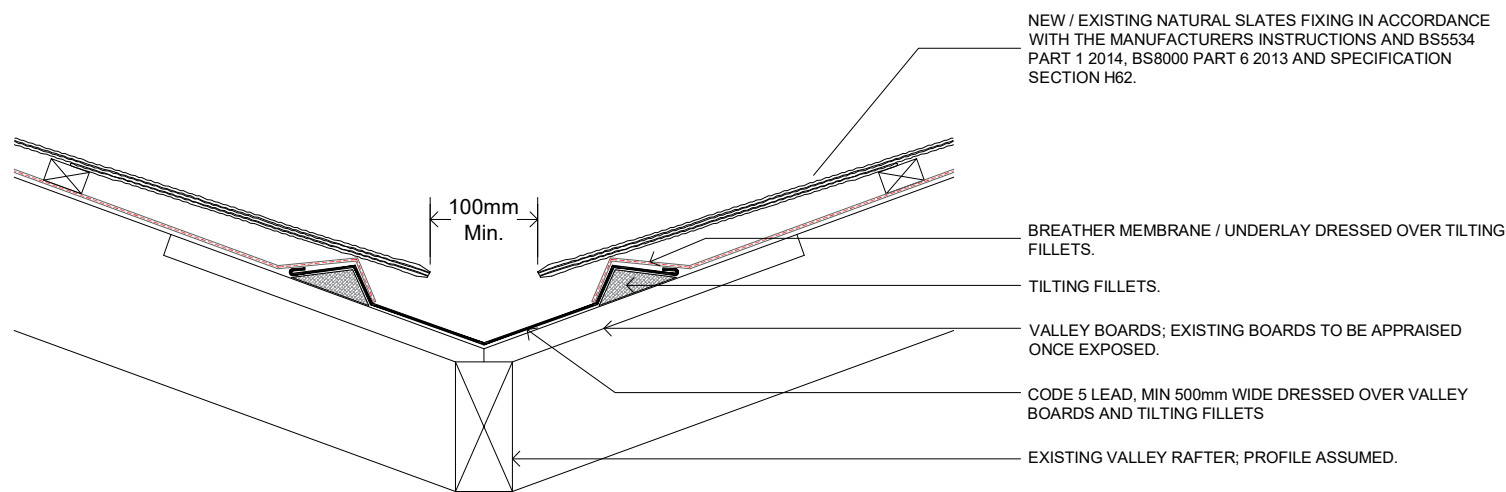
WHERE ROOF PITCHES ARE STRIPPED AND RE-SLATED, COMPLETE REPAIRS TO SARKING AND RAFTERS AS REQUIRED AND INSTALL NEW UNDERLAY - PROCTOR GROUP ROOFSHIELD BREATHER/ VAPOUR PERMEABLE MEMBRANE OR EQUIVALENT TO BE AGREED.

EXISTING SLATES ARE TO BE CAREFULLY REMOVED AND STORED FOR RE-INSTATEMENT. THE CONTRACTOR IS TO ALLOW FOR SORTING REMOVED SLATES BEFORE RE-COVERING AND ALLOW FOR RE-HOLING/ DRESSING AS NECESSARY. ALL SLATES SHOULD 'RING' WHEN STRUCK, AND ALL CRACKED, DULL, SOFT OR PITTED SLATES ARE TO BE REJECTED. HEAD NAIL-HOLE TO BE NOT LESS THAN 25mm FROM THE HEAD OF THE SLATE.

ANY SHORTFALL IN REQUIRED RE-COVERING QUANTITIES ARE TO BE CONFIRMED WITH THE CA PRIOR TO RE-SLATING. REPLACEMENT / SHORTFALL SLATES ARE TO BE PROCURED FROM SUITABLE UK QUARRIES IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS PRESCRIBED WITHIN H62; NEW OR SOUND SECOND-HAND SLATES ARE TO MATCH THE EXISTING SLATES FOR SIZE, THICKNESS, COLOUR AND TEXTURE. SAMPLES ARE TO BE PROVIDED AND BE APPROVED BY THE CA PRIOR TO RE-INSTATEMENT.

LEAD
ALL NEW LEADWORK AND LEAD DETAILS ARE TO BE AS GUIDANCE FOR STATUTORY DESIGNATED HISTORIC BUILDINGS.
ALL LEAD SHEET IS TO BE TO BS EN 12588 AND INSTALLED IN ACCORDANCE WITH BS 6915 AND THE LATEST EDITION OF
LEAD SHEET TRAINING ACADEMY (LSTA) ROLLED LEAD SHEET. THE COMPLETE MANU
LEAD WORK SHALL BE CARRIED OUT BY OPERATIVES TRAINED IN THE APPLICATION OF LEAD COVERINGS AND
EMPLOYED BY A MEMBER OF THE LEAD CONTRACTORS' ASSOCIATION. ON COMPLETION THE LEAD WORK SHALL BE
REGISTERED UNDER THE LCA MEMBERS' 25 YEAR GUARANTEE SCHEME.

BREATHER MEMBRANE TO BE FITTED ABOVE SARKING BOARD / RAFTERS AS SPECIFICATION SECTION H62.
ALL LEAD WORK TO BE LAID ON NEW BUILDING PAPER CONFORMING TO BS 1521 CLASS A. LEAD SHOULD ONLY BE LAID ON DRY SUBSTRATE AND UNDERLAY TO AVOID CORROSION.
NEUTRAL CURE SILICONE SHOULD BE USED TO SEAL THE JOINTS BETWEEN LEAD SHEET AND OTHER BUILDING MATERIALS.



1. FIX VALLEY BOARDS DOWN LENGTH OF GUTTER.
2. FIX TILTING FILLETS ON EITHER SIDE OF THE VALLEY BOARD AND DRESS UNDERLAY OVER THESE TILTING FILLETS.
3. DRESS CODE 5 LEAD FLAT RIP AT LEAST 500mm WIDE, INTO THE GUTTER OVER THE TILTING FILLETS, EXTENDING AT LEAST 40mm BEYOND EACH TILTING FILLETS.
4. CUT SLATES ACCURATELY, ENSURING SUFFICIENT WIND IS RETAINED AT THE TAIL, TO OVERHANGS THE TILTING FILLET BUT LEAVE A MINIMUM OF 100mm OVERHANG WIDTH ON VALLEY.
5. THE EDGES OF THE SLATING SHOULD NOT BE TILTED UP OVER OPEN VALLEYS.
6. EXISTING BUILD UP OF EXISTING ROOF STRUCTURE SHOWN INDICATIVELY, ALL DETAILS ARE TO BE REVIEWED AND VALIDATED ON SITE.
7. ROOF PITCHES SHOWN FOR INDICATIVE PURPOSES.

CODE 4 LEAD APRON FLASHING SECURED INTO BRICKWORK WITH LEAD WEDGES. FIXING IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND BS EN 12588:2006

BREATHER MEMBRANE / UNDERLAY TURNED UP ABUTMENT BY 100mm

50mm WIDE CODE 6 LEAD STRAPS AT 300 - 500mm CENTRES

NEW / EXISTING NATURAL SLATES FIXING IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND BS5534 PART 1 2014, BS8000 PART 6 2013 AND SPECIFICATION SECTION H62.

NOTES:

1. CUT SLATE AS REQUIRED AND INTERLEAVE WITH CODE 4 SOAKERS, DRESSED TO PROVIDE AT LEAST 75mm UP-CAST. FORM A CLOSE, WEATHERTIGHT ABUTMENT. FIX SOAKERS TURNING DOWN OVER THE HEAD OF EACH SLATE.
2. FIX CODE 4 LEAD FLASHING OVER SOAKER, WELT TOP SECURE INTO THE MASONRY JOINTS, TO A DEPTH OF AT LEAST 25mm, WITH LEAD WEDGES AND POINT IN COMMENSURATE MORTAR.
3. EXISTING BUILD UP OF EXISTING ROOF STRUCTURE AT ABUTMENTS SHOWN INDICATIVELY; ALL DETAILS ARE REVIEWED AND VALIDATED ON SITE.

1. CUT SLAKES AS REQUIRED AND INTERLEAVE WITH CODE 3 LEAD SOAKERS, DRESSED TO PROVIDE AT LEAST 75mm UP-STAND TO FORM A CLOSE, WEATHERTIGHT ABUTMENT. FIX SOAKERS BY TURNING DOWN OVER THE HEAD OF EACH SLAKE.
2. FIX CODE 4 LEAD SLAKES TO THE ROOF SLOPE, TOP EDGE, SECURE INTO THE MASONRY JOINTS, TO A DEPTH OF AT LEAST 25mm, WITH LEAD WEDGES AND POINT IN COMMENSURATE MORTAR.
3. EXISTING BUILD UP OF EXISTING ROOF STRUCTURE AND ABUTMENTS SHOWN INDICATIVELY; ALL DETAILS ARE TO BE REVIEWED AND VALIDATED ON SITE.
4. ROOF PITCHES SHOWN FOR INDICATIVE PURPOSES.

**NATURAL SLATE
TYPICAL ABUTMENT DETAIL AT
HEAD OF ROOF SLOPES**

[illegible]

GENERAL
ALL REPAIRS ARE PROVISIONAL SUBJECT TO FURTHER INSPECTION ONCE SUITABLE ACCESS PROVISIONS HAVE BEEN PROVIDED. WHERE PROFILES ARE TO BE MATCHED EXACTLY TO AN EXISTING PROFILE, DRAWN PROFILES ARE INDICATIVE AND FOR INFORMATION ONLY. THE CONTRACTOR SHALL ALLOW FOR TAKING SITE PROFILES OF EXISTING AND SHALL PROVIDE FABRICATION DRAWINGS AND SAMPLES, AS SPECIFIED, PRIOR TO MANUFACTURE.

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1824
The University of Manchester

St Anselm Hall
Manchester M14 5BX

Directorate of Estates and Facilities
Beyer Building
Oxford Road
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M13 9PL

Listed Building Application

Designed	AB	Date Jan 26	Signed
Drawn	IH	Date Jan 26	Signed
Checked	AB	Date Jan 26	Signed
Approved	CN	Date Jan 26	Signed
Scale:	1:10	Datum:	-
Original Size:	A2	Grid:	SJ 85904 95304
Suitability Code:	-	Project Number:	PN_9140

Roofing Works

Indicative Roof Details



Registered office:
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9140 007

Drawing Number:

Revision:

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