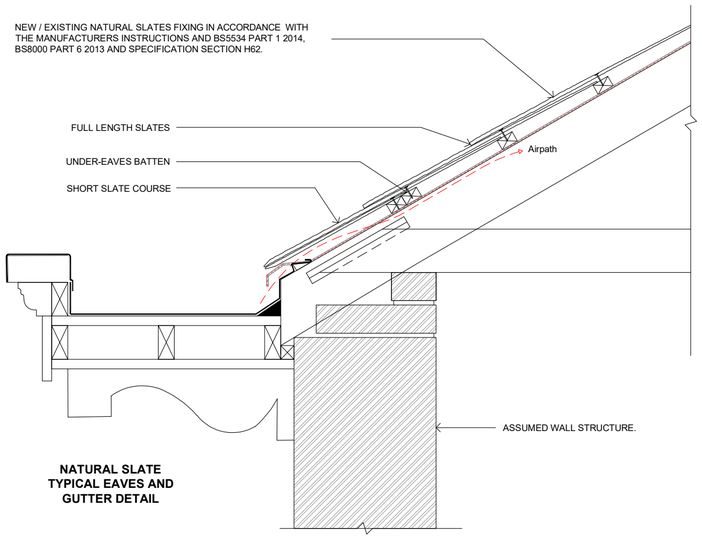
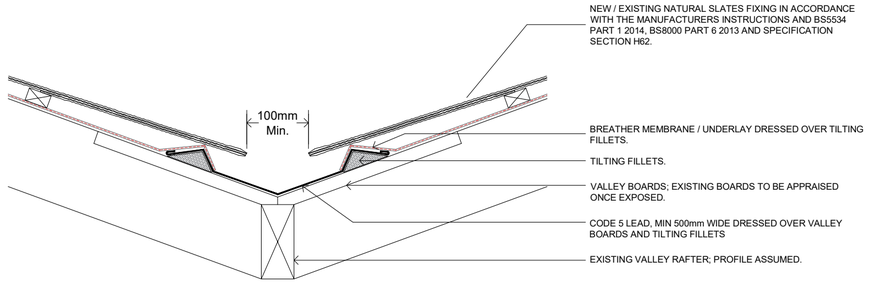
NOTES:

1. FIX THE BREATHER MEMBRANE / UNDERLAY TO EXTEND OVER THE TILTING FILLET / VENTILATION TRAY INTO THE GUTTER. THE UNDERLAY SHOULD OVERHANG BY 50mmMIN.
2. FIX THE FIRST FULL COURSE BATTEN (EAVES 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 INDICATIVES PURPOSES.



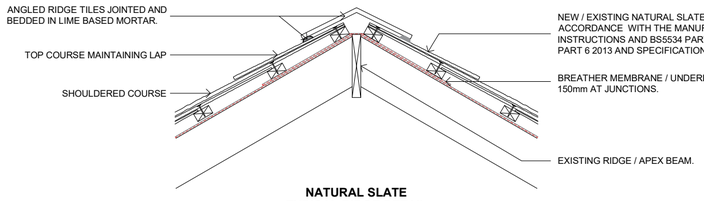
NATURAL SLATE
TYPICAL EAVES AND GUTTER DETAIL



NATURAL SLATE
TYPICAL VALLEY GUTTER LEAD DETAIL

NOTES:

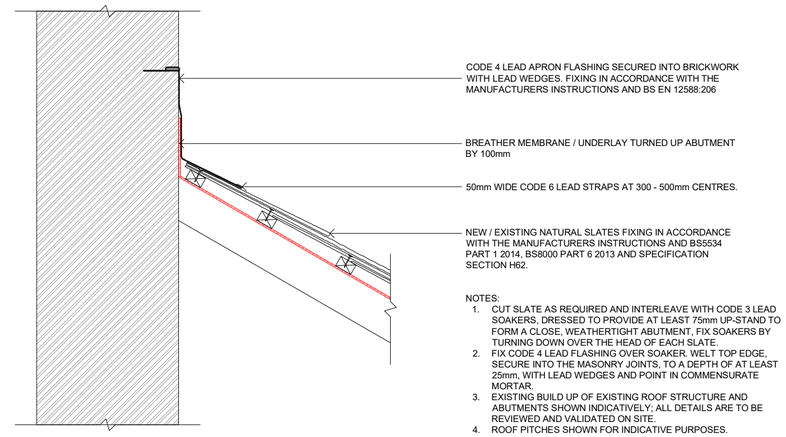
1. FIX VALLEY BOARDS DOWN LENGTH OF GUTTER.
2. FIX TILTING FILLETS ON EITHER SIDE OF THE VALLEY BOARD AND DRESS UNDERLAY OVER THESE TILTING FILLETS.
3. DRESS CODE 5 LEAD STRIP AT LEAST 500mm WIDE, INTO THE GUTTER AND OVER THE TILTING FILLETS, EXTENDING AT LEAST 40mm BEYOND EACH TILTING FILLETS.
4. CUT SLATES ACCURATELY, ENSURING SUFFICIENT WIDTH IS RETAINED AT THE TAIL, TO OVERHANG THE TILTING FILLET BUT LEAVE A MINIMUM OF 100mm CLEAR WIDTH OF 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.



NATURAL SLATE
TYPICAL RIDGE DETAIL

NOTES:

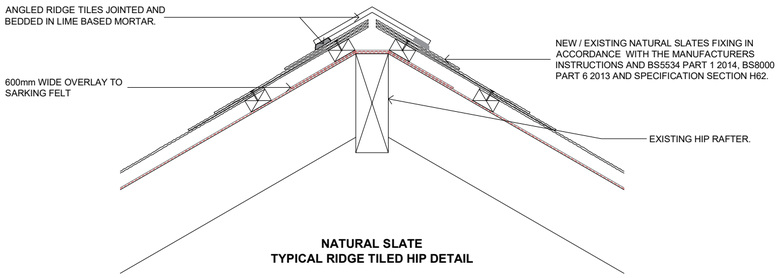
1. MORTAR 1:3 NHL 3.5 LIME / SHARP SAND PIGMENTED TO APPROVED COLOUR.
2. FIX BREATHER MEMBRANE / UNDERLAY OVER THE RIDGE SO THAT IT OVERLAPS THE MAIN UNDERLAY BY AT LEAST 150mm. WHERE THE RIDGE IS VENTILATED, A GAP OF 50mm MUST BE ALLOWED BETWEEN THE TOP OF THE BREATHER MEMBRANE / UNDERLAY OF EACH PITCH.
3. FIX THE TOP COURSE OF SLATES TO MAINTAIN GAUGE.
4. LAY RIDGE TILES TRUE. JOINT RIDGE TILES IN LIME BASED MORTAR AND FIRMLY BED THE EDGES ALONG THE ROOF SLOPE IN LIME BASED MORTAR. WHERE RIDGE TILES MEET, SQUEEZE UP THE BEDDING TO FILL THE JOINT 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.



NOTES:

1. CUT SLATE 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 SLATE.
2. FIX CODE 4 LEAD FLASHING OVER SOAKER. WELT 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



NATURAL SLATE
TYPICAL RIDGE TILED HIP DETAIL

NOTES:

1. MORTAR 1:3 NHL 3.5 LIME / SHARP SAND PIGMENTED TO APPROVED COLOUR.
2. FIX 600mm WIDE UNDERLAY, OVERLAPPING THE MAIN UNDERLAY
3. FIX HIP TO IRON (TO BS 5534: PART 1: CLAUSE 12) TO HIP RAFTER.
4. CUT SLATES TO FIT CLOSELY AT JUNCTION.
5. LAY HIP RIDGE TILES TRUE AND BED EDGES AND JOINTS FIRMLY IN MORTAR, STRUCK OFF SMOOTHLY TO PROVIDE A FLUSH FINISH.
6. CUT FIRST TILE TO ALIGN WITH CORNER OF EAVES.
7. FILL END OF HIP WITH MORTAR AND SLIPS OF SLATE FINISHED FLUSH.
8. EXISTING BUILD UP OF EXISTING ROOF STRUCTURE SHOWN INDICATIVELY; ALL DETAILS ARE TO BE REVIEWED AND VALIDATED ON SITE.
9. ROOF PITCHES SHOWN FOR INDICATIVE PURPOSES.

MATERIAL NOTES:

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 DISCARDED. HEAD NAIL HOLES 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 EXISTING IN TYPE, 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 MANUAL.
LEAD WORK SHALL BE CARRIED OUT BY OPERATIVES TRAINED IN THE APPLICATION OF LEAD COVERINGS AND EMPLOYED BY A MEMBER OF THE LEAD CONTRACTOR'S ASSOCIATION. ON COMPLETION THE LEAD WORK SHALL BE REGISTERED UNDER THE LCA MEMBERS' 25 YEAR GUARANTEE SCHEME.

LEAD AND OTHER MATERIALS
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.

Rev	Date	Description	Drawn	Check	Approv
01	SEP 26	Stage 5 Updated (LBC)	AB	CN	CN

NOTES:

CONTRACTOR NOT TO SCALE OFF DRAWINGS; ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT.

ALL WORKS SHALL BE IN FULL COMPLIANCE WITH THE CURRENT BRITISH STANDARDS, BUILDING REGULATIONS AND RELEVANT STATUTES. THE CONTRACTOR MUST CARRY OUT THE WORKS CONFORMING TO ALL CURRENT HEALTH & SAFETY LEGISLATION.

THE INFORMATION ON THIS DRAWING RELATING TO THE DETAIL OF THE EXISTING BUILDINGS IS INDICATIVE ONLY, AS DETAILED MEASURED SURVEYS ARE YET TO BE COMPLETED. THE LOCATION AND DIMENSIONS OF ALL EXISTING EXTERNAL AND INTERNAL BUILDING ELEMENTS SHOULD BE VERIFIED ON SITE.

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS, SPECIFICATION AND SCHEDULES, AND THOSE PROVIDED BY THE OTHER CONSULTANTS.

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.

Client

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The University of Manchester

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Manchester M14 5BX

The University of Manchester

Client

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

Suitability Description: For Information

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

PROJECT:
Roofing Works

TITLE:
Indicative Roof Details

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Drawing Number: 9140_007

Revision: 01

100mm on Original

Print Date: 02/10/2026 11:00:49

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