

Revision
B
DRAWING No. A022/057/BR/04

DO NOT SCALE DIMENSIONS FROM DRAWING

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS AND DOCUMENTS. THE USER SHOULD CONSULT THE DRAWING ISSUE REGISTER FOR DETAILS.
4. THE CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.
5. THE ENGINEER/ARCHITECT SHOULD BE CONTACTED IMMEDIATELY IF THE ASSUMPTIONS USED IN THE DESIGN DIFFER TO THAT FOUND ON SITE.

ROOF CONSTRUCTION

1. All roof construction to conform to Approved Document A1/1 Part 3 Table B2 of the Building Regulations.
2. All timber to be tanalised or similarly treated against fungal growth and moisture resistance.
3. All dimensions to be checked on site prior to fabrication.
4. All timber to be grade C16, unless otherwise specified.
5. Insulation to flat ceilings with pitched roof to be 300mm-thk fibre glass rockwool, unless otherwise specified, to be laid 150mm & 150mm cross batten.
6. Insulation to inclined roof areas to reach U-value 0.18 to be 115mm Kingspan Thermaflex TR10 zero gap between rafters and 375mm K18 Kingspan Kooltherm under rafters, or 75mm Kingspan Kooltherm between rafters & 625mm K18 Kingspan Kooltherm under rafters, alternatively 150mm Kooltherm 7K between rafters in accordance with manufacturers recommendations, ensure continuous air gap of 25mm above insulation otherwise use breathable felt.
7. Ventilation to sloping ceiling at high level ridge vents at 20m c/c & 50mm constant cross flow ventilation, 25mm continuous eaves ventilation provided by eaves comb.
8. Vail plate to be 100 x 75mm timber section mortar bedded to inner leaf and fixed with BAT straps VT1200mm at 1800mm c/c.
9. 125mm thk plasterboard and Arctex skin ceiling provided to soffit.
10. All valleys to be boarded with 12mm thk external grade plywood lined with Code 4 lead to BLM handbook.
11. Facia to be 225 x 25mm PAR timber section.
12. Ties to match existing unless otherwise specified laid on 25 x 50mm tanalised timber battens at gauge specified by manufacturer on a sarking felt as supplied by MonFlex or similar.
13. Double & triple joists to be bolted together at 88mm c/c.
14. Shallow pitched roof tiles to be fixed to tile battens on 2 layers of bitulous felt on 18 mm plywood boarding on rafters.
15. Ensure 10mm continuous ventilation at ridge to pitched roofs, lean to roofs to receive cavity tray & code 4 lead flashing to incorporate abutment ventilator to provide continuous 10mm ventilation & 25mm continuous ventilation at vented soffit.
16. Roof pitch refer to section.

TRADITIONAL ROOF CONSTRUCTION

1. Member sizes as follows:-
2. Hips 38 x 250mm
3. Purllins 75 x 225mm @ 1200mm c/c
4. Ridge 44 x 175mm
5. Rafters 50 x 125mm @ 400mm c/c
6. Ceiling Rafters 50 x 75 mm @ 400mm c/c
7. Dragon ties provided at all hips

DORMER CONSTRUCTION

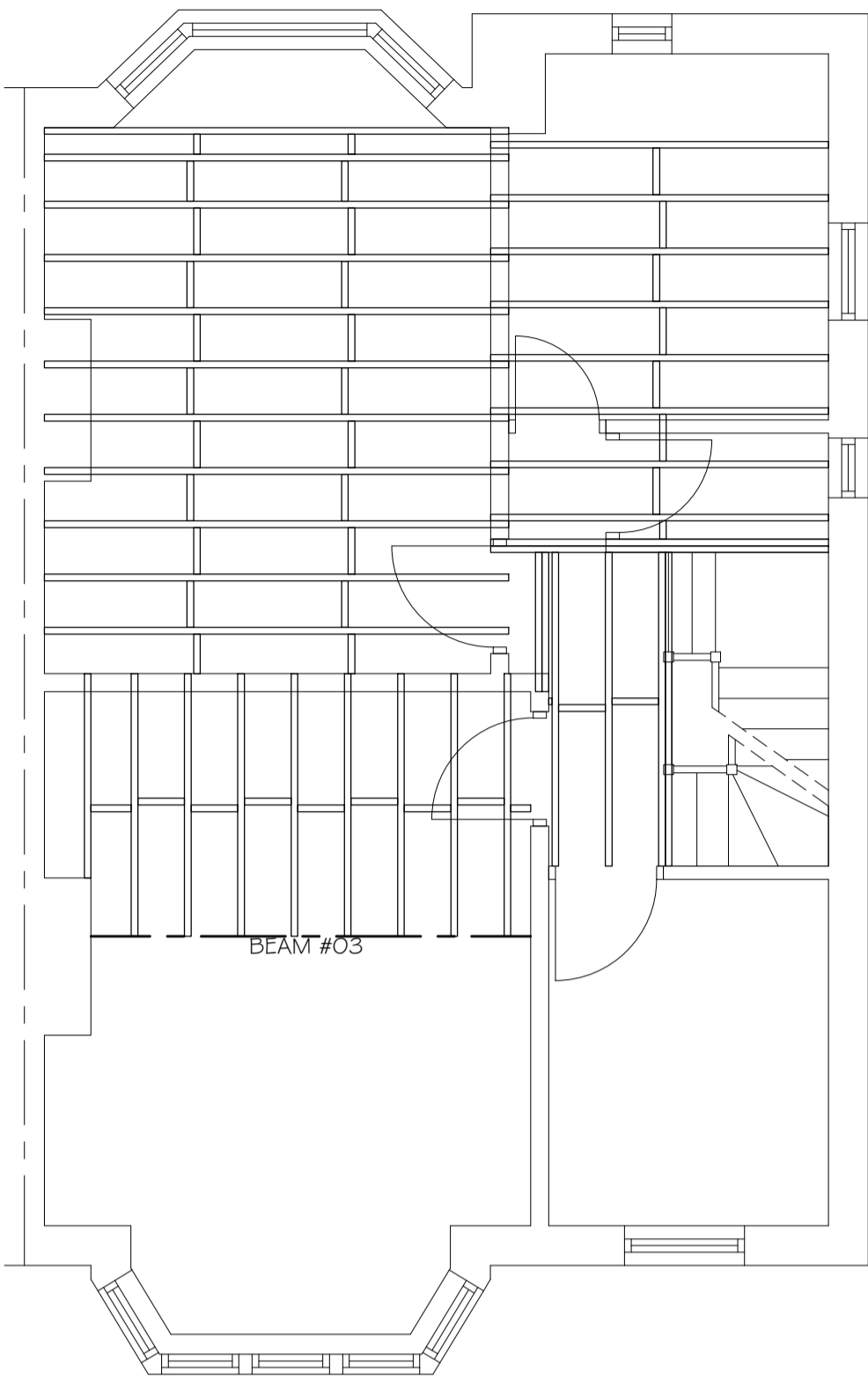
1. Dormer cheeks to be fixed to double joists and purllins only, as indicated on the drawing.
2. Cheeks to be 100 x 50mm timber section with timber noggins, clad with 12mm thk external grade plywood.
3. Insulation to be 60mm Kingspan Kooltherm K12 board on with 32.5mm K18 board to the inside on Kingspan Nilvent or similar approved to reach U-value 0.18.
4. Internal surfaces to be 10mm thk foil backed plasterboard & skinned.
5. External cladding to be tiles to match main roof or timber battens.
6. Windows to be minimum 150mm above roof tiles.
7. Lintels above windows to be 2No. 50 x 150mm C16 timber section pinned together with nails.
8. Dormer cheek within 1.0m boundary, clad with 12mm thick suppalux on studs beneath vapour barrier.

UPPER FLOOR CONSTRUCTION

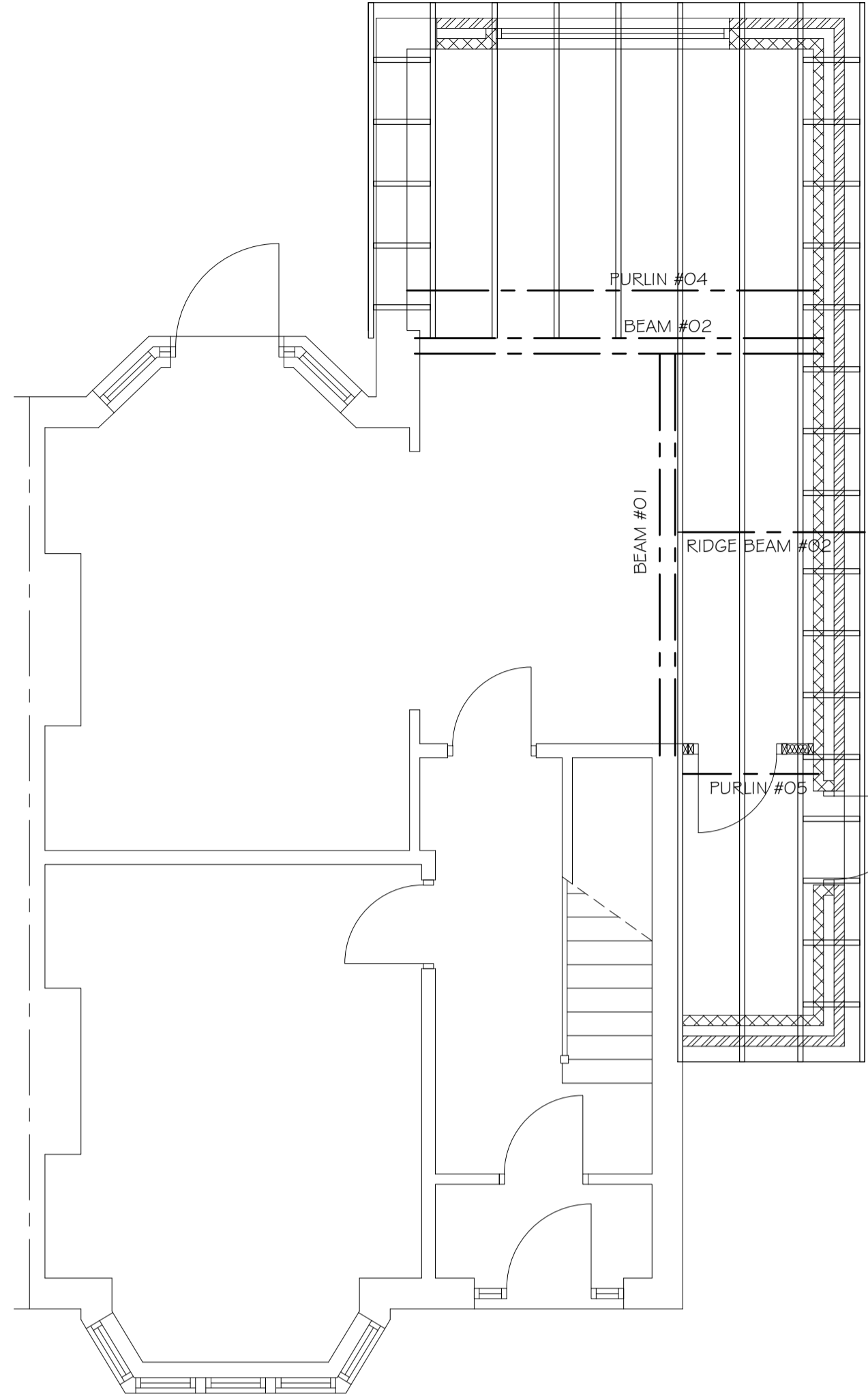
1. All timber to be grade C16 in accordance with BS 5288.
2. Joists to be 44 x 400mm c/c.
3. Noggins to be galvanised steel as supplied by Catnic, alternatively 50 x 50mm timber section, placed at 3rd span intervals.
4. Floors fixed to masonry walls using BAT straps as detailed on drawing at 1200mm c/c & noggled under and across joists.
5. Floor covering to be 19mm thk 1 & G chip board, moisture resistant to wet areas, pinned to joists using annular nails.
6. Notching in accordance with trade guidance.
7. All floor to receive 100mm thick rockwool suspended on chicken wire, for sound and fire, where external refer to drawing.
8. Soffit/ ceiling to be 2 ply 12.5mm thick plasterboard and skim.
9. Double timbers to be bolted together at 800mm c/c.
10. All floors between flats and common areas to be sound insulated and sound tested re-completion to be confirmed on site and approved by building control, all ceilings to be fire protected to give 30min fire protection.

STEELWORK

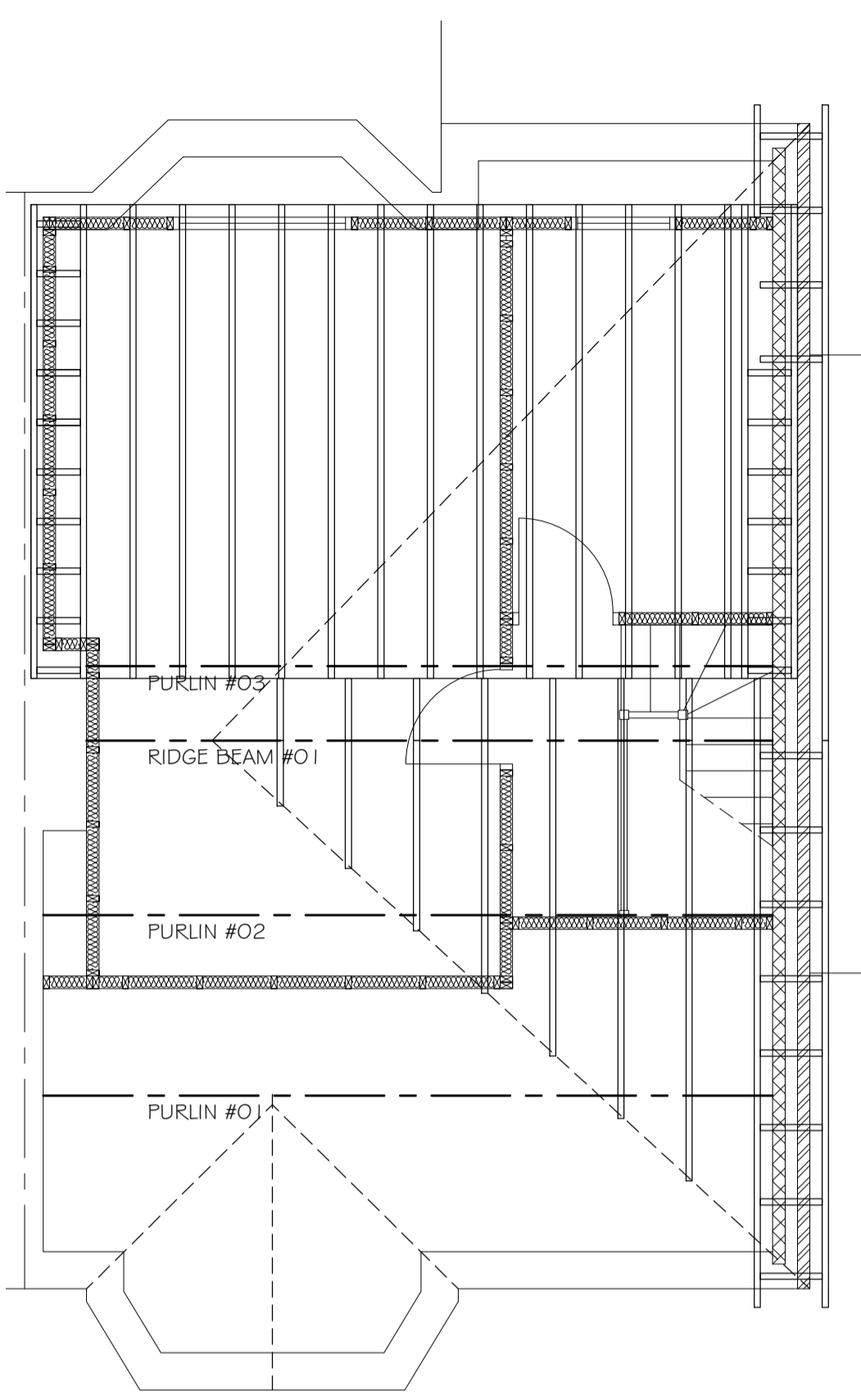
1. All steelwork to be grade 43A in accordance with BS355, unless specified otherwise.
2. The Contractor is to ensure all existing structure is adequately propped prior to forming new openings. Brickwork is to be wedged and packed with dry mix mortar and slates over new beams prior to the removal of the props.
3. Where so marked as bolted together beams are to be secured together with M16 blackbolts in sleeves at 600mm c/c along web staggered top and bottom, together with 6mm thk x 125mm wide plate welded to top and bot. Flanges at 600mm c/c. Bearing plates to be 12mm thk minimum 450mm wide welded to bot-flange.
4. All welds to be 6mm fillet welds unless specified otherwise.
5. All beams to be seated on minimum 100mm bearing on C20 cast insitu concrete padstones as shown on drawing. Nominal size to be 100mm thk x 225mm deep x 215mm long, ie 1# dense concrete block.
6. All proprietary systems to be fixed in accordance with manufacturers details and specifications.
7. All steelwork to be free from rust and mill scale and shot blasted to standard SA. To be spray painted in the fabrication shop with 1No. Coat of zinc rich primer, 50 microns, zincatech or similar. All chips and handling scars to be touched up on site when in position.
8. Fire resistance to be a minimum of 1 hour provided by 2 ply plasterboard and skim, with staggered joints; or an approved intumescent paint such as Nullifire or similar.
9. All steelwork joints to be detailed by steelwork fabricator, unless indicated on the drawing.
10. All bolts to be M12 4.6 Black bolts unless specified otherwise, to be spun hot dip galvanised.



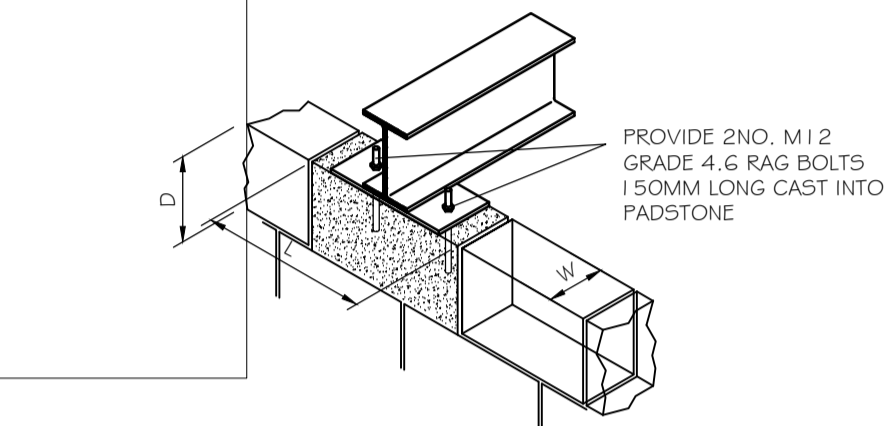
SECOND FLOOR
TIMBER LAYOUT



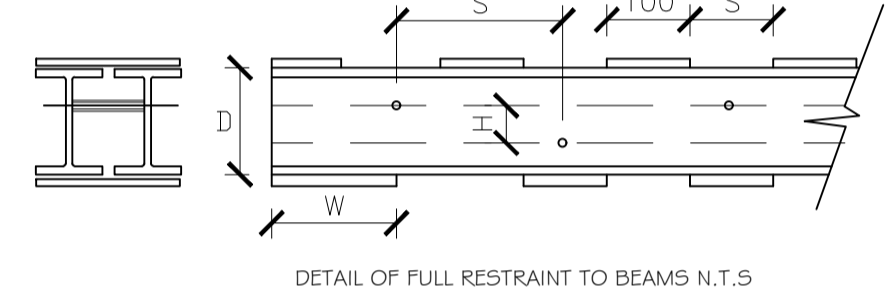
FIRST FLOOR ROOF
TIMBER LAYOUT



ROOF TIMBER LAYOUT



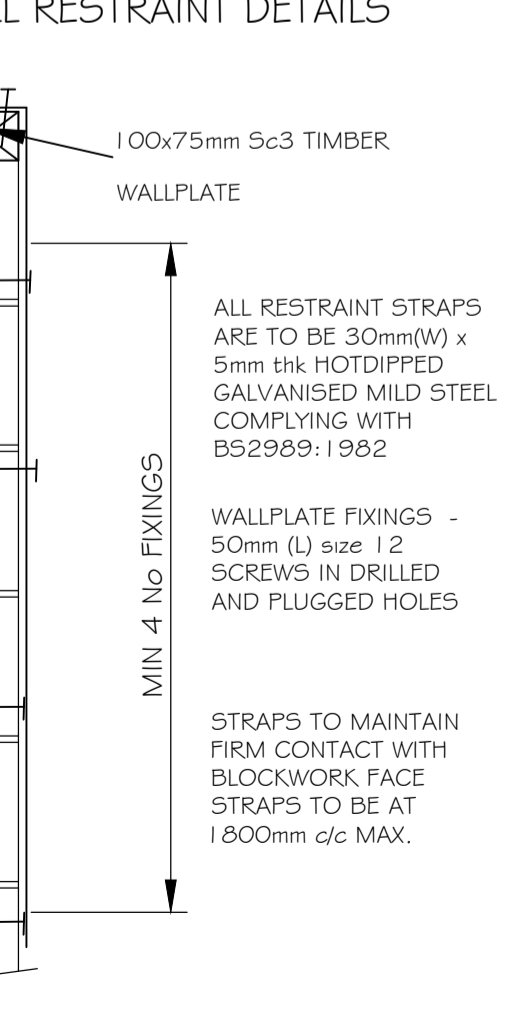
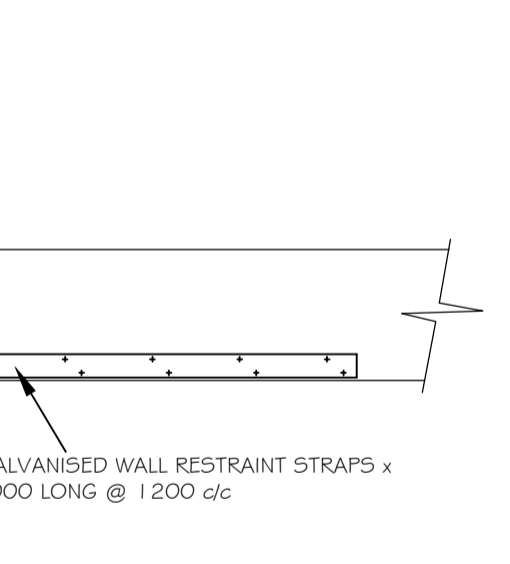
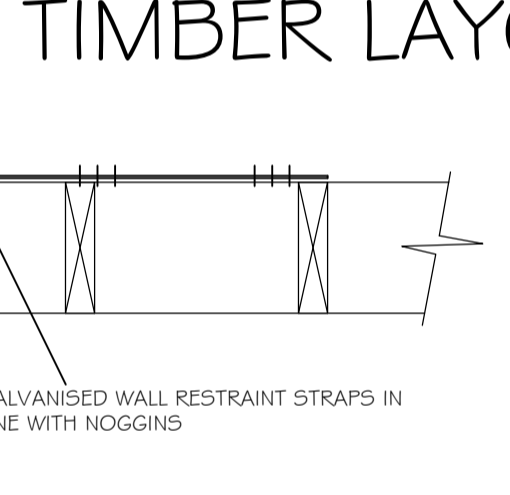
TYPICAL PADSTONE DETAIL



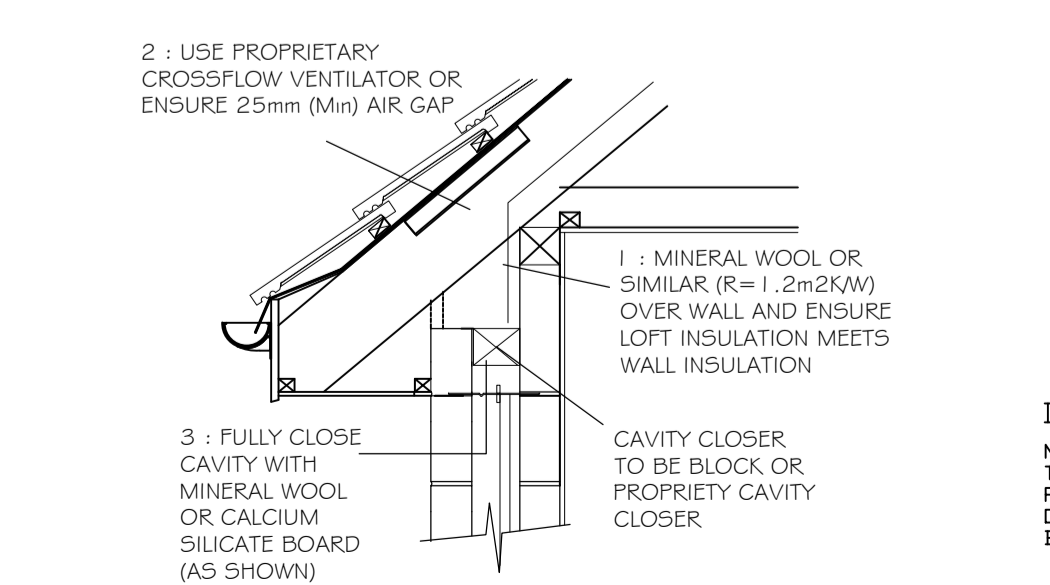
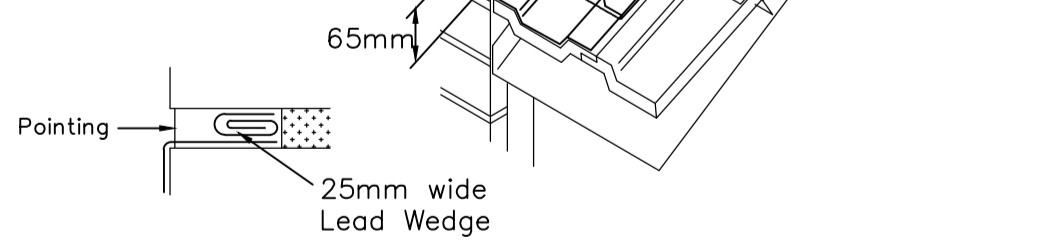
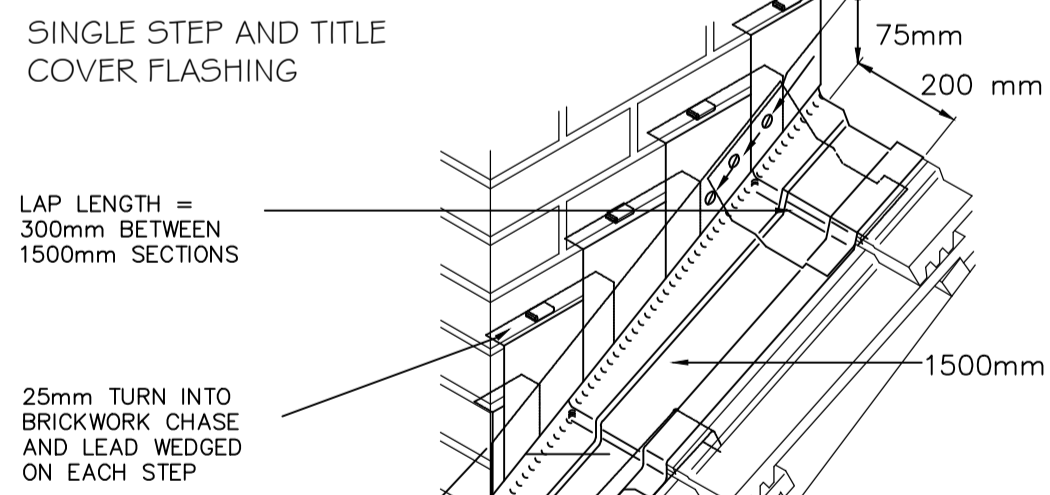
DETAIL OF FULL RESTRAINT TO BEAMS N.T.S

ALL STEELWORK TO BE IN PLACE BEFORE EXISTING WALL TO BE DEMOLISHED. EXISTING FIRST FLOOR TO BE SUITABLY PROPPED DURING STEEL INSTALLATION ALL TO SATISFACTION OF STRUCTURAL ENGINEER.

CONTRACTOR TO CHECK DESIGN LOADING ASSUMPTIONS ON SITE PRIOR TO REMOVAL OF WALLS. ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO ANY MANUFACTURE OF STEEL



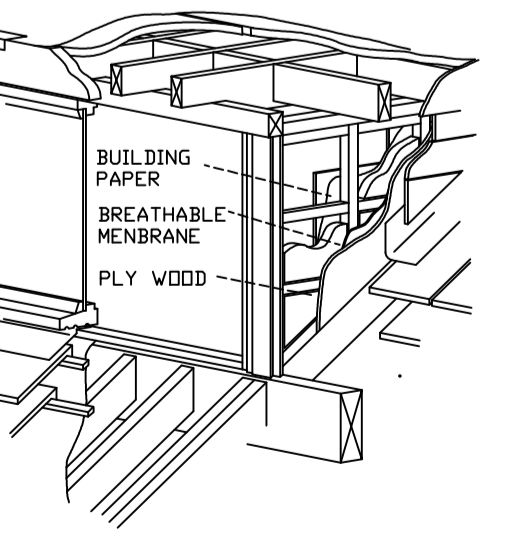
WALL PLATE DETAILS



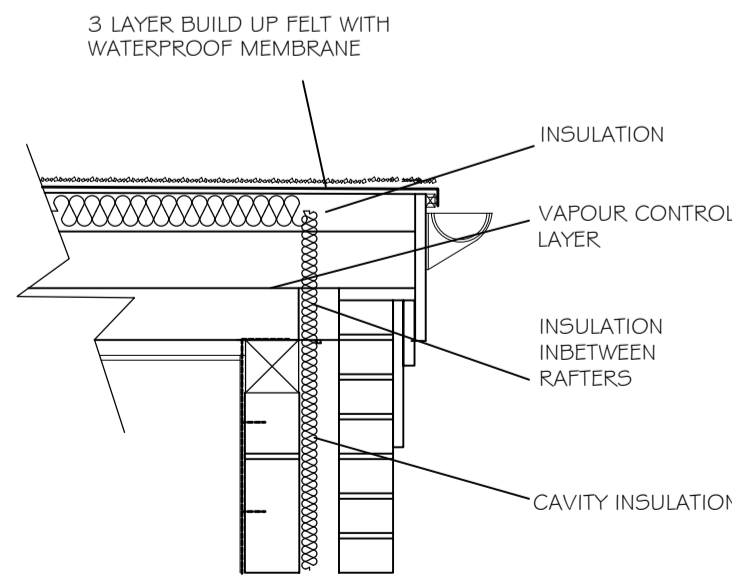
EAVES DETAIL

ENSURE TILT FILLET HEIGHT IS AT LEAST EQUAL TO TOP OF THE BATTEN.
WIDTH OF LINING PIECES WILL VARY DEPENDING ON CATCHMENT AREA. SEE PUBLICATION REFERENCE UPDATE 1.
GUTTER LININGS MINIMUM CODE 4 IN LENGTHS NOT EXCEEDING 1500MM.
SLATERS FELT SHOULD TERMINATE OVER THE TOP OF THE LINING PIECES AT THE TILT FILLET.
FATIGUE OIL. CONSIDER USE TO REDUCE RISKS OF STAINING WHERE WATER FROM GUTTER, MAY DISCHARGE OVER SURROUNDING ROOF.

A	WITH BEDDED TILES		WITH UNBEDDED TILES OR SLATES	
	Width of lead to line valley (mm approx.)	Width of lead to line valley (mm approx.)	Width of lead to line valley (mm approx.)	Width of lead to line valley (mm approx.)
100	500	400	425	
125	525	425	450	
150	550	450	475	
200	600	500	525	
250	650	550	575	



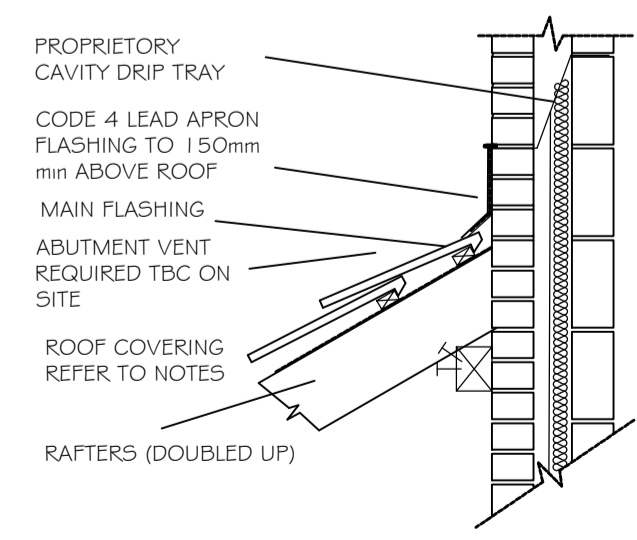
DORMER CONSTRUCTION DETAILS
NOTE: DORMER CHEEK TO BE CLAD WITH 12.5MM THICK SUPPALUX FIRE BOARD OR SIMILAR TO PROVIDE 1 HR FIRE RESISTANCE. BELLOW OVER WITH BREATHABLE MEMBRANE, BELLOW BATTENS & TILES



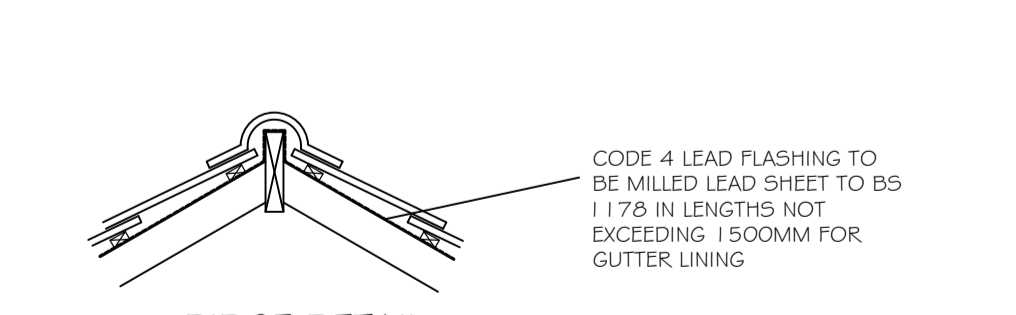
TYPICAL FLAT ROOF DETAIL (WARM ROOF SYSTEM)

BEAM SCHEDULE						
BEAM No.	SPAN	SECTION SIZE	REACTION L	REACTION R	PADSTONE SIZE LEFT	PADSTONE SIZE RIGHT
RIDGE BEAM #01						
RIDGE BEAM #02						
PURLIN #01						
PURLIN #02						
PURLIN #03						
PURLIN #04						
PURLIN #05						
BEAM #01						
BEAM #02						
BEAM #03						

ALL REACTIONS ARE UNFACTORED
Nominal Padstones are to be C20 cast insitu conc 415mm(L)x100mm(W)x225mm(D)
BF.....Denotes 10mm thk plate welded to bottom flange
B.....Denotes beams bolted together as detail
HD.....DENOTES HILTI HOLDING DOWN BOLTS REQUIRED AS PER DETAIL



PITCHED ROOF TO WALL DETAIL



RIDGE DETAIL

Rev.	Amendments	Date	By
B	Client Amendments	21/04/22	JG
A	Client Amendments	14/04/22	JG

Keystone Design Associates Ltd.
Registered Office
Development House
261 Church Street
Birkdale
FY1 3PB
Tel. No. 01253 649040
Fax. No. 01253 792901
Email: info@keystonedesign.co.uk

PROJECT ADDRESS
53 ARGYLL ROAD, BISPHAM
FY2,9TG

PROJECT TITLE
HIP TO GABLE, LOFT CONVERSION
& SIDE EXTENSION

DRAWING TITLE
PROPOSED TIMBER GA

Client MR & MRS MELLOR Scales@A1
1:50
Drawn JG Checked Date 11/04/22

DRAWING No. A022/057/BR/04 Revision B

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