

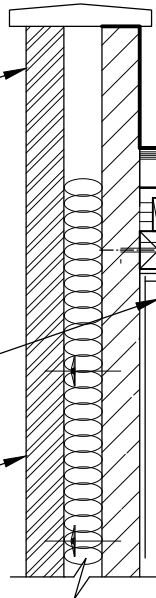
NOTE:  
THE ROOF AREA DRAINAGE IS TO BE AGREED WITH THE LOCAL AUTHORITY:  
THE FLAT ROOF LEVEL SURFACE WATER IS TO DRAIN TOWARDS THE REAR ELEVATION OF EXTENSION AND A DRAINAGE CHANNEL / SLOT OR MULTIPLE SLOTS ARE TO PASS THROUGH THE PARAPET WALL AND LINKED TO AN APPROPRIATE DOWNSPOUT TO THE SATISFACTION OF BUILDING CONTROL. THIS AREA WILL COLLECT DEBRIS AND A REGULAR MAINTENANCE REGIME IS HIGHLY RECOMMENDED TO AVOID COLLECTION OF WATER AND DEBRIS  
CREATING ADDITIONAL LOADING ON THE ROOF AREA.

SEE PARAPET WALL DETAIL

100x150 GRADE C16 (SC3) TIMBER WALLPLATE TO BE SECURED TO INNER-LEAF WITH 10mm DIAMETER, 175mm LONG CHEMICAL ANCHORS. ANCHORS TO BE INSTALLED AT 200mm CTRS OR AS RECOMMENDED BY THE BUILDING CONTROL OFFICER.

NEW WALL CONSTRUCTION AS INDICATED ON STRUCTURAL DETAILS DRAWING

THE FLAT ROOF JOISTS TO BE FULLY SECURED TO WALL PLATES AND BEAMS WITH APPROVED ANCHORS TO THE SATISFACTION OF THE BUILDING CONTROL OFFICER.

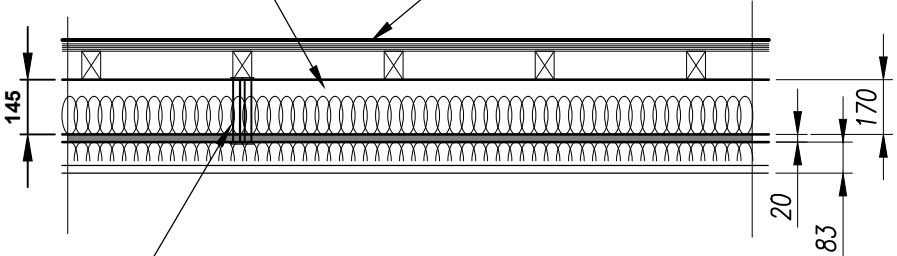


'BAT' HERRINGBONE STRUTTING MUST BE USED TO ENABLE ROOF TO BE VENTILATED.

PROVIDE SUITABLE CLIPS / CONNECTORS TO ENSURE A POSITIVE FIXING BETWEEN ROOF JOIST AND WALL PLATE (ALL JOISTS).

NOTE: GAP OVER INSULATION TO ALLOW VENTILATION TO PASS THROUGH.

ALLOW FOR NEW 75x170 GRADE C16 TIMBER FLAT ROOF JOISTS @ 400mm MAXIMUM CENTRES (MAX SPAN 4.11m). COMPLETE WITH 1 ROW OF GALVANISED 'BAT' HERRINGBONE STRUTTING AT 1/3RD SPAN (TO AVOID ROOF LANTERN) FIXED INTO POSITION WITH 3.75x30mm SQ. TWISTED SHERARDISED NAILS. INCLUDE FOR 50mm WIDE SLOPING TIMBER FIRINGS ABOVE @ 400mm CTS (50mm DEEP MINIMUM).



TYPICAL SECTION THROUGH FLAT TIMBER ROOF (SINGLE STOREY REAR EXTENSION) (1:20)

NEW FLAT ROOF CONSTRUCTION (COLD ROOF):-  
SINGLE PLY MEMBRANE ON: 20mm T & G MOISTURE RESISTANT PLYWOOD DECK ON: TIMBER FIRINGS & JOISTS AS SHOWN.  
ALLOW FOR 120mm THICK 'KINGSPAN' K7 PIR INSULATION BOARD BETWEEN JOISTS (50mm AIR GAP ABOVE) WITH BREATHER MEMBRANE FIXED TO UNDERSIDE OF JOISTS AND 82.5mm THICK 'KINGSPAN' K18 INSULATED PLASTERBOARD CEILING BELOW (202.5mm TOTAL) WITH 5mm SKIM FINISH. (MIN. U-VALUE TO BE ACHIEVED = 0.14 W/m²K).  
(INSULATION TYPE & THICKNESS IS TO BE AGREED WITH THE BUILDING CONTROL OFFICER ON SITE).

NOTE:  
NEW FLAT ROOF TO INCORPORATE 1No. 'ARECO' EXTRA AQUA BREATHER VENT (VENTS UPTO 36m2). ALSO INCLUDE FOR 25mm WIDE VENTILATION GAP AT EAVES / FASCIA BOARD POSITIONS.

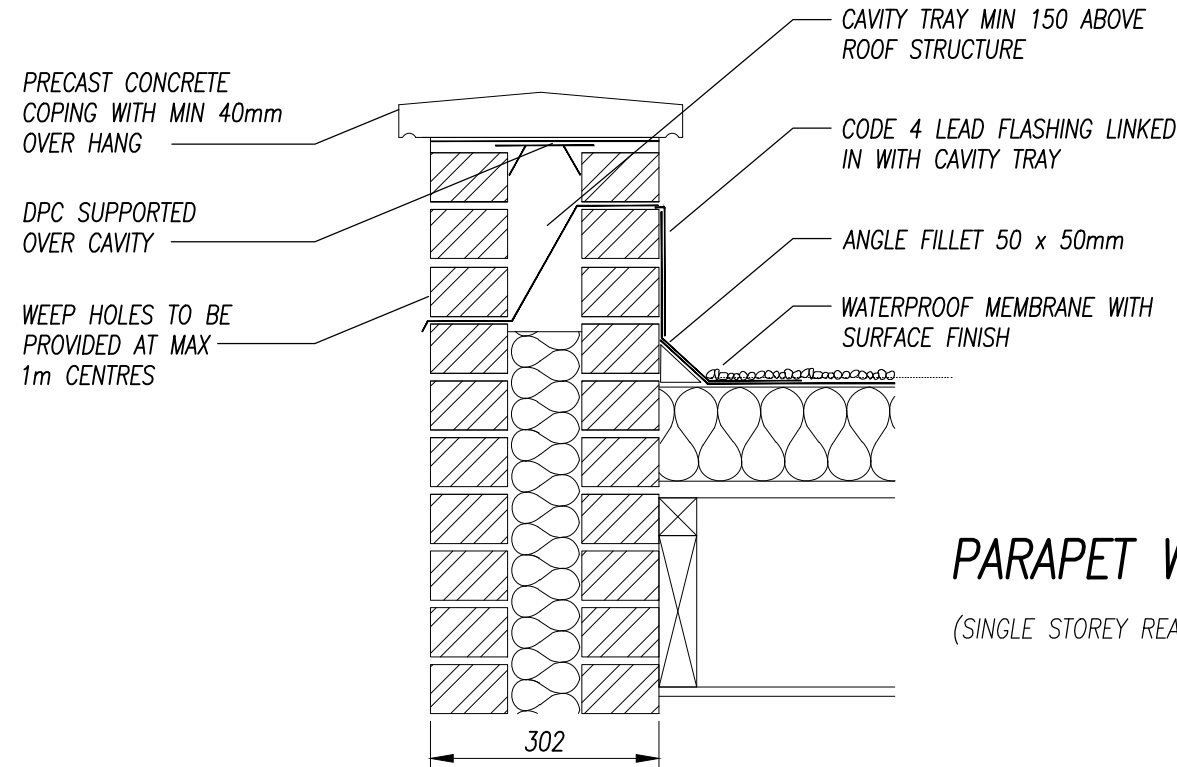
GENERAL ROOF NOTES:  
TIMBER DECK TO BE SCREW FIXED TO TOP OF JOISTS @ 300mm CENTRES. INCLUDE FOR ALL NECESSARY CODE 4 LEAD FLASHING AT JUNCTION WITH ROOF / LANTERN / EXISTING WALL.

IF NEW FIRINGS SPAN SAME DIRECTION AS ROOF JOISTS THEY MUST BE NOTCHED BY 25mm AT LEAST THREE TIMES OVER ITS LENGTH TO ALLOW FOR CROSS-FLOW VENTILATION.

LATERAL RESTRAINT AT ROOF LEVEL:  
ON SIDE WALLS: PROVIDE LATERAL RESTRAINT STRAPS OF 35 X 6mm MILD STEEL AT 0.8m MAXIMUM CENTRES, TO BE TAKEN OVER 3No JOISTS MINIMUM ON SOLID NOGGINS AND TURNED DOWN INTO CAVITY A MINIMUM OF 75mm (ALSO REFER TO MANUFACTURERS DETAILED DRAWINGS).  
ON REAR WALL: PROVIDE LATERAL RESTRAINT STRAPS OF 35 X 6mm MILD STEEL EVERY 3rd JOIST TURNED DOWN INTO CAVITY A MINIMUM OF 75mm. (ALSO REFER TO MANUFACTURERS DRAWINGS). ALL STRAPS TO BE FITTED TO THE SATISFACTION OF THE BUILDING CONTROL OFFICER.

FINAL DESIGN FOR NEW FLAT ROOF IS TO BE AGREED ON SITE WITH THE APPOINTED CONTRACTOR AND THE BUILDING CONTROL OFFICER DEPENDANT ON CONTRACTORS PREFERRED CONSTRUCTION METHODS.

IT IS RECOMMENDED TO PROVIDE A 20mm THICK LAYER OF PLYWOOD BELOW TIMBER RAFTERS TO PROVIDE ADDITIONAL SUPPORT / LATERAL RESTRAINT (CREATING A SOLID DIAPHRAGM AT ROOF LEVEL TO HELP TRANSFER WIND LOAD THROUGH THE STRUCTURE).



PARAPET WALL DETAIL

(SINGLE STOREY REAR EXTENSION) (1:10)

DRAWINGS FOR LOCAL AUTHORITY APPROVALS

|                                                                   |                                                                            |                                                               |
|-------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|
| LOCATION ADDRESS:<br><br>8 SINGLETON<br>DRV, LIVERPOOL<br>L34 0HE | DRAWINGS FOR LOCAL AUTHORITY APPROVALS                                     | DRG PRINTED AT A3                                             |
|                                                                   | DRAWING TITLE:<br>STRUCTURAL DETAILS No2                                   | DATE – JULY 2023                                              |
|                                                                   | PROJECT DESCRIPTION:<br>TO CONSTRUCT A NEW SINGLE STOREY REAR<br>EXTENSION | DRAWING No (09 OF 10)<br><br>DRAWING NUMBER:<br><br>T/0723/09 |