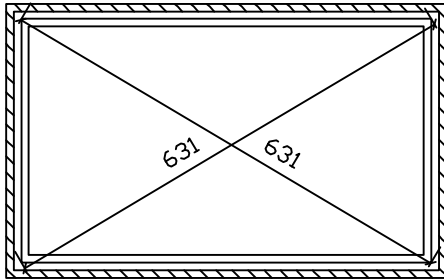
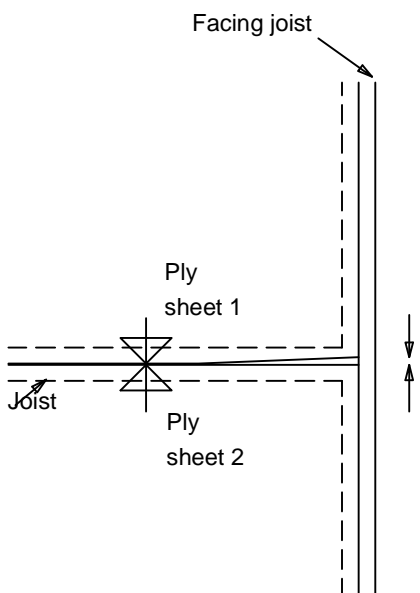
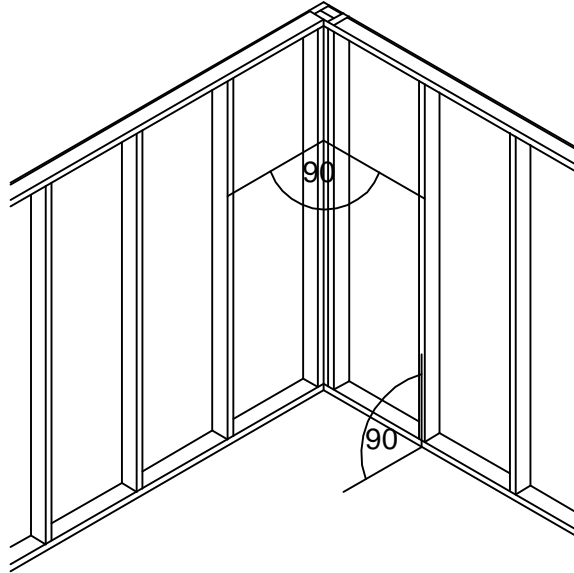


NOTE: line plumb & square all wall panels before final fixing

check that headplate is level

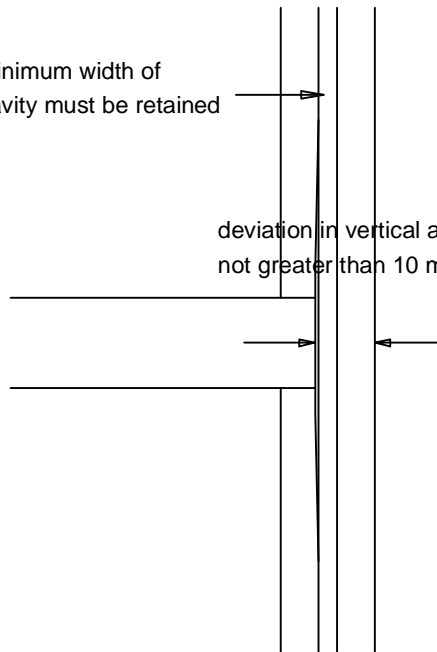


PLAN: o/a timber frame, check diagonals to ensure timber frame is square.



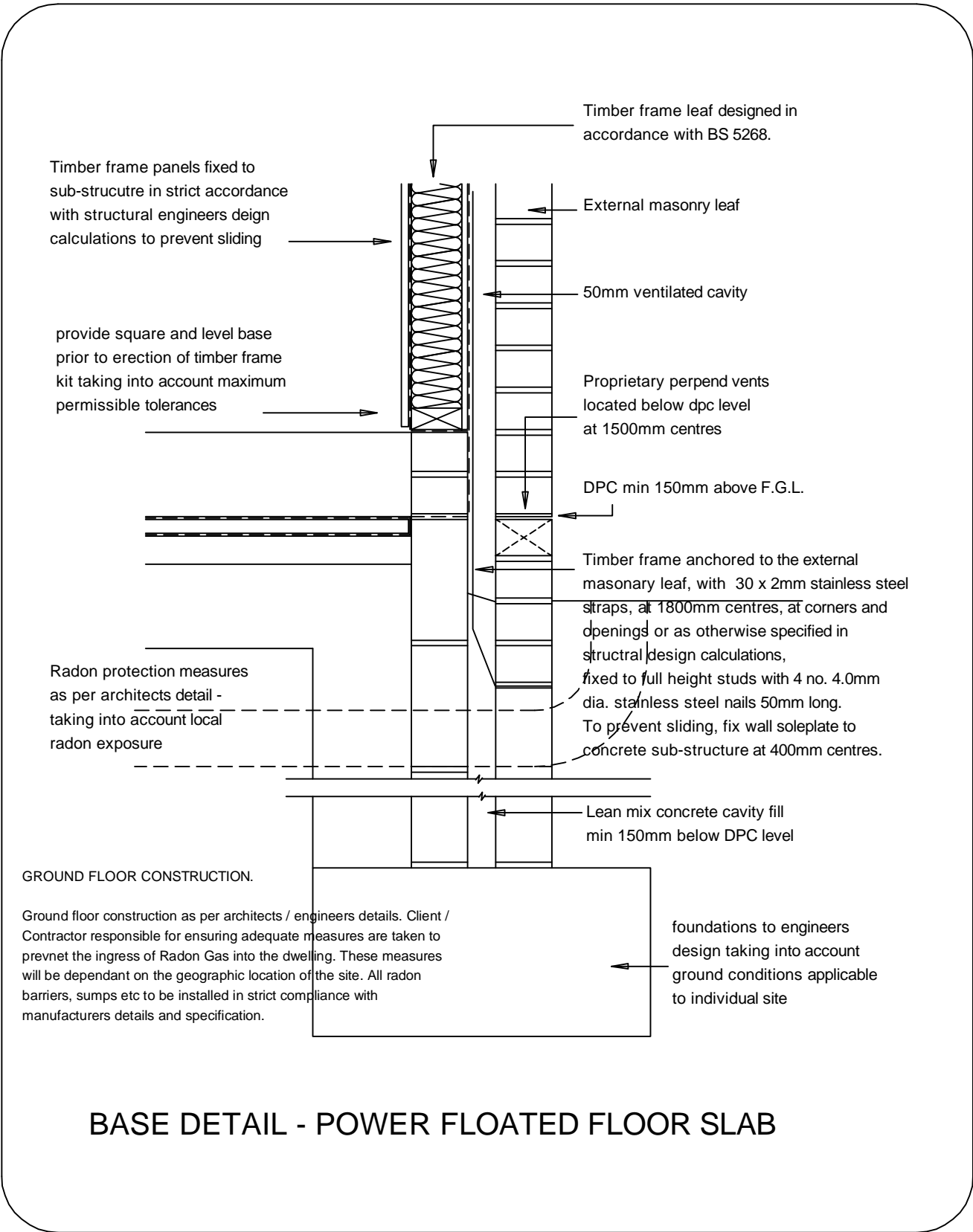
minimum width of cavity must be retained

deviation in vertical alignment not greater than 10 mm



deviation in horizontal alignment not greater than 10mm

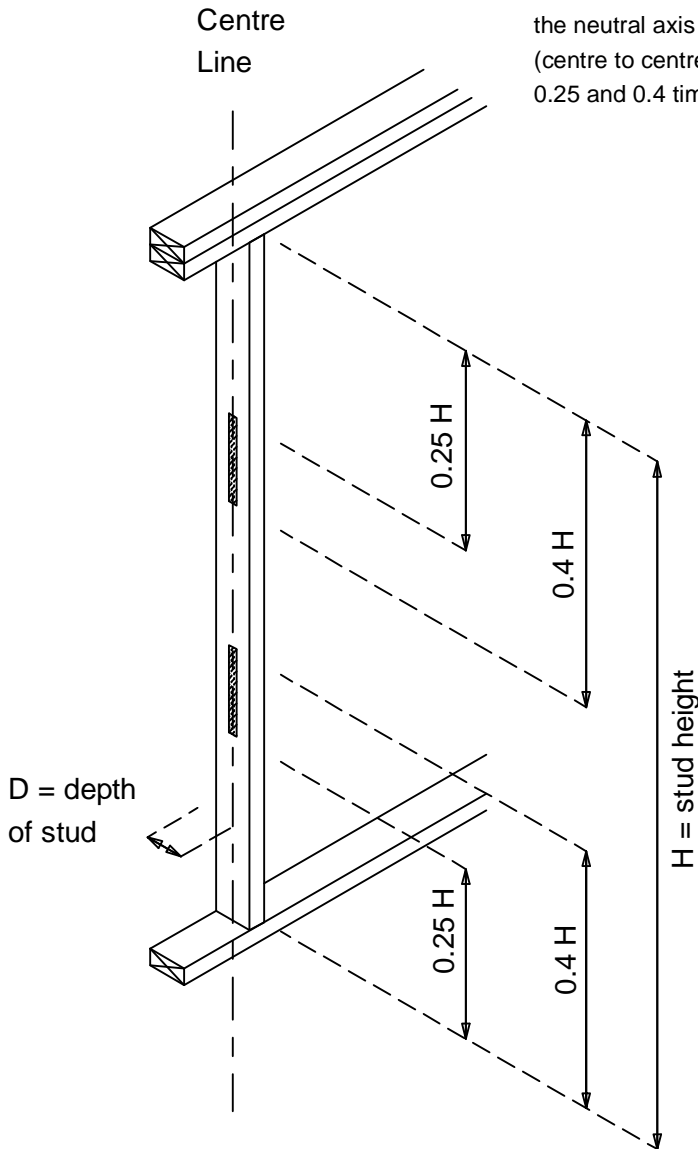
PLUMBING & ALINGMENT



BASE DETAIL - POWER FLOATED FLOOR SLAB

NOTCHES AND HOLES:

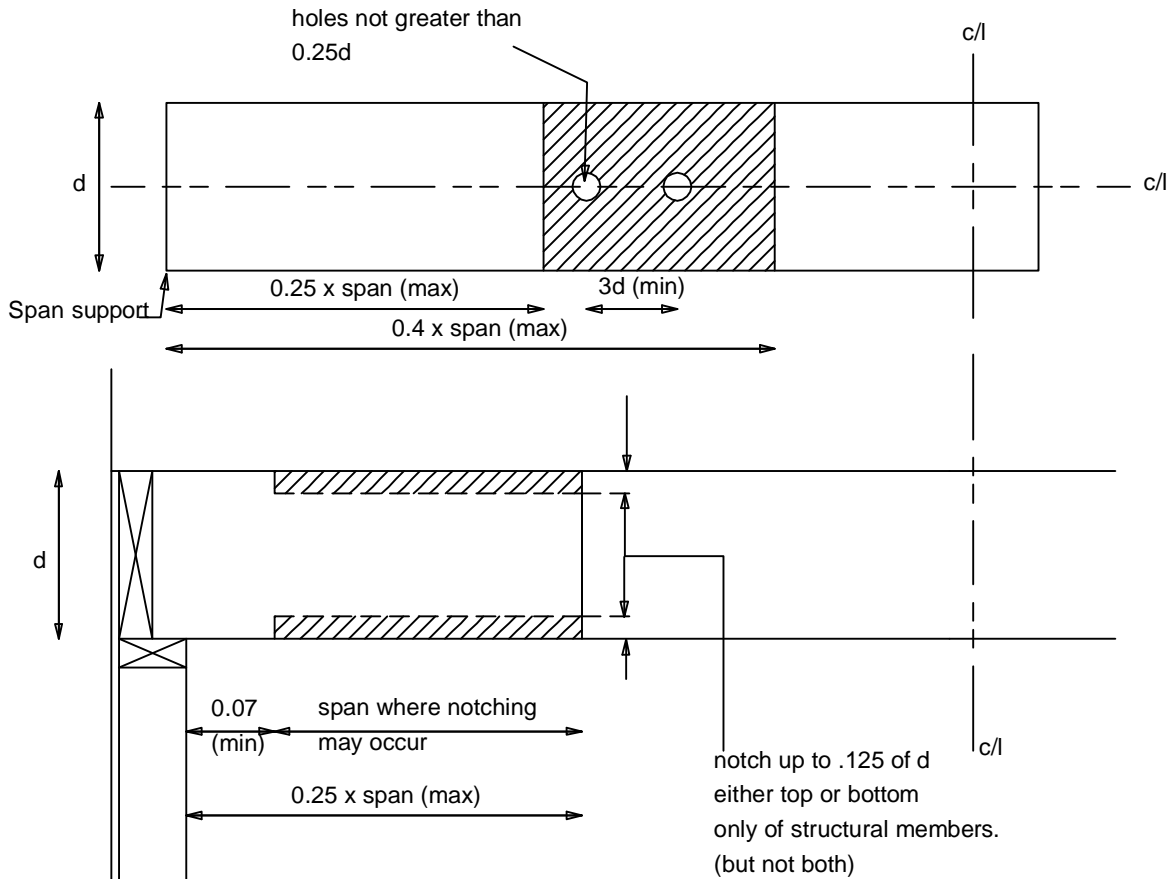
notches in structural timbers shall be no deeper than 1/8 of the depth of a joist and shall not be cut closer to the support than 0.07 of the span nor further away than 1/4 of the span and holes shall be no greater in diameter than 1/4 of the depth of the joist shall be drilled at the neutral axis and shall be not less than 3 diameters (centre to centre) apart and shall be located between 0.25 and 0.4 times the span from the support



Holes may only be drilled in the shaded areas, on the centre line. Max. hole dia. 0.25 stud depth D. Holes not closer than 300mm centres and located on the centre line of the stud only. The effect of holes need not be calculated when the requirements shown are met.

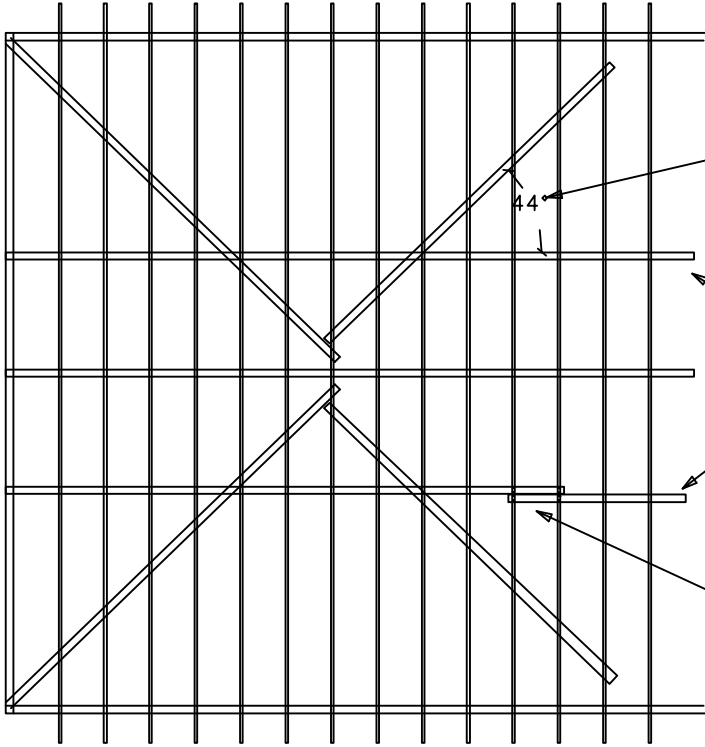
NOTCHING OF STUD MEMBERS.

NOTE: This drawing is for illustration purposes only - refer to IS 444 for notching and drilling details.



NOTES:

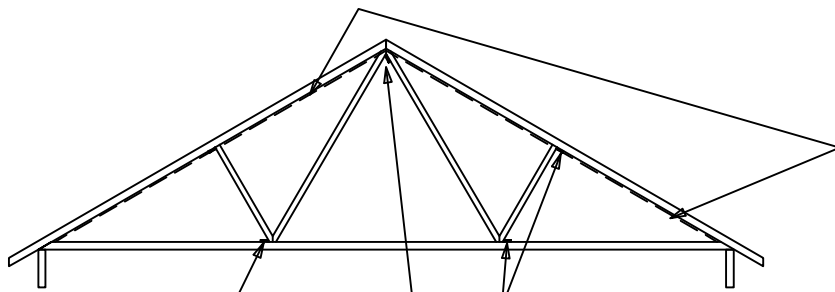
1. Drilling where practical to be used in preference to notching in both joists and studs.
2. No drilling or notching of roof trusses to occur with exception of ceiling to attic trusses.
3. Plan installation of services to minimise notching or drilling of structural members.
4. Any variation from the above to be approved by the system designer before work proceeds.
5. Details show the structural limitations for drilling and notching. However, we advise that you acquaint yourself with the specific statutory recommendations and limitations.



Angle of diagonal bracing to be no more than 45 deg, and no less than 30 deg.

Longatudinal binders to be fixed at every node point of the truss. binder to bea minimum of 250 mm. 2 e.g. (25 x 100 mm. or 35 x 75 mm.)

Where a brace or binder is to be joined the overlap must be over at least two no. trusses. i.e. one full truss space of 600 mm.



Line of diagonal bracing

Position of longatudinal binders

ROOF TRUSSES.

All roof trusses to be erected and braced in accordance with I.T.P.A. Technical Handbook and Design Code.

All trusses to be fitted with truss clips to prevent roof uplift. Truss design to determine grades and sizes in accordacne with I.S. 193 Note truss profiles shown are diagrammatic only and exact position of webs etc determined by truss manufactuers design. Certificate for truss design to be provided where applicable prior to delivery to site.

ROOF TRUSS BRACING.

Double studs may be necessary around openings to provide fixing for both cavity barriers and ties. Ties at 225mm vertical centres around opes.

Max. 600mm horizontal centres

Cavity barriers (cavity barrier at head may be omitted if using a cavity closing lintel)

Flexible ties must be fixed to studs through the breather membrane and sheathing

Ties at 450mm vertical centres unless otherwise stated

Cavity barrier in this location may be omitted if using a cavity closing cill

Bottom row of ties approx. 225mm above dpc level

EXTERNAL CLADDING & CAVITY.

Brick or blockwork outer leaf to be constructed in accordance with recommendations of the material supplier with regard to coursing, bonding, contraction joints etc and comply with I.S. 325 / B.S.5628 on 50mm drained and vented cavity, on timber frame inner leaf. Cavity to be vented using proprietary perpend vents at max. 1.5m centres below dpc level (allowing for drainage in addition to ventilation) and at eaves and verge level. Brick/block outer leaf tied to timber frame using flexible wall ties nailed at stud positions. Wall ties to be tested to DD140 and be accompanied with an appropriate BBA Agreement Certificate. Wall ties to be spaced at centres according to test, based on wind pressure for the locality of the site. Refer to manufacturers technical guidance documents for this information.

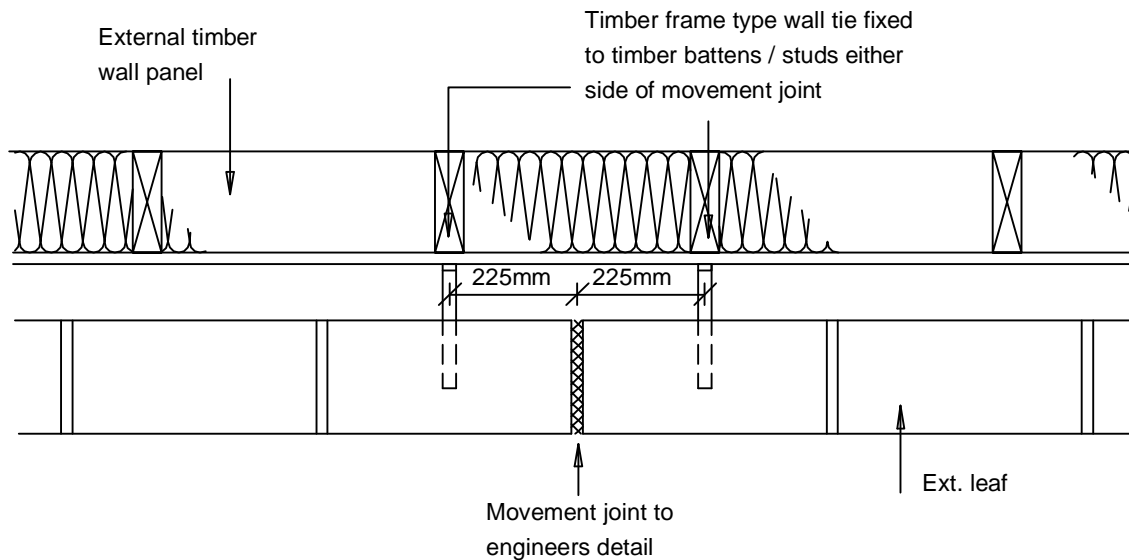
LOCATION OF WALL TIES.

EXTERNAL CLADDING & CAVITY.

Brick or blockwork outer leaf to be constructed in accordance with recommendations of the material supplier with regard to coursing, bonding, contraction joints etc and comply with I.S. 325 / B.S.5628 on 50mm drained and vented cavity, on timber frame inner leaf. Cavity to be vented using proprietary perpend vents at max. 1.5m centres below dpc level (allowing for drainage in addition to ventilation) and at eaves and verge level. Brick/block outer leaf tied to timber frame using flexible wall ties nailed at stud positions. Wall ties to be tested to DD140 and be accompanied with an appropriate BBA Agreement Certificate. Wall ties to be spaced at centres according to test, based on wind pressure for the locality of the site. Refer to manufacturers technical guidance documents for this information.

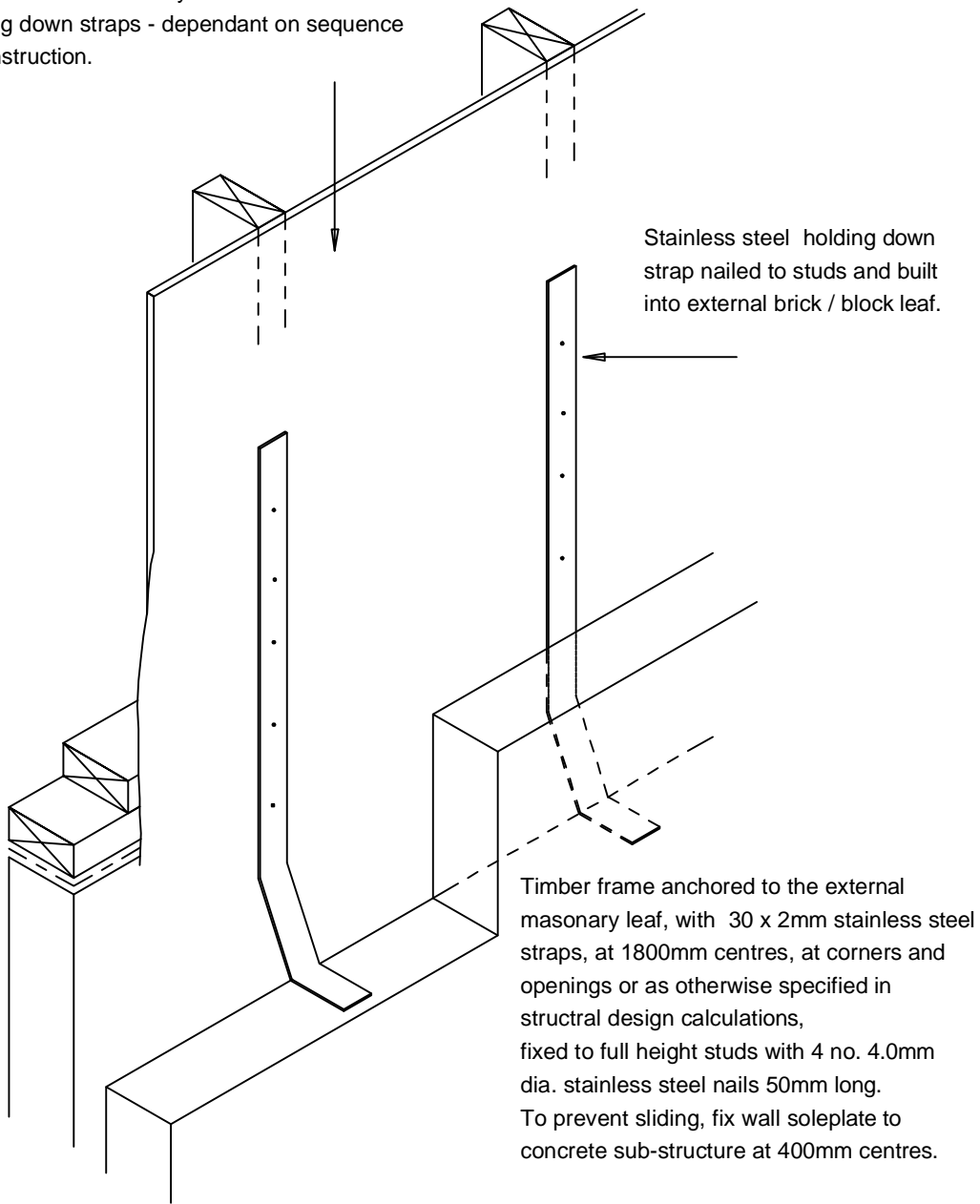
TIMBER FRAME EXTERNAL WALL.

38 x 90 / 140 studs at 400 / 600 centres (or as otherwise specified by calculations based on B.S. 5268 Part 2) with factory fitted bottom plate, incorporating dpc, and top rail + header. Note: all timber in external walls to be preservative treated. Stud framing to be sheathed with 9.5mm OSB 3 sheathing (or other category 1 sheathing material to B.S. 5268 Section 6.1 Table 2), with 2.81mm dia x 51mm long nails at 150mm centres to perimeter studs and 300mm centres to inner members unless otherwise stated in structural calculations.

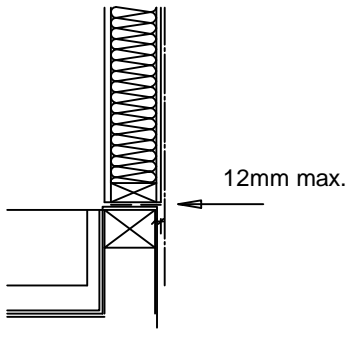


TYPICAL MOVEMENT JOINT

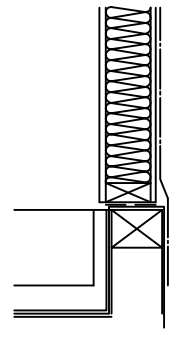
Breather membrane may be behind or over holding down straps - dependant on sequence of construction.



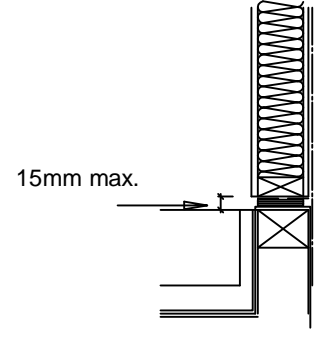
TYPICAL HOLDING DOWN STRAPS



Wallplate or bottom rail should not overhang the substructure by more than 12mm.

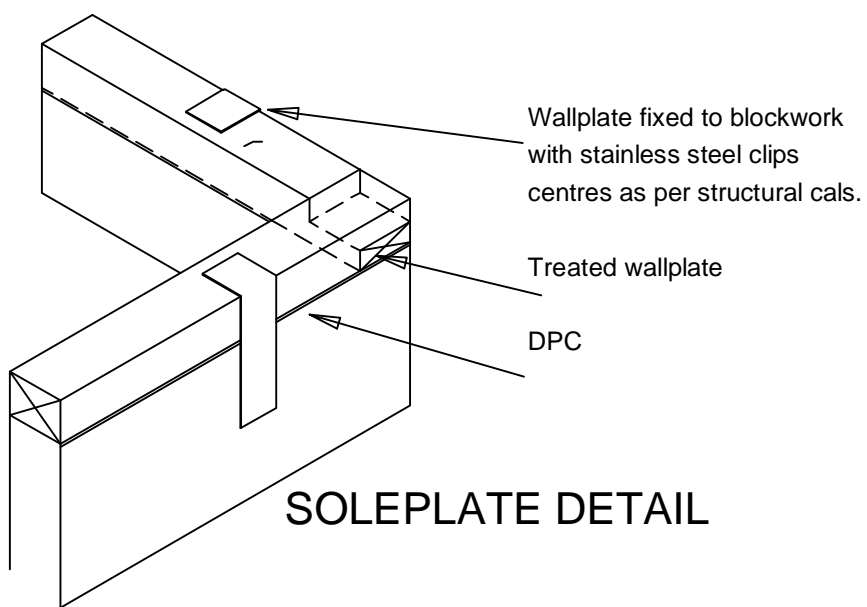


Breather membrane to extend a min. of 50mm below the top of the rising wall.



If wallplate is not level it may be supported by a mortar bed (and slate if necessary). Packing no greater than 15mm max.

MAXIMUM PERMISSIBLE INACCURACIES



SOLEPLATE DETAIL