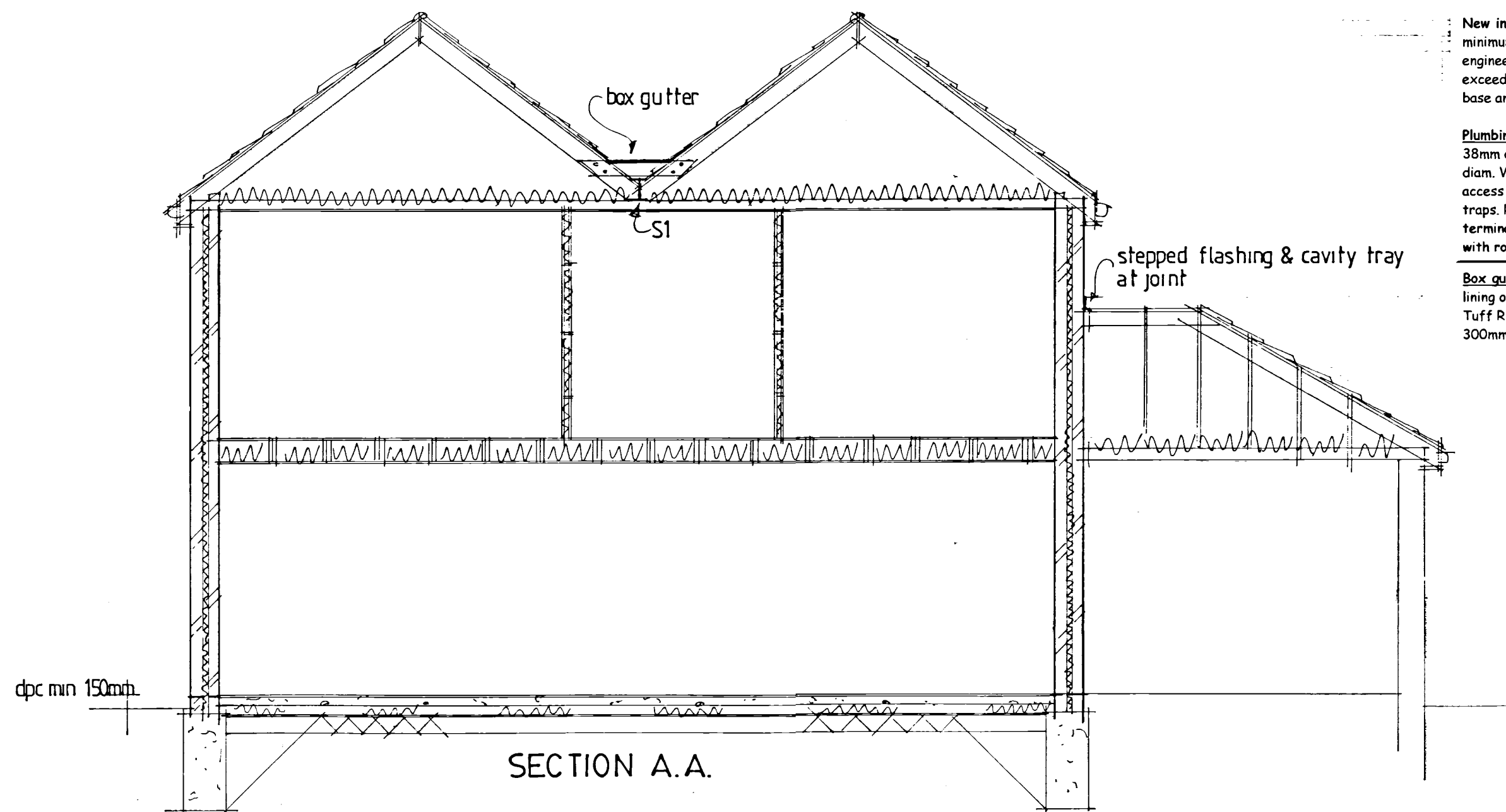




External walls 112mm facing bricks to match existing as closely as possible, 50mm cavity to Celotex CW4040 on 100mm lightweight concrete block (Celcon Solar, Thermalite Turbo, or similar rated) inner skin with render and set finish, (overall cavity 90mm) Insulated catnic lintols over new openings. Close cavities at eaves with non-combustible material. Tooth into existing walls and maintain all cavities. Wall ties to be at 750mm ctrs horizontally and 450mm ctrs vertically and staggered. 'Catnic' or similar vertical cavity thermal closers at openings. External perimeter of door and window openings to be sealed with a suitable airtight sealant.

First floor. 19mm floor grade moisture resistant T&G chipboard on **2no 50mm x 200mm** floor joists at mm centres. 100mm x 32mm galvanised mild steel straps at 1.2m centres around perimeter as lateral support. Fit 100mm mineral wool batts as sound insulation between.

Ceilings ground floor: 12.5mm plasterboard. First floor 12.5mm foil back plasterboard.

Main roof. concrete tiles on battens on breathable felt on **50mm x 150mm** rafters at **400mm** centres. Strap down with 1.00m x 32mm galv. ms straps at max 1.20m ctrs. Around perimeter.

Fit proprietary dry ridge vent system, or high level tile vents equivalent to 5mm continuous gap, fit eaves vents front, rear and dormers (if applicable,) equivalent to 25mm continuous gap.

Roof insulation: roof to be insulated with two layers of 150mm fibreglass insulation quilt. One layer laid between ceiling joist and one layer laid over in opposite direction. Maintain roof ventilation with 25mm continuous air to eaves and vent tiles to apex as shown.

Drainage all drainage to BS EN752 plus approved doc H 100mm diam. PVC drain ware minimum fall 1-40 in 150mm concrete surround to new or existing inspection chamber on existing run. Bridge with concrete lintols over where passing beneath new walls and flexible packing surround. Exact position, invert and direction of all existing drains to be determined and agreed on site PRIOR to commencement of works.

New inspection chamber sizes to suit invert of drains minimum sizes 600 x 450mm internal with 103mm semi engineering brickwork sides 215mm where invert exceeds 1000mm, built up from 150mm concrete slab base and fit medium duty cover and frame.

Plumbing all to BS EN 2056 plus approved doc H 38mm diam. wastes from sink, bath and shower. 32mm diam. Waste from wash hand basins, all with rodding access on changes of direction and with deep seal traps. Run to existing/new 100mm diam pvc svp terminating min 900mm above nearest window head and with rodding access at the base.

Box gutter to be formed where shown. Code 4 lead lining on 18mm ply base min.200mm wide. 90mm celotex Tuff R insulation under. Carry lead up roof slopes min 300mm. Fall to outlet.

Opening window areas to be minimum 1/20th of enclosed floor areas. All new windows to be fitted with minimum 8000sq.mm. trickle vents per room. Maximum area of double glazed window not to exceed 20% of floor areas

New windows: new double glazed windows to have minimum U value of 1.6w/m²k. Doors to have a min U value of 1.80w/msq.k. Toughened glass in glazed doors and windows in critical locations. i.e.: alongside doors. Seal around window-wall joint with mastic sealant. Double rafters as roof light trimmers if applicable.

Minimum full opening size of escape window 0.33sq.m. min clear dimension of edge 450mm with cill below 1.10m from floor and above 800mm.

Fit mechanical extract fans to any new wc and bathroom areas rated at min 15lit/sec

Fit mechanical extract fan from kitchen rated at min 60lit/sec. If cooker hood installed, to be rated at 45lit/sec. Utility room if applicable to be rated at 30lit/sec.

Steelwork:And Timbers. see structural calcs or notes for sizes. Minimum bearing 100mm on concrete padstones, prestressed concrete lintols or metal bearing plates. Encase in minimum two layers 12.5mm plasterboard for half hour fire resistance when fitted at floor levels. Lengths of steels to be site measured to include bearings. All timbers to be C24 grade minimum.

Inner partition: 12.5mm plasterboard each side of minimum 75 x 50mm studwork. Fit 25mm sound insulation quilt between held in place with battens.

Ceilings: 12.5mm foil back plasterboard on **50mm x 200mm** joists at **400mm** centres with 100mm glass fibre quilt between joists and Celotex GA4090 batts over the joists. Bolt and dog tooth washers at joints. Fit baffle boards at eaves to maintain clear air flow.

Foundation concrete trench fill, 450mm wide to min depth of 1 metre or to suit local ground conditions. (in clay soils min depth 1.2 metres) or to below invert level of any adjacent drain run.

Floor. 50mm screed on 100mm concrete slab on Celotex GA4070 insulation batts on 1,200G damp proof membrane continuous with new and existing damp proof course, on minimum 100mm well consolidated hardcore with 50mm sand blinding. fit 100mm diam pvc ducts under slab terminating in 225x75mm airbricks to vent existing timber subfloors when required.

Run to 100mm diam stub stack terminating above appliance flood level with durgo autovent.

New 100mm diam. PVC soil and vent pipe to terminate min. 900mm above window heads and with rodding access at base.

Rain water goods: run new 100mm diam pvc rain water guttering and 70mm diam downpipes to existing drainage system.

All new electrical works to be designed, installed, inspected and tested in accordance with BS7671 (IEE.17thEd) the works are to be undertaken by an installer registered under a suitable self certification scheme or by a suitably qualified person with a certificate of compliance produced to building control upon completion of the works.

Lighting. Fit high efficacy light fittings minimum one per four new fittings. Any recessed ceiling lights to be 30minute fire resisting.

All new radiators to be fitted with TRVs

Fabrication details to be provided if required by building control.

A	Date	Revision
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