

FOUNDATIONS

To be a minimum 600mm wide x 200mm deep GFI or ST2 grade mass concrete strip

Underside of which to be taken down to suitable loadbearing strata to be determined

on site following inspection of ground conditions by the appointed Building Control Surveyor.

100mm th ST2 grade Concrete slab on 125micron Polythene Separation Layer on 70 mm th 'Kingspan TF70' Board insulation on 300micron Polythene DPM on sand blinding on 150mm min th well consolidated hardcore, construction shall

3.25mm cavity construction, 2 coat cement/sand render on 100mm hollow dense concrete blockwork outer leaf, 125mm cavity filled with 'Crown Dtherm' insulation inner leaf of 100mm blockwork. Walls finished internally with skim coated 2.5mm Therma-lite Shield (λ=0.11). Blockwork walls finished externally with skim coated 2.5mm

450mm vertically, decreased to 225mm vertically around openings), (or similar approved to achieve minimum U value $> 0.21 \text{ W/m}^2\text{K}$). Close cavities at openings with insulated vertical DP (Chemmate or sim.), Fix WindowDoor frames using 5/steel frame straps so as to over bridge

1.5m x 1.50m of min cross section 5mm x 30mm Securely fixed to and across first three joists at not less than 1.8m c/s with noggins fixed between members at these positions. The Cavity shall be closed at top using non combustible materials (9mm cement/fibre board or sim). Provide CATNICK

EXTERNAL DOORS & WINDOWS
PVCu frames to comply with BS7412, with 28mm argon filled sealed double glazing units of low 'E' glass (k glass) to comply with BS 5713. Windows shall provide an average

PVC frames to comply with BS 7412, with 28mm argon filled sealed double glazing units of low 'E' glass (k' glass) to comply with BS 5713. Windows shall provide an average whole window $U' > 1.6 \text{ W/m}^2 \text{ K}$. All critical glazing areas; under a height of 800mm and

compatible with DJ 6206.11X window/door frames using c/s/steel frame straps so as to cover bridge the cavity closers.

Using M10 Resin Anchors.
Bolted to Wall @ 800mm centres

	Plasterboard	
	100mm th 512 Concrete	
	Floor Slab	

Sand Blinding

Phenolic Board Insulation

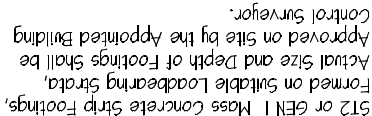
60mm th Kingspan K37

Well Consolidated
Hardcore Compacted
in 150mm th Layers.

Diagram illustrating the cross-section of a roof assembly, showing the following layers from top to bottom:

- Painted 25mm 2-Coat 1:3.5 Cement/sand render.
- 100mm Hollow Dense Outer Leaf.
- 125mm cavity filled with Crown Pythertm insulation ($k < 0.032$).
- 100mm Hollow Dense Inner Leaf.
- Reinforced concrete saddle, waterproof protection.

The Construction Shall Achieve a U' value < 0.21 W/m²/°C
finished interioring min. lightweight 1" insul board on slab.
600mm Max (at 200mm thick) section A-A

[illegible]

FULL PLANS APPLICATION DRAWING

Root Windows and doors are to provide a minimum of 1/20th floor area natural Purge ventilation. Provide background trickle ventilation minimum 5000 sq mm to each habitable room, 4000 sq mm to kitchens, sanitary and utilities. Provide mechanical extract fan with the volume capacity indicated in the drawings and ducted to exit outside.

ROOF
Interlocking concrete roof tiles, mechanically fixed and installed to fully comply with manufacturers instructions laid with 100mm head lap on 50 X 25mm treated SW battens

interlocking concrete root tiles, mechanically fixed and installed to fully comply with manufacturers instructions laid with 100 mm head lap on 50 x 25 mm battens on 'Tyvek Supro' plus' breather sarking use proprietary eaves carriers/trays in conjunction with breather sarking 42 x 120 mm 5.5 sw nails at 400 mm c/c shall be provided.

and electric crows welded to 7 mm x 100 mm circular discs. The crows were placed 35 mm x 5 mm securely fixed at 2.0m centres. The upper support Pole plate shall fixed to the face of the existing wall using M12 Resin Anchors at 400mm centres.

to BS 1178, use code 4 for flashings.
Insulation: provide PIR board insulation (Kingspan), 100mm thickness closely fitting between rafters, together with 50mm thickness fixed to soffit of rafters (provides Min U value 0.15

ROOF WINDOW

Double glazed, AAI fire rated roof windows ('Velux') to provide an average whole window U-value of $1.6 \text{ W/m}^2\text{K}$ shall be installed in accordance with the manufacturers instructions.

Trimmers 47 X 170mm shall be provided above & below windows with double rafters on either side. Roof Windows shall be installed to fully comply with the manufacturers instructions and using the appropriate flashing kit.

All work shall be carried out in compliance with the relevant parts of BS 8000: 1 989/90. Dimensions, heights, angles & levels etc. shall be checked on site and confirmed prior to ordering materials or carrying out any work. All work to comply with current building regulations and good building practice.

REGULATION 7: submitted for approval.

All Work Shall Conform to the Standards for 'Materials and Workmanship' Identified in Regulation /; i.e. Using

Harmonised Standard or European Technical Approval and Conform to a B.S. or B.B.A. Certificate.

What you need to know!
The householder / owner is hereby informed that the Construction (Design & Management) Regulations 2015 (CDM Regs) are statutory regulations and are applicable to all building work.

projects. CDM applies to all building and construction work and includes new build, demolition, refurbishment, extensions, conversions, repair and maintenance.

If you are having building work carried out at your home by a building contractor, the CDM regulations defines you as a Domestic Client. However, you have no responsibility for workplace safety, whilst the work is being undertaken. The Domestic Client Duties, under CDM 2015 must be carried out by the building contractor you engage.

The building contractor that you engage will be the Principal Contractor and will be responsible for planning and ensuring the project and ensuring adequate supervision is provided at all stages and ensure that all operations

of the site workers and the building users affected by the building work. The contractor must prepare a Construction Phase Plan before any work starts on site. As a minimum HSE form CIS80 should be completed for this purpose. Also, the contractor must make provision for the Welfare facilities of the construction workers

Job: PROPOSED SINGLE STOREY EXTENSION at 42 FORDD ESTTN, GARDEN VILLAGE, WREXHAM LL11 2SS	CROSS SECTION & NOTES	dwg No. 0622/04 Scales: 1:50 @ A3 Date: May '22
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