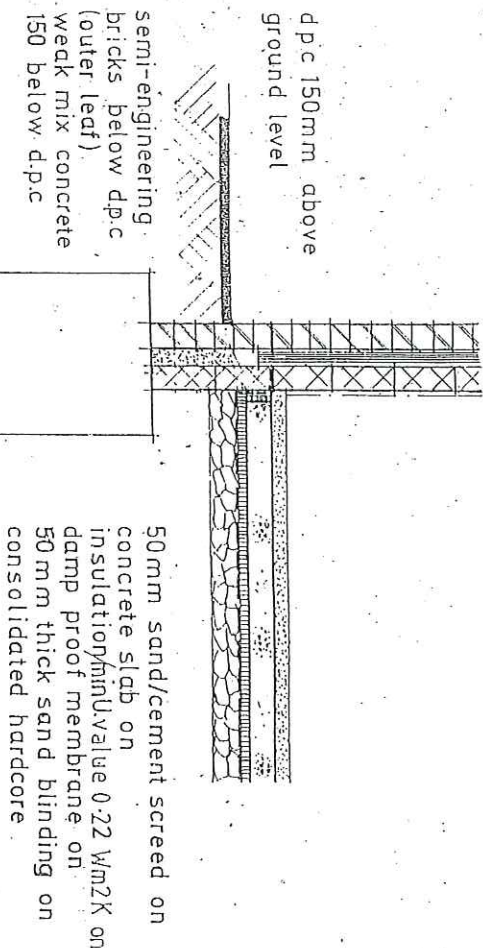


wall construction
brickwork
insulation
blockwork

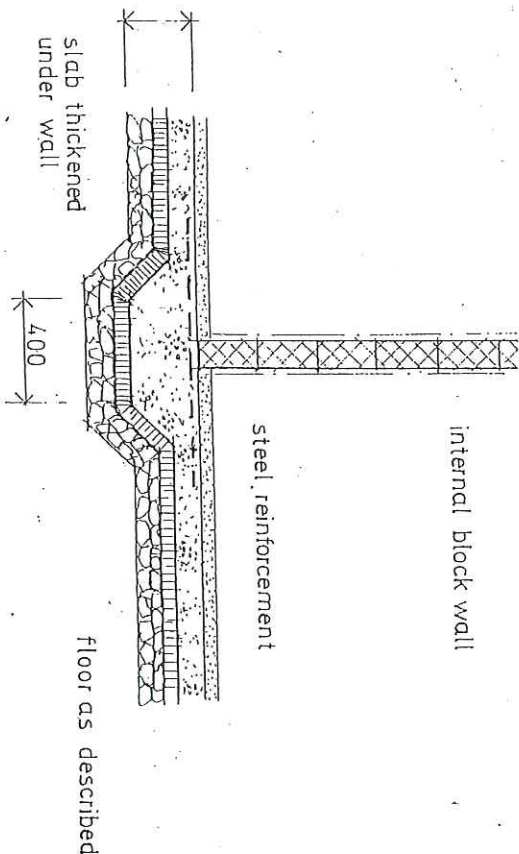
to achieve min U value 0.22 W/m²K



C15P trenchfill

600

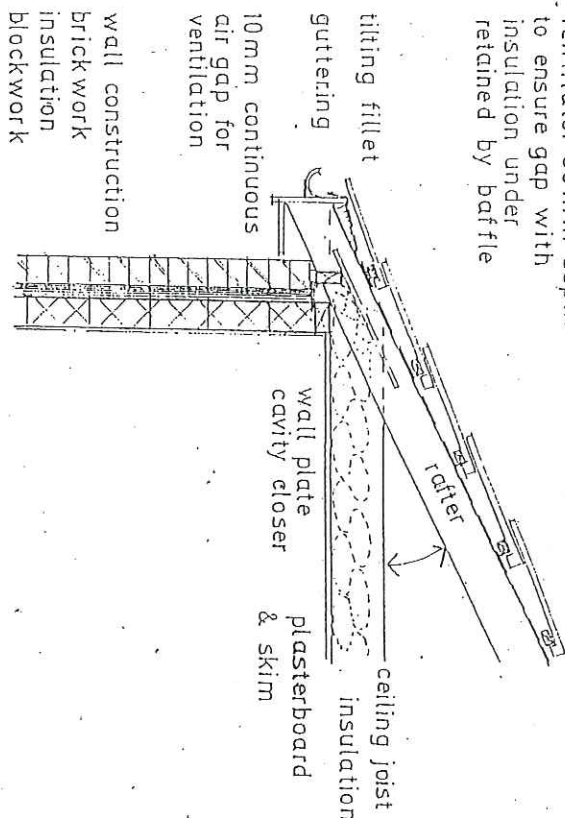
SECTION 1 EXTERNAL LOAD BEARING WALL



SECTION 2 INTERNAL LOAD BEARING WALL where applicable

s/w valleys on
sarking felt on
roof rafters

ventilator 50mm depth
to ensure gap with
insulation under
insulation retained by baffle



insulation to comply with reg Part L Elemental Method

Pitched roof 0.16 W/m²K
External walls 0.28 W/m²K
Windows 1.60 W/m²K wood/PVC framed
Floors 0.22 W/m²K

SECTION 3 EXTERNAL LOAD BEARING WALL & ROOF

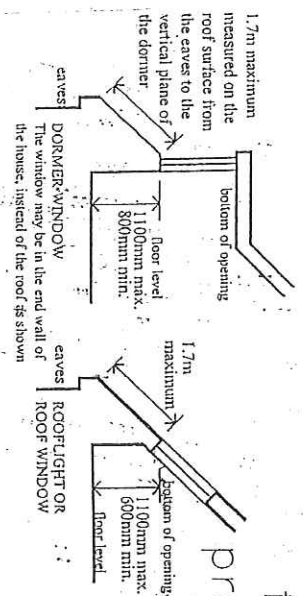
UPDATE of Regulation L (Conservation of Fuel & Power)

Element	
Walls:	-0.28
Pitched Roofs: insulation at ceiling level:	-0.16
Pitched Roofs: insulation at rafter level:	-0.18
Sloping areas in a room in roof:	-0.18
Pitched roof with integral insulation:	-0.18
Flat roof:	-0.18
Floors:	-0.22
Windows:	-1.6
Rooflights or roof windows:	-1.6
Doors more than 50% glazed:	-1.8
Other doors:	-1.8
Window Areas:	
25% of floor area + area of existing openings:	-1.8

CONSTRUCTIONAL DETAILS & SECTIONS.
To be read in conjunction with the
General Specification & Structural
Engineer's Details & Spec (if applicable)
All work to comply with current Building
Regs & I.A. Planning conditions
SHEET NO:
AM 1

2. Can you provide a suitable escape window from the new second floor?

Existing purlins are often in the way when positioning an escape window. If the purlin needs moving to achieve the 1.7 metre dimension then structural design may be needed.



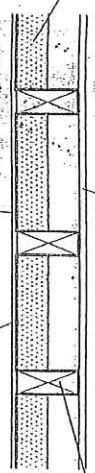
100 mm RW2 flexible slabs to provide a minimum 30 minutes fire resistance

19 mm tongue & groove chipboard

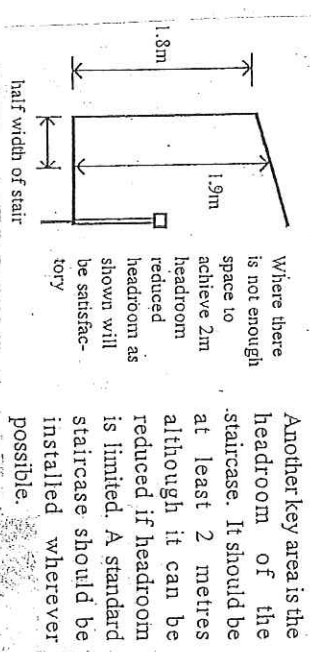
25 mm wire mesh

support fixed to sides of joists

200 x 75 mm GS grade joists at 450 mm centres

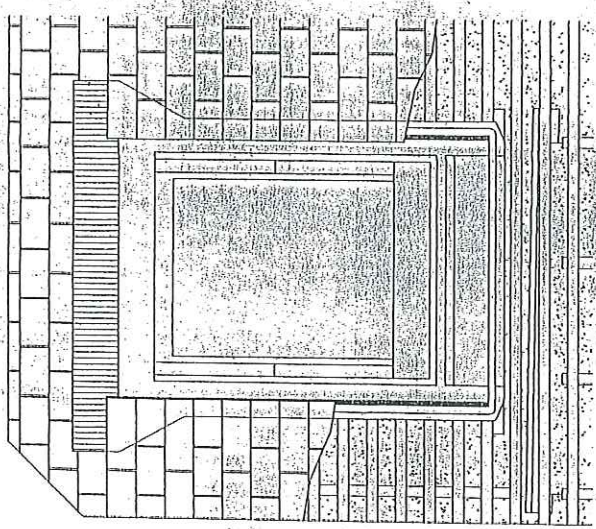
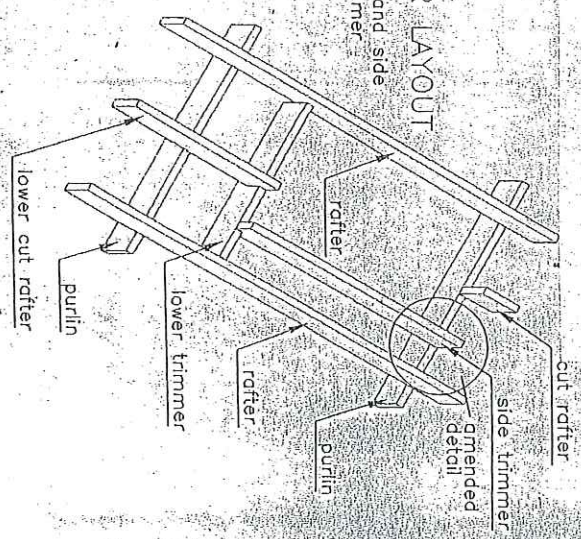


3. Can you achieve a suitable head height over the new stairs?



TRIMMER LAYOUT

cut rafter and side of lower trimmer

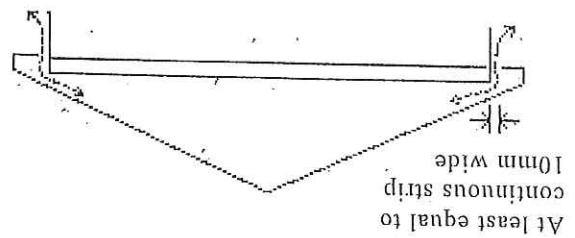


TYPICAL ELEVATION OF PROPOSED ROOF LIGHTS TO FRONT AND REAR ELEVATIONS (not to scale)

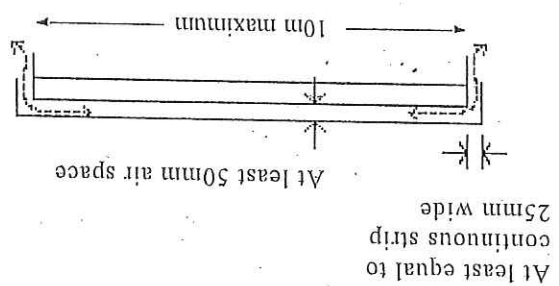
Architectural & Interior Designer	
<i>John David Payne</i>	
B.A. (Hons) M.C.A.D. D.A.	
Telephone : 0792 394484	
Plans for: Industrial & Domestic Buildings: Interior, Exterior, Extensions, Alterations, Local Authority & Grant applications underwritten, 10 Dillmore Road, Fortbrook, Stoke-on-Trent, ST11 9DL.	
Customer	
Description	
Drawn By	Date
SHEET no: 1	

ROOF VOID VENTILATION

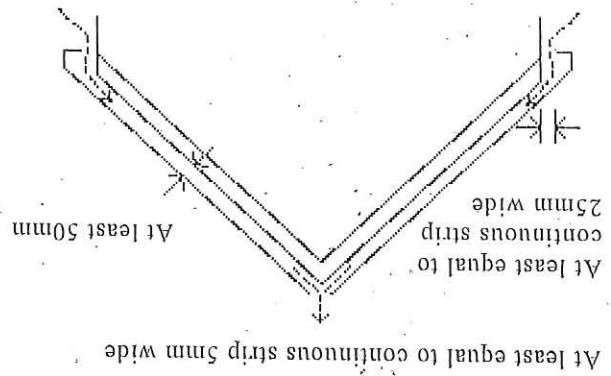
(a) PITCHED ROOF



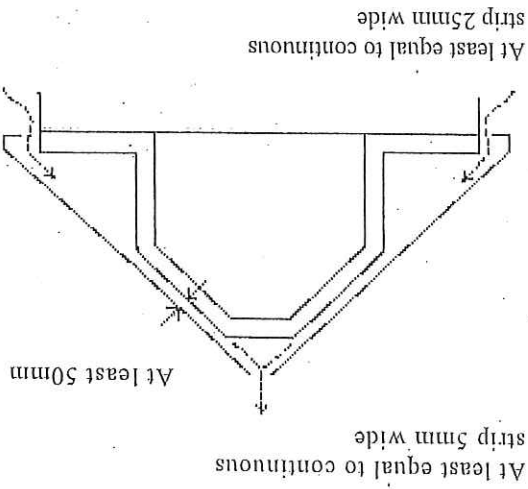
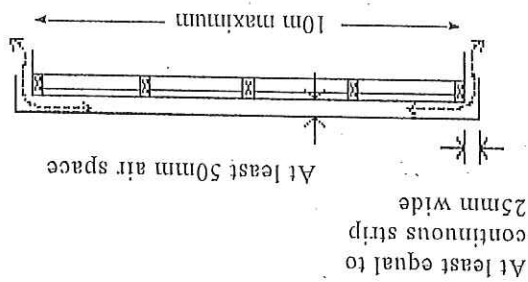
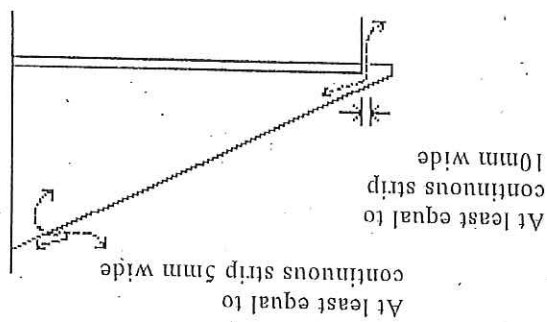
(c) FLAT ROOF



(d) CEILING FOLLOWING PITCH OF ROOF



(b) LEAN-TO ROOF



The details above do not apply to:

- 1) Warm roofs
- 2) Small roofs ie bay, porch
- 3) Roof space less than 15 and in excess of 10m - 0.6% of roof area required
- 4) Alternative design

GUIDANCE FOR FLOOR JOISTS SPANS

All joists located in external walls should be fitted in restraint type joist hangers or neoprene sockets. Strutting or blocking is required mid span if the joists are between 2.5 to 4.5 metres in span. Over 4.5m requires two rows at 1/3rd spans. Lateral restraint straps are required at 2 metre centres.

Domestic Floor Joists

Timber grade C16

Joists mm Dead loadkn/m² more than 0.25 and less than 0.50

MAX SPANS

Spacing of Joists mm

400	450	600	47x150	3.25	3.13	2.84
			47x170	3.81	3.66	3.32
			47x200	4.36	4.19	3.81
			47x225	4.84	4.70	4.29

3.79	3.65	3.32	75x150	4.43	4.27	3.88
			75x170	4.96	4.82	4.45
			75x200	5.41	5.26	4.91
			75x225			

Information correct as Jan 2010 please be aware that dimensions may change due to quality of timber

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