

Block Plan
Scale~ 1:200



General -

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BR VER 1	11 OCT 2016	2391400 All measurements must be checked on site. If there are any deviations the designer should be notified and written confirmation sought.
		The plans are the property of M. Baggett Chartered Surveyors and Architectural Service and written permission must be sought before passing any plans onto third parties.
		Party Wall agreements should be put in place before any works commence on site.

No.	Date	Issue Notes
<div>MARK BAGGOTT CHARTERED SURVEYORS AND ARCHITECTURAL PRACTICE</div>		
Design Firm Mark Baggett Chartered Surveyors & Architectural Practice p. 01559371550 m. 07717292879 e. mark@baggettmark.co.uk		
Consultant Mark Baggett		
Project Title Full Planning application for single housing development, 1 dwelling 115m2.		
Sheet Title Proposed erection of detached dwelling on Plot (3) opposite Gilwen House, Waungilwen, Felindre. Carms. SA44 5YG		
Project Manager	N/A	Project ID PLOT 3 GILWEN HOUSE
Drawn By	MB	Scale AS SHOWN
Client Mark Baggett.		
Scale Drawing No. 19-648/200A/11.1 Date: July 2016		
CLS Job No. 16-646 Surveyor: Adrian Catling Checked: Adrian Catling		
Sheet Layout One Sheet Only		
Land opposite Pennant, Waungilwen, Velindre, Carmarthenshire.		
Topographic Survey		
Rev. By Date Description of update		
Survey Details 1. OS grid & datum from GPS. 2. North arrow indicates approximate North. 3. Scale factor 1.00000 4. Contour interval 0.50m		
ABBREVIATIONS AV - Air valve B - Bollard BB - Bellisha beacon BH - Bone hole BM - Site bench mark BT - British Telecom BW - Barbed wire fence CAM - Camera CB - Phone box CDP - Cable draw pit		
Conc - Concrete CIB - Closed board fence CI - Corrugated fence DP - Down pipe DK - Drop kerb EIC - Electric cover EL - Eaves level EP - Electricity pole ER - Earthing rod FL - Floor level FH - Fire hydrant FP - Flag pole G - Gully		
GV - Gas valve IC - Inspection cover IL - Invert Level IR - Iron Railings JB - Junction box KO - Kerb outlet LB - Litter box LP - Lamp post MR - Utility marker MP - Mile post OSBM - Ordnance Survey bench mark SC - Stop Cock SE - Service entry pt. SL - Step Level SO - Soil level SP - Sign Post OB - Open board		
P - Post PS - Paving PR - Post/rail fence PW - Post/wire fence RE - Road eye RL - Ridge Level RS - Road Sign SAP - Sapping SC - Stop Cock SE - Service entry pt. SL - Step Level SO - Soil level SP - Sign Post		
TAC - Tactile Paving TH - Trial Hole T.O.W - Top of Wall TP - Telegraph Pole TS - Traffic signal TSC - Traffic signal cover TV - Cable television UTL - Unable To Lift VP - Vent Pipe WL - Water Level WM - Water Meter WS - Survey Station D - Pipe Diameter(m)		
LINE TYPES Building Kerbs, Walls Fences Iron railings Top of banks Bottom of banks Hedges Overhead Wires Change of surface		
Station coordinates		
47 Heol Llan... Tel / Mobile 07717292879 email: adrian@baggettmark.co.uk		

Timber staircase ~

Dimensions to be checked and measured on site prior to fabrication of stairs. Timber stairs to comply with BS585 and with Part K of the Building Regulations
Rise - 13 equal risers totaling 2625mm.
Going - 12 equal goings of 225mm each.
Unobstructed width of flight - 800 as indicated on the drawings.

Tapered treads to have going in centre of tread at least the same as the going on the straight. Min 50mm going of tapered treads measured at narrow end. Doors which swing across a landing at the bottom of a flight should leave a clear space of at least 400mm across the full width of the flight

Stairs to have a clear headroom measured vertically from the pitch line of the flight of at least 2.0m.

Balustrade ~

Balustrade to be designed with no opening large enough to allow a sphere of 100mm to pass through and should not be climbable by children. Height of the balustrade to be 900mm measured above pitch line. Provide handrail to top of balustrade. Height of balustrade to landings to be 1100mm above finished floor level. Maximum pitch of stair to be 42 degrees.

Provide traditional style balustrade with 89x69 hardwood turned revel posts and moulded handrails and 32x32 softwood moulded balusters. Handrail finished in clear varnish and softwood gloss painted.

Acoustics ~

All separating walls and floors to be carried out in accordance with Part E of Building Regulations.
Walls and floors between dwellings to achieve the following standards ~

New party walls and new upgrades to separating floors have to achieve a minimum of 43db airborne sound.

Floors to achieve a maximum 64db for impact sound.

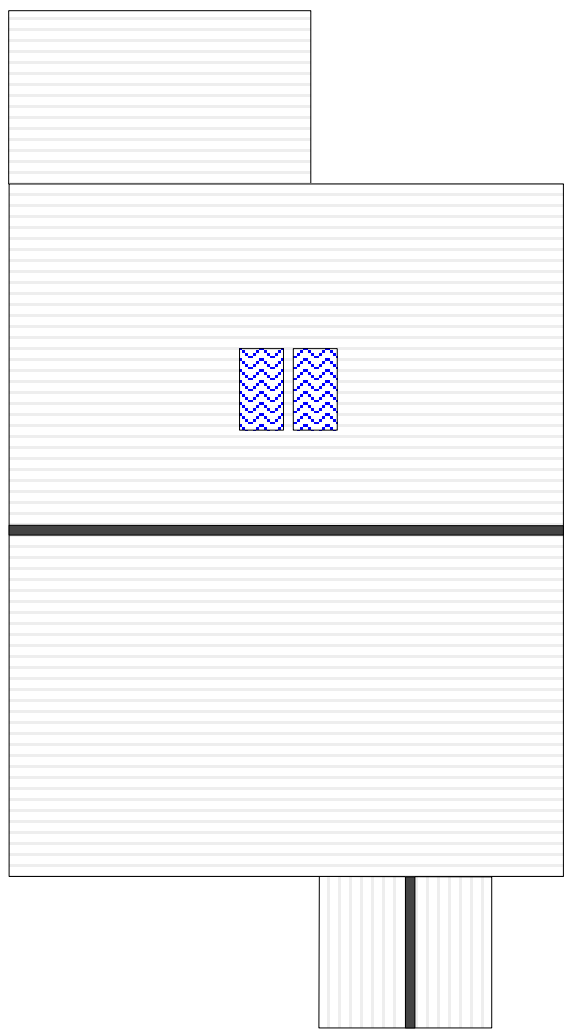
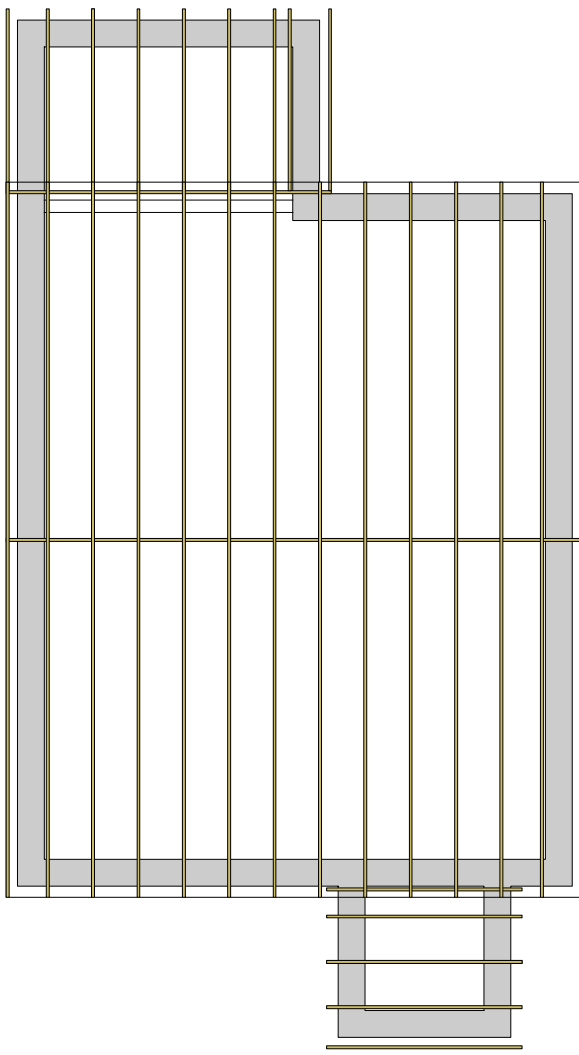
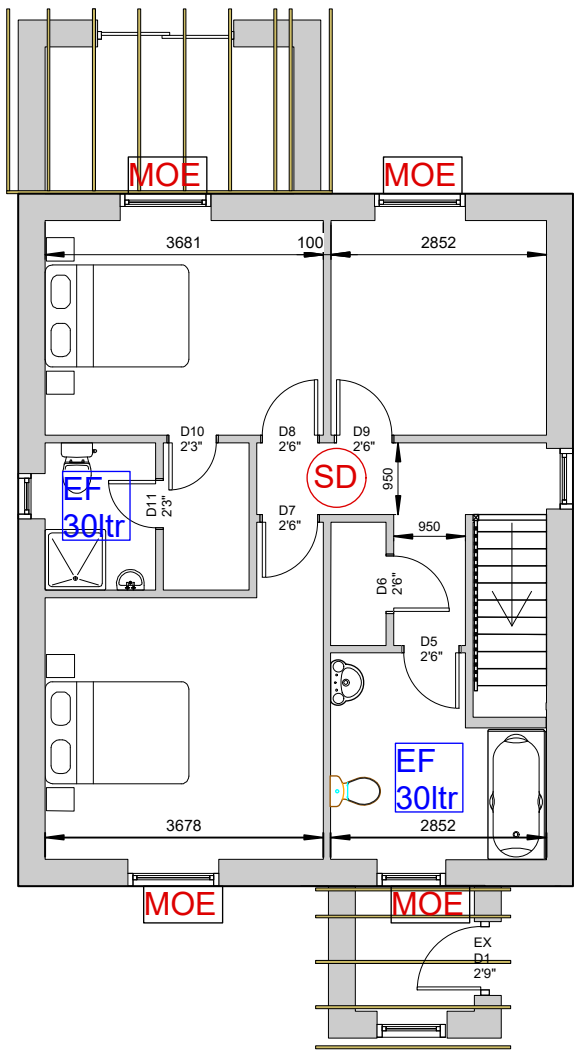
Internal partitions to achieve 40 db.

Proposed first floor, truss and roof plan
Scale ~ 1: 100

Electrical Plan ~

Bedrooms;

x4 double sockets in each room;
TV and satellite points in each room;
x1 pendant in each room;
two way light switches in each room;
x4 down lights for each bathroom;
Extractors in both bathrooms;
electric points for light above sink;
x2 pendant in hall area;



Roof trusses ~

Details of all trussed rafters, as designed by the manufacturer, to be forwarded to Building Control for approval, prior to erection on site - in addition, provide an overall roof plan showing the truss layout and all necessary bracing and wall attachment details to show that the roof and walling will act as a composite structure to meet the requirements of the building regulations A1.

Trussed rafters at 600c/cs with the design and manufacture to be by a specialist sub-contractor who is a member of the Trussed Rafter Association (TRA).

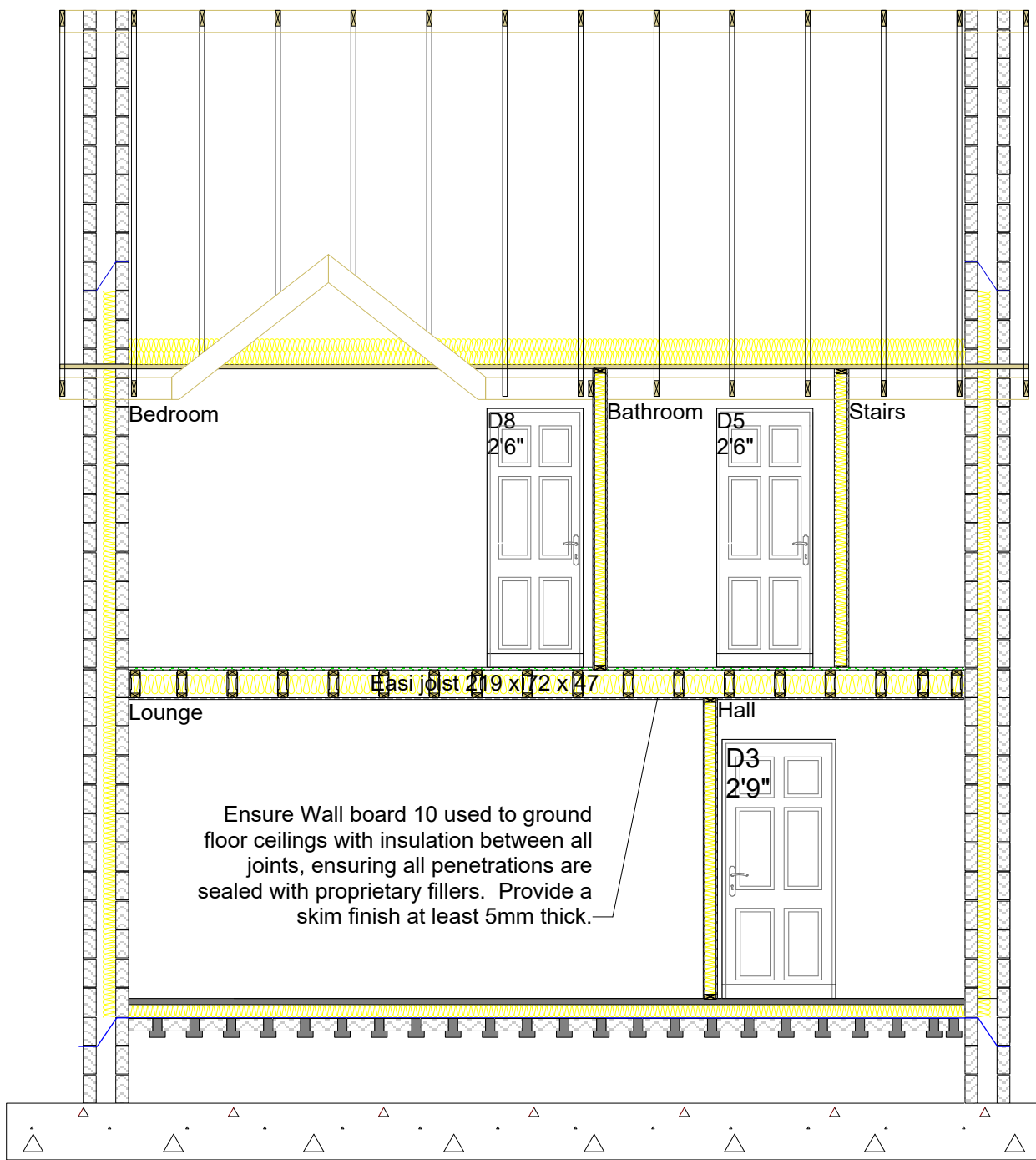
Design and manufacture shall meet the requirements of the following standards;

Structural use of timber;
BS 5268-2:2002 - Code of practice for permissible stress design, materials and workmanship.
BS 5268-3:1998 - Code of practice for trussed rafter roofs. Loading for buildings;
BS 6399-1:1996 - Code of practice for dead and imposed loads. AMD 13669 2002.
BS 6399-2:1997 - Code of practice for wind loads. AMD 13392 2002, AMD 14009 2002.
BS 6399-3:1998 - Code of practice for imposed roof loads. AMD 6033 1988, AMD 9187 1996, AMD 9452 1997.

All timber to be pressure impregnated by an approved process.

100x50mm wall-plate to be strapped at 900c/cs with galvanised mild steel straps.
Roof bracing to be in accordance with TRADA Technical Data Sheet 5 and to BS 5268.
Adequate blocking pieces shall be provided between rafters at wall restraint ties to transmit compression forces.

Section Plan
Scale ~ 1:50



Wall make-up to achieve a U value of 0.21W/m2k
1. Rendered 100mm dense block;
2. 55mm clear cavity;
3. 80mm insulation fixed to inner-leaf with proprietary wall ties;
4. 100mm dense block;
7. 12.5mm dot and dab plasterboard;
8. Skim finish

Pre stressed 150 x 100 stressline concrete lintels to be provided with weep holes and stepped DPC over window heads. Provide vertical DPC to window allowing a 5mm projection and fix DPC over to tie into window, ensure DPC installed under cill. Provide mastic joint to cover vertical DPC lapping window frame.

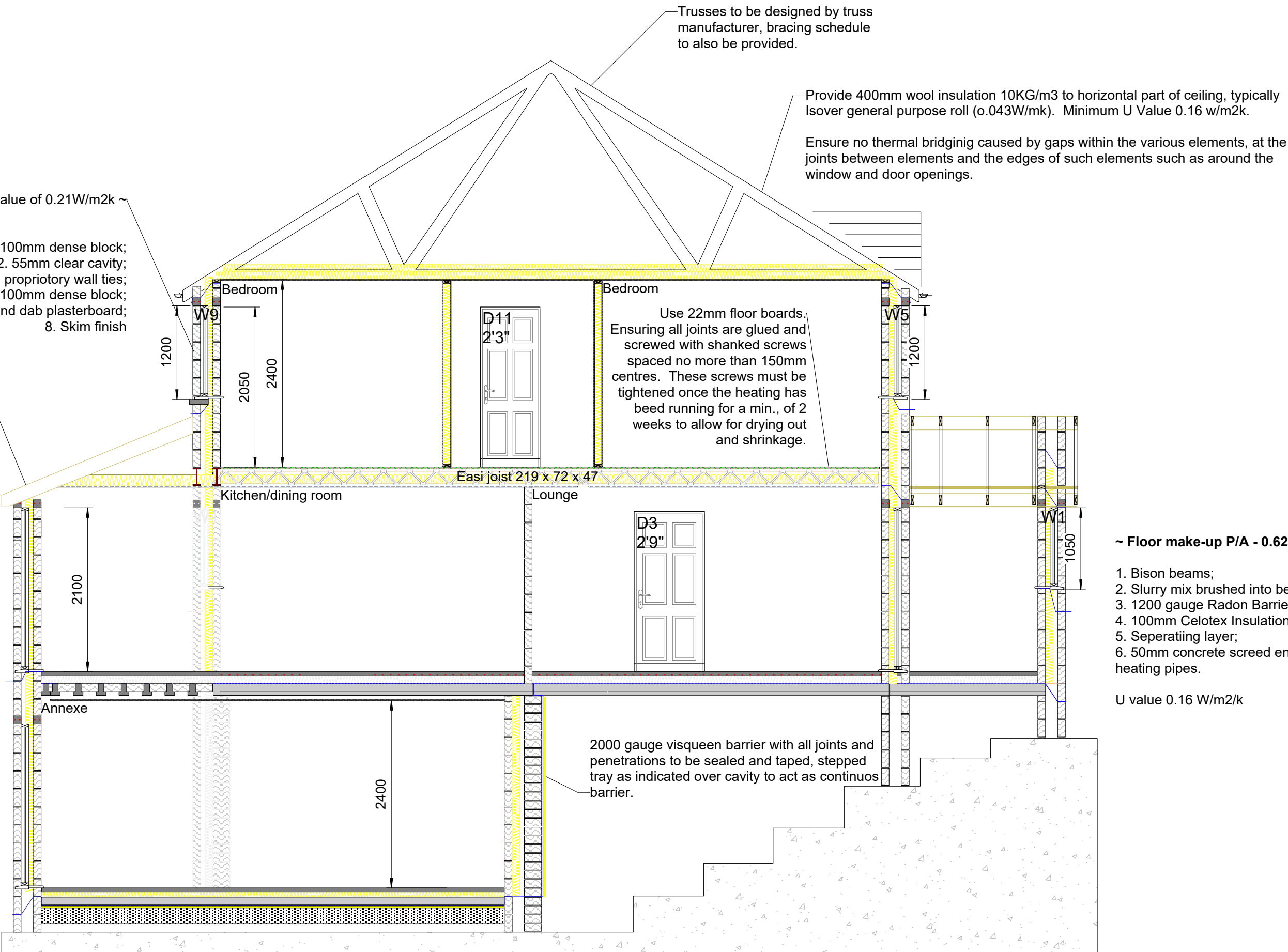
Lintels/ Beams ~

Proprietary lintels/ steel beams to be provided over all structural openings including meter boxes in accordance with drawings and schedules. Lintel references are generally those of I.G. Lintels Ltd. And denote pressed-steel type lintels designed in accordance with B.S.5977-2, galvanised to B.S.729. Any alternatives must be approved and satisfy all of the above requirements.

Where I.G. references are not given, lintels to be as detailed in Structural Engineer's calculations. Cavity trays/ damp proof protection must be provided over all external opening either separately or as a combined part of lintel.

Minimum 2 No. weep holes per opening to be provided spaced at maximum 450 ctrs. All lintels/beams must bear on full (NOT CUT) blocks and must be firmly bedded in mortar. End bearings to be 150mm minimum (any reduction must be to satisfaction of Structural Engineer). Pad stones to be provided where necessary as per Structural Engineer's requirements.

Manufacturer's recommendations for providing adequate fire resistance should be followed. Cold bridge paths should be avoided and adequate insulation measures incorporated, depending upon Intel profile, in accordance with manufacturer's specification. Steel beams to be zinc-coated and painted with bitumen.



~ Floor make-up P/A - 0.62~

1. Bison beams;
2. Slurry mix brushed into beams;
3. 1200 gauge Radon Barrier;
4. 100mm Celotex Insulation with 25mm Celotex Edge board;
5. Separating layer;
6. 50mm concrete screed encapsulating underfloor heating pipes.

U value 0.16 W/m2k

UKradon - Radon Risk Reports

Radon Risk Report for addresses in England and Wales

Issued by the Health Protection Agency and the British Geological Survey using Address Post88. Fee paid £3.00
+ VAT. Email receipt issued by Secure Trading Ltd.

Address searched: Pleasant View, Velindre, Llandyfael, SA44 5YG
Numerical grid reference for this address: 234070 East 235166 North

Date of report: 14/05/2010

Guidance for existing properties
Is this property in a radon Affected Area? - YES
The answer to the standard enquiry on house purchase known as CQ209 Standard Enquiry of Local Authority, 3.13 Radon Gas. Location of the Property in a Radon Affected Area is:
The estimated probability of the property being above the Action Level for radon is:1-3%
The result covers a 75 metre zone around the grid references above to allow for uncertainties in locations.
This report informs you of the estimated probability that this particular property is above the Action Level for radon. This does not necessarily mean there is a radon problem in the property, the only way to find out whether it is above or below the Action Level is to carry out a radon measurement in an existing property.
Radon Affected Areas are designated by the Health Protection Agency. HPA advises that radon gas should be measured in all properties within Radon Affected Areas.
If you are buying a currently occupied property in a Radon Affected Area, you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were above the Radon Action Level and if so, whether remedial measures were installed, radon levels were re-tested, and the results of re-testing confirmed the effectiveness of the measures.
Further information is available from HPA or from ukradon.org.

Guidance for new buildings and extensions to existing properties
What is the requirement under Building Regulations for radon protection in new buildings and extensions at the property location? - None
If you are buying a new property in a Radon Affected Area, you should ask the builder whether radon protective measures were incorporated in the construction of the property.
See the Radon and Building Regulations for more details.

Report design: 22 January 2010, V 2010.03

Building Regulation Compliance

Property Reference: PLOT 3 OPP GILWEN TERRACE
Survey Reference: PLOT 3 OPP GILWEN TERRACE
Prep Type Ref: PLOT 3 OPP GILWEN TERRACE
Reference: PLOT 3 OPP GILWEN TERRACE - UNOCCUPIED, UNOCCUPIED, CARMARTHENSHIRE, SA44 5YG

Surveys: MARK BAGGOTT, TEL: 01559371550, FAX: 01559371550, EMAIL: MARK@BAGGOTT.CO.UK, SURVEYOR ID: 6389-0001

Address: WAUNGILWEN, VELINDRE, VELINDRE, CARMARTHENSHIRE, SA44 5YF

Software Version: Estimate Energy Systems SAP2012 Calculator (Design System) version 3.0100
SAP version: SAP 2012, Reg Region: Wales (Part 1 & 2) 2014, Calculation Type: New Build (As Designed)

SUMMARY FOR INPUT DATA FOR NEW BUILD (As Designed)

15 YER and DER
Fuel for main heating: Electricity
Fuel factor: 1.65 (electricity)
Target Carbon Dioxide Emission Rate (TER): 23.47 kg/m²
Design Carbon Dioxide Emission Rate (DER): 20.86 kg/m² OK

2 FLOOR VALUES

Element	Average	Highest
External wall	0.20 (max. 0.21)	0.20 (max. 0.20)
Floor	0.16 (max. 0.16)	0.16 (max. 0.16)
Roof	0.13 (max. 0.13)	0.13 (max. 0.13)
Openings	1.44 (max. 1.60)	1.60 (max. 3.30)

26 Thermal bridging
Thermal bridging calculated from linear thermal transmittances for each junction

3 Air permeability
Air permeability at 50 pascals: 15.00 (assumed)

4 Heating efficiency
Main heating system: Heat pump with radiators or underfloor - Electric Worcester Greenstone System 7 kW

5 Cylinder insulation
Hot water storage: Natural stone tank: 1.90 kWh/day Permitted by DBSCS 2.26 OK

6 Condensation
Primary damp proofing included: Yes OK
Secondary heating controls: Time and temperature zone control OK
Hot water controls: Cylinderstat Independent timer for DHW OK

7 Low energy lights
Percentage of fixed lights with low-energy fittings: 100% OK
Minimum: 75% OK

8 Mechanical ventilation
Not applicable

9 Summertime temperature
Overheating risk (W/m²): Not significant OK
Based On: Overheating: Very little
Windows facing North East: 4.63 m², No overhang
Windows facing South East: 1.47 m², No overhang
Windows facing South West: 12.26 m², No overhang
Windows facing North West: 0.64 m², No overhang

Building Regulation Compliance

Page 2 of 2

Air change rate: 8.00 ach
Biodiversity: None
10 Key Features: None

None

Estimate Energy Systems (Design System) version 3.0100
SAP version: SAP 2012, Reg Region: Wales (Part 1 & 2) 2014, Calculation Type: New Build (As Designed)

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Consultant	Mark Baggott	
Project Title	Plots 3 & 4	
Sheet Title	Proposed erection of detached dwelling on Plot (3) opposite Gilwen House, Waungilwen, Felindre. Carm. SA44 5YG	
Project Manager	N/A	Project ID: PLOT 3 GILWEN HOUSE
Drawn By	MB	Scale: AS SHOWN
Reviewed By		Sheet No.
Date	11/09/2016	2 of 3
CAD File Name	PLOT 3 OPP GILWEN TERRACE	PAPER A1