

ELECTRICAL INSTALLATIONS (PART P Reqs.)

Where electrical installation work is to be carried out, compliance is necessary within the Electricity at Work regulations 1989. Electrical installations should be designed and installed, suitably enclosed and separated by appropriate distances to provide mechanical and thermal protection so that they incorporate measures that afford appropriate protection for persons against the risk of electric shock, burn or fire injuries.

Electrical installations should be inspected and tested during, and at the end of installation, before they are taken into service, to verify that they are reasonably safe; that is to say that they comply with BS7671 :2001.

Provide energy efficient lighting in all living areas and kitchen in accordance with part L1 B. Ensure that new fittings to habitable rooms have fixed fittings that accept only lamps with a luminous greater than 40 lamp lumens per circuit-watt.

Provide minimum 75% energy efficient lighting in locations.

All light switches, plug sockets and electrical switches to be set between 450mm and 1200mm above finished floor level and comply with Part M of the current building regulations. All internal down lights and recessed spot lights are to be enclosed with mm. half hour fire resisting hoods.

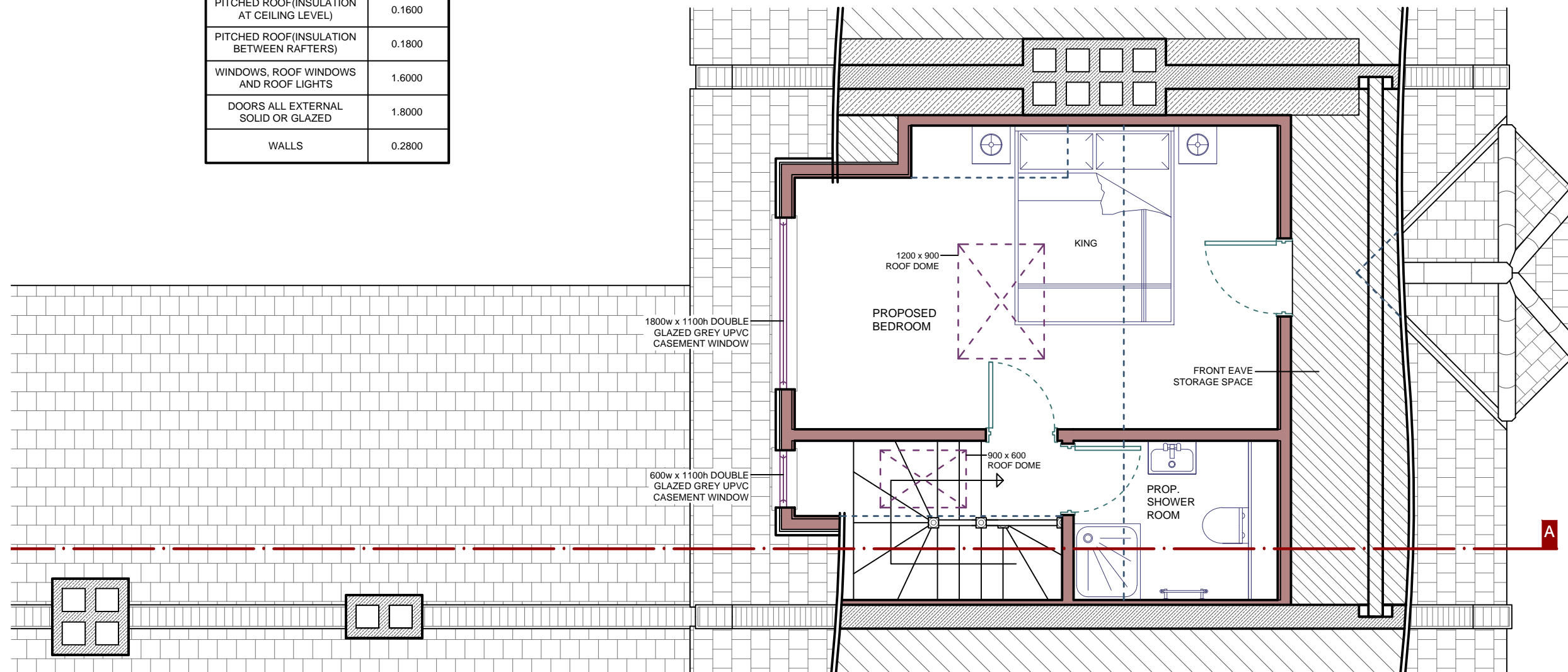
ROOF SLOPE & INTERNAL STUD WALLS:

Perimeter and purlin walls to be 50x100 vertical studs @ 400ctrs on 50x100 head & base plates; cavities filled with two layers of 50mm Celotex GA3050 insulation board. Existing roof slopes within the converted area to have one layer of 100mm Celotex or Kingspan insulation board cut between the rafters, with a second layer of 50mm Celotex/kingspan insulation board over to achieve a 'U' value of not more than 0.16W/m2K. Maintain a 50mm air gap above insulation; polythene vapour barrier to warm side of insulation with 12.5mm duplex plasterboard and skim internally.

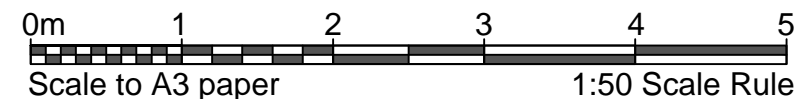
Insulation to whole of sloping area to achieve a 'U' value less than 0.28 W/m2K with battens over @ 400ctrs; 12mm plasterboard and skim internally. The 'U' values for the pitched roof where the insulation follows the ceiling should not exceed 0.16 W/m2K. The U values for the pitched roof where the insulation follows the rafters should not exceed 0.18 W/m2K.

The pitched roof area boarded at eaves to have dense quilt insulation 100mm between joists and 80mm Celotex/Kingspan over the joists. Internal partitions to have 100x50mm sw head and sole plate secured to floor and ceiling. 100x50mm studs @400mm ctrs with noggins. 100m sound deadening fibre glass quilt between timbers, encased with Wallboard Ten (10kg/m2) and set with plaster both sides. Where walls run parallel to floor joists these are to be doubled up and bolted together. Stud work to be covered with one layer of 12.5mm wallboard, with skim plaster finish to half hour standard of fire resistance. The electrical cables in the walls should not be totally encased in insulation as this affects the effectiveness by up to 50%. The cables should be increased in size to take account of the heat induced through the insulation.

INSULATION TABLE	
ELEMENT	U-VALUE
FLOORS	0.2200
PITCHED ROOF(INSULATION AT CEILING LEVEL)	0.1600
PITCHED ROOF(INSULATION BETWEEN RAFTERS)	0.1800
WINDOWS, ROOF WINDOWS AND ROOF LIGHTS	1.6000
DOORS ALL EXTERNAL SOLID OR GLAZED	1.8000
WALLS	0.2800



P 04 PROPOSED 2ND (LOFT) FLOOR PLAN
SCALE 1/50



General Notes

All works to comply with relevant Codes of Practice and British Standards.

The contractor should not scale from these drawings.

Any dimensions listed in to the drawings may differ on site and are not exact.

The sizes of the windows may need to be altered slightly to fit into to proposed and existing structure.

No.	Revision/Issue	Date

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Project
 SMALL DORMER LOFT
 EXTENSION IN A
 CONSERVATION AREA
 WITH 1NO BEDROOM &
 1NO SHOWER ROOM

Sheet
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Date
 27/01/2024

Title
 PROPOSED 2ND
 (LOFT) FLOOR
 PLAN

Scale
 1:50