

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 B57671 :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.

GLAZING & VENTILATION:

Glazing in all doors to be fitted with safety toughened or laminated glass except fire doors. All external windows and doors to have double glazed units with a 16mm air gap and low-E glass on the inner pane. All new windows to achieve a minimum 'U' value of 1.6W/m2 and 1.8W/m2k for all new doors with more than 50% glazing.

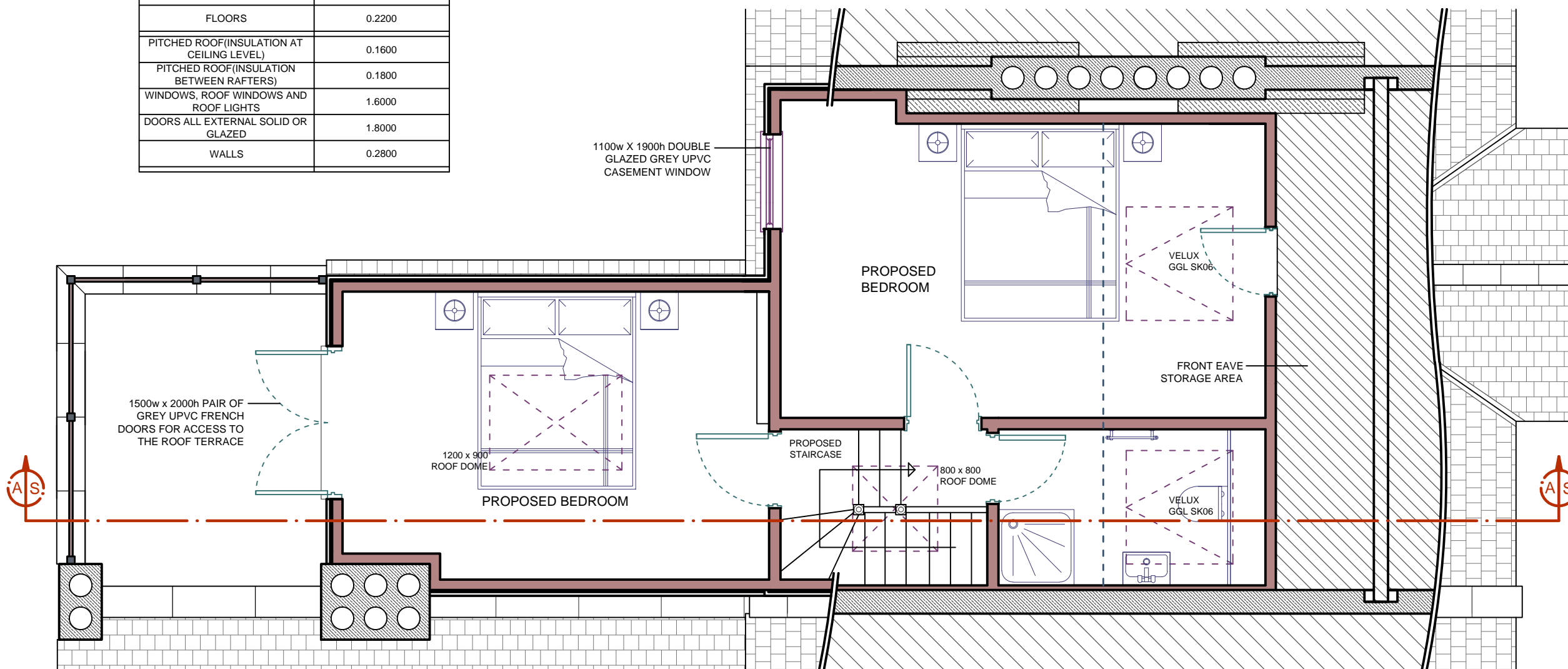
Habitable rooms to have a min opening of 1/20 of the internal floor area of the room with some part of that being at least 1750mm above finished floor level. Background ventilation is to be provided by trickle ventilators within the window to give a mm free area of 8000mm2.

Safety glass to be used when lower than 800mm above first floor level, all first floor windows must be designed with means of escape. Shower/bathroom if installed to have background ventilation of 4000mm2 and fitted with a mechanical extractor vented to outside air to achieve 15 L/S extraction. Existing roof to be provided with proprietary ventilators to achieve the equivalent continuous ventilation of 25mm (eaves) and 5mm (ridge).

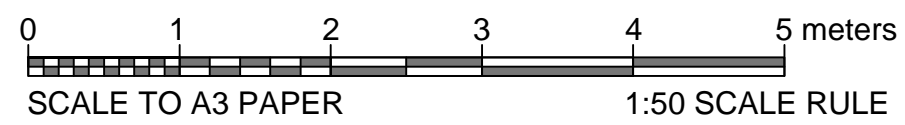
BATHROOM:

12.5mm plasterboard to be substituted with 12.5mm tapered edge Gyproc Moisture Resistant board by British Gypsum or similar. Bathrooms and en-suites to have 12mm wbp ply fitted between studs to allow for fixing of sanitary ware etc.

| INSULATION TABLE | |
|---|--------------|
| ELEMENT | U-VALUE Wm2K |
| 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 LOFT FLOOR PLAN
SCALE 1/50



General Notes

| No. | Revision/Issue | Date |
|-----|----------------|------|
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Firm Name and Address
CLASSIC LOFTS LONDON
221 Lordship Lane
East Dulwich
London
SE22 8JF

Contact information
Phone / Fax
Phone: 0800 085 8390
Fax: 020 8693 6800

Email
info@classicloftslondon.co.uk

Project Name and Address
MATTHEW DUNSTER
301 IVYDALE ROAD
LONDON
SE15 3DZ

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|---|---|
| Project RAISE RIDGE LINE & L-SHAPED DORMER LOFT EXTENSION WITH ROOF TERRACE | Sheet 08 |
| Date 31/03/2022 | Title PROPOSED 2ND FLOOR(LOFT) PLAN |
| Scale 1:50 | |