

PROPOSED ALTERATIONS FOR

Mr& MRS S. TRIGG, 53,HEOL-Y-FRENHINES

DINAS POWYS

CF64 4UE

SPECIFICATIONS

Walls

Outer skin 103 mm brickwork with 100 mm clear cavity, with 50 mm Kingspan. K 8 Insulation between. Inner skin 100 mm Thermalite Shield 2000 Block 13 mm plaster with suitable ties 450 mm max vertically 750 mm horizontally and 300 mm at jambs U VALUE 0.27 W/m2 K

(i) External wall finish two coats of waterproof cement + spar or fined down with masonry paint finish.

(ii) Internal wall finish - Sand cement render and skim

External

Lintels

Catnic to suit span.

Openings

(ii) Jambs -150 mm wide flex. DPC vertically set in blwk

(iii) Cills - 225 mm wide flexible DPC cavity trays.

Floors

100mm thick conc. on Jablite Insulation to be determined on site on 1200 gauge visqueen membrane on layers of well compacted hardcore or approved material sand blinded unless Otherwise stated on drawing.

Partitions

100 mm thick conc. Block render and skim. 75 x 50 mm timber studs with 12.5 thick plasterboard and skim insulate quilt between studs 10kg/m3 density

Ceilings

12.5mm thick plasterboard foil backed, tape joints and skim

Windows

To provide 1/20th ventilation of floor area of room being served. Units to be double-glazed with trickle vents and 8000mm2 controllable openings, have low emmissivity glazing and emergency egress 0.33sq/m

Glazing

N 1 Section 1

(i) Critical Locations

Suitable for installation in a critical location would satisfy the requirements of B.S. 6206 Class C

(a) Between finished floor level and 800mm above that leveling internal wall and partitions.

(b) between finished floor level and 1500mm above that level in a door or in a side pane close to either edge of door.

Ventilation

Kitchen - 60 l /sec mech. extraction operated intermittently

Bathroom - 15 l /sec mech. extraction operated intermittently

Background hit and miss ventilator located 1.75m from floor 5mm opening in grid Part F1 1995

Room	Rapid Ventilation	Background Ventilation	Extract fan rates
Habitable	1/20th floor area	8000mm2	
Kitchen	Opening Windows	4000mm2	
	30 l / sec adjacent		
	To hob or 60 l /sec		
Elsewhere			
Utility room	opening window	4000mm2	30 l /sec
Bathroom	opening window	4000mm2	15 l /sec

Plumbing

Sink unit, bath, shower, wash hand basin and bidet 38mm dia waste pipe. All wastes to have 75mm deep seal traps and to run separately. Anty-syphon traps to be fitted where necessary. Roding eyes to be provided on every change.

Drains

100mm diameter inside Osma flexible jointed laid to fall, where drains pass under building encase in 150mm concrete for their entire length. Where drains pass through brickwork suitably bridge over with 225mm x 100mm R.C. lintels and vertically. Mask openings. Renew realign existing drains if necessary. Foundation to be take down below invert level of any drain within one metre of building.

Inspection Chamber

225mm thick wall of second class engineering bricks on 150mm thick concrete slab. All connections to be on a soffit to soffit basis, properly benched and correctly turned to flow. Small manhole covers are to be screwed down

Electrical Wiring

To current I.E.E. Regulations. Povide electrical test Certificate for installation

Stairs

209mm rise x 245mm going. Max. Pitch angle 42 deg. Width of stairs 800mm Excluding handrail. Provide handrail 900mm off pitch line. Provide balustrade under using vertical spindles so that a 100mm dia. sphere will not pass through. Landing balustrade 900mm high same as above. The widths and lengths of every tread should be as least as great as the smallest width of the flight. Provide 2000mm headroom throughout flight. Maximum height of all structural openings to be 2100mm.

Smoke detectors to BS. 5839, 2008 interconnected between floors with battery back up

All new windows to be sited 800mm above finished floor level.

Roof insulation

300mm fibre glass 0.2W/M2K ceiling level / 0.20 at pitched roof insulation

Floor Insulation

0.22 W/M2 K min. U value for floor

Walls

To achieve 0.30 W/M2K

Insulation of pipes

Pipes should be suitably lagged to conserve heat & protect against freezing.

Internal lighting

Low energy lamps e.g. - compact fluorescent on landings and halls etc. Provide 4 no. internal outlets that only take lamps having a luminous. Efficiency greater than 40 lumens per circuit-watt

External Lights

Re: Porches to be controlled so they extinguish at daylight or have sockets, using low energy lamps, does not apply to garages.

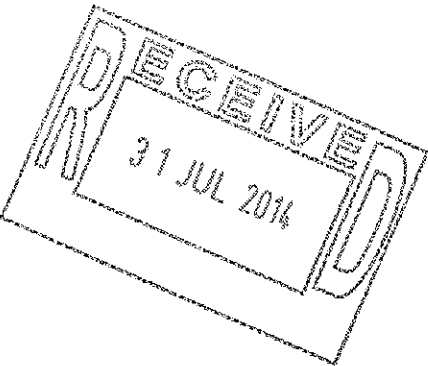
Air Tightness

Suitable measures are to be adopted to improve air tightness.

Thermal bridging

Door & window jambs, windowsill cold bridging of columns beams floor

Edges to be bridged with approved insulation materials.



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