Status DESIGN
CONSULTANTS IN ARCHITECTURE & PLANNING

Westfield Lodge
Low Lane
Holbeach
Lincs
PE12 7PW
Tel: 01406 424343
ww.status-design.co.uk
Email: info@status-design.co.uk

TECHNICAL INFORMATION

PROPOSED CONVERSION OF ATTIC TO BEDROOM & ENSUITE

AT

HAVENCOMBE

CHAPELGATE

SUTTON ST JAMES

FOR

MR & MRS HEANES

DOCUMENT REF: SD24-032/TI

TECHNICAL INFORMATION

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Existing roof space to be converted to a bedroom & en-suite in the manner shown.

Provide all alterations to roof, timber removal, timber strengthening, trimming for staircase and roof lights all to shields Wilson Structural Calculations.

Build in 3 Velux roof lights as shown all to manufacturer's instructions.

Trim opening for new 600 wide staircase as shown.

Provide supporting steel beam as shown.

Steel beam to be encased to provide ½ hour fire protection.

Provide 100mm stud partitions as shown to form bedroom, landing & ensuite.

Remove existing chimney breasts in roof space as shown & chimney.

Provide 1.2m x 1.2m window to gable wall to new bedroom 2 as shown. Support over with IG box 200 lintel or similar approved.

Connect foul drains to exiting system.

Make good to all disturbed & affected areas.

Private stairs
Stairwell formed by timber trimmers and load bearing walls (see plan). Provide timber balustrading to open side of stairs 900mm above pitch line and 1000mm high to stairwell opening to act as guarding and to be capable of resisting a horizontal force of 0.36 KN/m. Balustrading to be vertical type, not horizontal or ranch style. No parts of stairs to have any gaps greater than 99mm. Provide timber handrail to top of balustrading or independently 900mm above pitch line. Ensure minimum headroom above pitch line is 2000mm. Total rise: See plan. Maximum rise: 220mm. Minimum going: 220mm. Maximum pitch: 42^{o}. Read in conjunction with Approved Document K.

Roof Ventilation to Sloping Ceiling
At eaves provide proprietary ventilation equivalent to a 25mm continuous gap along eaves. At ridge provide proprietary ventilation equivalent to a 5mm continuous gap.

Bathroom/En-Suite Ventilation
Provide proprietary mechanical extract ventilation unit capable of extracting 15lt/sec. System to offer intermittent operation.

Heating System
Provide room thermostat or thermostatic radiator valves or similar approved to control the output from the heating system.

Smoke Detection
Provide mains operated self-contained smoke alarms to BS5839 Part 6, 2006 in accordance with Approved Document B1.

Habitable Room Trickle Ventilation
Provide proprietary trickle ventilators to head of windows giving a total opening area of not less than $8000mm^2$

Roof Insulation to Sloping Ceiling
To ceiling slope provide 90mm Celotex GA4000 between rafters and 60mm Celotex GA4000 below rafters. Ensure a gap of 50mm between roof underfelt and insulation at all times.

Foul Water Drainage
Underground drainage to be proprietary 110mm diameter p.v.c. pipes flexible jointed to fall 1:70 bedded in 100mm pea gravel. Under building drains to be encased in 150mm pea gravel with lintel over pipes at wall abutments. Where drain passes through wall, provide suitable protection to prevent gas ingress to building. 110mm diameter soil and vent pipe to extend 900mm above window head and to terminate in balloon finial. Soil and vent pipe to be fitted with access plate at base. Provide suitably sized wastes from all appliances (in accordance with Approved Document H) complete with minimum 75mm deep sealed traps and rodding eye access points at every direction change. All above ground drainage to BS5582 and all underground drainage to BS8301. Provide seal plates both sides of pipe entry to avoid vermin entry.

First Floor Walling
Provide 50 x 75mm timber vertical studs at 400mm c/c to be constructed of 50 x 75mm timber head and sole plates. Provide 12.5mm Gyproc plasterboard of 10kg/m^3 density and skim finish to both sides. Provide to airspace proprietary acoustic insulation. Timber stud partitions running parallel to joist direction to be built off 2 no. floor joists fixed together. Provide 1 no. joist either end of stud partition joist beam to fix flooring.

First Floor Construction
19mm flooring grade moisture resistant decking on timber joists as stated on plan. To external walls joists to be supported on joist hangers (not built into wall). Provide 30mm x 5mm mild steel restraint straps to joists running parallel with wall securely fixed to walls and to span minimum 3 no. joists at maximum 1200mm c/c. At strap positions provide pack and noggin to joists. Solid strutting to be installed mid-span where span of joists between 2.5m and 4.5m. For spans in excess of 4.5m position of struts at 1/3 rd span. Double up floor joists locally under bath feet and hot water cylinder where applicable. All doubled up joists to be bolted together at 600mm centres.

Ceilings
To all insulated roof ceilings provide 12.5mm Gyproc Duplex plasterboard of 10kg/m^3 or similar and either 5mm skim or Artex finish. To remaining ceilings provide 12.5mm Gyproc plasterboard or similar with finishes as above.

Lintels
All coded lintels as stated in Schedule or marked on plan to be by 1.G. To be installed in strict accordance with manufacturers instructions. Form d.p.c. cavity tray above all lintels. To all exposed lintels i.e. not sheltered from overhanging eaves, etc. to have proprietary weepholes to joints of brickwork at approximately 450mm c/c. To be confirmed on site with Building Control Surveyor

Opening at eaves level to be L1/E lintels by I.G. or similar approved.

Glazing
All windows and doors to be double-glazed with Pilkington 'K' glass or similar approved, to achieve either WER Band C or a ‘U’ value of 1.6W/m²K.

Electrical Work
All electrical work required to meet the requirements of Part P (electrical safety) must be designed, installed, inspected and tested by a person competent to do so. Prior to completion of the works the council must be satisfied that either:-

a) an electrical installation certificate issued under a competent person's scheme has been issued

or

b) an appropriate electrical installation certificate has been issued for the work, and that it has been signed by a person competent to do so.

Purge ventilation to windows
For a hinged or pivot window that opens 30° or more the height and width should be at least 1/20th of the floor area of the room.
For a hinged or pivot window that opens less than 30° the height and width should be at least 1/10th of the floor area.

Background Ventilation
Background ventilation is to be provided by trickle ventilators to the tops of windows. Use trickle vents offering 8000mm^2 per window head.

Mechanical Ventilation
Mechanical ventilation systems are to be commissioned in accordance with Regulation 44 (where they can be tested and adjusted to provide adequate ventilation) and a copy of the commissioning notice is to be given to the local authority not more than 30 days after completion of the works.

All external lintels to be insulated type.

All external joinery to be fully draught proofed.

First floor habitable rooms shall have means of escape windows with openings of at least 450mm wide x 450mm high and a minimum area of 0.33m^2. Escape windows to be within 1.1m of floor.

Smoke detectors to be to BS5839/6:2004, Grade D, Category LD3.