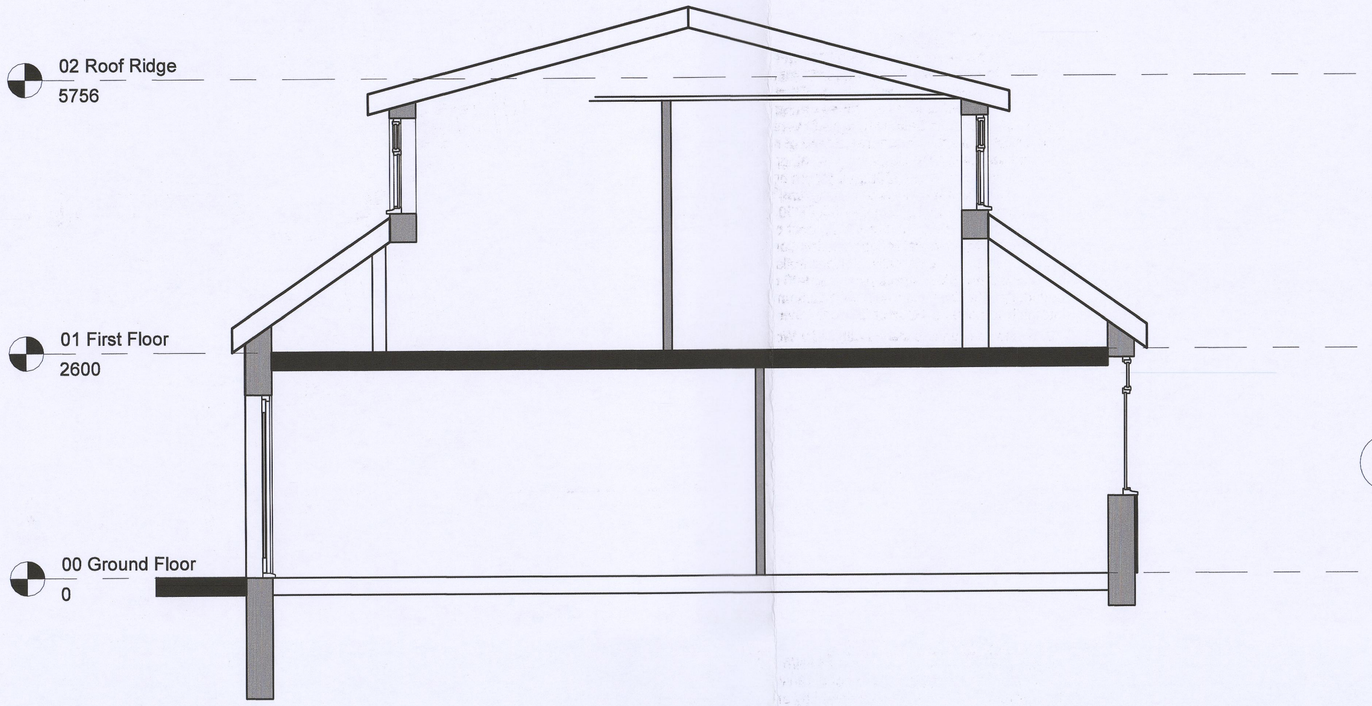
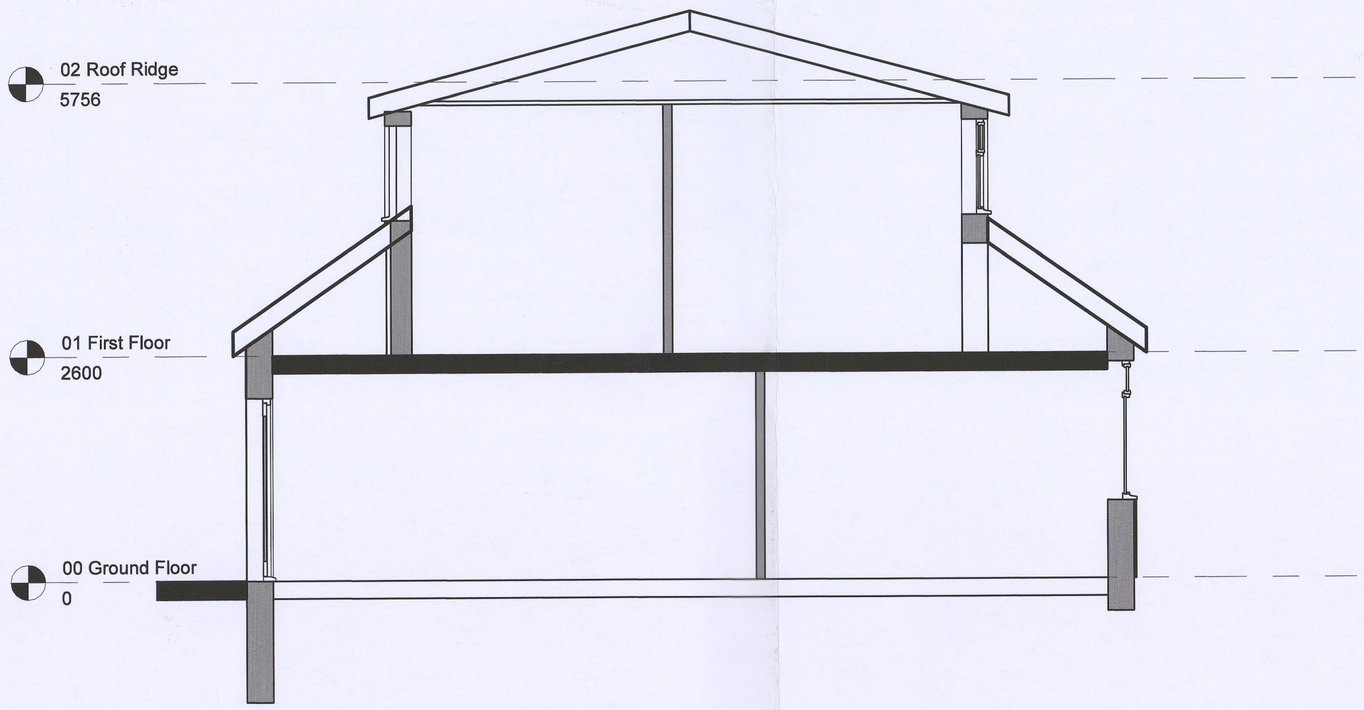
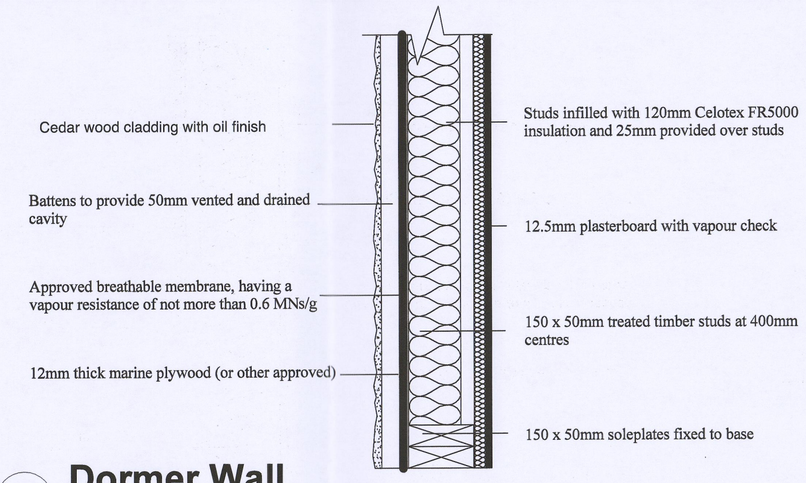


1 Existing Section
1 : 50



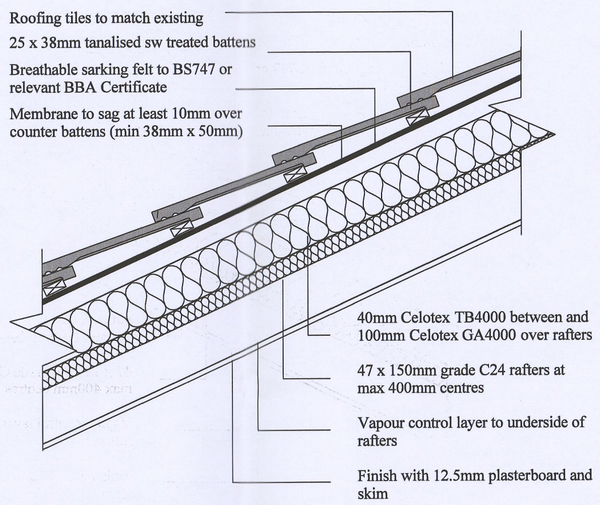
2 Proposed Section
1 : 50

TIMBER FRAMED WALL



3 Dormer Wall
1 : 10

WARM PITCHED ROOF



Note: If pitch is less than 15° then additional waterproofing and drainage measure would be required.

4 Dormer Roof
1 : 10

DORMER CONSTRUCTION
To achieve minimum U Value of 0.21W/m²K
Structure to engineer's details and calculations. Render finish (to comply with BS EN 13914-1) - applied in 3 coats at least 20mm thick to stainless steel render lath. Render should be finished onto an approved render stop. Render lath fixed to vertical 25 x 50mm preservative treated battens to provide vented and drained cavity, fixed to breathable membrane (having a vapour resistance of not more than 0.6 MNs/g) and 12mm thick W.B.P external quality plywood sheathing (or other approved). Ply fixed to treated timber frame studs constructed using 150mm x 50mm head and sole plates and vertical studs (with noggins) at 400mm centres or to structural engineer's details and calculations. Insulation between studs to be 120mm Celotex FR5000 and 25mm over studs. Finish with 12.5mm plasterboard over vcl and 3mm skim coat of finishing plaster.
All junctions to have water tight construction, seal all perimeter joints with tape internally and with silicon sealant externally. Dormer walls built off existing masonry walls to have galvanised mild steel straps placed at 900 centres. Dormer cheeks within 1m of the boundary to be lined externally with 12.5mm Supalux and 12.5mm Gyproc FireLine board internally to achieve 1/2 hour fire resistance from both sides.
External to be counter battened with cedar Wood cladding with a oil finish to front and rear of the existing dormer and the extension.

DORMER WARM PITCHED ROOF
Pitch 22-45° (imposed load max 0.75 kN/m² - dead load max 0.75 kN/m²)
To achieve min U-value required of 0.15 W/m²K
Timber roof structures to be designed by an Engineer in accordance with NHBC Technical Requirement R5 Structural Design. Calculations to be based on BS EN 1995-1-1. Roofing tiles to match existing fixed to tile battens secured over breathable sarking felt to relevant BBA Certificate allowing the breather felt to sag at least 10mm over preservative treated counter battens (min 38mm x 50mm). Provide 100mm Celotex XR4000 insulation boards under the counter battens and 40mm Celotex TB4000 between 47 x 150mm timber rafters strength class C24 at 400 c/c – to give a max 3.47m span. A vapour control layer should be provided to the underside of the rafters. Finish with 12.5 plasterboard and skim.
Restraint strapping - Ceiling joists tied to rafters (if raised collar roof consult structural engineer). 100mm x 50mm wall plate strapped down to walls. Ceiling joists and rafters to be strapped to walls and gable walls, straps built into cavity, across at least 3 timbers with noggins. All straps to be 1000 x 30 x 5mm galvanized straps or other approved to BSEN 845-1 at 2m centres.

Rev	Description	Date
P01	FIRST ISSUE FOR PLANNING / COMMENT	27/09/20

210329
20 SEP 2021
EIVED

CODE | SUITABILITY DESCRIPTION

STATUS | PURPOSE OF ISSUE

MERTHYR TYDFIL
BOROUGH
COUNCIL
COPY

PROJECT
11 SHIRLEY DRIVE,
HEOLGERRIG,
MERTHYR TYDFIL

TITLE
SECTIONS &
DETAILS

CLIENT
Ms. HUGHES

DRAWN BY	CHECKED BY	DATE
ME	AH	27/09/20

SCALE (@ A1)	PROJECT NUMBER
As indicated	163-20

DRAWING NUMBER	REV
004	P01

27/09/2020 19:50:27