

All walls constructed using stainless steel vertical twist type retaining wall ties built in at 750mm ctrs horizontally, 450mm vertically and 225mm ctrs at reveals and corners in staggered rows. Wall ties to be suitable for cavity width and in accordance with BS 5628-6.1: 1996 and BS EN 845-1: 2003

mum 25	must also be taken to avoid danger to health and safety caused by contaminants and ground gases e.g. landfill gases, radon, vapours etc. on or in the ground covered, or to be covered by the building.	between rafters and 62.5mm Celotex PL4000 insulated plasterboard to the underside of all ceilings.
		Restraint strapping - Ceiling joists tied to rafters (if raised collar roof
to iless il	EXISTING STRUCTORE Existing structure including foundations, beams, walls and lintels carrying new and altered loads are to be exposed and checked for adequacy prior to commencement of work and as required by the Building Control Officer.	down to walls. Ceiling joists and rafters to be strapped to walls and noggins. All straps to be 1000 x 30 x 5mm galvanized straps or other
		LEAD WORK AND FLASHINGS
	LINTELS	All lead flashings, any valleys or soakers to be Code 5 lead and laid a
	- For uniformly distributed loads and standard 2 storey domestic loadings only Lintel widths are to be equal to wall thickness. All lintels over 750mm sized internal door openings to be 65mm deep pre-stressed concrete plank lintels. 150mm deep lintels are to be used for 900mm sized internal door openings. Lintels to have a minimum bearing of	to all jambs and below window openings with welded upstands. Join tiles, etc. All work to be undertaken in accordance with the Lead De
	150mm on each end. Any existing lintels carrying additional loads are to be exposed for inspection at commencement of work on site. All pre-stressed concrete lintels to be designed and manufactured in accordance with BS 8110, with a concrete strength of 50 or 40 N/mm ² and incorporating steel strength of 50 or 40 N/mm ² and incorporating steel strength of 58,600 to support loadings accessed to RS 5977 Part 1	HEARTHS AND FIREPLACES FOR WOOD BURNING STOVE (with recess Fireplace walls to consist of non-combustible material of minimum 2 lised with suits blacks and building
	For other structural openings provide proprietary insulated steel lintels suitable for spans and loadings in compliance with Approved	lined with suitable fire bricks. Hearth to be of pop-combustible material minimum 125mm thickne
	Document A and lintel manufactures standard tables. Stop ends, DPC trays and weep holes to be provided above all externally located lintels.	Hearth to have projections extending outwards (to the sides) at leas 500mm from the front of the jambs.
		Hearth also to extend 150mm outwards (to the sides) from the side
alue or	An opening or recess greater than $0.1m^2$ shall be at least 550mm from the supported wall (measured internally).	front of the appliance. Stoves to be 50mm minimum away from wal Boundary of hearth to be visually apparent.
	TRENCH FOUNDATION Provide 750mm x 600mm trench fill foundations, concrete mix to conform to BS EN 206-1 and BS 8500-2. All foundations to be a minimum of 1000mm below ground level, exact depth to be agreed on site with Building Control Officer to suit site conditions. All constructed in accordance with 2004 Building Regulations A1/2 and BS 8004:1986 Code of Practice for Foundations. Ensure foundations are constructed below invert level of any adjacent drains. Base of foundations supporting internal walls to be min 600mm below ground	WOOD BURNING STOVE Ensure the wood burning stove is installed by an APHC, HETAS, NAP suitable flue, hearth and CO / Carbon Monoxide alarm and provide the depletion of oxygen in the room. There must not be an extracto operating and maintenance instructions must be provided and fixed
	level. Sulphate resistant cement to be used if required. Please note that should any adverse soil conditions or difference in soil type be found or any major tree roots in excavations, the Building Control Officer is to be contacted and the advice of a structural engineer	completed and a copy given to Building Control.
	should be sought.	THE INSTALLATION CHECKLIST, TESTING AND NOTICE PLATE
	SOLID FLOOR INSULATION UNDER SLAB To meet min U value required of 0.22 W/m²K	On completion of the works ensure compliance with the following: - Checklist from Approved Document J Appendix A to be completed - Flue should be smoke tested and tested for spillage.
	Solid ground floor to consist of 150mm consolidated well-rammed hardcore. Blinded with 25mm sand blinding. Provide a 1200 gauge polythene DPM, DPM to be lapped in with DPC in walls. Floor to be insulated over DPM with 75mm thick Celotex. 25mm insulation to continue around floor perimeters to avoid thermal bridging. A VCL should be laid over the insulation boards and twinsed up 100mm at room perimeters habited the skirting all instructs to be lapped 150mm and coaled around 150mm ST2 or Coana	- A notice plate to be completed and permanently fixed within the b Approved Document J.
	ground bearing slab concrete mix to conform to BS 8500-2 over VCL.	SAFETY GLAZING
150mm	Where drain runs pass under new floor, provide A142 mesh 1.0m wide within bottom of slab min 50mm concrete cover over length of drain.	All glazing in critical locations to be toughened or laminated safety a (Part N in Wales) of the current Building Regulations, i.e. within 150
	Where existing suspended timber floor air bricks are covered by new extension, ensure cross-ventilation is maintained by connecting to 100mm dia UPVC pipes to terminate at new 65mm x 215mm air bricks built into new cavity wall with 100mm concrete cover laid under the extension. Ducts to be sleeved through cavity with cavity tray over.	door opening and within 800mm above floor level in windows.
		NEW AND REPLACEMENT WINDOWS & DOORS
DASIC		New and replacement windows to be double glazed with 16mm arg
	All new walls to have Class A blockwork below ground level or alternatively semi engineering brickwork in 1:4 masonry cement or equal approved specification. Cavities below ground level to be filled with lean mix concrete min 225mm below damp proof course. Or provide lean mix backfill at base of cavity wall (150mm below damp course) laid to fall to weepholes.	or better and to achieve U-value of 1.6 W/m ² K. The door and windo the area of any existing openings covered by the extension.New and areas to be double glazed with 16mm argon gap and soft low-E glas
	PARTIAL FILL CAVITY WALL	14179 of BS EN ISO 12543-1:2011 and Part K (Part N In Wales) of the
	To achieve minimum U Value of 0.28W/m ² K	N 1.100
	Provide 100mm facing stone to match existing construction. 50mm clear residual cavity, 50mm Celotex CW4000 insulation fixed to 100mm brick internal finish to clients specification. Ensure non combustable material used. Walls to be built with 1:1:6 cement mortar.	0 1 2 3 4 5 6
	DPC	
	Provide horizontal strip polymer (hyload) damp proof course to both internal and external skins minimum 150mm above external ground level. New DPC to be made continuous with existing DPC's and with floor DPM. Vertical DPC to be installed at all reveals where cavity is closed	
		M 1:20
	WALL TIES	0 0.2 0.4 0.6 0.8 1 1

Slate roof to match existing

installed to manufactures

Raised patio with ramped

access from new door down

instruction for achieved

pitch, min 25°

to garden

THERMAL BRIDGING

MATERIALS AND WORKMANSHIP

BASIC RADON PROTECTION

SITE PREPARATION

unwanted air leakage through the new building fabric.

Ground to be prepared for new works by removing all unsuitable material, vegetable matter and tree or shrub roots to a suitable depth to prevent future growth. Seal up, cap off, disconnect and remove existing redundant services as necessary. Reasonable precautions

CAVITIES

EXISTING TO NEW WALL

UNVENTED PITCHED ROOF

To achieve U-value 0.18 W/m²K

EAST

 Existing door, window and stone surrounds to be

 Provide stepped cavity trays and 150mm min lead flashing upstand

Stone headers and sills to match

- 450 x 1200 white uPVC windows

to achieve 1.6 u-value with catnic

at roof abutment

existing

lintel above

Coursed stone to match existing

3640

Care shall be taken to limit the occurrence of thermal bridging in the insulation layers caused by gaps within the thermal element, (i.e.

All works are to be carried out in a workmanlike manner. All materials and workmanship must comply with Regulation 7 of the Building

Regulations, all relevant British Standards, European Standards, Agreement Certificates, Product Certification of Schemes (Kite Marks)

Provide a 1200g (300 um) radon membrane under floor slab lapped 300mm double welted and taped with gas proof tape at joints and

etc. Products conforming to a European technical standard or harmonised European product should have a CE marking.

service entry points. Carry membrane over cavity and provide suitable cavity tray and weep holes.

around windows and door openings). Reasonable provision shall also be made to ensure the extension is constructed to minimise

removed

construction with suitable proprietary stainless steel profiles.

cavity weep holes (min 2) at max 900mm centres.

Slate roof to match existing

installed to manufactures

instruction for achieved

pitch, min 25°

between rafters and 62.5mm Celotex PL4000 insulated plasterboard with VCL under rafters. Provide 5mm skim coat of finishing plaster oists tied to rafters (if raised collar roof consult structural engineer). 100mm x 50mm wall plate strapped

and rafters to be strapped to walls and gable walls, straps built into cavity, across at least 3 timbers with 0 x 30 x 5mm galvanized straps or other approved to BSEN 845-1 at 2m centres.

s or soakers to be Code 5 lead and laid according to Lead Development Association. Flashings to be provided bw openings with welded upstands. Joints to be lapped min 150mm and lead to be dressed 200mm under ertaken in accordance with the Lead Development Association recommendations.

OR WOOD BURNING STOVE (with recess) non-combustible material of minimum 200mm thickness to the side, 100mm thick in the back wall recess,

ible material minimum 125mm thickness with no combustible material within 250mm. extending outwards (to the sides) at least 150mm from the sides of the jambs and extending forwards at least

n outwards (to the sides) from the sides of the appliance and to extend forwards at least 300mm from the



PLANS ARE TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERS DETAILS

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK ALL MEASUREMENTS ON SITE PRIOR TO WORK COMMENCING

IF ON SITE CHANGES ARE TO BE MADE CONTACT PLAN DRAWER

WOOD BURNING STOVE IS TO BE INSTALLED TO MANUFACTURES SPECIFICATION AND PERMANANT VENTIALTION PROVIDED WHERE NECESSARY

Building Regulations Elevations & Section

Single Storey Rear Extension

3 Hillside Chaple Milton Chapel-en-le-Frith High Peak SK23 0QQ

Scale - 1:100 @ A1 unless stated Drawn By - EH Date - 02.2018

Rev Description Date

DRAWING REF: 3HS/BR/01



Provide cavity trays over openings. All cavities to be closed at eaves and around openings using Thermabate or similar non combustible insulated cavity closers. Provide vertical DPCs around openings and abutments. All cavity trays must have 150mm upstands and suitable

Cavities in new wall to be made continuous with existing where possible to ensure continuous weather break. If a continuous cavity cannot be achieved, where new walls abuts the existing walls provide a movement joint with vertical DPC. All tied into existing

Pitch 22-45° (imposed load max 0.75 kN/m² - dead load max 0.75 kN/m²)

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 on 25 x 38mm tanalised sw treated battens on breathable sarking felt to relevant BBA Certificate. Supported on 47 x 100mm grade C16 rafters at max 400mm centres max span 1.77m. Rafters supported on 100 x 50mm treated sw wall plates. Allow min 20mm air space to allow for drape of breathable felt. Insulation to be 80mm Celotex GA4000

> ve is installed by an APHC, HETAS, NAPIT or NICEIC accredited specialist in compliance with Part J. Supply a / Carbon Monoxide alarm and provide ventilation to ensure the necessary combustion air and to prevent e room. There must not be an extractor fan fitted in the same room as the stove. A notice plate giving nstructions must be provided and fixed in an obvious place and the Part J installation checklist is to be

ocument J Appendix A to be completed and given to owner and Building Control body.

eted and permanently fixed within the building where hearths and flues are fitted in compliance with

s to be toughened or laminated safety glass to BS 6206, BS EN 14179 or BS EN ISO 12543-1:2011 and Part K ent Building Regulations, i.e. within 1500mm above floor level in doors and side panels within 300mm of

bws to be double glazed with 16mm argon gap and soft coat low-E glass. Window Energy Rating to be Band C alue of 1.6 W/m²K. The door and window openings should be limited to 25% of the extension floor area plus nings covered by the extension. New and replacement doors to achieve a U-Value of 1.80W/m²K. Glazed ith 16mm argon gap and soft low-E glass. Glass to be toughened or laminated safety glass to BS 6206, BS EN 2011 and Part K (Part N in Wales) of the current Building Regulations.

