

BUILDING REGULATIONS NOTES

GENERAL NOTES FOR EXTENSIONS:

CDM REGULATIONS 2015

The client must abide by the Construction Design and Management Regulations 2015. The Client must appoint a Contractor, if more than one Contractor is to be involved, the Client will need to appoint (in writing) a Principal Designer (to plan, manage and coordinate the planning and design work), and a Principal Contractor (to plan, manage and coordinate the construction and ensure there are arrangements in place for managing and organising the project).

PARTY WALL ACT

The owner, should they need to do so under the requirements of the Party Wall Act 1996, has a duty to serve a Party Structure Notice on any adjoining owner if building work on, to or near an existing Party Wall involves any of the following:

- Support of beam
 - Insertion of DPC through wall
 - Raising a wall or cutting off projections
 - Demolition and rebuilding
 - Underpinning
 - Insertion of lead flashings
 - Excavations within 3 metres of an existing structure where the new foundations will go deeper than adjoining foundations, or within 6 metres of an existing structure where the new foundations are within a 45 degree line of the adjoining foundations.
- A Party Wall Agreement is to be in place prior to start of works on site.

THERMAL BRIDGING

Care shall be taken to limit the occurrence of thermal bridging in the insulation layers caused by gaps within the thermal element, (i.e. around windows and door openings). Reasonable provision shall also be made to ensure the extension is constructed to minimise unwanted air leakage through the new building fabric.

MATERIALS AND WORKMANSHIP

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

SITE PREPARATION

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 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.

STRUCTURE

EXISTING STRUCTURE

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.

LINTELS

- 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 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 EN 1992-1-1, with a concrete strength of 50 or 40 N/mm² and incorporating steel strands to BS 5896 to support loadings assessed to BS 5977 Part 1. For other structural openings provide proprietary insulated steel lintels suitable for spans and loadings in compliance with Approved Document A and lintel manufacturer's standard tables. Stop ends, DPC trays and weep holes to be provided above all externally located lintels. Independent lintels to have an insulated cavity closure between the inner and outer lintel.

14179 or BS EN ISO 12543-1 and Part K (Part N in Wales) of the current Building Regulations. Insulated plasterboard to be used in reveals to abut jambs and to be considered within reveal soffits. Fully insulated and continuous cavity closers to be used around reveals. Windows and door frames to be taped to surrounding openings using air sealing tape.

WINDOWS, DOORS AND ROOF LIGHT

NEW AND REPLACEMENT WINDOWS

New and replacement windows to be double glazed with 16-20mm argon gap and soft coat low-E glass. Window Energy Rating to be Band B or better and to achieve U-value of 1.4 W/m²K. The door and window openings should be limited to 25% of the extension floor area plus the area of any existing openings covered by the extension. Insulated plasterboard to be used in reveals to abut jambs and to be considered within reveal soffits. Fully insulated and continuous cavity closers to be used around reveals. Windows and door frames to be taped to surrounding openings using air sealing tape. Windows to be fitted with trickle vents to provide adequate background ventilation in accordance with Approved Document F.

NEW AND REPLACEMENT DOORS

New and replacement doors to achieve a U-Value of 1.4W/m²K. Glazed areas to be double glazed with 16-20mm argon gap and soft low-E glass. Glass to be toughened or laminated safety glass to BS 6206, BS EN

INTERNAL WORKS

ELECTRICAL

All electrical work required to meet the requirements of Part P (electrical safety) must be designed, installed, inspected and tested by a competent person registered under a competent person self certification scheme such as BRE certification Ltd, BSI, NICEIC Certification Services or Zurich Ltd. An appropriate BS7671 Electrical Installation Certificate is to be issued for the work by a person competent to do so. A copy of a certificate will be given to Building Control on completion.

INTERNAL LIGHTING

Install low energy light fittings that only take lamps having a luminous efficiency better than 80 lumens per circuit watt. All fixed to have lighting capacity (lm) 185 x total floor area, to comply with Part L of the current Building Regulations and the Domestic Building Services Compliance Guide.

SOLID EXTERNAL WALL

To achieve min U-value 0.18 W/m²K Wall constructed using brickwork to match existing at least 328mm thick. Insulate wall on the inside using 100mm Celotex GA4000 insulation. Finish with 12.5mm plasterboard over vcl and 3mm skim coat of finishing plaster. Batten out to provide a nominal 25mm cavity between the masonry and insulation (50mm cavity to be provided if required by building control). Wall into be provided with a Vandex slurry internally if required by BCO.

SMOKE DETECTION

Where the new room does not have an external door smoke detection will be required. Provide a linked smoke alarm detection system to BS EN 14604 and BS 5839-6:2019 to at least a Grade D category LD2 standard. System to be mains powered with battery back up. Smoke detectors to be provided to:

- Each hallway and landing
- Every principal living room (as required by the building control officer)

An interlinked heat detector to be provided in the kitchen. In hallways exceeding 7.5m in length, no point within the hallway should exceed 7.5m from the nearest detector and no bedroom door should be further than 3m from the nearest smoke alarm. If ceiling mounted detectors to be 300mm from the walls and light fittings.

ESCAPE WINDOWS

Provide emergency egress windows to any newly created first floor habitable rooms and ground floor inner rooms. The window should have an unobstructed clear openable area that is at least 0.33m² and have no clear dimension less than 450mm high or 450mm wide. The bottom of the openable area should be not more than 1100mm above the floor. The window should enable the person to reach a place free from danger from fire.

FIRE DOORS

If the dwelling has a protected route for means of escape or is a 3 storey house new doors on to the hallway are to be half hour fire doors.

ALL DIMENSIONS AND INFORMATION ON THE DOCUMENT MUST THEREFORE BE CHECKED ON SITE FOR ACCURACY AND APPROVED WITH THE BUILDING INSPECTOR PRIOR TO THE COMMENCEMENT OF WORKS.

CONTRACTORS MUST VERIFY ALL DIMENSIONS, LEVELS AND BOUNDARIES ON SITE BEFORE COMMENCING ANY WORKS.

ALL EXISTING LINTELS, BEAMS, FOUNDATIONS ETC. TAKING ANY NEW LOADS ARE TO BE EXPOSED AND RE-ASSESSED FOR THE NEW LOAD AND TO BE RE-INFORCED OR REPLACED AS NECESSARY AT THE DISCRETION OF THE LOCAL AUTHORITY.

ALL STRUCTURAL INFORMATION SHOULD BE CHECKED AGAINST DETAILED STRUCTURAL ENGINEERS INFORMATION AND CALCULATION SHEETS.

REFER STRUCTURAL ENGINEER'S DRAWINGS FOR STRUCTURAL DETAILS

CONTRACTOR TO CHECK EXISTING HEIGHTS PRIOR TO CONSTRUCTION

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Client

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