

DETAIL 01 MASONRY CAVITY WALL / SUSPENDED CONCRETE GROUND FLOOR JUNCTION - RENDERED BLOCKWORK - STANDARD GROUND LEVEL

MC - GF & DPC #1
Construction accords with LABC Construction Detail Reg : E5MCF10
 $\Psi_{\text{ext}} = 0.065 \text{ W/m}^2\text{K}$

Nominal floor U value = 0.1 W/m²K
Nominal wall U value in the range = 0.19-0.28 W/m²K

External Cavity walls (general provisions)
All walls below ground to be in 100mm dense concrete blockwork to BS 6073 1981 Class 2 sulphate resistance - minimum 7N/m² or semi-engineering brickwork set in 1:3 cement / sand mortar. Cavity to be filled to within 225mm of top of slab level with lean mix concrete.

Suspended Ground Floor (General Provisions)
The floor beams are to be bedded on a DPC. A minimum void of 225mm must be maintained below the lower surface of the beams or more if specified on the drawings. Edge blocks as supplied by the manufacturer shall be used where required and all blocks should be adequately grouted.

Foundation
New foundations are to be in accordance with the Structural Engineers design and details.

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE OTHER BUILDING REGULATIONS DRAWINGS

DETAIL 02 MASONRY CAVITY WALL / SUSPENDED CONCRETE GROUND FLOOR JUNCTION - RENDERED BLOCKWORK - LEVEL ACCESS GROUND LEVEL

MC - GF & DPC #2
Construction accords with LABC Construction Detail Reg : E5MCF10
 $\Psi_{\text{ext}} = 0.065 \text{ W/m}^2\text{K}$

Nominal floor U value = 0.1 W/m²K
Nominal wall U value in the range = 0.19-0.28 W/m²K

External Cavity walls (general provisions)
All walls below ground to be in 100mm dense concrete blockwork to BS 6073 1981 Class 2 sulphate resistance - minimum 7N/m² or semi-engineering brickwork set in 1:3 cement / sand mortar. Cavity to be filled to within 225mm of ground level with lean mix concrete.

Suspended Ground Floor (General Provisions)
The floor beams are to be bedded on a DPC. A minimum void of 225mm must be maintained below the lower surface of the beams or more if specified on the drawings. Edge blocks as supplied by the manufacturer shall be used where required and all blocks should be adequately grouted.

Foundation
New foundations are to be in accordance with the Structural Engineers design and details.

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DETAIL 03 MASONRY CAVITY WALL / DOOR CILL, HEAD AND JAMB JUNCTIONS - RENDERED BLOCKWORK - LEVEL THRESHOLD - TIMBER ENTRANCE DOOR

MC - DOOR #2
A - HEAD
Construction accords with LABC Construction Detail Reg : E2MCF11
 $\Psi_{\text{ext}} = 0.05 \text{ W/m}^2\text{K}$

Nominal wall U value in the range = 0.19-0.28 W/m²K

C - JAMB

B - CILL
Construction accords with LABC Construction Detail Reg : E4MCF11
 $\Psi_{\text{ext}} = 0.016 \text{ W/m}^2\text{K}$

C - JAMB
Construction accords with LABC Construction Detail Reg : E4MCF11
 $\Psi_{\text{ext}} = 0.016 \text{ W/m}^2\text{K}$

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DETAIL 04 MASONRY CAVITY WALL / WINDOW CILL, HEAD AND JAMB JUNCTIONS - RENDERED BLOCKWORK - TIMBER CASEMENT WINDOWS

MC - WIN #2
A - HEAD
Construction accords with LABC Construction Detail Reg : E2MCF11
 $\Psi_{\text{ext}} = 0.05 \text{ W/m}^2\text{K}$

Nominal wall U value in the range = 0.19-0.28 W/m²K

B - CILL
Construction accords with LABC Construction Detail Reg : E4MCF11
 $\Psi_{\text{ext}} = 0.016 \text{ W/m}^2\text{K}$

C - JAMB
Construction accords with LABC Construction Detail Reg : E4MCF11
 $\Psi_{\text{ext}} = 0.016 \text{ W/m}^2\text{K}$

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DETAIL 05 MASONRY CAVITY WALL / INTERMEDIATE FLOOR JUNCTION - FACE BRICKWORK - METAL WEBB JOISTS

MC - INTFLR & WALL #1
Construction accords with LABC Construction Detail Reg : E6MCF11
 $\Psi_{\text{ext}} = 0.000 \text{ W/m}^2\text{K}$

Nominal Wall U value in the range = 0.19-0.28 W/m²K

JOISTS PERPENDICULAR TO WALL
Use coursing blocks to the same density as the leaf, as required to support joist hangers.

JOISTS PARALLEL TO WALL
Use coursing blocks to the same density as the leaf, as required to accommodate restraint straps.

First Floor (Metal Web Engineered Joists - 30 mins FR)
Install open web joists spaced and braced as shown specialist suppliers design details. Joists to be supported from hangers on external walls and party walls and built into internal walls as required unless otherwise noted on the plans.

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DETAIL 06 MASONRY CAVITY WALL / ROOF JUNCTION - EAVES FACE BRICKWORK - SLOPING CEILING CUT ROOF - PLAIN TILES

MC - P ROOF - EAVES #6
Roof Specification RP-BU-5a
Construction accords with LABC Construction Detail Reg : E11MCF11
 $\Psi_{\text{ext}} = 0.007 \text{ W/m}^2\text{K}$

Nominal Roof U value = 0.12 W/m²K
Nominal Wall U value in the range = 0.17-0.28 W/m²K

Pitched Roof - RP-BU-5a
The pitched roof is to consist of tiles to suit pitch and in accordance with the Planning Permission, on tanalised 50 x 25 sw. battens at the appropriate centres, on Tyvek Supro vapour permeable membrane, lapped sealed with Tyvek Acrylic tape, on min 150x50 C16 rafters at 400mm c/c (in accordance with the structural engineers details). Rafters to be fixed to 100 x 50 tanalised wall plate using galvanized mild steel truss clips.

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DETAIL 07 PITCHED ROOF CONSTRUCTION - ATTIC TRUSS - VENTILATED RIDGE PLAIN TILES

RP - RIDGE #21
Nominal Roof U value = 0.1 W/m²K - flat ceilings
= 0.1 W/m²K - sloping ceilings

Pitched Roof
Roof to be constructed strictly in accordance with Accredited Details - E11MCF12 and E13MCF22.

Restraint Strapping
Restraint strapping as detailed by Engineer and/or specialist, with Ceiling ties and gable rafters to be strapped to walls with Expanet M305 150x1350mm galvanized steel lateral restraint straps at 1200mm c/c. Attach to minimum three ceiling joists/rafters and provide noggins between. Wall plates to be strapped to walls with Expanet M305 150 x 1050mm galvanized steel lateral restraint straps at 1200mm c/c. Straps to be plugged and screwed to minimum 4no. blocks with minimum 6 no. screws.

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CIAT GROUP MEMBERSHIP SCHEME MEMBER

Metres 1:50
Metres 1:100

REVISIONS

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LABC Construction detail E11MCF11 wall/eaves junction

Tyvek-Supro roof membrane

Kingspan TP10 PIR roof insulation board

Dupont Aiguard A2 FR AVCL

NEW DWELLING
SITE ADJACENT LITTLE PENTON,
ONSLow GREEN,
BARNSTON, CM6 3PP

Project

STATUS

BUILDING REGS

SCS

Scale @ A1

1:10

JAN 24

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SUSTAINABLE ARCHITECTURE

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