





- Restraint straps across nogging to SE specification

Ceiling installed first, adhesive ribbon to head of wall lining to fully fill to underside of ceiling Plasterboard dry lining on dabs (full ribbon of adhesive to all perimeters), skim finish 100mm Besblock Star Performer cellular aggregate block 1554 kg/m³ $(\lambda = 0.649 \text{ W/m.K})$. All mortar beds and perps fully filled to avoid air paths 75mm rigid insulation board ($\lambda \le 0.022$)

50mm clear cavity

Ψ 0.103 W/mK

E12 External Wall / Upper Floor Ceiling (Gable) Detail to be Constructed to Conform to: Besblock Star Performer Certified Detail GCU-11

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B 19.12.2016 Roof details updated A 05.10.2016 Text updated Revision

1. Ensure continuity of the insulation throughout

- 2. Ensure that the full depth of insulation between and over the joists abuts the eaves insulation. 3. Ensure that partial fill insulation is secured firmly against the inner leaf of the cavity wall.
- If using partial fill insulation, tuck compressible insulation down into head of cavity.
- 4. Bed the wall plate on a continuous mortar bed.
- 5. Fix ceiling first and seal all gaps between the ceiling and masonry wall with either plaster, adhesive or flexible sealant.
- 6. Seal all penetrations through air barrier using a

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General Notes

Where details refer to Robust Details/ Certified Construction Details, these should be read in conjunction to ensure all requirements are addressed.

- 01. All works to be carried out to all relevant British Standards and products used in accordance with the manufacturers details and agreement certificates.
- 02. Ensure cavities are kept clean of mortar snots and other debris during construction. 03. Wall ties to be at 900mm horizontal centres and 450mm vertical centres
- generally. Additional ties within 150mm of reveals and corners at max. 300mm vertical centres.
- 04. All insulation boards to be tightly butted with each other and against the substrate using min. 3no. retaining clips per board.
- 05. Seal all penetrations through the inner leaf with a flexible sealant or purpose made shoe, which should itself be sealed to the inner leaf.
- 06. Joist hangers should be considered in preference to building timber joists into the inner leaf to reduce likelihood of acoustic defects.
- 07. Where engineered floor joists are used, careful attention should be paid to fixing filler pieces on both sides of the web between flanges. 08. Where joist lengths exceed 2.5m one row of strutting/ blocking to be fixed
- at mid-span, spans exceeding 4.5m to be provided two rows of strutting/ blocking fixed at 1/3-span. 09. Plasterboard on dabs with continuous ribbon of adhesive around all
- openings, along the top and bottom of the wall, and at internal and external corners.
- 10. Seal all penetrations through the air barrier with a flexible sealant. 11. Seal between the wall air barrier and the floor above and below the connection with a flexible sealant.
- 12. Service chases to be no deeper than 1/3 depth of the masonry leaf. Avoid chases where possible on separating walls; if essential, ensure back to back positioning is avoided.

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Facing brick/ rendered blockwork outer leaf as specified 100mm Besblock Star Performer cellular aggregate block 1554 kg/m³ (λ = 0.649 W/m.K). All mortar beds and perps fully filled to avoid air paths Plasterboard dry lining on dabs (full ribbon of adhesive to all perimeters), skim finish. - 75mm rigid insulation board ($\lambda \le 0.022$) 50mm clear cavity Flexible airtightness seal at base of plasterboard to floor 22mm P5 chipboard t&g flooring, joints glued & screw fixed (all to manufacturer's recommendations) to comply with Building Regulations Requirement E2 Engineered timber joist to specialist sub-contractor's design. Restraint strapping, perimeter noggins & blocking/ strutting to SE requirements and specialist's details Joists built-in or on hangers, with care taken to ensure air barrier continuity (as accredited detail). Built in joists not to disrupt cavity wall insulation, which is to be continuous across floor abutment zone. Built in joists to provided with proprietary shoe for air tightness 15mm plasterboard ceiling (min. 10kg/m²), skim finish Floor to achieve 40dB airborne sound reduction

> Seal between the wall air barrier and blockwork above and below the floor assembly. Fix ceiling first and seal all gaps between the ceiling and masonry wall with either plaster, adhesive or flexible sealant

E6 External Wall / Intermediate Floor

Detail to be Constructed to Conform to: Besblock Star Performer Certified Detail GCU-07 Ψ 0.000 W/mK

AMBER 1 GROUND GAS SITE CONTAMINATION ENSURE THAT APPROPRIATE PPE IS USED ON SITE AND THAT HAND WASHING FACILITIES ARE AVAILABLE Facing brickwork ($\lambda \le 0.77$), mortar designation M4 (iii)

generally, refer to elevations for brick type and location. DPC cavity trays (min. 140mm step across cavity) with preformed plastics weep holes at 900 c/c preformed stepped DPC cavity tray at stepping point

Combined DPM and ground gas resistant membrane suitable for protection for AMBER 1 ground gas contamination onditions. Membrane lapped, taped and well sealed at all joints in accordance with membrane manufacturer's guidance. Membrane to span continuously across all cavities.

> Level paving abutting external wall of house, level with internal ground floor level Brickwork below DPC level to be min. F2/S2,

mortar designation M6 (ii). Take care not to surcharge wall when backfilling -Cavity insulation to continue min. 225mm below top of floor structure. Ensure insulation below DPC is fit for purpose with regards to water absorption

Lean mix concrete cavity fill

50mm clear cavity

Foundation to Structural Engineer's design -

Care to be taken when installing the ground gas protection membrane. All penetrations to be well sealed in accordance with membrane manufacturer's guidance

0 10 20 30 40 50 60 70 80 90 100 When reproduced correctly at 1:1 this scale should be accurate in millimetres Significant risks are not necessarily those that involve the greatest risks, but hose, including health risks that are: a) not likely to be obvious to a competent contractor or other designers; b) unusual: or c) likely to be difficult to manage effectively.

Significant Health and Safety Risks:

- Amber 1 Ground Gas Contamination, ensure appropriate PPE is used on site and hand wash facilities are available.



All works to be carried out in accordance with relevant British and European Standards and Codes of Practice. All construction products to bear CE mark and be used in accordance with manufacturer's recommendations and applicable BBA certificates. Any conflicts to be notified to architect at earliest opportunity.

This drawing to be read in conjunction with all relevant Architect's and other Specialist's drawings, details and specifications.

E5-G External Wall/ Ground Floor with Gas Protection UNITS 13-18 and 33-42 ONLY. FOR UNITS 19-32 SEE **DETAIL E5**

Detail to be Constructed to Conform to: Besblock Star Performer Certified Detail GCU-04 Ψ 0.098 W/mK



Client	The Wrekin Housing Trust		
Project	Bank Street, Cheadle		
Drawing Title Construction Details			
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