



WALL CONSTRUCTION

New Stone with partial fill cavity insulation - EXTERNAL WALL
 Nominal 325mm overall thickness cavity wall construction.
 100mm New stone outer leaf
 125mm cavity incorporating insulation.
 100mm Lightweight 3.5kg/m² blocks with a thermal conductivity of 0.15 W/mK to inner leaf.
 Dense concrete blocks to approx. 225mm below ground level.
 Stainless steel vertical least type weep wall ties with plastic restraint clips at 750mm spacings horizontally 450mm spacings vertically. Decrease vertical spacing to 300mm at reveals to openings.
 70mm CF-CHPC free rigid urethane Kingspan Kooltherm K108 Cavity Board with low emissivity composite foil facings on both sides to inner side of cavity. Overall U-value to be 0.18 W/m²K or less.

PARTY WALLS

300 / 325mm Full fill cavity party wall
 Masonry cavity party wall built of two leaves of 100mm blockwork (1350 to 1600 kg/m³) with 100mm cavity fully filled with Earthwool Masonry Party Wall Slab.
 The internal finish consists of a wet plaster coat or a render coat finished with 12.50mm standard plasterboard (nominal 10 kg/m²) on dabs.
 The density of Earthwool Masonry Party Wall Slab is 18.00kg/m³
 Cavity insulation to be filled in accordance with manufacturers specification / instructions.
 Effective U-value: (0.00 W/m²K) when fitted with edge sealing.
 Use specific Party wall ties type A fitted in accordance with manufacturers instructions, as stated in approved document E.
 Cavity wall width to be adjusted to account for position of wall types.

215mm Party wall
 Masonry solid party wall built of 215mm blockwork (1850 to 2300 kg/m³) laid on their side, single course stretcher bond. NB mortar beds may be 10-15mm thick to permit coursing to junction with inner leaf.
 Gypsum based board (nominal mass per unit area 12.5 kg/m²) mounted on dabs, on cement sand render (nominal 15mm, 13mm maximum) with scratch finish. Typical render mix must not be stronger than the background.
 Grit plasterboard and render finish where the cavity wall is encapsulated by an additional stud partition wall.
 Allow for full fill cavity / freestop to junction with flanking wall.
 Effective U-value (0.00 W/m²K)

PROVIDE 60MIN FIRE RESISTANT CAVITY BARRIERS TO PARTY WALL JUNCTIONS AND UNDER DOOR FLEES - Party walls separating dwellings / occupancies to achieve a minimum 60 minutes fire resistance from both sides.
 Contractor to allow for horizontal cavity barriers where occupancies are on top of each other. Where horizontal cavity barriers are incorporated allow for cavity trays over.

INTERNAL WALLS - Separating habitable apartment rooms from stairwell / corridor / other occupancies (200mm overall)
 GyfWall Twin - Independent - TYPE A216014 (EN)
 Form 2nd independent GyfFrame 48 I 50 T Stud braced at max. 800mm centres.
 GyfFrame 48 S 50 °C Stud to abutments and opening.
 GyfFrame 50 FEC 50 Folded Edge Standard Floor & Ceiling Channel
 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity
 (cavity width 137mm). Linings and insulation as below.
 2x15mm Gyproc SoundBloc boards to either side of the partition. (max 2.8m partition height)
 Apply plaster skim finish. Ensure studs do not physically touch each other. All work to be in accordance with Gyproc specification.
 Construction to achieve 60min fire separation (construction achieves 10mins fire integrity)
 Construction to achieve 64 (57) dB Sound Rating (construction achieves 66 dB Sound Rating)

INTERNAL WALL Lining - To external perimeter
 New Cavity wall to be lined with metal stud partitions, to be constructed using GyfFrame 48 S 50 studs set 100mm from cavity wall face. All new stud partitions to have an un-faced layer of absorbent, wire reinforced mineral wool, suspended within the cavity. Internal cavity to be filled with 50mm thick sound deadening quilt ref. Rockwool RW45 slab. Minimum density to be 10kg/m³. Finished with 2 layers of 12.5mm (8.2kg/m² peer board) plasterboard with staggered joints and skim finish.

INTERNAL WALLS - Metal Stud - Fire
 (100mm overall thickness) GyfFrame ref A206302 (EN)
 One layer of Gyproc Duraline 15mm each side of GyfFrame 70 S 50 °C Studs at 600mm centres. 25mm Isover Acoustic Partition Roll (APR 1200) in the cavity. For heights up to 2800mm.
 To achieve 60min fire separation, Sound Insulation (Airborne) Rw (dB) 47

INTERNAL WALLS - Metal Stud - Sound
 (84mm Overall thickness) GyfFrame Ref - A206185S (EN)
 See full details for this specification.
 One layer of Gyproc SoundBloc 15mm each side of GyfFrame 48 S 50 °C Studs at 600mm centres. 25mm Isover Acoustic Partition Roll (APR 1200) in the cavity with 2mm Theatse MultiFinish on each side.
 For heights up to 2800mm.
 Achieves Sound Insulation (Airborne) Rw (dB) 45

- NOTES**
- This drawing and the copyrights and patents herein are the designers property and may be used or reproduced only under contract.
 - Contractors and sub contractors must check and agree all dimensions before preparing shop drawings or commencing work on site.
 - Contractors are responsible for informing the Designer of any discrepancy discovered on this drawing or between this drawing and any other related documents issued in respect of the work.
 - Written dimensions only are to be used from this drawing. If any doubt exists the contractor must ask for clarification. On no account must the contractor scale off this drawing.
 - If no site investigation has been carried out prior to commencement of work, Contractor to make trial holes to test suitability of ground for proposed foundations.
 - All work must be carried out in accordance with the current Building Regulations, Codes of Practice and British Standards. If any doubt exists the contractor must ask for clarification.
 - All references refer to accompanying specification.
- Domestic and commercial projects are notifiable to the HSE under CDM 2015 if the construction work on site is scheduled to:
 a) Last longer than 30 working days and have more than 20 workers working simultaneously at any point in the project; or
 b) Exceed 500 person days

Mark	Date	Made by	Revision

Drawing Title:
Proposed Ground Floor Setting Out

Site Address:
Baldon Block F

Scale @ A1

Job No	Drawing No	Rev
1620	300	B

MADP

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Proposed Ground Floor Plan 1:50