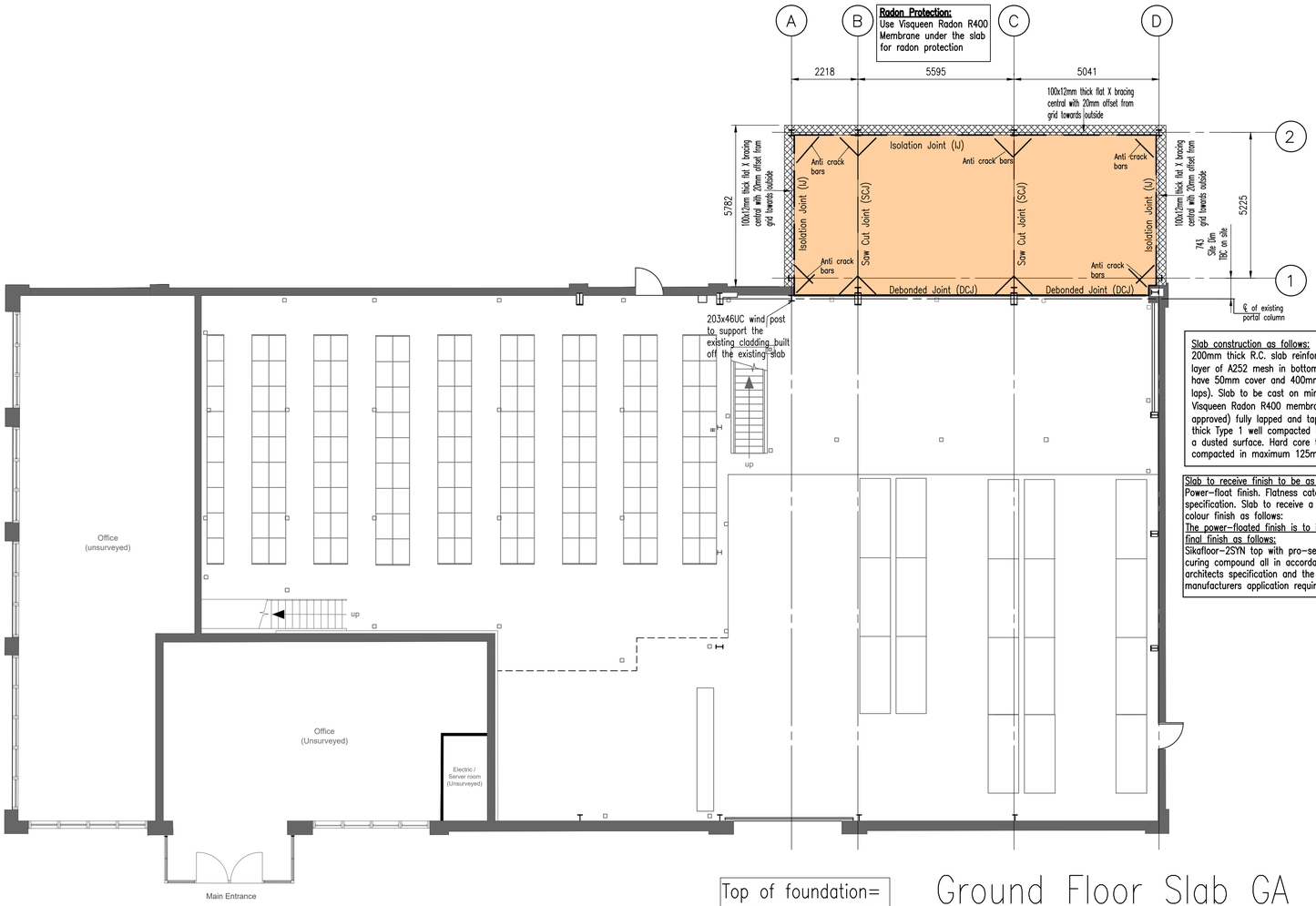


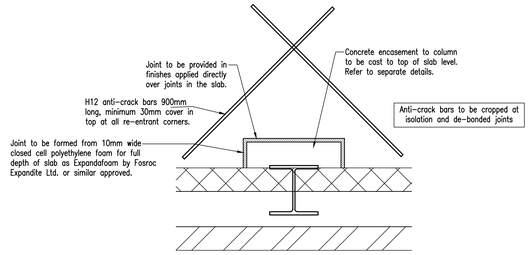
Radon Protection:
Use Visqueen Radon R400 Membrane under the slab for radon protection

Slab construction as follows:
200mm thick R.C. slab reinforced with one layer of A252 mesh in bottom (mesh to have 50mm cover and 400mm minimum laps). Slab to be cast on minimum Visqueen Radon R400 membrane (or similar approved) fully lapped and taped on 225mm thick Type 1 well compacted hardcore with a dusted surface. Hard core to be compacted in maximum 125mm layers

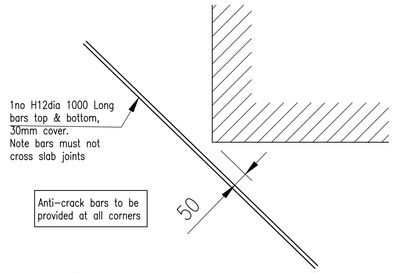
Slab to receive finish to be as follows:
Power-float finish. Flatness category FM3 specification. Slab to receive a classic Grey colour finish as follows:
The power-floated finish is to incorporate a final finish as follows:
Sikafloor-2SYN top with pro-seal concrete curing compound all in accordance with the architects specification and the manufacturers application requirements.

Top of foundation= -450mm below FFL

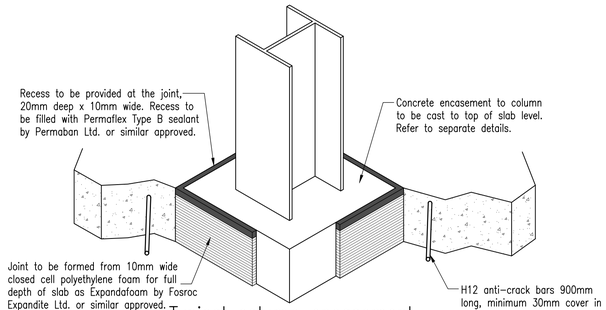
Ground Floor Slab GA
Scale 1:100



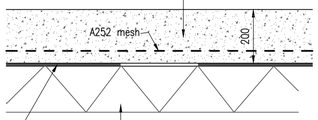
Plan on typical External column encasement with anti-crack bars for slab
Scale 1:10



Typical Corner Anti Crack Bar Detail



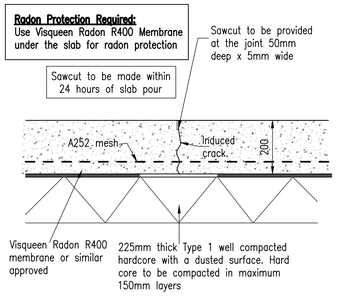
Typical column encasement detail with anti-crack bars for slab without finishes
(Scale 1:10)



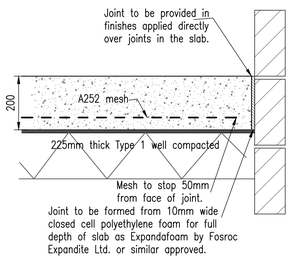
Typical Section Through Slab

Radon Protection Required:
Use Visqueen Radon R400 Membrane under the slab for radon protection

Sawcut to be made within 24 hours of slab pour

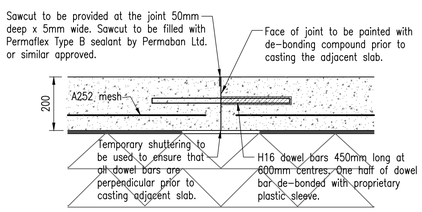


Typical Saw Cut Joint (S.C.J)



Typical Isolation Joint (I.J)

Isolation Joint Details
Mesh to stop 50mm from face of the joint. Joint to be formed from 10mm wide closed cell polyethylene foam for full depth of slab as expandafoam by Fosroc Expandite ltd. or similar approved.
Recess to be provided at the joint 20mm deep x 10mm wide.
Recess to be filled with Permaflex type B sealant by Permaban ltd. or similar approved.



Typical De-bonded Contraction Joint (D.C.J)

DO NOT SCALE - IF IN DOUBT ASK

NOTES

GENERAL NOTES:
1. This drawing is to be read in conjunction with all relevant architect's and structural engineer's drawings and the specifications.
2. All site particulars, dimensions and levels of existing structure to be checked on site with the drawings by the contractor and any discrepancies reported to the engineer prior to commencement of any work.
3. The Contractor shall be responsible for the and detailing of the temporary works.
4. All proprietary fixings to be installed in accordance with the manufacturer's recommendations.
5. All work is to be carried out in accordance with current edition of the building regulations and to the satisfaction of the local authority building control prior to start work on site. Any work done without building control approval is at contractor risk.
6. All Excavations for Foundations are subject to inspection and approval by the Building Control Officer prior to casting of concrete.
7. All setting out, DPM, fire protection, tanking & waterproofing to Architects details.

FOUNDATION NOTES
8. All mass concrete footings are to be central on walls unless noted otherwise, for setting out of walls refer to architects layouts.
9. Foundations have been designed for a safe G.B.P. of 150kN/m². All excavations to be inspected by engineer/building control officer on site before placing concrete.
10. All steelwork below ground level to be cased in min 100mm thick C30 concrete with a min cement content of 270kg/m³ and W/C ratio max 0.5

CONCRETE NOTES:
Concrete mix is to be minimum required for BS8110 and BRE special digest 1:2005 to suit SI report (DS-1, DC-1 ACEC class AC-1s)
11. Concrete grades to be as follows –
    Concrete blinding & mass concrete fill –C20 (180Kg/m³)
    Buried mass concrete (mass bases & strips footings) – C30 (275Kg/m³)
    RC Slab –C35 (330Kg/m³)
    Max. water cement ratio of 0.55
    Dry pack to 1:2 Cement Sand Mix.
12. 50mm mass concrete blinding required to u/s of all in-situ R.C. foundations only.
13. Cover to reinforcement shall be 50mm unless noted otherwise.
14. All walls to be set out in accordance with architects drawings
15. Contractor to ensure all adjacent services, buildings and site are not undermined by the works.

MASONRY
16. Blockwork to have 7.0 N/mm² crushing strength and grade (iii) mortar to BS 5628, 215 deep, 100 wide blocks.
17. Brick-work to have 20 N/mm² crushing strength (water absorption less than 12%) and grade (iii) mortar to BS5628
18. All mortar below ground level to be grade (ii) to BS5628
19. Movement Joint Locations To Be Agreed with Architect

Tender

Rev	Date	Description	By	Chk	App
B	24.11.24	Revised to suit Arch Comments	MAC	ATH	ATH
A	21.10.24	Tender issue	MAC	ATH	ATH
P1	01.10.24	1st issue	MAC	ATH	ATH

Revision

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CLIENT
HS Components Ltd

PROJECT
Shawcross House, Horace Waller VC Parade

TITLE
Ground Floor Slab Details

SCALE	DRAWING SIZE	DRAWN
As Shown @ A1	A1	MAC

DRAWING No. KS507/F02 REV. B