

**Brickwork Notes :**

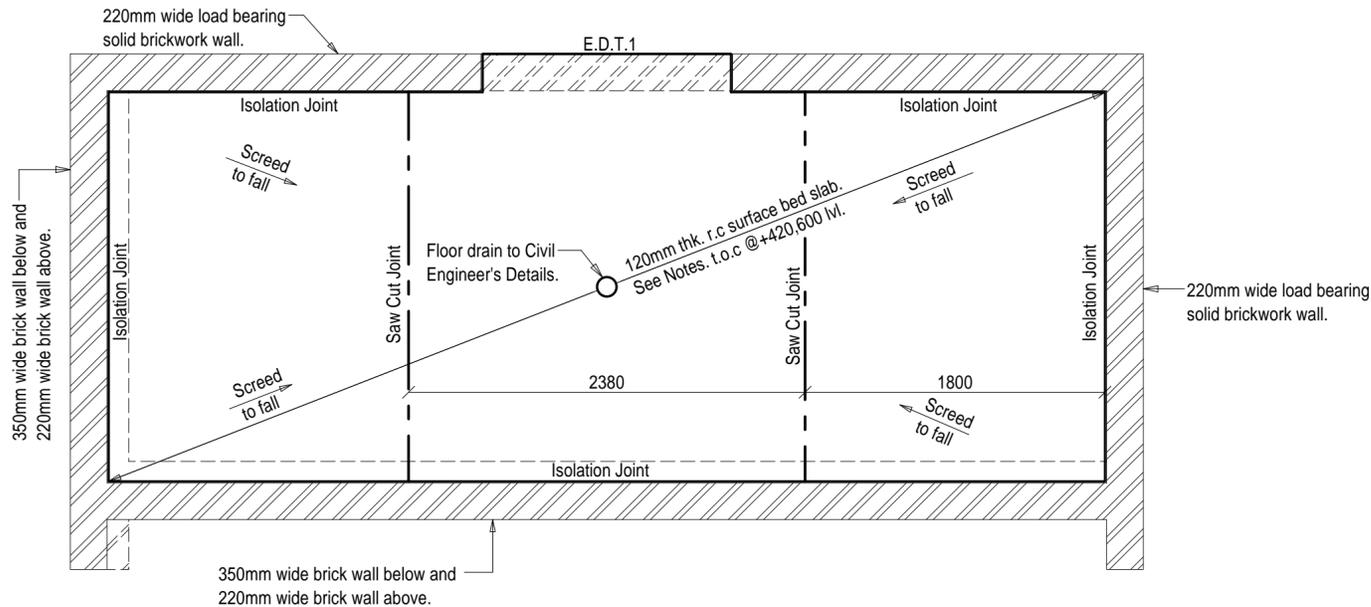
- All solid brick walls are 220mm wide or 110mm wide with brickforce built in every course below surface bed level, above all window and door openings, and every 3rd course above surface bed level with 150mm wide x 2,8mm thk. NHBRC Galvanized Brickforce for 220mm wide walls and 75mm wide x 2,8mm thk. NHBRC Galvanized Brickforce for 110mm wide walls.
- All brickwork to be min. 14MPa NFX bricks in Class 2 mortar.
- All load bearing brickwork and concrete interfaces to receive a 'Slip Joint' of which consists of the following : 2 layers of 3 ply malthoid on a smooth rendered surface on top of the load bearing brickwork.

**120mm thk. Surface Bed Slab :**

120mm thk. x 25MPa powerfloated (wood float finish) concrete surface bed slab reinforced with Mesh Ref. 193 (min. 300mm laps) placed at 35mm cover from the top of the slab on 250µm SABS approved DPM on min. 150mm thk. G5 quality soil material compacted to 98% Mod AASHTO on engineered layerworks as per Civil Engineers layouts. Soil to be poisoned in accordance with SABS 1165. Certificate must be provided.

**GENERAL NOTES :**

- All levels and dimensions to be checked on site.
- This drawing is to be read in conjunction with the Architectural drawings.
- All concrete work is to comply with SABS 1200G.
- Concrete Class :-
  - a) Strip Footings & Bases = 25 MPa
  - b) Slabs & Beams = 25 MPa
  - c) Surface Bed Slabs = 25 MPa
  - d) Blinding = 10 MPa
- Cover to reinforcement :-
  - a) Strip Footing & Bases = 50mm
  - d) Slabs, Beams & Staircases = 30mm
  - e) Slabs (On the Ground) - Bottom Mat = 50mm
  - f) Slabs (On the Ground) - Top Mat = 30mm
- All foundation excavations are to be inspected by the Engineer prior to casting of concrete.
- All reinforcing fixing is to be inspected by the Structural Engineer prior to casting of concrete.
- Six concrete cubes to be taken per pour. Three cubes to be tested at seven days, the remainder at twenty eight days. The results are to be forwarded to the Engineer for review and approval.
- The Contractor is to construct a blinding layer if soil conditions result in reinforcement cover not being maintained.
- All structural concrete is to be cured for a minimum of five days.
- All load bearing brickwork is to be 14MPa NFX bricks in Class 2 mortar. The top of all load bearing brickwork (at all concrete interfaces) is to receive 2 layers of 3 ply malthoid placed on a smooth rendered surface.
- All single skin brickwork is to be stopped 2 courses below the soffit of the slab and completed after the props have been removed.
- All concrete plaster and brickwork plaster interfaces to receive 'v'-joints.
- The Engineer requires 24 hours notice for all inspections.



**SURFACE BED SLAB LAYOUT**

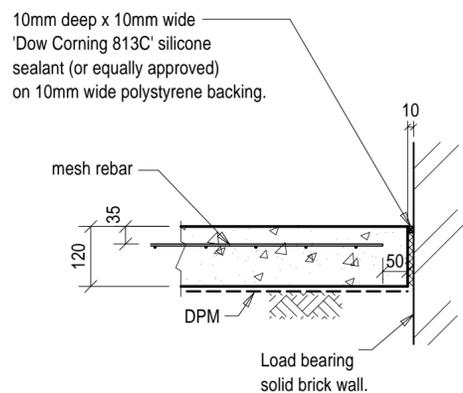
Screed to Architect's Details & Specifications.

**A. Classification of Concrete Finish to Top Surfaces of R.C. Slabs :**

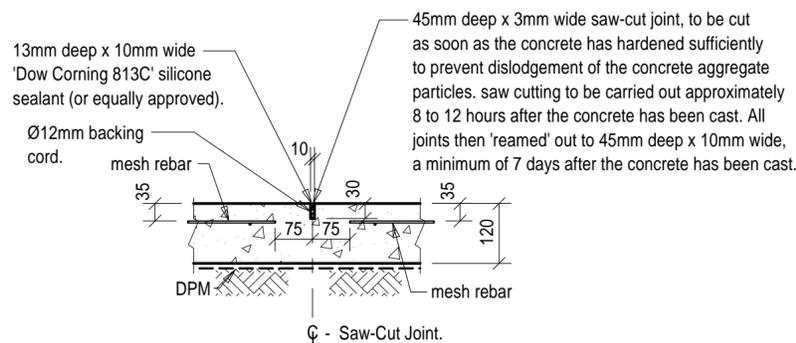
The following 'finish' is to be applied to all the top surfaces of the concrete :  
 CF1 - The following 'finish' is to be applied to all suspended r.c. slabs and r.c. surface bed slabs :  
 The top surfaces of the slabs are to be powerfloated (with a woodfloat finish) to Degree of Accuracy II as per SABS 1200 G specification.

All compacted bulk and engineered fill below all foundations, to civil Engineers details and specifications.

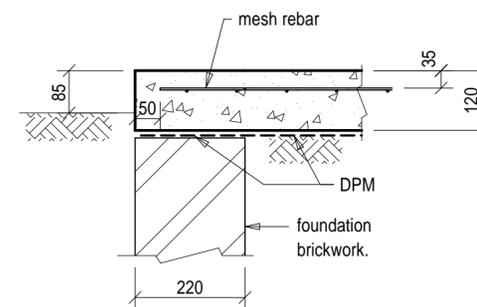
25mm x 25mm chamfers to all exposed concrete edges / surfaces.



**TYPICAL ISOLATION JOINT DETAIL (I.J.)**



**TYPICAL SAW-CUT JOINT DETAIL**



**EXTERNAL DOOR THRESHOLD (E.D.T. 1)**

**FOR TENDER**

REV.	DESCRIPTION	BY	DATE
T1	ISSUED FOR TENDER	M.X.	11/04/2025

Professional Person : M. NAIR, PrTechEng. ECSA Registration No.: 200670211

CLIENT :  
 IMPLEMENTING AGENTS :



PROJECT MANAGERS :



ARCHITECTS :



PROJECT :

19/1/9/1/59 TB (22)  
 PROPOSED MSINSINI  
 POLICE STATION IN KZN

DETAILS :

LIVING QUARTERS : BIN AREA  
 SURFACE BED SLAB LAYOUT  
 AND DETAILS

DISCIPLINE : STRUCTURAL ENGINEERING



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DESIGNED :	M.X.	COPYRIGHT RESERVED	SCALES :
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APPROVED :	M.N.	PL	DATE : 25/11/2024
DRAWING No. : 589 / 121			REV. T1