



Concrete element	Specified strength	Min. cover	
		Vert.	Horiz.
Foundations	??MPa/??	??	??
Ground beams			
Ground slabs			
Columns			
Beams			
Slabs			
Walls			

Structural Steel:

- All steelwork to be in accordance with SANS 2001-C31
- This drawing to be read in conjunction with the project specification.
- All existing dimensions & levels to be checked on site prior to fabrication of steelwork.
- All steelwork shall be grade S-355-JR to EN 10025 U.O.N.
- All welds to be 6mm continuous fillet U.O.N.
- All bolts are to be M20 Grade 8.8 with the exception of Purlins, Girts & Sag bracing which are to be M16 Grade 4.8 U.O.N.
- Protective treatment to be in accordance with the project specification.
- Prime coat to be patch primed prior to final site painting.
- No cutting or burning holes in structural members will be permitted without the written consent of the Engineer.
- Steelwork contractor to submit shop detail drawings to the Engineer for approval prior to fabrication.

Reinforced Concrete:

- Concrete works to be in accordance with SANS 2001-CC1 Concrete Works (Structural).
- No concreting is to be commenced without the Engineer's approval.
- U.O.N. $\geq 15\text{MPa}$ concrete blinding of $\pm 50\text{mm}$ is to be placed & roughly levelled up to underside of foundation.
- Concrete levels & dimensions do not include finishes U.O.N.
- Beam dimensions shown reflect Breadth x Depth. Depth includes the slab thickness.
- First dimension given for columns & foundations is the one parallel to the Bottom margin of the drawing.
- Load bearing brickwork, shown hatched on plan, is to be built to full height before concrete over is cast.
- No opening other than those indicated are to be made without prior approval of the Engineer.
- The foundation design is based on a ground bearing capacity of kPa .
- This suspended slab is designed for a total superimposed load of kN/m^2 .

Masonry Notes:

- Masonry to conform to SANS10164-1 as well as SANS 2001-CM1
- Bricks - 14mpa min. clay stocks to SABS 227.
 - Face bricks to architect's specification.
 - Foundation bricks water absorption $< 7\%$ to 3 course(min) above ground level.
- Mortar - Class II generally unless otherwise specified:
 - Class I for composite retaining walls, manholes, liftshaft & stairwell walls & noted.
 - Mortar joints max 10mm thick.
 - 1 set of cubes to be tested per 100m^2 of brickwork in strict accordance with SANS 10164-1 by an approved laboratory.
- Hoopirons to be fixed to concrete & built into brickwork every 4th course.
- 2.8mm dia. Brickforce BK 200, 150, 75 in all 340, 230 & 115 walls respectively throughout every 4th course, lapped 300mm at joints & bends. Galvanized brickforce to be used in coastal & corrosive atmosphere areas.
- Brickforce to be built in every course for 3 courses immediately above DPC/slab level, immediately below suspended slab/roof wall plate level & above window/door openings, lapped 300mm each side of the opening.
- 230mm walls to have header courses every 6th course generally, except for facebrick walls which are to be built to the architect's specification.
- Composite walls to have 4 heavy duty vertical twist wall ties per square metre embedded 50mm min. into each masonry leaf.
- Clay bricks to be wetted prior to building in. (Concrete bricks should not be pre-wetted. Concrete brick walls to be fog sprayed after laying to optimise mortar curing).
- Wall joints & junctions to be fully continuous, i.e. no block bonding permitted u.o.n.
- Permissible deviations (degree of accuracy) to be in accordance with SANS 2001-CM1 clause 6 table 13 degree of accuracy II, measured per clause 5.1.2.
- Wall expansion joints (where shown) to be 10mm with jointex infill. Joints to project through plaster & be finished with 10x6mm polyurethane sealer. Concretina wall ties through expansion joints every 4th course.
- DPC membranes not to be built into retaining or free standing brick walls.
- All masonry walls of thickness 230mm or greater are load bearing walls for the purposes of construction.

B	25.10.24	FOR INFORMATION
A	12.08.23	FOR INFORMATION
No.	Date	Revision
Architect		
Client		

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Project Title		
BREEDER HOUSES SCHIKFONTEIN		
Drawing Title		
SITE LAYOUT		
Scale	Date	Designed
1 : 750	08.12.23	M.W.
		Drawn
		N.B.
		Checked
0326	AA001	B
Project No.	Drawing No.	Revision