

Services -		
Building Floor Area		
Total Floor Area of Building:	351,3	m ²
Lighting and Power		
Max. Energy Demand:	1757	W – Permissible
Max. Energy Consumption per Annum:	1757	kWh – Permissible
Lamp power (W) rating:		
	No. of lamps:	Hours in use / day:
9	15	5,0
9	1	5,0
2	75	5,0
Total lamp energy demand (W): 294 Energy demand acceptable.		
or		
Total lamp energy demand (W/m ²):	0,84	Energy demand acceptable.
Available annual energy consumption – Lights:	1463	W
Total annual energy consumption – Lights (kWh): 535,08 Energy consumption acceptable.		
or		
Total energy consumption – Lights (kWh/m ²):	1,52	Energy consumption acceptable.
Available annual energy consumption – Lights:	1221,42	kWh
Hot Water Services (Use actual measured data where available.)		
Type of Accommodation ?	Dwelling houses - Medium rental : 115-140 L/capita/day	
Assumed Hot Water Consumption ?	150,0	L Per Day
No. of Persons:	5	L Per Day
Assumed Daily Hot Water Consumption:	750,0	L
Assumed Annual Hot Water Consumption:	273,00	kL – Based on daily design occupancy per week
50 % of Annual Hot Water Consumption:	136,50	kL – Minimum volume of hot water to be heated by means other than electrical resistance heating
or		
Daily Hot Water Consumption:	375,0	L – To be heated by means other than electrical resistance heating
Insulation Requirements :		
Internal diameter of Hot Water Service Pipe ?	—	mm
Minimum Required R-value for Pipe Insulation ?		
Hot Water Vessels / Tanks :		
Minimum Required R-value for Vessel / Tank ?	2,0	Additional insulation to manufacturer's insulation may be required to achieve this value.

Fenestration – Buildings with Natural Environmental Control

Constants	
Conductance (C _U) constant:	1,4
Solar Heat Gain (C _{SHGC}) constant:	0,12
Storey Conductance / Solar Heat Gain	
Ground Storey	
Net Floor Area of Storey / Room: m ²	351,300
Fenestration Area of Storey / Room: m ²	47,262
% Fenestration Area to Net Floor Area: %	13,5
Permissible FENESTRATION SATISFIES SANS 10400-XA.	
Max. Conductance (C _U) for Storey / Room:	491,820
Max. Solar Heat Gain (C _{SHGC}) for Storey / Room:	42,156
Achieved	
Conductance (C _U) for Storey / Room:	146,115
Solar Heat Gain (C _{SHGC}) for Storey / Room:	23,998
Available (In Hand)	
Conductance (C _U) for Storey / Room:	345,705 Acceptable & refer SANS 204 (4.3.4)
Solar Heat Gain (C _{SHGC}) for Storey / Room:	18,158 Acceptable & refer SANS 204 (4.3.4)

ARCHITECTS NOTES

ALL MATERIALS AND CONSTRUCTION MUST COMPLY WITH NATIONAL BUILDING REGULATIONS ACT NO. 103 OF 1997, INCLUDING ALL AMENDMENTS AS WELL AS THE BY-LAWS OF THE LOCAL AUTHORITIES. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE AND NO DRAWINGS MUST BE SCALED. ANY INDEFINITE OR DISCREPANCIES MUST BE IMMEDIATELY POINTED OUT TO THE ARCHITECT FOR RECTIFICATION OR EXPLANATION BEFORE ANY CONSTRUCTION CAN COMMENCE. ALL PLANS ARE PROTECTED BY THE COPYRIGHT ACT NO. 98 OF 1978.

ENERGY EFFICIENT MEASURES TO BE TAKEN BY CLIENT. ALL LIGHTS TO BE FITTED WITH ENERGY EFFICIENT FITTINGS. ALL WESTERN WINDOWS TO BE SHADED WITH TREES. WATER SAVING SHOWER HEADS TO BE FITTED. TOILETS TO BE WITH WATER SAVING FLUSH CONTROL. ENERGY EFFICIENCY TO BE TAKEN IN BUILDING TO COMPLY WITH PART XA. MIN 50% OF HOT WATER REQUIRED TO BE SUPPLIED BY HEAT PUMP OR SOLAR. ALL EXPOSED HOT WATER TO BE INSULATED WITH A 'R' VALUE OF 1 ROOF OVERHANG 400mm. ROOF ASSEMBLIES TO ACHIEVE A 'R' OF 32 WALLS TO BE 230 BRICK PLASTERED BOTH SIDES. WATER TO BE SLOPED AWAY FROM BUILDING. ALL STRUCTURAL WORK TO COMPLY WITH KKS OF SABS 10400 AND 0401 THE CONTRACTOR ON SITE MUST MAKE SURE THAT THE LEVEL BETWEEN THE HOUSE AND GARAGE IS SO THAT A CAR CAN ENTER THE GARAGE WITH EASE. ALL TIMBER TO BE TREATED ACCORDING TO SABS 1288 STANDARD. ALL FINISHED FLOOR LEVELS ARE TO BE DETERMINED ON SITE AFTER SETTING OUT THE COMPLETED PROJECT. IT IS THE RESPONSIBILITY OF THE OWNER AND OR SUBCONTRACTOR TO CHECK ALL DIMENSIONS, AREAS, LEVELS AND SITE BOUNDARIES BEFORE COMMENCEMENT OF THE WORK ON SITE. ANY DISCREPANCY SHOULD BE REPORTED TO THIS OFFICE AT ONCE. ANY DISCREPANCY BETWEEN PLANS, SPECIFICATION AND QUOTATION SHOULD BE REPORTED TO THIS OFFICE AT ONCE. ANY REVISIONS AND OR CHANGES DONE ON SITE MUST BE REPORTED TO THIS OFFICE AT ONCE. NO WORK ON SITE SHALL COMMENCE BEFORE PLANS ARE APPROVED BY THE LOCAL AUTHORITY AND SUCH APPROVAL IS IN THE POSSESSION OF THE CONTRACTOR. IT SHALL BE DETERMINED ON SITE BY THE CONTRACTOR IF THE GROUND SHALL NEED TO BE INSPECTED BY A ENG TO DETERMINE IF REINFORCING ARE NEEDED IN THE FOUNDATIONS. ANY CONTRACTOR AND OR SUB-CONTRACTOR SHALL AT ALL TIMES MAKE SURE THAT ANY MATERIAL USED ON SITE MUST BE SUITABLE FOR THE USE THEREOF AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION.

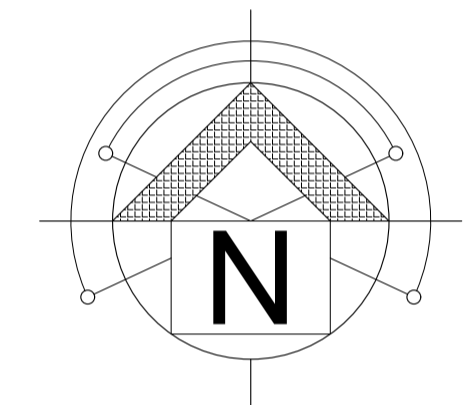


TABLE 1 - FENESTRATION : NATURALLY VENTILATED BUILDING - Allowance made for 75 fenestration elements																
Glazing Elements			Glazing Element Size			Glazing Element Rating			Sector		Shading			Solar Exposure		Proposed
Storey Level	Identifier No.	No. of Units	Width (m)	Height (m)	Area	U-value	SHGC	Orientation	Projection (m)	Height (m)	Height (m)	P/H	Factor (E)	Conductance	SHG	
Ground Storey	W1	1	2,475	4,080	10,098	5,6	0,77	North West	0,300	4,475	3,000	0,034	1,088	56,549	8,460	
Ground Storey	W2	1	1,000	2,080	2,080	2,41	0,51	North West	0,000	3,400	1,196	0,000	1,160	5,013	1,231	
Ground Storey	W3	3	0,800	1,065	2,556	2,41	0,51	North	0,700	1,500	0,440	0,467	0,378	6,160	0,493	
Ground Storey	W4	1	1,900	2,445	4,646	2,41	0,51	South East	3,035	2,600	0,200	1,167	0,308	11,196	0,730	
Ground Storey	W5	1	2,000	2,100	4,200	2,41	0,51	South East	0,300	3,600	1,500	0,042	0,872	10,122	1,868	
Ground Storey	W6	1	0,800	2,100	1,680	2,41	0,51	South East	0,300	3,900	1,800	0,038	0,894	4,049	0,766	
Ground Storey	W7	2	3,825	0,765	5,852	2,41	0,51	South East	0,300	2,193	1,430	0,068	0,838	14,104	2,501	
Ground Storey	W8	1	2,200	4,065	8,943	2,41	0,51	South East	0,000	5,930	1,860	0,000	0,960	21,553	4,378	
Ground Storey	W9	1	2,899	0,450	1,305	2,41	0,51	North East	0,300	3,845	1,090	0,039	1,012	3,144	0,673	
Ground Storey	W10	1	3,300	0,765	2,525	2,41	0,51	North East	0,600	4,256	4,270	0,070	0,928	6,084	1,195	
Ground Storey	W11	1	1,290	1,205	1,542	2,41	0,51	North East	0,600	2,850	2,550	0,078	0,928	3,717	0,730	
Ground Storey	W12	2	0,400	2,295	1,836	2,41	0,51	South West	0,000	4,249	1,950	0,000	1,040	4,425	0,974	
														146,115	23,998	

Door Schedule

Door Nr.	D1	D2	FD	ID	D3	D4	D5	D6	GLASS NOTE:	
UNTEL LEVEL 3334										1. ALL GLASS AND GLAZING, IRRESPECTIVE OF MATERIAL TYPE USED FOR FRAMING, SHOULD BE EXECUTED IN ACCORDANCE WITH THE RECOMMENDATION AS SET OUT BY THE ASSOCIATION OF ARCHITECTURAL MANUFACTURERS OF SOUTH AFRICA (AAAMSA) IN THEIR SELECTION GUIDE FOR STRUCTURAL GLAZING. 2. THE NOMINAL THICKNESS OF A PANE OF GLASS SHALL NOT BE LESS THAN THAT GIVEN IN THE TABLE BELOW.
UNTEL LEVEL 2382										
UNTEL LEVEL 2103										
UNTEL LEVEL 1775										
Total Quantity	1	1	1	7	1	1	1	1		
Frame	Aluminium	Aluminium	Mild Steel Frame	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium		
Code	ANP 3055	ANP 3055	FIRE DOOR	ANP 3055	ANP 3055	ANP 3055	ANP 3055	ANP 3055		
Color	Charcoal Powered Coated	Charcoal Powered Coated	To Owner	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated		
Glass	None	Sandblasted	None	Sandblasted	Sandblasted	Sliding Door	Sliding Door	Sliding Door		
Size	2453x4800	3077x1329	2160x813	2125x883	2125x813	2300x1775	2300x1775	3623x2465		

Window Schedule

Window Nr.	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
UNTEL LEVEL 4080												
UNTEL LEVEL 3530												
UNTEL LEVEL 2510												
UNTEL LEVEL 2150												
UNTEL LEVEL 1630												
UNTEL LEVEL 1670												
Total Quantity	1	1	3	1	1	1	2	1	2	1	1	2
Frame	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Code	ANP 3055	ANP 3055	ANP 3055	ANP 3055	ANP 3055	ANP 3055	ANP 3055	ANP 3055	ANP 3055	ANP 3055	ANP 3055	ANP 3055
Color	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated	Charcoal Powered Coated
Glass	Single Clear	Single Clear	Single Clear	Single Clear	Single Clear	Single Clear	Single Clear	Single Clear	Single Clear	Single Clear	Single Clear	Single Clear
Size	4080x2475	2080x1000	1065x800	2445x1900	2100x2000	2100x800	3825x765	4060x2200	2899x450	3300x765	1280x1205	2295x400



Drainage:

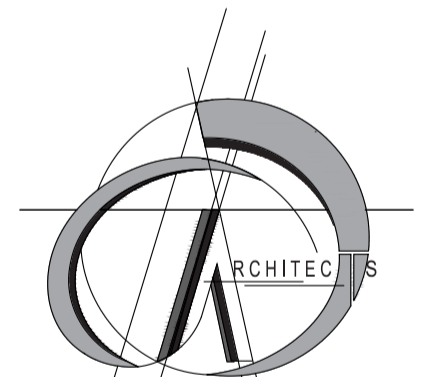
All drainage to be in accordance with NBR. All sewer downpipes to be concealed in accessible ducts with access hatch. RE and IE to be fitted before and after entering and exiting building underground. Inspection eyes to all bends and junctions suitably marked at ground level 70mm re-seal anti syphon two-way traps to all waste fillings. All showers on floor to have bras traps. All waste and soil pipes to fall min 1:100 except otherwise indicated. No bends or junctions of drain pipes to be under floor slabs. All galleys to be in an open space. Cleaning Eyes at every 25m intervals. All pipes running under a building or with IL less than 400mm below ground level must be encased in 100mm concrete.

DRAWING STATUS

Sketch plan only

ZONING: RESIDENTIAL 1

ARCHITECTS



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PROJECT:

New Proposed House for
Mr. & Mrs. Cussons
on Erf 2228, Blue Wildebeest Street
Schoongezicht Estate, Cashan Ext 7
Rustenburg

DRAWING DESCRIPTION:

Sketch plan
Site & Floor layout

SACAP No - 21044

DRAWN: Janine SCALE: See plan

DATE: 14/06/2022 REVISION: 04

PROJECT NO.: 222-08 DRAWING NO.: SK102