Lighting and Power

Max. Energy Demand:	1354	W – Permissible
Max. Energy Consumption per Annum:	1354	kWh – Permissible

Lamp power (W) rating:	No. of lamps:	Hours in use / day:
9	25	5
9	4	5
2	71	5
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

Total lamp energy demand (W):	403	*Energy demand acceptable.*
or		
Total energy demand (W/m²):	1,49	*Energy demand acceptable.*
Available Energy Demand for Lights :	951,00	W
Total energy consumption – Lights (kWh):	733,46	*Energy consumption acceptable.*
or		
Total energy consumption – Lights (kWh/m²):	2,71	*Energy consumption acceptable.*
Available annual energy consumption – Lights:	620,54	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	L
No. of Persons:	5	Per Day
Assumed Daily Hot Water Consumption:	750	L
Assumed Annual Hot Water Consumption:	273	kL – *Based on daily design occupancy per week*
50 % of Annual Hot Water Consumption:	136,5	kL – *Minimum volume of hot water to be heated by means other than electrical resistance heating*
or		
Daily Hot Water Consumption:	375	L – *To be heated by means other than electrical resistance heating*

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: m²	270,800	
Fenestration Area of Storey / Room: m²	64,131	
% Fenestration Area to Net Floor Area: %	23,7	
Permissible	CONDUCTANCE & SOLAR HEAT GAIN I.T.O SANS 204.	
Max. Conductance (C_U) for Storey / Room:	379,120	
Max. Solar Heat Gain (C_{SHGC}) for Storey / Room:	32,496	
Achieved		
Conductance (CU) for Storey / Room:	154,557	
Solar Heat Gain (CSHGC) for Storey / Room:	27,865	
Available (In Hand)		
Conductance (C_U) for Storey / Room:	224,563	Acceptable & refer SANS 204 (4.3.4)
Solar Heat Gain (C_{SHGC}) for Storey / Room:	4,631	Acceptable & refer SANS 204 (4.3.4)

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 exiling building underground. Inspection eye's to all bends abd 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 accept 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.

GLAZING NOTES:
Glazing to be in strict accordance with AAAMSA performance criteria A0, glazed in accordance with SANS 10160, SANS 10137, SANS 10400 (Part N of Section 3) and SANS 1263 Safety glazing is to be in strict accordance with SANS 10400 (Part N) Provide glazing indicators on glass doors and windows as per SANS 10400 (Part N) Glazing from FFL to 1000mm above FFL=safety glass Glass thickness as per schedule 1 of part N of the NBR
0- 0.75m = 3mm CLEAR GLASS.
0.75- 1.5m = 4mm CLEAR GLASS.
1.5m AND MORE = 6mm CLEAR GLASS.
MATT GLASS = 4mm.
SLIDING DOORS = 6.5mm SAFETY GLASS WITH MARKERS ACCORDING TO S.A.B.S. STANDARDS

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) (P)	Height [1] (m) (H)	Height [2](m) (G)	P/H	Factor (E)	Conductance	SHG
Ground Storey	W1	2	0,400	2,295	1,836	2,41	0,51	North East	0,570	3,905	1,610	0,073	0,928	4,425	0,869
Ground Storey	W2	1	1,290	2,830	3,651	2,41	0,51	South West	1,000	3,300	0,470	0,303	0,690	8,798	1,285
Ground Storey	W3	2	1,000	2,770	5,540	2,41	0,51	North East	0,200	3,970	1,135	0,025	1,038	13,351	2,933
Ground Storey	W4	2	1,000	2,770	5,540	2,41	0,51	North East	0,170	3,970	1,135	0,021	1,038	13,351	2,933
Ground Storey	W5	1	1,000	2,770	2,770	2,41	0,51	North East	0,000	4,388	1,560	0,000	1,090	6,676	1,540
Ground Storey	W6	4	0,765	2,080	6,365	2,41	0,51	North East	0,600	2,460	0,365	0,244	0,728	15,339	2,363
Ground Storey	W7	2	0,800	1,430	2,288	2,41	0,51	North East	0,600	1,490	0,000	0,403	0,580	5,514	0,677
Ground Storey	W8	1	1,000	2,770	2,770	2,41	0,51	South East	0,170	3,815	0,988	0,022	0,916	6,676	1,294
Ground Storey	W9	1	0,800	1,065	0,852	2,41	0,51	South East	0,615	1,175	0,747	0,262	0,664	2,053	0,289
Ground Storey	W10	1	1,520	2,080	3,162	2,41	0,51	South East	0,380	2,810	0,690	0,068	0,838	7,619	1,351
Ground Storey	W11	2	0,800	2,445	3,912	2,41	0,51	South East	0,630	3,040	0,540	0,104	0,790	9,428	1,576
Ground Storey	W12	1	1,945	2,445	4,756	2,41	0,51	North West	0,000	4,070	1,565	0,000	1,160	11,461	2,813
Ground Storey	W13	1	0,765	2,445	1,870	2,41	0,51	South West	0,000	2,870	0,360	0,000	1,040	4,508	0,992
Ground Storey	W14	1	1,950	3,020	5,889	2,41	0,51	North West	0,610	3,700	0,620	0,082	0,980	14,192	2,943
Ground Storey	W15	2	3,080	0,450	2,772	2,41	0,51	North West	0,950	2,750	2,300	0,173	0,860	6,681	1,216
Ground Storey	W16	2	0,505	1,215	1,227	2,41	0,51	North West	0,600	1,897	0,680	0,158	0,880	2,957	0,551
Ground Storey	W17	1	2,660	2,770	7,368	2,41	0,51	South West	3,660	3,300	0,470	1,109	0,350	17,757	1,315
Ground Storey	W18	1	2,300	0,680	1,564	2,41	0,51	North West	0,000	0,785	0,040	0,000	1,160	3,769	0,925

Door Schedule

NOTE: ALL TIMBER TO BE TREATED AGAINST UV AND WATER

Door Nr.	D2	D1	FD	ID	D3	D5	D6
Total Quantity	1	1	1	5	1	1	2
Frame	Aluminium	Aluminium	Mild Steel Frame	Aluminium	Aluminium	Aluminium	Aluminium
Code	ANP 3055	ANP 3055	FIRE DOOR	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
Glass	None	Sandblasted	None	Sandblasted	Sandblasted	Sliding Door	Sliding Door
Size	2514x4800	3050x1330	2160x813	2160x883	2125x813	3630X2465	2100X1515

GLASS NOTE:
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.

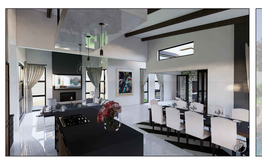
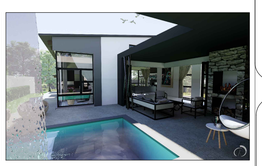
NOMINAL THICKNESS OF GLASS IN MM	MAXIMUM SIZE OF PANE IN SQUARE METERS
3	0.75
4	1.5
5	2.1

Window Schedule

Window Nr.	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18
Total Quantity	2	1	2	2	1	4	2	1	1	1	2	1	1	1	2	2	1	1
Frame	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	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	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	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	Single Clear	Single Clear	Single Clear	Single Clear	Single Clear	Single Clear
Size	2295X400	2830X1290	2770X1000	2770X1000	2770X1000	2080X765	1430X800	2770X1000	1065X800	2080X1520	2445X800	2445X1945	2445X765	3020X1950	3080X450	1215X505	2770X2660	2300X680





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 INDISTINCTNESS 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 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 KK5 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 OR CONTRACTOR 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 SHALL BE SUITABLE FOR THE USE THEREOF AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION.

DRAWING STATUS
Working Plans

ZONING: RESIDENTIAL 1

ARCHITECTS

domus and Associates Architects
(Pty) Ltd
@ Office, 67 BRINK STREET
OFFICE 25
P.O. BOX 1360, RUSTENBURG
TEL: 014 592 1960 FAX: 0866177275

PROJECT:
Erf 2225, Blue Wildebeest Street
Schoongezicht Estate, Cashan Ext 7
Rustenburg

DRAWING DESCRIPTION:
Council Drawings
Site & Floor layout

SACAP No - 21044

DRAWN:	SCALE:
E.T	See plan
DATE:	REVISION:
11/10/2022	01
PROJECT NO.:	DRAWING NO.:
222-5	103