

STRUCTURAL CONCRETE ESTIMATE

PROJECT: PROPOSED RESIDENTIAL FLAT DEVELOPMENT ON PLOT LR NO.,

PLOT: LR NO. YYYYYYYYYYYYYY_____

NAIROBI COUNTY.

CLIENT: XXXXXXXXXXXXXXXX

P.O BOX,

_____, KENYA.

DATE: FEB 2025.

**PROPOSED RESIDENTIAL FLAT DEVELOPMENT ON PLOT LR NO. YYYYYY COUNTY FOR
XXXXXXXXXXXXXXXXXXXX**

JOB: D01:02:2025		CONCRETE ESTIMATE SUMMARY		
Bending Schedule	Date:	02/25/2025		
(B.S 8666:2005)	Done by:	D.Kamau	Checked by	Eng.TMN
TOTAL STRUCTURAL CONCRETE REQUIRED				
S.NO		Volume of Concrete Required (m^3)	Weight of Concrete Required (KG)	E/r
1	FOUNDATION (SUB-SURFACE)	179.02	429652.80	
2	GROUND TO TERRACE	1160.60	2785441.20	
3	ROOF	15.22	36537.60	
TOTAL		1354.85	3251631.60	

**PROPOSED RESIDENTIAL FLAT DEVELOPMENT ON PLOT LR
NO. YYYYYY COUNTY FOR XXXXXXXXXXXXXXXXXXXX**

JOB: D01:02:2025				CONCRETE VOLUME TAKE-OFF					
Bending Schedule				Date:	45713.00				
(B.S 8666:2005)				Done by:	D.Kamau		Checked by		Eng.TMN
Member	Quantity	Length (m)	Width (m)	Depth (m)	Area (m^2)	Volume (m^3)	Volume of Concrete Required (m^3)	Weight of Concrete Required (KG)	E/r
FOUNDATION BASES									
Base B1	4	2.90	2.90	0.65	8.41	5.47	21.87	52478.40	
Base B2	12	2.40	2.40	0.55	5.76	3.17	38.02	91238.40	
Base B3	8	2.20	2.20	0.5	4.84	2.42	19.36	46464.00	
Base B4	14	1.90	1.90	0.45	3.61	1.62	22.74	54583.20	
Base B5	17	1.80	1.80	0.4	3.24	1.30	22.03	52876.80	
Base B6	2	4.50	2.00	0.6	9.00	5.40	10.80	25920.00	
Base B7	2	3.60	2.50	0.6	9.00	5.40	10.80	25920.00	
Base B8	2	4.00	2.10	0.55	8.40	4.62	9.24	22176.00	
Retaining Wall Footing	1	40.00	1.20	0.3	48.00	14.40	14.40	34560.00	
TOTAL								406216.80	

SUB-SURFACE COLUMNS									
Member	Quantity	Length (m)	Width (m)	Depth (m)	Area (m^2)	Volume (m^3)	Volume of Concrete Required (m^3)	Weight of Concrete Required (KG)	E/r
Column C1	2	1.00	0.40	0.5	0.20	0.20	0.40	960.00	
Column C2	2	1.00	0.40	0.5	0.20	0.20	0.40	960.00	
Column C3	6	1.00	0.40	0.4	0.16	0.16	0.96	2304.00	
Column C4	6	1.00	0.40	0.4	0.16	0.16	0.96	2304.00	
Column C5	6	1.00	0.40	0.4	0.16	0.16	0.96	2304.00	
Column C6	9	1.00	0.40	0.4	0.16	0.16	1.44	3456.00	
Column C7	3	1.00	0.40	0.4	0.16	0.16	0.48	1152.00	
Column C8	17	1.00	0.35	0.35	0.12	0.12	2.08	4998.00	
Column C9	17	1.00	0.35	0.35	0.12	0.12	2.08	4998.00	
TOTAL								23436.00	

**PROPOSED RESIDENTIAL FLAT DEVELOPMENT ON PLOT LR
NO. YYYYYY COUNTY FOR XXXXXXXXXXXXXXXXXXXX**

JOB: D01:02:2025	CONCRETE VOLUME TAKE-OFF			
Bending Schedule	Date:	45713.00		
(B.S 8666:2005)	Done by:	D.Kamau	Checked by	Eng.TMN

RAMP, GROUND BEAM & RETAINING WALL

Member	Quantity	Length (m)	Width (m)	Depth (m)	Area (m^2)	Volume (m^3)	Volume of Concrete Required (m^3)	Weight of Concrete Required (KG)	E/r
Ground Beam	1	480.00	0.20	0.4	0.08	38.40	38.40	92160.00	
Retaining Wall	1	1.00	0.20	40	8.00	8.00	8.00	19200.00	
Ground Floor Ramp	1	n/a	n/a	0.15	97.00	14.55	14.55	34920.00	
TOTAL								146280.00	

STAIRCASE (GROUND TO 1ST FLOOR)

Member	Quantity	Length (m)	Width (m)	Depth (m)	Area (m^2)	Volume (m^3)	Volume of Concrete Required (m^3)	Weight of Concrete Required (KG)	E/r
STARTER	1	1.60	0.60	0.4	0.96	0.38	0.38	921.60	
FLIGHT 01	1	3.60	1.50	0.22	5.40	1.19	1.19	2851.20	
LANDING	1	3.00	1.60	0.18	4.80	0.86	0.86	2073.60	
FLIGHT 02	1	3.60	1.50	0.22	5.40	1.19	1.19	2851.20	
TOTAL								8697.60	

COLUMNS (GROUND TO 1ST FLOOR)

Member	Quantity	Length (m)	Width (m)	Depth (m)	Area (m^2)	Volume (m^3)	Volume of Concrete Required (m^3)	Weight of Concrete Required (KG)	E/r
Column C1	2	5.00	0.40	0.5	2.00	1.00	2.00	4800.00	
Column C2	2	3.00	0.40	0.5	1.20	0.60	1.20	2880.00	
Column C3	6	5.00	0.40	0.4	2.00	0.80	4.80	11520.00	
Column C4	6	3.00	0.40	0.4	1.20	0.48	2.88	6912.00	
Column C5	6	5.00	0.40	0.4	2.00	0.80	4.80	11520.00	
Column C6	9	5.00	0.40	0.4	2.00	0.80	7.20	17280.00	
Column C7	3	3.00	0.40	0.4	1.20	0.48	1.44	3456.00	
Column C8	17	5.00	0.35	0.35	1.75	0.61	10.41	24990.00	
Column C9	17	3.00	0.35	0.35	1.05	0.37	6.25	14994.00	
TOTAL								98352.00	

1ST FLOOR BEAMS & SLAB

Member	Quantity	Length (m)	Width (m)	Depth (m)	Area (m^2)	Volume (m^3)	Volume of Concrete Required (m^3)	Weight of Concrete Required (KG)	E/r
Beam 01	1	19.00	0.35	0.8	6.65	5.32	5.32	12768.00	
Beam 02	1	4.80	0.20	0.55	0.96	0.53	0.53	1267.20	
Beam 03	1	250.00	0.20	0.5	50.00	25.00	25.00	60000.00	
Beam 04	1	95.00	0.20	0.45	19.00	8.55	8.55	20520.00	
Beam 05	1	50.00	0.20	0.45	10.00	4.50	4.50	10800.00	
Beam 06	1	18.50	0.20	0.45	3.70	1.67	1.67	3996.00	
SLAB	1	N/A	N/A	0.15	734.69	110.20	110.20	264488.40	
TOTAL								373839.60	