

**Cost Analysis by Element**

ADVCA-EXAMP: Advanced Cost Analysis Example

Element - Construction area [M2 ] 205.64

Using Price: Estimate Link Build-up Price

For ALL Locations

Code	Description	Cost R	Quantity	Unit	Cost per Unit R	Cost per M2 R	Cost %
<b>1</b>	<b>1 - PRIMARY ELEMENTS</b>	<b>1 168 324</b>	-			<b>5 681.41</b>	<b>76.25%</b>
1-1	100 - FOUNDATIONS	88 645	53.09	M2	1 669.71	431.07	5.79%
1-2	101 - GROUND FLOOR CONSTRUCTION	26 897	53.09	M2	506.64	130.80	1.76%
1-3	102 - STRUCTURAL FRAME	348 862	174.59	M2	1 998.18	1 696.47	22.77%
1-4	103 - INDEPENDENT STRUCTURAL COMPONENTS	1	252.17	M2	0.00	0.00	0.00%
1-5	104 - EXTERNAL ENVELOPE	265 886	252.17	M2	1 054.39	1 292.97	17.35%
1-6	105 - ROOFS	28 149	62.55	M2	450.02	136.88	1.84%
1-7	106 - INTERNAL DIVISIONS	34 136	45.44	M2	751.22	166.00	2.23%
1-8	107 - PARTITIONS	20 444	40.59	M2	503.67	99.42	1.33%
1-9	108 - FLOOR FINISHES	103 680	98.09	M2	1 056.99	504.18	6.77%
1-10	109 - INTERNAL WALL FINISHES	40 692	312.45	M2	130.24	197.88	2.66%
1-11	110 - CEILINGS AND SOFFITS	43 472	152.55	M2	284.97	211.40	2.84%
1-12	111 - FITTINGS	151 000	11.41	M2	13 234.01	734.29	9.86%
1-14	113 - INTERNAL PLUMBING	6 938	3.00	NO	2 312.73	33.74	0.45%
1-15	114 - FIRE SERVICES	5 638	3.00	NO	1 879.17	27.41	0.37%
1-16	115 - BALUSTRADING, ETC	3 885	14.50	M	267.93	18.89	0.25%
<b>2</b>	<b>2 - SPECIAL INSTALLATIONS</b>	<b>341 250</b>	-			<b>1 659.45</b>	<b>22.27%</b>
2-3	202 - RAISED ACCESS FLOORS	341 250	104.55	M2	3 263.99	1 659.45	22.27%
<b>4</b>	<b>4 - EXTERNAL WORKS</b>	<b>22 634</b>	-			<b>110.06</b>	<b>1.48%</b>
4-1	400 - SOIL DRAINAGE	4 439	50.00	M	88.77	21.58	0.29%
4-10	409 - EARTHWORKS	18 195	119.00	M3	152.90	88.48	1.19%
	<b>TOTAL</b>	<b>1 532 208</b>				<b>7 450.92</b>	<b>100.00%</b>
	<b>GRAND TOTAL</b>	<b>1 532 208</b>				<b>7 450.92</b>	<b>100.00%</b>

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1-1	100 - FOUNDATIONS	88 645	53.09	M2	1 669.71	431.07	5.79%
1.2	600 x 300 mm Strip footings 500mm deep	2 375		M			
1.4	2000 x 2000 x 600mm Base 1000mm deep	61 186		NO			
1.6	CC Walls	5 094		M2			
2.7	Extra over for excavation in soft rock (10%	3 330		M3			
2.8	Extra over for excavation in hard rock (10%	6 660		M3			
2.9	Keeping excavations free of water	10 000		ITEM			
1-2	101 - GROUND FLOOR CONSTRUCTION	26 897	53.09	M2	506.64	130.80	1.76%
3.3	100mm R concrete surface beds on 250	19 928		M2			
3.4	600 x 150mm Thickening out of concrete	6 126		M			
3.5	Expansion joints	844		M			
1-3	102 - STRUCTURAL FRAME	348 862	174.59	M2	1 998.18	1 696.47	22.77%
4.2	255mm Slabs, including smooth formwork	273 408		M2			
4.3	Smth fwk sides: Edges, risers, ends and	11 520		M			
4.5	500 x 300mm Columns	54 823		M			
4.6	230 x 510mm Beams including rough formwork	9 111		M			
1-4	103 - INDEPENDENT STRUCTURAL COMPONENTS	1	252.17	M2	0.00	0.00	0.00%
5.2	**T B DESCRIBD** Staircases, including	1		NO			
1-5	104 - EXTERNAL ENVELOPE	265 886	252.17	M2	1 054.39	1 292.97	17.35%
6.2	One-brick walls	85 620		M2			
6.3	Walls	32 684		M2			
6.4	Plaster & pnt to ext walls	35 280		M2			
7.5	Window 597 x 706mm high (W1)	3 745		NO			
7.6	Window 1702 x 1274mm high (W3)	29 125		NO			
7.8	Shopfront	-3 097		NO			
7.9	40mm Framed batten door 813 x 2032mm	54 255		NO			
7.10	40mm Framed batten door 2400 x 2125mm	28 274		NO			
1-6	105 - ROOFS	28 149	62.55	M2	450.02	136.88	1.84%
8.2	Rafters & purlins	102		M2			
8.3	Roof coverings with pitches not exceeding 25	19 260		M2			
8.4	Hip	8 181		M			
8.5	Ridge	606		M			
1-7	106 - INTERNAL DIVISIONS	34 136	45.44	M2	751.22	166.00	2.23%
10.2	One-brick clay brick walls	4 077		M2			
10.3	Half -brick clay brick walls	5 833		M2			
10.4	Standard Solid core door comm venee 110	23 245		NO			
10.6	Door closer	980		NO			
1-8	107 - PARTITIONS	20 444	40.59	M2	503.67	99.42	1.33%
11.2	BPB 3,25 Drywall 1/30: Partitioning 3,30m high	12 192		M			
11.3	BPB 3,2 Drywall 1/30: Extra over partition	280		NO			

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11.5	BPB 3,2 Drywall 1/30: Extra over partition	135		NO			
11.8	E o BPB 3,2 Drywall 1/30: Door 813 x 2032 Al	7 837		NO			
1-9	108 - FLOOR FINISHES	103 680	98.09	M2	1 056.99	504.18	6.77%
12.3	Vinyl tiles, including 30mm screed	45 000		M2			
12.4	500 x 500mm Protex : On existing vinyl floors	57 000		M2			
12.5	Meranti Skirtings incl varnish	1 680		M			
1-10	109 - INTERNAL WALL FINISHES	40 692	312.45	M2	130.24	197.88	2.66%
13.2	Plaster & DVel to walls	40 424		M2			
13.3	WGT On walls	268		M2			
1-11	110 - CEILINGS AND SOFFITS	43 472	152.55	M2	284.97	211.40	2.84%
14.2	Plaster and PVA paint to soffits of slabs	30 600		M2			
14.3	Gypsum board ceilings, including PVA paint	11 403		M2			
14.5	75 mm Rhinoboard	1 040		M			
14.6	"SM25" pre-painted cornices, nailed	429		M			
1-12	111 - FITTINGS	151 000	11.41	M2	13 234.01	734.29	9.86%
15.2	Cupboards ?m high	25 000		M2			
15.4	Pigeon hole fittings	114 000		NO			
16.5	Kitchen floor units	6 000		M			
16.7	Kitchen wall units	6 000		M			
1-14	113 - INTERNAL PLUMBING	6 938	3.00	NO	2 312.73	33.74	0.45%
18.2	560 x 400mm "Springbok 0112" two taphole	1 407		NO			
18.3	"Vaal" Low level WC suite comprising "Protea	1 241		NO			
18.5	Citimetal "Monarch Model SC1200" sink	664		NO			
18.6	450 x 600mm Mirror	400		NO			
18.7	Sanitary fitting sundries	498		NO			
18.8	Sanitary plumbing	121		NO			
18.9	Cold water supplies	288		NO			
19.10	Hot water supplies	192		NO			
19.11	150 Litre geyser	2 127		NO			
1-15	114 - FIRE SERVICES	5 638	3.00	NO	1 879.17	27.41	0.37%
20.2	9kg Extinguishers	1 050		NO			
20	30m Fire hose reels	2 819		NO			
20.3	Class 12 "HDPE" pipes 32mm Pipes laid in	1 769		M			
1-16	115 - BALUSTRADING, ETC	3 885	14.50	M	267.93	18.89	0.25%
21.6	Galvanised steel balustrading ??mm high	3 885		M			
<b>2</b>	<b>2 - SPECIAL INSTALLATIONS</b>	<b>341 250</b>	<b>-</b>			<b>1 659.45</b>	<b>22.27%</b>
2-3	202 - RAISED ACCESS FLOORS	341 250	104.55	M2	3 263.99	1 659.45	22.27%
24.2	Suspended floors	341 250		M2			
<b>4</b>	<b>4 - EXTERNAL WORKS</b>	<b>22 634</b>	<b>-</b>			<b>110.06</b>	<b>1.48%</b>
4-1	400 - SOIL DRAINAGE	4 439	50.00	M	88.77	21.58	0.29%
40.2	110mm Diameter uPVC pipes average 1m deep	4 439		M			

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4-10	409 - EARTHWORKS	18 195	119.00	M3	152.90	88.48	1.19%
49.2	Site excavation, including bulk levelling and	18 195		M3			
	<b>TOTAL</b>	<b>1 532 208</b>				<b>7 450.92</b>	<b>100.00%</b>
	<b>GRAND TOTAL</b>	<b>1 532 208</b>				<b>7 450.92</b>	<b>100.00%</b>