

## Relatório quantitativos de vigas

Obra: AMPLIAÇÃO CÂMARA MUNICIPAL DE BURITAMA

Data: 15/11/2019 15:19:54

Materiais:

Concreto: C25, em geral

Aço: CA-50 e CA-60

	A.neg. kg	A.pos. kg	A.pele kg	A.est. kg	Total kg	Ø5 kg	Ø10 kg	Ø12.5 kg	V.conc. m <sup>3</sup>
<b>BALDRAME</b>									
V 1	20.7	22.2		7.5	50.4	7.5	6.4	36.5	0.704
V 2	14.6	20.2		7.5	42.3	7.5	14.6	20.2	0.704
V 3	5.7	9.0		3.4	18.1	3.4	5.7	9.0	0.333
V 4	3.2	5.0		1.5	9.7	1.5	3.2	5.0	0.169
V 5	2.9	5.0		1.7	9.6	1.7	2.9	5.0	0.153
V 6	5.9	9.0		3.4	18.3	3.4	5.9	9.0	0.333
V 7	4.6	6.9		2.5	14.0	2.5	4.6	6.9	0.249
V 8	5.9	9.0		3.4	18.3	3.4	5.9	9.0	0.333
V 9	5.9	9.0		3.4	18.3	3.4	5.9	9.0	0.333
V 10	5.9	9.0		3.4	18.3	3.4	5.9	9.0	0.333
V 11	5.9	9.0		3.4	18.3	3.4	5.9	9.0	0.333
V 12	5.9	9.0		3.4	18.3	3.4	5.9	9.0	0.333
V 13	4.6	6.9		2.5	14.0	2.5	4.6	6.9	0.249
V 14	6.3	10.1		3.9	20.3	3.9	6.3	10.1	0.368
V 15	5.9	9.0		3.4	18.3	3.4	5.9	9.0	0.333
V 16	75.0	69.5		27.7	172.2	27.7		144.5	2.611
V 17	33.9	49.7		19.7	103.3	19.7	33.9	49.7	1.879
V 18	8.2	12.1		4.9	25.2	4.9	8.2	12.1	0.467
V 19	19.9	29.9		12.4	62.2	12.4	19.9	29.9	1.152
V 20	5.8	8.9		3.2	17.9	3.2	5.8	8.9	0.331
V 21	5.0	7.6		2.9	15.5	2.9	5.0	7.6	0.274
V 22	26.1	38.8		10.7	75.6	10.7	9.7	55.2	1.016
Total BALDRAME	277.8	364.8		135.8	778.4	135.8	172.1	470.5	12.990
<b>COBERTURA</b>									
V 1	13.3	22.1		9.0	44.4	9.0	18.1	17.3	0.704
V 2	13.2	12.2		7.5	32.9	7.5	25.4		0.704
V 3	6.1	5.7		2.9	14.7	2.9	11.8		0.200
V 4	3.4	3.2		1.3	7.9	1.3	6.6		0.101
V 5	3.0	3.2		1.4	7.6	1.4	6.2		0.092
V 6	6.1	5.7		2.9	14.7	2.9	11.8		0.200
V 7	4.8	4.4		2.1	11.3	2.1	9.2		0.149
V 8	6.1	5.7		2.9	14.7	2.9	11.8		0.200
V 9	6.1	5.7		2.9	14.7	2.9	11.8		0.200
V 10	6.1	5.7		2.9	14.7	2.9	11.8		0.200
V 11	6.1	5.7		2.9	14.7	2.9	11.8		0.200
V 12	6.1	5.7		2.9	14.7	2.9	11.8		0.200
V 13	4.8	4.4		2.2	11.4	2.2	9.2		0.149
V 14	6.5	6.4		3.3	16.2	3.3	12.9		0.223
V 15	6.1	8.6		2.9	17.6	2.9	14.7		0.200
V 16	24.3	25.0	3.8	11.6	64.7	15.4	9.6	39.7	0.880
V 17	47.9	44.6		27.6	120.1	27.6	92.5		2.611
V 18	36.2	36.5		20.1	92.8	20.1	72.7		1.130
V 19	9.4	8.6		4.9	22.9	4.9	18.0		0.467
V 20	20.0	19.1		10.4	49.5	10.4	39.1		0.691

	A.neg. kg	A.pos. kg	A.pele kg	A.est. kg	Total kg	Ø5 kg	Ø10 kg	Ø12.5 kg	V.conc. m <sup>3</sup>
V 21	5.9	5.7		2.7	14.3	2.7	11.6		0.198
V 22	5.2	4.8		2.5	12.5	2.5	10.0		0.164
V 23	10.7	8.5		4.9	24.1	4.9	19.2		0.463
V 24	28.2	28.2		13.5	69.9	13.5	21.2	35.2	1.131
Total COBERTURA	285.6	285.4	3.8	148.2	723.0	152.0	478.8	92.2	11.457
BASE RESERVATÓRIO									
V 1	3.4	3.2		1.3	7.9	1.3	6.6		0.101
V 2	3.5	3.2		1.4	8.1	1.4	6.7		0.101
V 3	5.2	7.5		3.2	15.9	3.2	5.2	7.5	0.164
V 4	9.8	10.6		3.7	24.1	3.7	1.5	18.9	0.274
Total BASE RESERVATÓRIO	21.9	24.5		9.6	56.0	9.6	20.0	26.4	0.640
RESERVATÓRIO									
V 1	3.3	3.4		1.4	8.1	1.4	6.7		0.076
V 2	3.5	3.4		1.5	8.4	1.5	6.9		0.076
V 3	4.9	5.0		2.4	12.3	2.4	9.9		0.124
V 4	4.9	5.0		3.0	12.9	3.0	9.9		0.205
Total RESERVATÓRIO	16.6	16.8		8.3	41.7	8.3	33.4		0.481
Total Obra	601.9	691.5	3.8	301.9	1599.1	305.7	704.3	589.1	25.568

- A.neg.: Armadura negativa
- A.pos.: Armadura positiva
- A.pele: Arm. pele
- A.est.: Arm. estribos

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Data: 15/11/2019 15:19:54

Materiais:

Concreto: C25, em geral

Aço: CA-50 e CA-60

Resumo de quantitativos (+10%)

	Tipo Aço	Ø5 kg	Ø10 kg	Ø12.5 kg	Total kg
BALDRAME	CA-50 e CA-60	149.4	189.3	517.6	856.3
COBERTURA	CA-50 e CA-60	167.2	526.7	101.4	795.3
BASE RESERVATÓRIO	CA-50 e CA-60	10.6	22.0	29.0	61.6
RESERVATÓRIO	CA-50 e CA-60	9.1	36.7		45.8
Total Obra		336.3	774.7	648.0	1759.0