



Cobertura  
 Desenho de vigas  
 Concreto: C25, com desfech.  
 Aço das barras: CA-50 e CA-60  
 Aço dos estribos: CA-50 e CA-60  
 Escala vigas 1:25  
 Escala seções 1:25  
 Escala aberturas 1:25

Resumo Aço	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø6	1234.9	536	
Ø10	225.1	153	816
Ø12.5	120.0	127	249
CA-60 Ø5	1442.0	249	
<b>Total:</b>			<b>1065</b>

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (kg)	CA-50 (kg)	CA-60 (kg)	
V-30	1	Ø12.5	2	[Diagram]	700	1410	13.6		
	2	Ø8	3	[Diagram]	240	480	1.0		
	3	Ø12.5	2	[Diagram]	804	1712	16.5		
	4	Ø8	2	[Diagram]	804	1712	8.8		
	5	Ø5	30	[Diagram]	136	4080		6.4	
					<b>Total=1052</b>	<b>42.7</b>	<b>7.0</b>		
V-31	1	Ø10	1	[Diagram]	230	230	1.4		
	2	Ø8	2	[Diagram]	350	1100	4.2		
	3	Ø8	2	[Diagram]	400	1200	4.7		
	4	Ø5	18	[Diagram]	114	2204		3.5	
					<b>Total=1052</b>	<b>11.4</b>	<b>3.9</b>		
V-32	1	Ø8	2	[Diagram]	270	432	1.8		
	2	Ø8	2	[Diagram]	270	432	1.8		
	3	Ø5	8	[Diagram]	96	534		0.0	
					<b>Total=1052</b>	<b>3.5</b>	<b>1.0</b>		
V-33	1	Ø12.5	2	[Diagram]	300	300	2.0		
	2	Ø10	2	[Diagram]	407	814	5.4		
	3	Ø8	2	[Diagram]	390	780	3.1		
	4	Ø8	2	[Diagram]	872	1744	6.9		
	5	Ø5	30	[Diagram]	114	3480		5.5	
					<b>Total=1052</b>	<b>20.4</b>	<b>6.1</b>		
V-34	1	Ø12.5	3	[Diagram]	310	930	9.0		
	2	Ø12.5	1	[Diagram]	170	170	1.6		
	3	Ø8	2	[Diagram]	350	710	2.8		
	4	Ø8	2	[Diagram]	300	600	2.2		
	5	Ø8	2	[Diagram]	1035	2070	8.2		
	6	Ø8	2	[Diagram]	350	700	2.6		
	7	Ø8	2	[Diagram]	350	700	2.6		
	8	Ø8	2	[Diagram]	315	630	2.3		
	9	Ø8	2	[Diagram]	250	500	2.0		
	10	Ø5	44	[Diagram]	96	4224		6.8	
					<b>Total=1052</b>	<b>26.1</b>	<b>7.3</b>		
V-35	1	Ø8	2	[Diagram]	265	530	2.1		
	2	Ø8	2	[Diagram]	370	740	2.5		
	3	Ø5	12	[Diagram]	96	1152		1.8	
					<b>Total=1052</b>	<b>5.1</b>	<b>2.0</b>		
V-36	1	Ø8	2	[Diagram]	330	670	2.4		
	2	Ø10	2	[Diagram]	140	280	1.4		
	3	Ø8	2	[Diagram]	490	1350	5.5		
	4	Ø10	2	[Diagram]	210	420	2.8		
	5	Ø8	2	[Diagram]	1043	2086	8.2		
	6	Ø10	2	[Diagram]	425	850	2.8		
	7	Ø10	2	[Diagram]	300	600	2.0		
	8	Ø5	40	[Diagram]	136	6844		10.5	
					<b>Total=1052</b>	<b>27.8</b>	<b>11.6</b>		
V-37	1	Ø8	2	[Diagram]	180	360	2.2		
	2	Ø8	2	[Diagram]	230	460	1.8		
	3	Ø10	2	[Diagram]	500	1000	4.2		
	4	Ø8	2	[Diagram]	861	1722	6.8		
	5	Ø10	2	[Diagram]	300	600	2.3		
	6	Ø10	2	[Diagram]	250	500	1.8		
	7	Ø5	30	[Diagram]	136	5304		6.3	
					<b>Total=1052</b>	<b>22.8</b>	<b>9.1</b>		
V-38	1	Ø12.5	1	[Diagram]	190	190	1.8		
	2	Ø10	2	[Diagram]	480	960	5.0		
	3	Ø8	2	[Diagram]	440	880	3.8		
	4	Ø8	2	[Diagram]	521	1042	7.3		
	5	Ø10	1	[Diagram]	430	430	2.1		
	6	Ø5	42	[Diagram]	136	5712		9.0	
					<b>Total=1052</b>	<b>25.3</b>	<b>9.9</b>		
V-39	1	Ø12.5	1	[Diagram]	470	470	3.5		
	2	Ø8	2	[Diagram]	583	1166	4.6		
	3	Ø8	2	[Diagram]	321	642	2.5		
	4	Ø10	2	[Diagram]	313	626	3.0		
	5	Ø10	2	[Diagram]	160	320	1.2		
	6	Ø5	26	[Diagram]	136	3536		5.8	
						<b>Total=1052</b>	<b>17.5</b>	<b>6.2</b>	
	V-40	1	Ø12.5	1	[Diagram]	160	160	1.7	
		2	Ø8	2	[Diagram]	185	370	1.7	
		3	Ø8	2	[Diagram]	380	760	3.0	
4		Ø10	2	[Diagram]	260	520	3.2		
5		Ø8	2	[Diagram]	230	460	1.7		
6		Ø8	2	[Diagram]	330	660	3.2		
7		Ø8	2	[Diagram]	300	600	2.8		
8		Ø12.5	1	[Diagram]	280	280	2.7		
9		Ø5	10	[Diagram]	106	2014		3.2	
10		Ø5	14	[Diagram]	96	1344		2.1	
					<b>Total=1052</b>	<b>22.2</b>	<b>8.8</b>		
V-41	1	Ø8	2	[Diagram]	215	430	1.8		
	2	Ø12.5	1	[Diagram]	165	165	1.6		
	3	Ø10	2	[Diagram]	440	880	3.8		
	4	Ø8	2	[Diagram]	450	900	3.8		
	5	Ø8	2	[Diagram]	908	1816	7.2		
	6	Ø8	2	[Diagram]	370	740	2.8		
	7	Ø8	2	[Diagram]	320	640	2.5		
	8	Ø5	30	[Diagram]	96	3744		5.9	
					<b>Total=1052</b>	<b>22.2</b>	<b>8.8</b>		
V-42	1	Ø10	1	[Diagram]	100	100	0.9		
	2	Ø8	2	[Diagram]	400	1204	4.8		
	3	Ø8	2	[Diagram]	400	1204	4.7		
	4	Ø8	1	[Diagram]	170	170	0.7		
	5	Ø5	20	[Diagram]	96	2400		3.8	
					<b>Total=1052</b>	<b>22.2</b>	<b>9.2</b>		
V-43	1	Ø10	1	[Diagram]	285	285	1.8		
	2	Ø8	4	[Diagram]	558	2232	13.6		
	3	Ø5	20	[Diagram]	114	3584		5.3	
					<b>Total=1052</b>	<b>16.9</b>	<b>5.8</b>		
					<b>Total=1052</b>	<b>167.4</b>	<b>36.4</b>		
					<b>Total=1052</b>	<b>167.4</b>	<b>36.4</b>		
					<b>Total=1052</b>	<b>167.4</b>	<b>36.4</b>		
					<b>Total=1052</b>	<b>167.4</b>	<b>36.4</b>		

**PROJETO ESTRUTURAL**  
 ENG. CIVIL VICTOR DANIEL SANTOS  
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 CNPJ: 06.948.888/0001-00  
 INSC. ESTADUAL: 06.948.888-00

CONTEN: continuação de vigas de cobertura

FOLHA 23/24

OBRA: Sede Administrativa do Município de Serra Azul de Minas - MG  
 Avenida Getúlio Vargas de São, N. 94, Centro, Serra Azul de Minas-MG CEP: 38.165-000