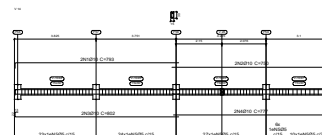
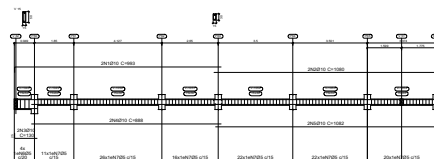
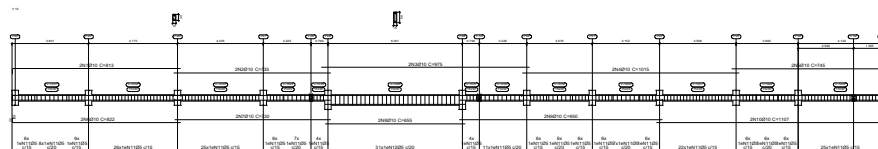
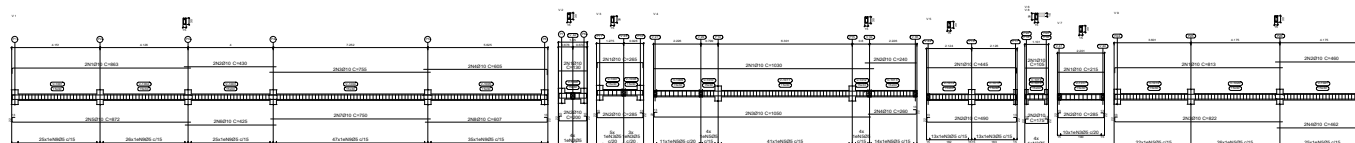
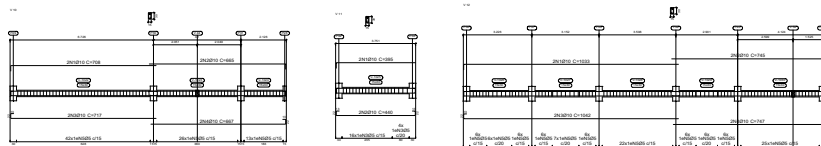


1 Detalhamento - Vigas Térreo
ESCALA 1:100

Térreo
Desenho de vigas
Concreto: C30, em geral
Apo das barras: CA-50 e CA-60
Escala vigas 1:100
Escala aberturas 1:100



Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)	Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 11	1	Ø10	2		365	790	4.9		V 1	1	Ø10	2		863	1726	10.8	
	2	Ø10	2		442	884	5.4			2	Ø10	2		440	880	5.3	
	3	Ø5	24		76	1590		2.4		3	Ø10	2		755	1510	9.3	
					Total 100%	11.3	2.8							Total 100%	25.4	19.3	
V 12	1	Ø10	2		1035	2069	12.7		V 2	1	Ø10	2		130	260	1.6	
	2	Ø10	2		745	1490	9.2			2	Ø10	2		200	400	2.5	
	3	Ø10	2		1242	2484	15.4			3	Ø5	4		76	312	0.5	
	4	Ø10	2		747	1494	9.2							Total 100%	4.5	5.8	
	5	Ø5	102		76	1590		12.5	1	Ø10	2		265	530	3.3		
					Total 100%	48.3	15.8							Total 100%	25.5	37.5	1.0
V 13	1	Ø10	2		613	1226	10.0		V 3	2	Ø10	2		76	312	0.5	
	2	Ø10	2		755	1510	9.1			3	Ø5	4		76	312	0.5	
	3	Ø10	2		975	1950	12.2							Total 100%	7.5	1.1	
	4	Ø10	2		1015	2030	12.5		V 4	1	Ø10	2		1035	2070	12.7	
	5	Ø10	2		745	1490	9.2			2	Ø10	2		240	480	3.0	
	6	Ø10	2		822	1644	10.1			3	Ø10	2		1250	2500	15.9	
	7	Ø10	2		730	1460	9.0			4	Ø10	2		260	520	3.2	
	8	Ø10	2		855	1710	9.1			5	Ø5	14		76	312	0.5	
	9	Ø10	2		950	1900	11.7							Total 100%	30.0	10.0	
	10	Ø10	2		1107	2214	13.6		V 5	1	Ø10	2		445	890	5.5	
	11	Ø5	205		76	1590		25.1		2	Ø10	2		490	980	6.0	
	12	Ø5	31		116	2304		6.7		3	Ø5	26		76	312	0.5	
					Total 100%	115.8	35.9								Total 100%	17.7	9.5
V 14	1	Ø10	2		793	1586	9.8		V 6	1	Ø10	2		105	210	1.3	
	2	Ø10	2		750	1500	9.2			2	Ø10	2		175	350	2.2	
	3	Ø10	2		822	1644	9.9			3	Ø5	4		76	312	0.5	
	4	Ø10	2		777	1554	9.6							Total 100%	3.9	9.8	
	5	Ø5	30		76	1520		11.0	1	Ø10	2		215	430	2.6		
					Total 100%	42.4	12.1		V 7	2	Ø10	2		265	530	3.3	
V 15	1	Ø10	2		963	1926	12.2			3	Ø5	10		76	312	0.5	
	2	Ø10	2		1080	2160	13.3							Total 100%	7.8	1.2	
	3	Ø10	2		130	260	1.6		V 8	1	Ø10	2		813	1626	10.0	
	4	Ø10	2		888	1776	10.9			2	Ø10	2		460	920	5.7	
	5	Ø10	2		1082	2164	13.3			3	Ø10	2		822	1644	10.1	
					Total 100%	106.4	16.5			4	Ø10	2		462	924	5.7	
V 16	1	Ø10	4		250	1000	6.2			5	Ø5	73		76	312	0.5	
	2	Ø5	13		76	1514		1.6						Total 100%	27.3	10.9	
					Total 100%	6.8	1.8		V 9	1	Ø10	2		708	1416	8.7	
V 17	1	Ø10	2		963	1926	12.2			2	Ø10	2		685	1370	8.2	
	2	Ø10	2		1080	2160	13.3			3	Ø10	2		717	1434	8.6	
	3	Ø10	2		130	260	1.6			4	Ø10	2		687	1374	8.2	
	4	Ø10	2		888	1776	10.9			5	Ø5	41		76	312	0.5	
					Total 100%	106.4	16.5							Total 100%	27.3	10.9	
V 18	1	Ø10	2		963	1926	12.2		V 10	1	Ø10	2		708	1416	8.7	
	2	Ø10	2		1080	2160	13.3			2	Ø10	2		685	1370	8.2	
	3	Ø10	2		130	260	1.6			3	Ø10	2		717	1434	8.6	
	4	Ø10	2		888	1776	10.9			4	Ø10	2		687	1374	8.2	
					Total 100%	106.4	16.5							Total 100%	27.3	10.9	
V 19	1	Ø10	2		963	1926	12.2		V 11	1	Ø10	2		963	1926	12.2	
	2	Ø10	2		1080	2160	13.3			2	Ø10	2		1080	2160	13.3	
	3	Ø10	2		130	260	1.6			3	Ø10	2		130	260	1.6	
	4	Ø10	2		747	1494	9.2			4	Ø10	2		888	1776	10.9	
					Total 100%	106.4	16.5							Total 100%	106.4	16.5	
V 20	1	Ø10	2		963	1926	12.2		V 12	1	Ø10	2		1035	2070	12.7	
	2	Ø10	2		1080	2160	13.3			2	Ø10	2		745	1490	9.2	
	3	Ø10	2		130	260	1.6			3	Ø10	2		1242	2484	15.4	
	4	Ø10	2		747	1494	9.2			4	Ø10	2		747	1494	9.2	
					Total 100%	106.4	16.5							Total 100%	48.3	15.8	
V 21	1	Ø10	2		963	1926	12.2		V 13	1	Ø10	2		613	1226	10.0	
	2	Ø10	2		1080	2160	13.3			2	Ø10	2		755	1510	9.1	
	3	Ø10	2		130	260	1.6			3	Ø10	2		975	1950	12.2	
	4	Ø10	2		747	1494	9.2			4	Ø10	2		1015	2030	12.5	
					Total 100%	106.4	16.5							Total 100%	48.3	15.8	
V 22	1	Ø10	2		963	1926	12.2		V 14	1	Ø10	2		793	1586	9.8	
	2	Ø10	2		1080	2160	13.3			2	Ø10	2		750	1500	9.2	
	3	Ø10	2		130	260	1.6			3	Ø10	2		822	1644	9.9	
	4	Ø10	2		747	1494	9.2			4	Ø10	2		777	1554	9.6	
					Total 100%	106.4	16.5							Total 100%	42.4	12.1	
V 23	1	Ø10	2		963	1926	12.2		V 15	1	Ø10	2		963	1926	12.2	
	2	Ø10	2		1080	2160	13.3			2	Ø10	2		1080	2160	13.3	
	3	Ø10	2		130	260	1.6			3	Ø10	2		130	260	1.6	
	4	Ø10	2		888	1776	10.9			4	Ø10	2		888	1776	10.9	
					Total 100%	106.4	16.5							Total 100%	106.4	16.5	
V 24	1	Ø10	2		963	1926	12.2		V 16	1	Ø10	2		963	1926	12.2	
	2	Ø10	2		1080	2160	13.3			2	Ø10	2		1080	2160	13.3	
	3	Ø10	2		130	260	1.6			3	Ø10	2		130	260	1.6	
	4	Ø10	2		888	1776	10.9			4	Ø10	2		888	1776	10.9	
					Total 100%	106.4	16.5							Total 100%	106.4	16.5	
V 25	1	Ø10	2		963	1926	12.2		V 17	1	Ø10	2		963	1926	12.2	
	2	Ø10	2		1080	2160	13.3			2	Ø10	2		1080	2160	13.3	
	3	Ø10	2		130	260	1.6			3	Ø10	2		130	260	1.6	
	4	Ø10	2		888	1776	10.9			4	Ø10	2		888	1776	10.9	
					Total 100%	106.4	16.5							Total 100%	106.4	16.5	
V 26	1	Ø10	2		963	1926	12.2		V 18	1	Ø10	2		963	1926	12.2	
	2	Ø10	2		1080	2160	13.3			2	Ø10	2		1080	2160	13.3	
	3	Ø10	2		130	260	1.6			3	Ø10	2		130	260	1.6	
	4	Ø10	2		888	1776	10.9			4	Ø10	2		888	1776	10.9	
					Total 100%	106.4	16.5							Total 100%	106.4	16.5	
V 27	1	Ø10	2		963	1926	12.2		V 19	1	Ø10	2		963	1926	12.2	
	2	Ø10	2		1080	2160	13.3			2	Ø10	2		1080	2160	13.3	
	3	Ø10	2		130	260	1.6			3	Ø10	2		130	260	1.6	
	4	Ø10	2		888	1776	10.9			4	Ø10	2					