


















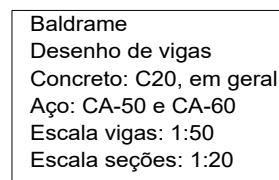
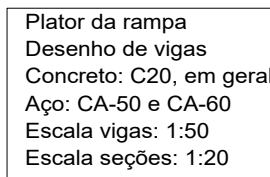


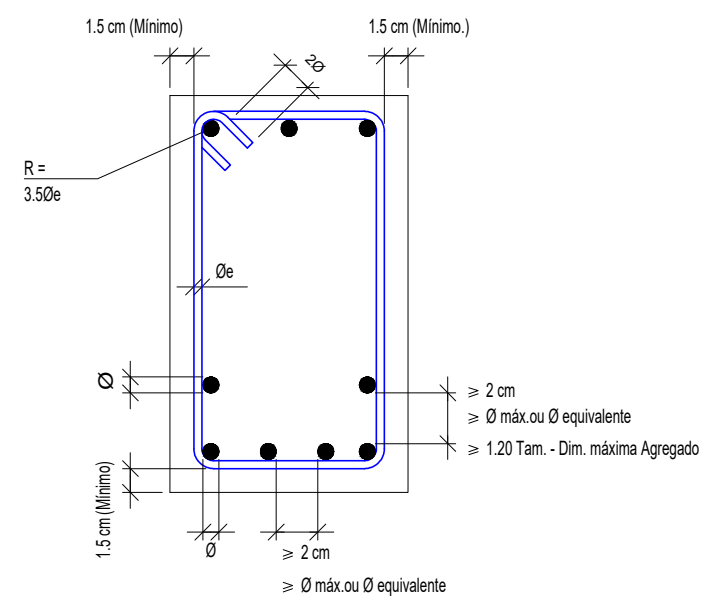
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reda (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Escada 1-Tramo 1	1	Ø8	9	243	243	243	2187	8.6		
	2	Ø8	9	245	245	245	2205	8.7		
	3	Ø8	10	159	159	159	1386	0.4		
								Total=10%	29.4	
								Ø8:	29.4	0.0
								Total:	29.4	0.0
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)		
V 1	1	Ø10	4		377	1508	0.3			
	2	Ø5	20		88	1780		2.8		
								Total=10%	10.2	3.1
V 2	1	Ø10	2		308	616	3.8			
	2	Ø10	2		333	666	4.1			
	3	Ø5	17		88	1496		2.3		
								Total=10%	8.7	2.5
V 3	1	Ø10	4		352	1448	8.7			
	2	Ø5	18		88	1584		2.5		
								Total=10%	9.6	2.8
V 4	1	Ø10	2		180	378	2.3			
	2	Ø10	2		214	428	2.6			
	3	Ø5	10		88	880		1.4		
								Total=10%	0.4	1.5
V 5	1	Ø10	2		240	480	3.6			
	2	Ø10	2		290	580	3.0			
	3	Ø5	11		88	968		1.5		
								Total=10%	1.7	1.7
V 6	1	Ø10	2		54	108	0.7			
	2	Ø10	2		104	208	1.3			
	3	Ø5	2		88	176		0.3		
								Total=10%	2.2	0.3
V 7	1	Ø10	2		143	286	1.8			
	2	Ø10	2		183	366	2.4			
	3	Ø5	7		88	616		1.0		
								Total=10%	4.6	1.1
								Ø10:	0.0	13.0
								Ø10:	48.0	0.0
								Total:	48.0	13.0



Resumo Aço Baldrame Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø6.3	33.6	9	
Ø12.5	18.2	19	28



Resumo Aço Plator da rampa Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø6.3	79.8	21	
Ø12.5	43.1	46	67



NOTAS : A EXECUÇÃO DAS ESTRUTURAS DEVERÃO SEGUIR NBR 14931:2003:

- *CONFERIR TRAÇO DO CONCRETO
- *NÃO TIRAR MEDIDAS EM ESCALA
- *NÃO CONCRETAR SEM VISTORIA DO RESPONSÁVEL TÉCNICO
- *PREVER Furos e PASSAGENS EM LAJES e VIGAS
- *CONSULTAR PROJETO DE HIDRAÚLICA e ELÉTRICA
- *CONSULTAR PROJETO DE ARQUITETURA P/ CORTAS e CURVAS
- *CONFERIR MEDIDAS NA OBRA (CURVAS e CHANFROS)
- *QUALQUER MODIFICAÇÃO DEVE SER AUTORIZADA POR ESCRITO
- *CUIDADO ESPECIAL COM OS COBERTIMENTOS
- *USAR EQUIPAMENTOS DE PLATACÃO DO CONCRETO
- *SOLICITAR CORPOS DE PROVA ADICIONAIS N° >3
- *RELAÇÃO ÁGUA/CIEMTO EM MASSA = MENOR OU IGUAL À 0,55

ESTACAS	20 MPA
FUNDAÇÃO	25 MPA
PILARES	25 MPA
VIGAS	25 MPA

[illegible]