

Technical drawings of 36 different types of reinforced concrete beams (VT1a to VT31a) showing cross-sections, reinforcement details, and dimensions. Each drawing includes a title, a scale (ESC 1:50), and a set of dimensions for the beam's geometry and reinforcement.

The beams are arranged in a grid, with some having multiple views (e.g., VT10a, VT11a, VT12a, VT13a, VT14a, VT15a, VT17b, VT18a, VT19a, VT20a, VT21a, VT22a, VT23a, VT24a, VT26a, VT27a, VT28a, VT29a, VT30a, VT30b, VT30c, VT30d, VT30e, VT31b, VT31c, VT32a, VT33a, VT34a, VT34b, VT34c, VT34d, VT31a).

Relação do aço						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
11xVT1a	CA60	1	TR 12645	11	247	2717
	CA60	2	4.2	11	255	2805
11xVT2a	CA60	1	TR 12645	11	246	2706
	CA60	2	4.2	11	254	2794
11xVT3a	CA60	1	TR 12645	11	255	2805
	CA60	2	4.2	11	263	2893
11xVT4a	CA60	1	TR 12645	11	280	3080
	CA60	2	5.0	11	290	3191
11xVT5a	CA60	1	TR 12645	11	191	2101
	CA60	2	4.2	11	199	2189
11xVT6a	CA60	1	TR 12645	11	292	3212
	CA60	2	4.2	22	300	6600
0xVT7a	CA60	1	TR 12645	10	253	2530
	CA60	2	4.2	10	261	2610
VT7b	CA60	1	TR 12645	1	252	252
	CA60	2	4.2	1	260	260
11xVT8a	CA60	1	TR 12645	11	244	2684
	CA60	2	4.2	11	252	2772
11xVT9a	CA60	1	TR 12645	11	220	2420
	CA60	2	4.2	11	228	2508
57xVT10a	CA60	1	TR 12645	57	239	13623
	CA60	2	4.2	57	247	14079
12xVT11a	CA60	1	TR 12645	12	214	2568
	CA60	2	4.2	12	222	2664
15xVT12a	CA60	1	TR 12645	15	257	3855
	CA60	2	4.2	15	265	3975
VT12b	CA60	1	TR 12645	1	256	256
	CA60	2	4.2	1	264	264
11xVT13a	CA60	1	TR 12645	11	217	2387
	CA60	2	4.2	11	225	2475
VT13b	CA60	1	TR 12645	1	216	216
	CA60	2	4.2	1	224	224
12xVT14a	CA60	1	TR 12645	12	220	2640
	CA60	2	4.2	12	228	2736
12xVT15a	CA60	1	TR 12645	12	218	2616
	CA60	2	4.2	12	226	2712
13xVT16a	CA60	1	TR 12645	13	206	2678
	CA60	2	4.2	13	214	2782
12xVT17a	CA60	1	TR 12645	12	308	3696
	CA60	2	4.2	24	316	7584
29xVT17b	CA60	1	TR 12645	29	229	6641
	CA60	2	4.2	29	237	6873
13xVT18a	CA60	1	TR 12645	13	222	2886
	CA60	2	4.2	13	230	2990
13xVT19a	CA60	1	TR 12645	13	225	2925
	CA60	2	4.2	13	233	3029
13xVT20a	CA60	1	TR 12645	13	206	2678
	CA60	2	4.2	13	214	2782
12xVT21a	CA60	1	TR 12645	12	437	5244
	CA50	2	10.0	24	456	10944
12xVT22a	CA60	1	TR 12646	12	441	5292
	CA50	2	10.0	12	460	5520
23xVT23a	CA60	1	TR 12645	23	247	5681
	CA60	2	4.2	23	255	5865
23xVT24a	CA60	1	TR 12645	23	245	5635
	CA60	2	4.2	23	253	5819
12xVT25a	CA60	1	TR 12645	12	289	3468
	CA60	2	5.0	12	299	3588
12xVT26a	CA60	1	TR 12645	12	288	3456
	CA60	2	5.0	12	298	3576
12xVT27a	CA60	1	TR 12645	12	295	3540
	CA60	2	4.2	24	303	7272
12xVT28a	CA60	1	TR 12645	12	197	2364
	CA60	2	4.2	12	205	2460
13xVT29a	CA60	1	TR 12645	13	259	3367
	CA60	2	4.2	13	267	3471

3xVT30a	CA60	1	TR 12645	3	253	759
3xVT30b	CA60	1	TR 12645	3	254	762
3xVT30c	CA60	1	TR 12645	3	256	768
3xVT30d	CA60	1	TR 12645	3	257	771
VT30e	CA60	1	TR 12645	1	258	258
12xVT31a	CA60	1	TR 12645	12	193	2316
	CA60	2	5,0	12	203	2436
VT31b	CA60	1	TR 12645	1	193	193
	CA60	2	5,0	2	203	406
31xVT31c	CA60	1	TR 12645	31	336	10416
	CA60	2	5,0	62	346	21452
6xVT32a	CA60	1	TR 12645	6	216	1296
	CA60	2	4,2	6	224	1344
3xVT33a	CA60	1	TR 12645	3	90	270
	CA60	2	4,2	3	98	294
2xVT34a	CA60	1	TR 12645	2	258	516
2xVT34b	CA60	1	TR 12645	2	257	514
2xVT34c	CA60	1	TR 12645	2	255	510
2xVT34d	CA60	1	TR 12645	2	254	508

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10,0	164,7	101,5
CA60	TR 12645	1267,9	1128,4
	TR 12646	53	53,8
	4,2	1071,3	116,5
	5,0	346,5	53,4
PESO TOTAL (kg)			
CA50	101,5		
CA60	1352,1		

			CREA/CAU
05	DMM/AAAA	Retirada de pendência	
04	DMM/AAAA	Retirada de pendência	
03	DMM/AAAA	Retirada de pendência	
02	DMM/AAAA	Retirada de pendência	
01	08/01/2015	Emissão Inicial	
Revisão:	Data:	Descrição:	
MATRIZ: Rua Santa Cecilia, 84 - Sala 09 Centro - Euzebio CE - CEP:61.760-000 Fone/Fax: (85) 3021-1818 FILIAL: Av. Santos Dumont, 1740 - Sala 1112/1114 Aldéia - Fortaleza CE - CEP:60.150-161 Fone/Fax: (85) 3021-1818 www.techproj.com.br contato@techproj.com.br			
Obras:	Reforma/Apliação - MercadoMunicipal São Gonçalo do Amarante		
Cliente:	Prefeitura de São Gonçalo do Amarante	Projeto:	Estrutura em Concreto Armado
Identificação dos desenhos: MERCADO SGA - REFORMA ARMAÇÃO VIGOTAS PRÉ-MOLDADAS			Prancha: 26
Desenho: CRISTIANE	Escala: Indicada	Data: NOVEMBRO/15	Local: São Gonçalo do Amarante / CE