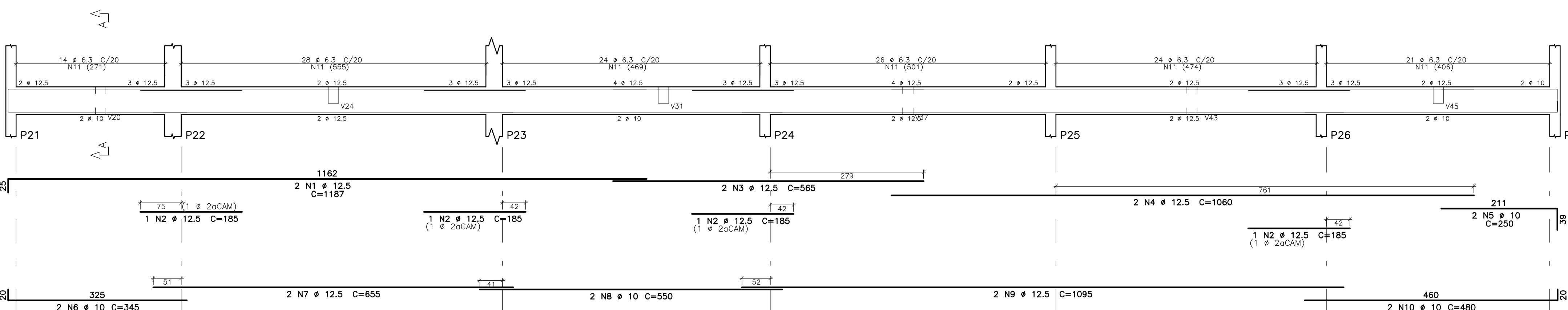
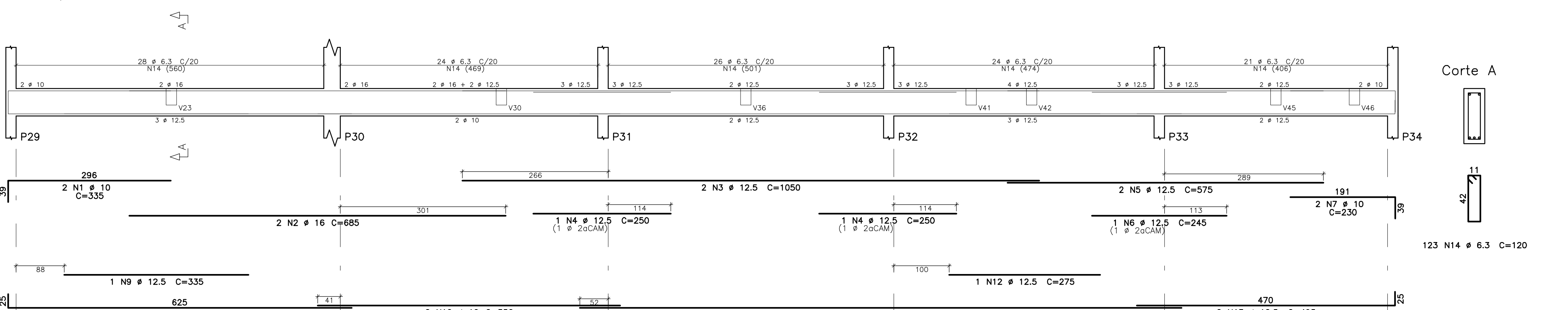


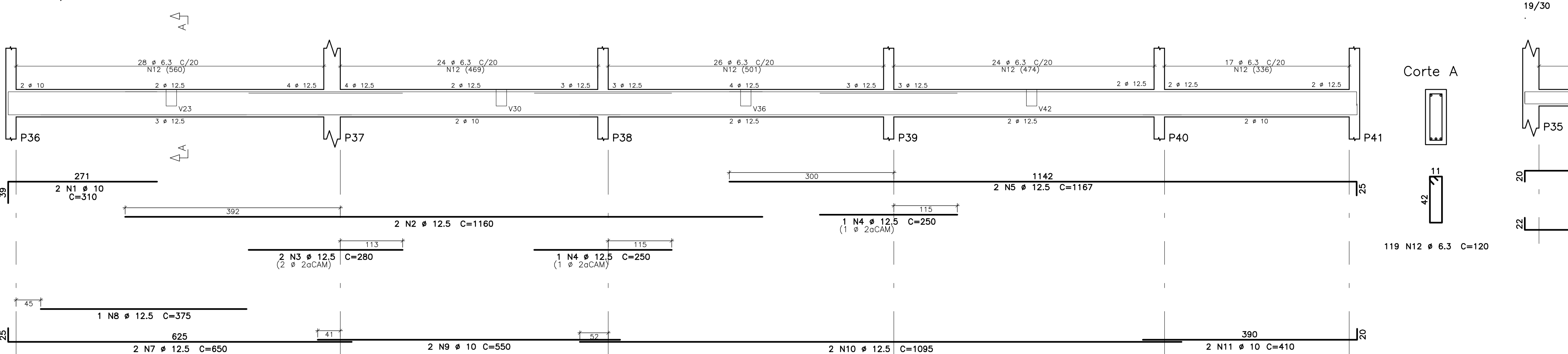
V10 19/50



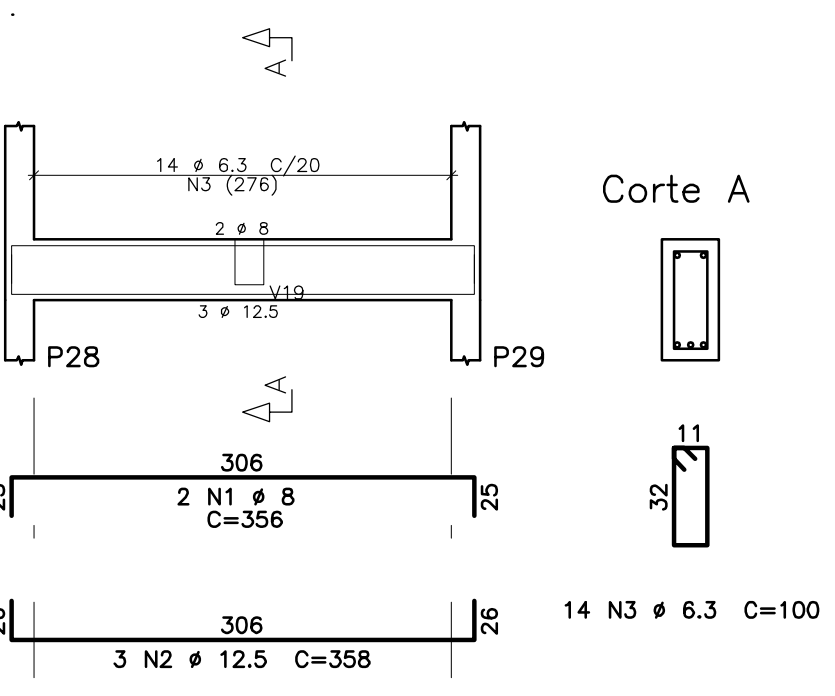
V12 19/50



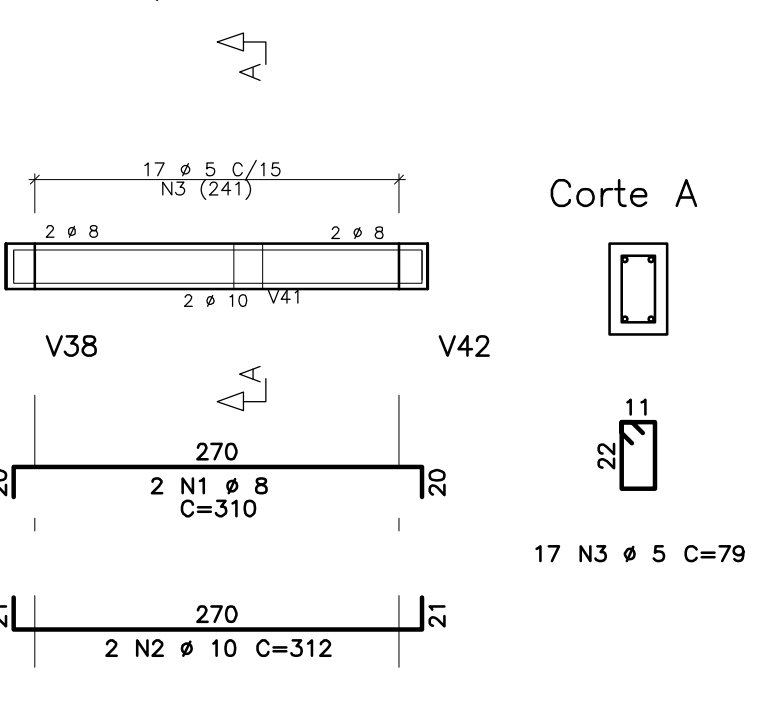
V16 19/50



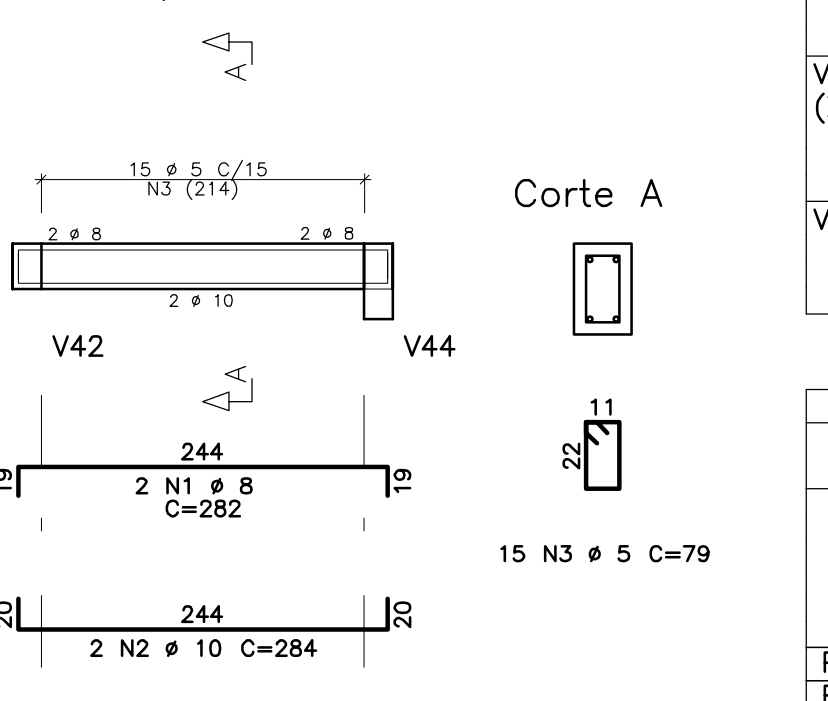
V11=V15 19/40



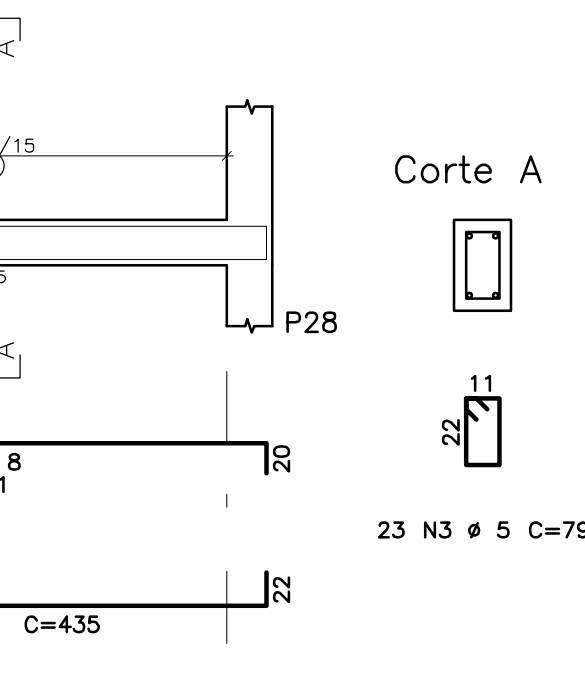
V13 19/30



V14 19/30



V17=V19=V21=V23=V24=V28aV31=V34aV36=V46 19/30



V22 19/50

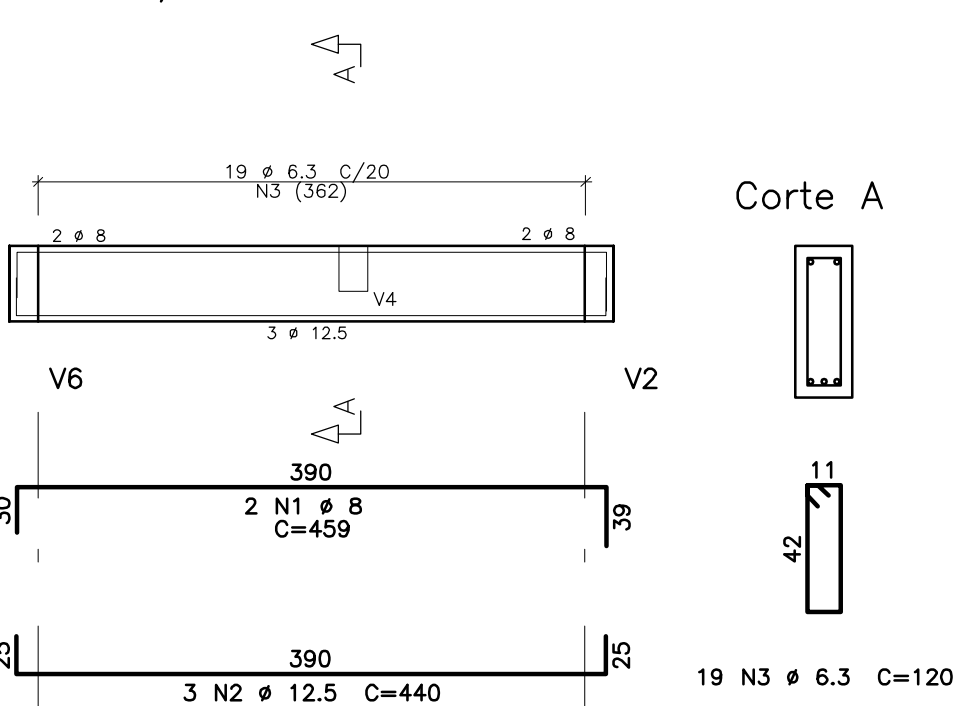
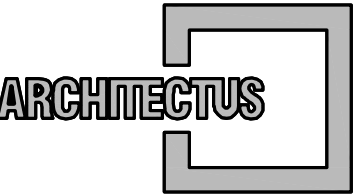


TABELA DE FERROS				
ELEM.	POS.	BIT. (mm)	QUANT.	COMPRIMENTO UNIT (cm) TOTAL (cm)
V10	1	12.5	2	1187 2374
	2	12.5	2	185 740
	3	12.5	2	565 1130
	4	12.5	2	1060 2120
	5	10	4	250 500
	6	10	2	345 690
	7	12.5	2	655 1310
	8	10	2	550 1100
	9	12.5	2	1095 2190
	10	10	2	960 1920
	11	6.3	137	120 16440
V11=V15 (X2)	2	12.5	4	356 1424
	3	6.3	28	100 2168
	2	12.5	4	356 1424
V12	1	10	2	335 670
	2	16	2	685 1370
	3	12.5	2	1050 2100
	4	12.5	4	250 500
	5	12.5	5	575 1150
	6	12.5	1	245 245
	7	10	2	330 660
	8	12.5	2	650 1300
	9	12.5	2	335 670
	10	10	2	550 1100
	11	12.5	2	1095 2190
	12	12.5	2	275 550
	13	12.5	2	495 990
	14	6.3	123	120 14760
V13	1	8	2	310 620
	2	10	2	312 624
	3	5	17	79 1343
V14	1	8	2	282 564
	2	10	2	284 568
	3	5	15	79 1185
V16	1	10	2	310 620
	2	12.5	2	1160 2320
	3	12.5	2	280 560
	4	12.5	2	250 500
	5	12.5	2	1167 2334
	6	12.5	2	650 1300
	7	12.5	1	375 375
	8	12.5	1	375 375
	9	10	2	550 1100
	10	12.5	2	1095 2190
	11	10	2	410 820
	12	6.3	118	120 14280
V17=V19=V21=V23=V24=V28aV31=V34aV36=V46 (X13)	1	8	2	431 11206
	2	12.5	26	435 11310
	3	5	299	79 23621
V22	1	8	2	459 918
	2	12.5	3	440 1320
	3	6.3	19	120 2280

RESUMO AÇO CA 50-60		
BITOLA (mm)	COMPR (m)	PESO (kg)
5	261	40
6.3	506	124
8	147	58
10	92	57
12.5	433	417
16	14	22
Peso Total	60	40 kg
Peso Total	50	= 678 kg



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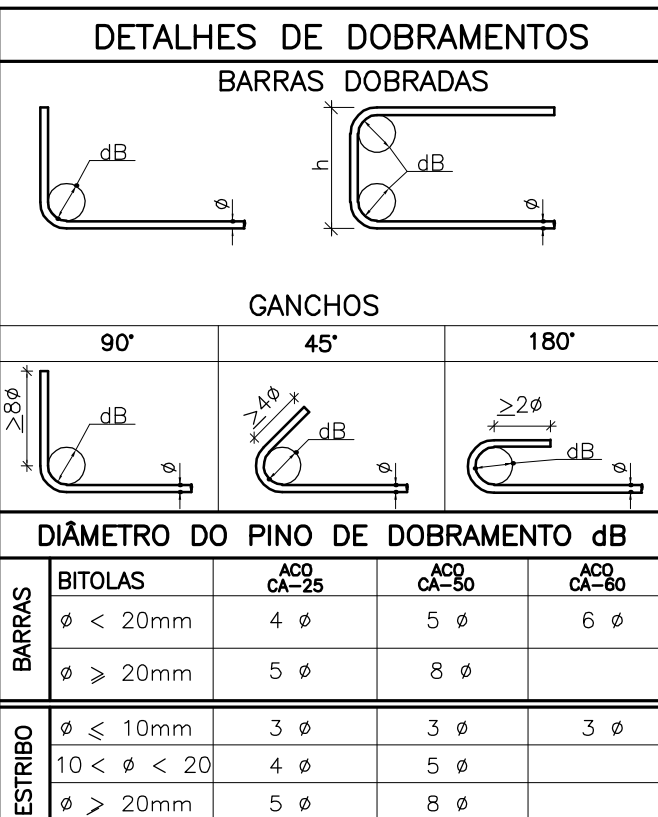


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NOTAS

- 01 - MEDIDAS EM CENTIMETROS
- 02 - TABELA DE ARMADURA SEM A CONSIDERAÇÃO DE PERDAS
- 03 - COBRIMENTO VIGAS BALDRAMES = 4,0 cm.

DETALHES CONSTRUTIVOS:



DIÂMETRO DO PINO DE DOBRAMENTO dB

BITOLAS	4 Ø	5 Ø	6 Ø
Ø < 20mm	4 Ø	5 Ø	6 Ø
Ø ≥ 20mm	5 Ø	6 Ø	6 Ø

ESTRIBO	Ø ≤ 10mm	3 Ø	3 Ø	3 Ø
	10 < Ø < 20	4 Ø	5 Ø	6 Ø
	Ø ≥ 20mm	5 Ø	6 Ø	6 Ø