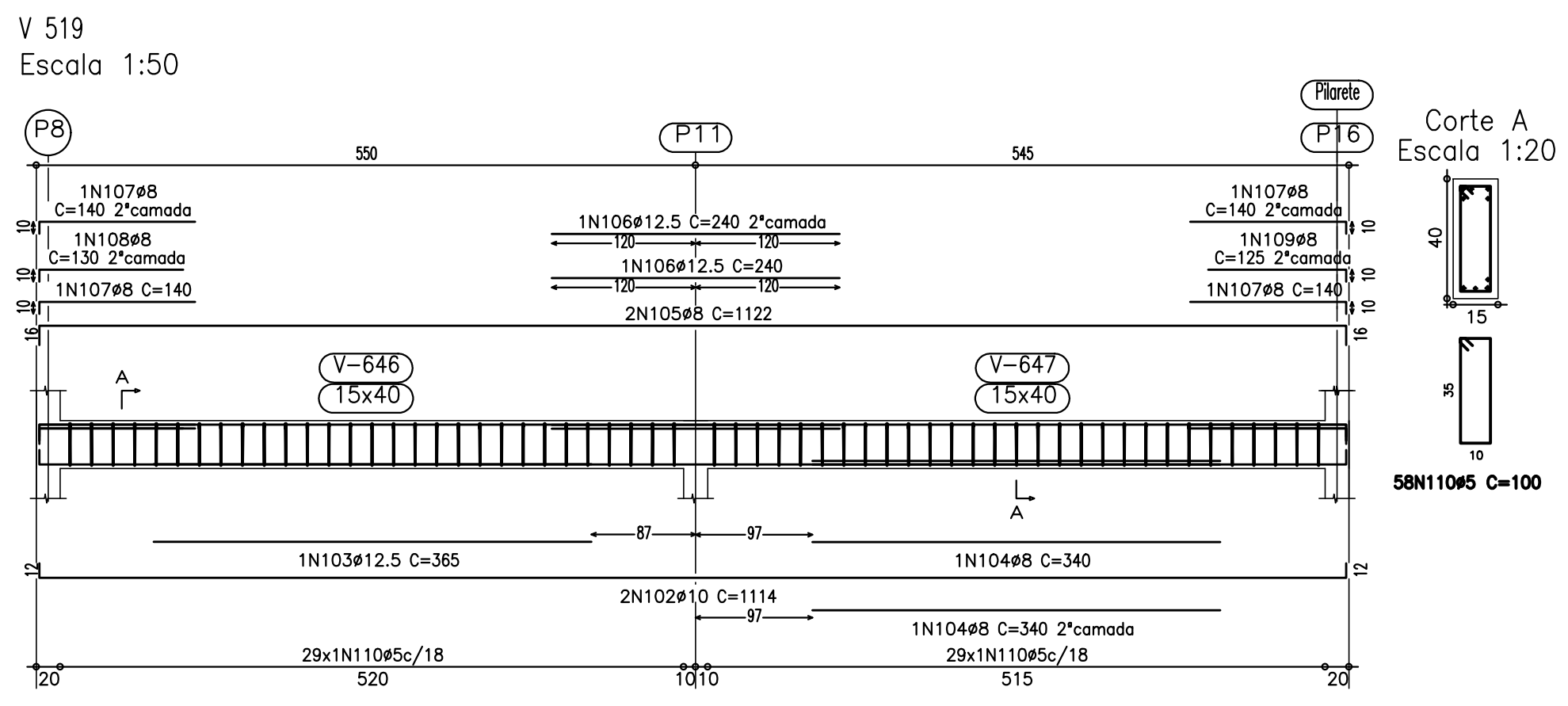
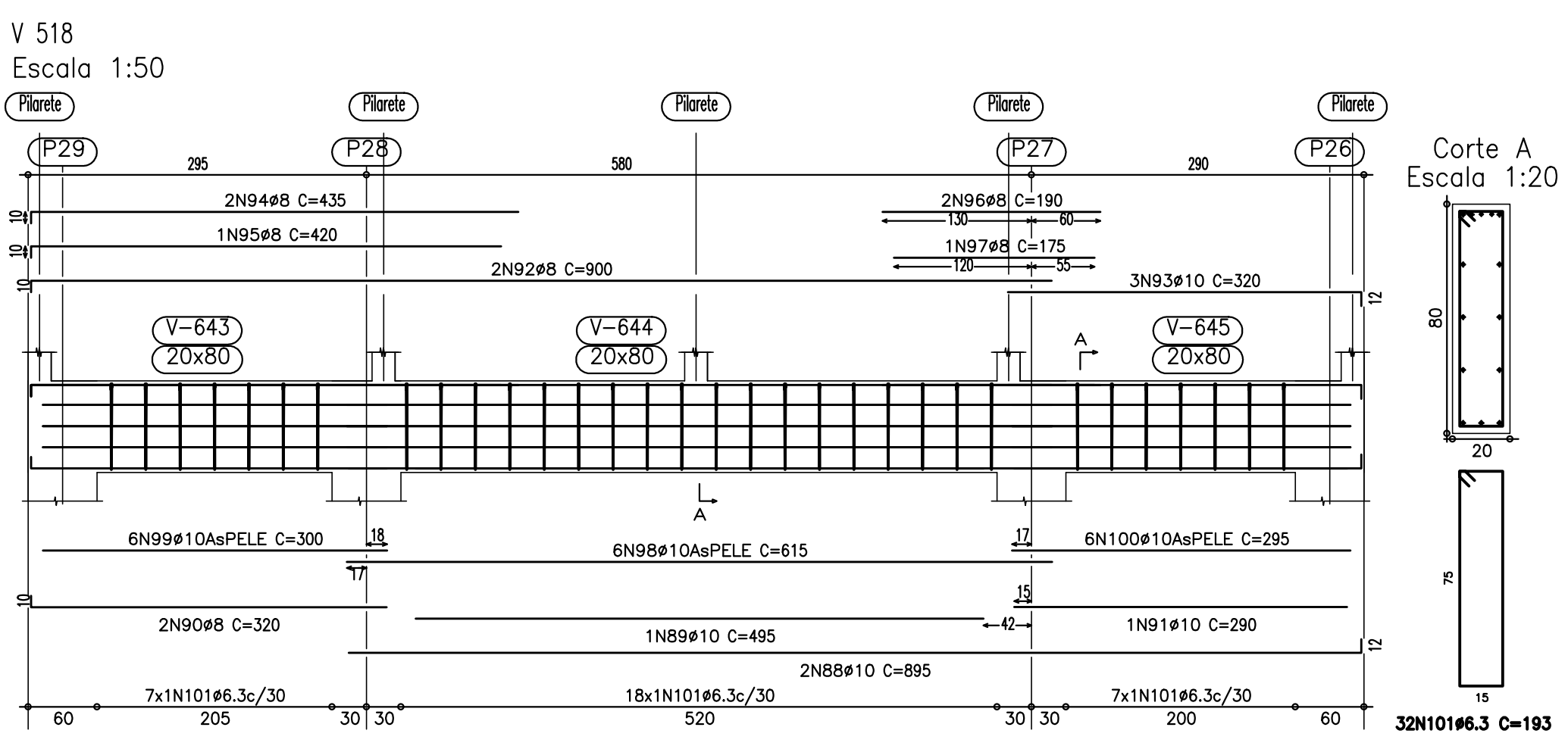
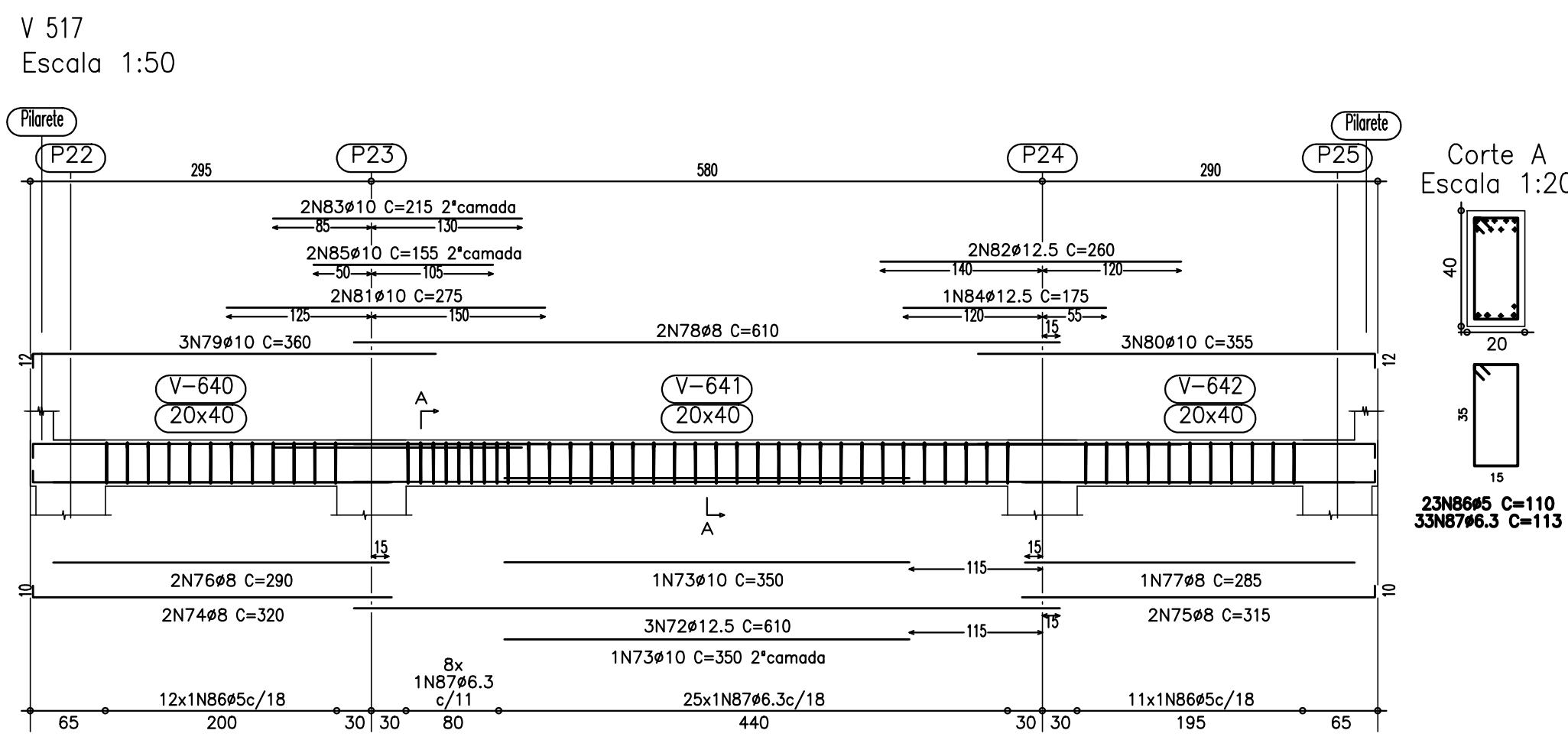


DETALHE TÍPICO DA FIXAÇÃO DAS BARRAS FLUTUANTES DE 2ª CAMADA

VIGAS COM CASO DE BARRAS FLUTUANTES:

V517

Resumo Aço	Comp. total	Peso+10%	Total
Fixação das Armaduras de 2ª Camada	1.80	4.8	4.8
Total			4.8



Nota:
Planta de referência: Prancha 18/64

Elemento	Pos.	Diam.	Q.	Dob.(cm)	Ret.(cm)	Dob.(cm)	Comp.(cm)	Comp.(cm)	Comp.(cm)	(kg)	(kg)	
v512	15	#10	2	12	325	12	349	698	4.4			
	16	#10	1	17	498	2	315	315	2.0			
	17	#8	2	10	315	10	330	650	2.6			
	18	#10	6	16	318	12	330	1980	12.4			
	19	#5	12	10	190	2280					3.6	
Total+10%: 108.7											4.0	
v513	122	#12.5	2	10	585		585	1170	11.5			
	123	#12.5	2	10	580		580	1160	11.4			
	124	#10	2	12	410	12	434	868	5.5			
	125	#10	1	10	385		385	385	2.4			
	126	#10	2	12	388		400	800	5.0			
	127	#8	2	10	580		580	1160	4.6			
	128	#10	3	12	438	12	450	1350	8.5			
	129	#8	3	10	415		425	1275	5.0			
	130	#10	2	10	285		285	570	3.7			
	131	#10	3	10	285		285	855	5.4			
	132	#10	2	10	220		220	440	2.8			
	133	#10	2	10	185		185	370	2.3			
	134	#10	2	10	175		175	350	2.2			
	135	#8	2	10	110		120	240	0.9			
	136	#10	6	10	390		390	2340	14.7			
	137	#5	14	10	134		134	1876		2.9		
	138	#6.3	24	10	193		137	3288	8.1			
	139	#6.3	12	10	193		193	1930	4.8			
	Total+10%: 108.7											3.2
	v514	27	#10	4	10	610		610	2440	15.3		
29		#8	2	10	360		360	720	4.5			
30		#8	2	10	310		320	640	2.5			
31		#10	1	10	305		315	630	2.5			
32		#8	2	10	290		290	580	2.3			
33		#8	1	10	285		285	285	1.1			
34		#10	3	12	348		360	1080	6.8			
35		#8	4	10	355		360	1380	5.4			
36		#12.5	2	10	265		265	530	5.2			
37		#12.5	2	10	260		260	520	5.1			
38		#16	1	10	195		195	195	3.1			
39		#10	2	10	175		175	350	2.2			
40		#5	23	10	110		110	2530		4.0		
41		#6.3	31	10	113		113	3553	8.7			
Total+10%: 108.7											4.4	
v515		42	#12.5	2	10	615		615	1230	8.1		
		43	#16	1	10	610		610	610	9.6		
	44	#8	2	10	310		315	630	2.5			
	45	#8	2	10	305		305	610	2.5			
	46	#10	1	10	290		290	290	1.8			
	47	#8	1	10	285		285	285	1.1			
	48	#8	2	10	610		610	1220	4.8			
	49	#10	3	12	348		360	1080	6.8			
	50	#8	4	10	355		360	1380	5.4			
	51	#10	2	10	270		270	540	5.3			
	52	#10	2	10	270		270	540	5.3			
	53	#10	2	10	175		175	350	2.2			
	54	#12.5	1	10	175		175	350	2.2			
	55	#5	51	10	113		113	3534	8.6			
	Total+10%: 108.7											11.8
	v516	57	#10	4	10	610		610	2440	15.3		
		58	#10	2	10	360		360	720	4.5		
59		#8	2	10	310		320	640	2.5			
60		#8	2	10	305		315	630	2.5			
61		#8	2	10	290		290	580	2.3			
62		#8	2	10	285		285	285	1.1			
63		#8	2	10	610		610	1220	4.8			
64		#10	3	12	348		360	1080	6.8			
65		#8	4	10	355		360	1380	5.4			
66		#12.5	2	10	270		270	540	5.3			
67		#12.5	2	10	265		265	530	5.2			
68		#16	1	10	205		205	205	3.2			
69		#10	2	10	175		175	350	2.2			
70		#5	23	10	110		110	2530		4.0		
71		#6.3	31	10	113		113	3529	8.6			
Total+10%: 108.7											4.4	
v517		72	#12.5	3	10	610		610	1830	18.0		
	73	#10	2	10	360		360	720	4.5			
	74	#8	2	10	310		320	640	2.5			
	75	#8	2	10	305		315	630	2.5			
	76	#8	2	10	290		290	580	2.3			
	77	#8	1	10	285		285	285	1.1			
	78	#8	2	10	610		610	1220	4.8			
	79	#10	3	12	348		360	1080	6.8			
	80	#10	3	12	348		360	1080	6.8			
	81	#10	2	10	275		275	550	3.5			
	82	#12.5	2	10	265		265	530	5.2			
	83	#10	2	10	215		215	430	2.7			
	84	#12.5	1	10	175		175	350	2.2			
	85	#10	2	10	155		155	310	1.8			
	86	#5	23	10	110		110	2530		4.0		
	87	#6.3	31	10	113		113	3529	8.6			
	Total+10%: 108.7											4.4
v518	88	#10	2	10	883		883	1766	11.2			
	89	#10	2	10	310		320	640	2.5			
	90	#8	2	10	305		315	630	2.5			
	91	#10	1	10	290		290	290	1.8			
	92	#8	2	10	890		900	1800	7.1			
	93	#10	2	10	890		900	1800	7.1			
	94	#8	2	10	425		435	870	3.4			
	95	#10	1	10	410		420	420	1.6			
	96	#8	2	10	180		180	360	1.5			
	97	#8	1	10	175		175	350	2.2			
	98	#10	6	10	615		615	1230	4.8			
	99	#10	6	10	300		300	1800	11.3			
	100	#10	6	10	295		295	885	5.3			
101	#6.3	31	10	113		113	3516	8.7				
Total+10%: 108.7											9.1	
v519	102	#10	2	10	1090		1090	2180	10.9			
	103	#12.5	2	10	365		365	730	5.6			
	104	#8	2	10	310		320	640	2.5			
	105	#8	2	10	305		315	630	2.5			
	106	#12.5	2	10	240		240	480	4.7			
	107	#8	1	10	130		140	280	2.2			
	108	#8	1	10	130		130	260	2.2			
	109	#8	1	10	125		125	250	2.2			
	110	#5	58	10	115		115	10	5800		9.1	
	Total+10%: 108.7											10.0
v520	111	#10	2	10	1098		1110	2220	13.9			
	112	#8	2	10	580		590	1180	4.6			
	113	#8	2	10	450		450	900	3.5			
	114	#10	3	10	335		335	1005	2.1			
	115	#8	2	10	1107		1125	2250	8.8			
	116	#8	2	10	560		560	1120	4.4			
	117	#8	2	10	245		245	490	1.9			
	118	#10	2	10	240		240	480	3.0			
	119	#8	1	10	225		225	450	0.9			
	120	#8	2	10	130		140	280	1.1			
	121	#5	88	10	100		100	8800		13.8		
	Total+10%: 108.7											14.2
											56.0	
											36.0	
											66.3	
											66.3	
											0.0	
											0.0	
											276.8	
											0.0	
											0.0	
											17.4	
											0.0	
											628.6	
											56.0	