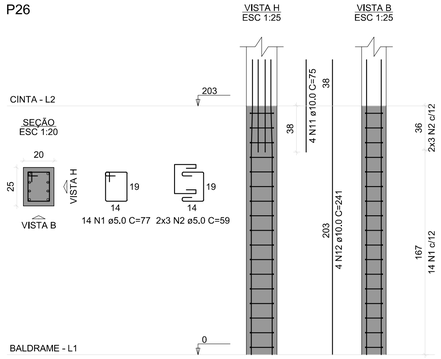
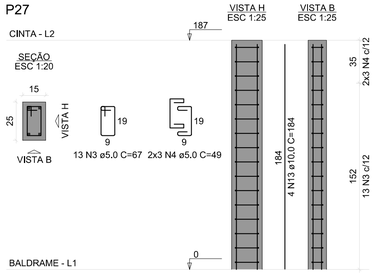
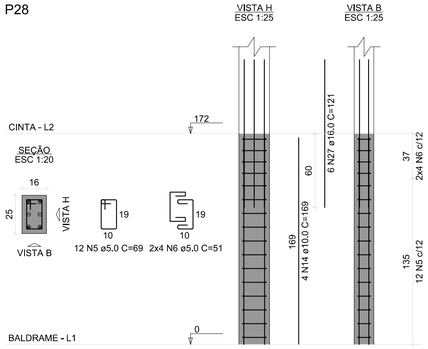
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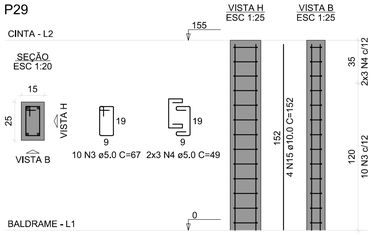
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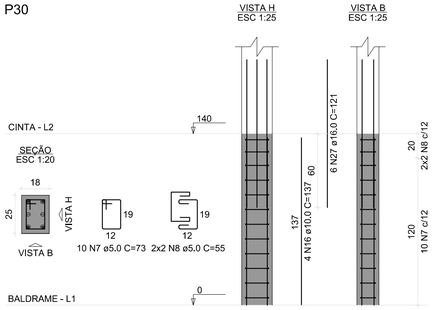
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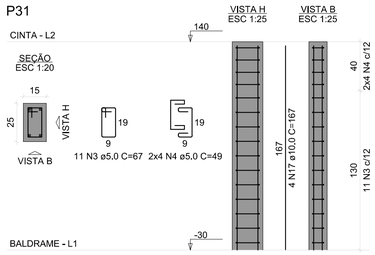
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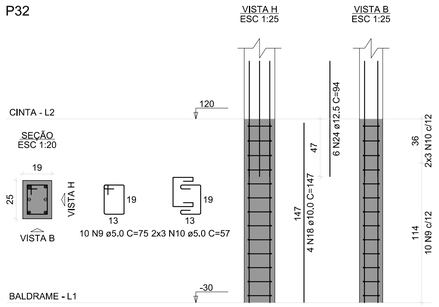
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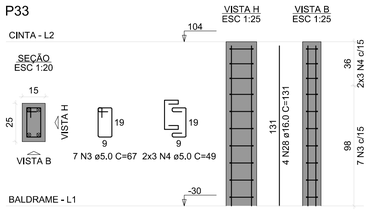
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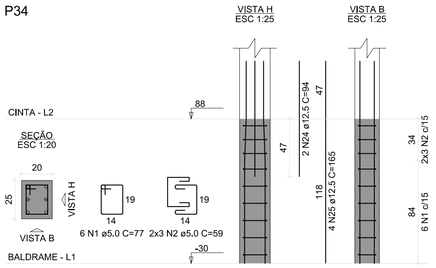
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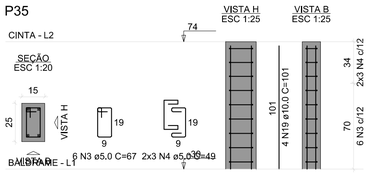
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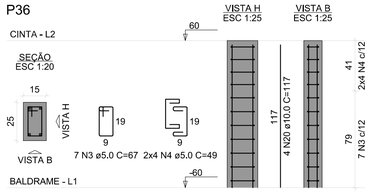
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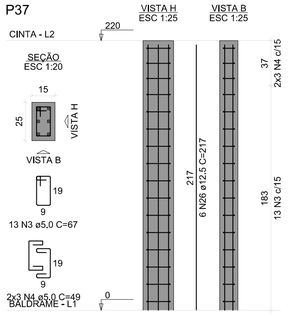
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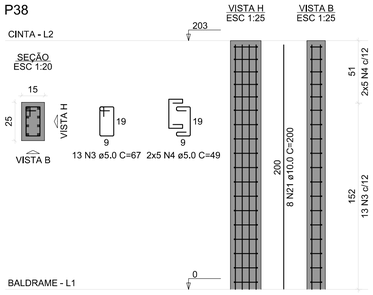
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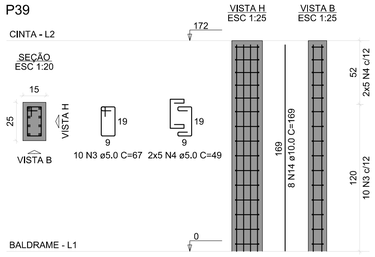
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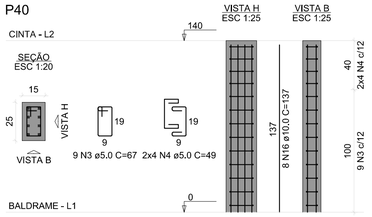
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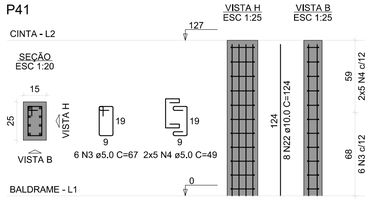
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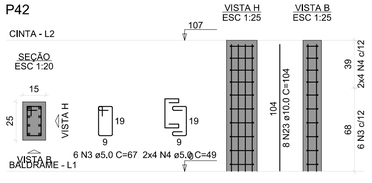
P40



P41



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RELAÇÃO DO AÇO

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AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	20	77	1540
	2	5.0	12	59	708
	3	5.0	111	67	7437
	4	5.0	92	49	4508
	5	5.0	12	69	828
	6	5.0	8	51	408
	7	5.0	10	73	730
	8	5.0	4	55	220
	9	5.0	10	76	760
	10	5.0	6	57	342
CA50	11	10.0	4	75	300
	12	10.0	4	241	964
	13	10.0	4	184	736
	14	10.0	12	169	2028
	15	10.0	4	152	608
	16	10.0	12	137	1644
	17	10.0	4	167	668
	18	10.0	4	147	588
	19	10.0	4	101	404
	20	10.0	4	117	468
	21	10.0	8	200	1600
	22	10.0	8	124	992
	23	10.0	8	104	832
	24	12.5	8	94	752
	25	12.5	4	165	660
	26	12.5	4	217	1302
	27	16.0	12	121	1452
	28	16.0	4	131	524

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	118,3	80,2
	12.5	27,1	28,8
	16.0	19,8	34,3
CA60	5.0	174,7	29,6

PESO TOTAL (kg)	
CA50	143,3
CA60	29,6

Volume de concreto (C-25) = 1,05 m³
Área de forma = 21,54 m²

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Projeto: ESTRUTURAL RAMPA ESCOLA MUN. PROF. ACEIR MIGUEL MOREIRA

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Escala: 1/50

Folha: 09