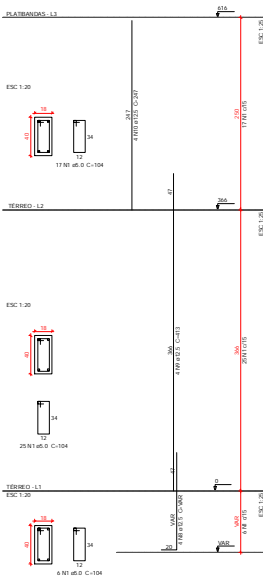
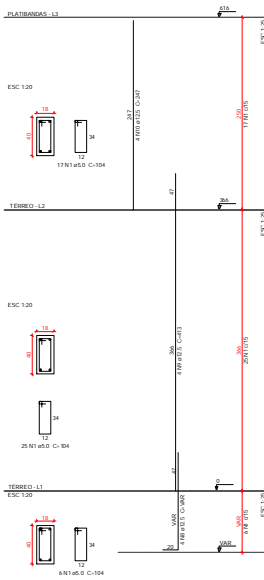


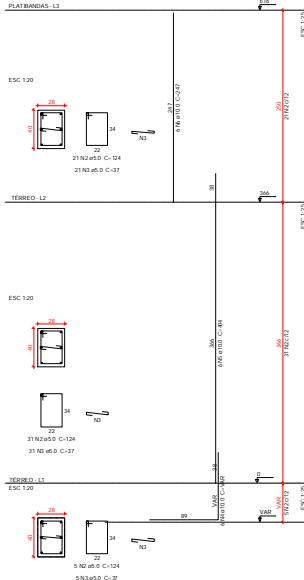
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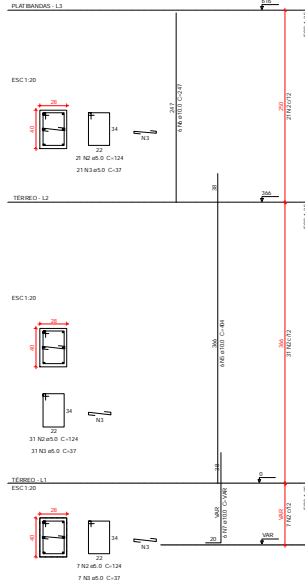
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Relação do aço

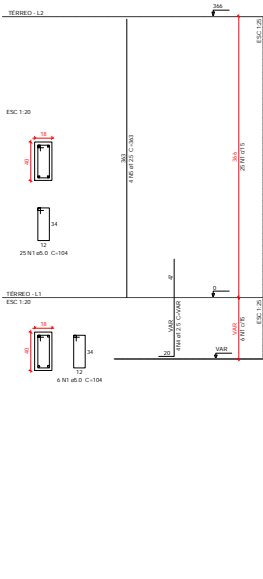
ACQ	N	DIAM	G	UNIT	C.TOTAL
CASO	1	5.0	104	VAR	9863
	2	5.0	116	VAR	9194
CASO	3	5.0	116	VAR	4292
	4	10.0	6	VAR	1030
CASO	5	10.0	12	VAR	4648
	6	12.5	2	VAR	254
CASO	7	12.5	4	VAR	1000
	8	12.5	8	VAR	1000
CASO	9	12.5	8	VAR	3394
	10	12.5	8	VAR	1000

Resumo do aço

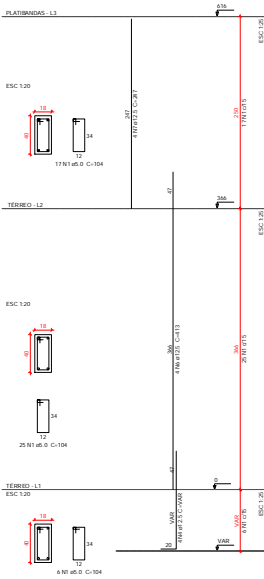
ACQ	DIAM	C.TOTAL	PESO - 10%
CASO	10.0	98	65.5
CASO	12.5	84	68.2
CASO	15.0	28	55.1
CASO	13.8	88	70.0

Vol. de concreto (m³) C-20 = 2.33 m³
Área de forma (m²) = 34.67 m²

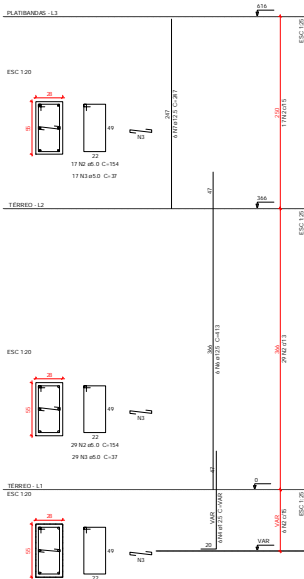
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Relação do aço

ACQ	N	DIAM	G	UNIT	C.TOTAL
CASO	1	5.0	85	VAR	8840
	2	5.0	92	VAR	8098
CASO	3	5.0	104	VAR	7924
	4	12.5	2	VAR	1000
CASO	5	12.5	4	VAR	4130
	6	12.5	8	VAR	2400
CASO	7	12.5	8	VAR	1000
	8	12.5	8	VAR	1000

Resumo do aço

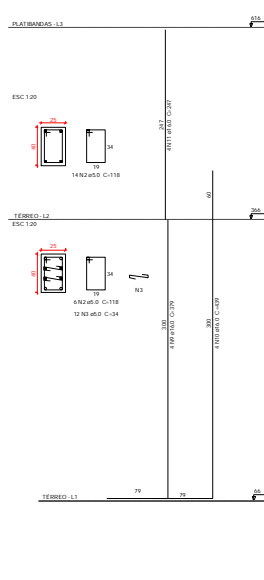
ACQ	DIAM	C.TOTAL	PESO - 10%
CASO	12.5	109	103.7
CASO	15.0	36	31.4
CASO	11.0	110	110.7
CASO	11.8	118	118.0

Vol. de concreto (m³) C-20 = 1.95 m³
Área de forma (m²) = 25.13 m²

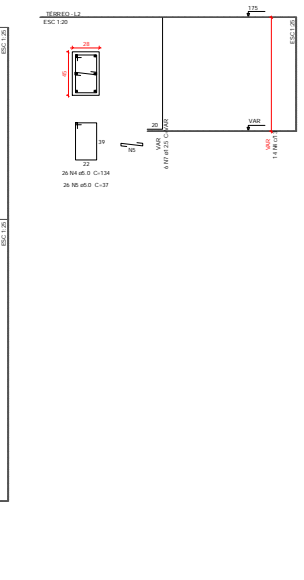
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Relação do aço

ACQ	N	DIAM	G	UNIT	C.TOTAL
CASO	1	5.0	104	VAR	324
	2	5.0	116	VAR	300
CASO	3	5.0	116	VAR	148
	4	5.0	25	VAR	1000
CASO	5	12.5	4	VAR	1000
	6	12.5	8	VAR	1000
CASO	7	12.5	8	VAR	1000
	8	12.5	8	VAR	1000
CASO	9	12.5	8	VAR	1000
	10	12.5	8	VAR	1000

Resumo do aço

ACQ	DIAM	C.TOTAL	PESO - 10%
CASO	12.5	28	29.4
CASO	15.0	34	41.4
CASO	16.0	8	14.1
CASO	12.2	72	72.0
CASO	14.1	14.1	14.1

Vol. de concreto (m³) C-20 = 0.89 m³
Área de forma (m²) = 11 m²