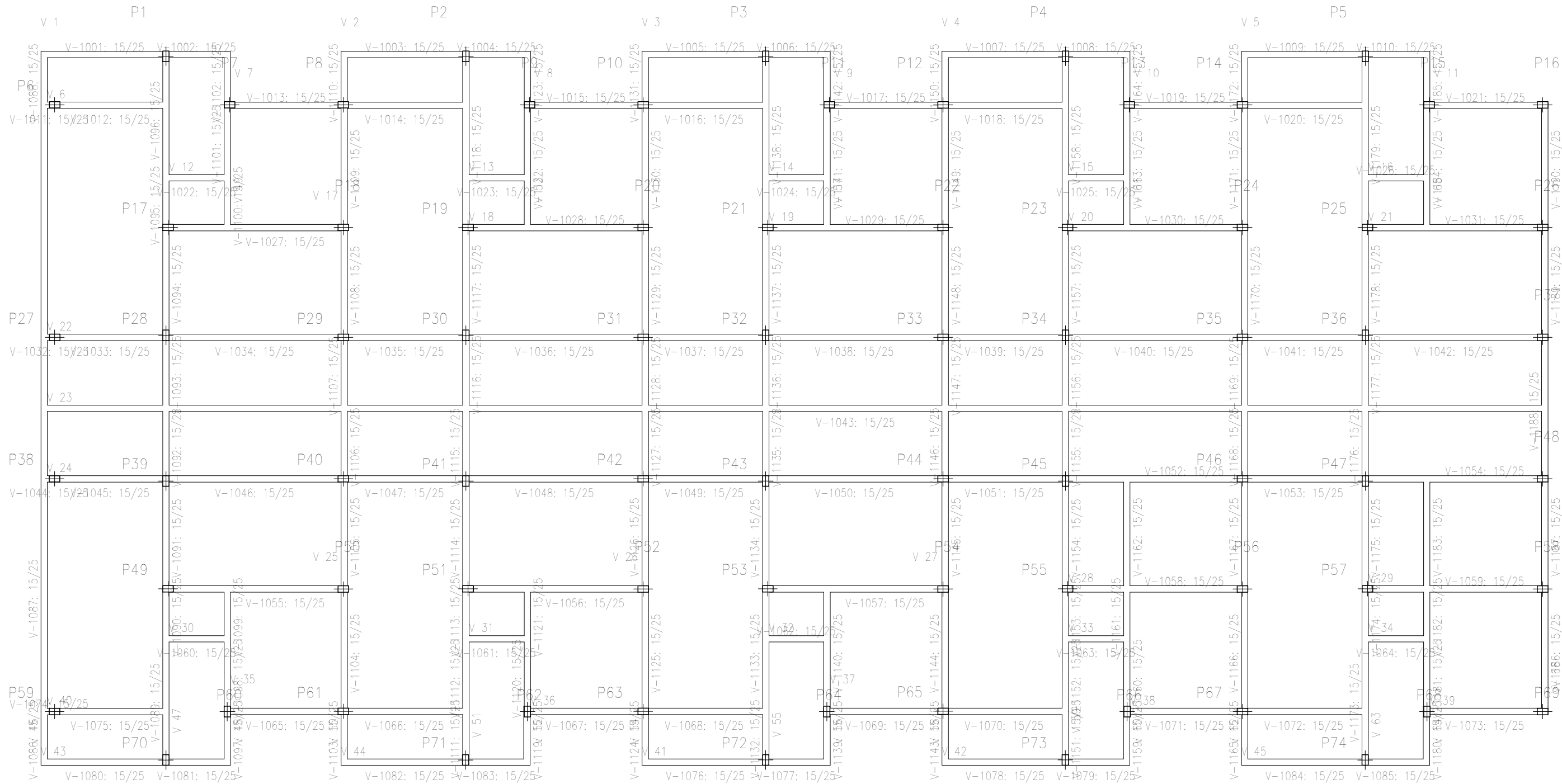


FÔRMAS TÊRREO

Elemento	Térreo
	FormasSuperfícieVolumeBarra(m2)(m2)(m3)(kg)
Vigas	229,3289,0818.1701506
Pilares	74,00-3.470487
Total	-89,0821.8401993
Índices (por m2)	-0,38127,74
Superfície total: 71,85 m2	

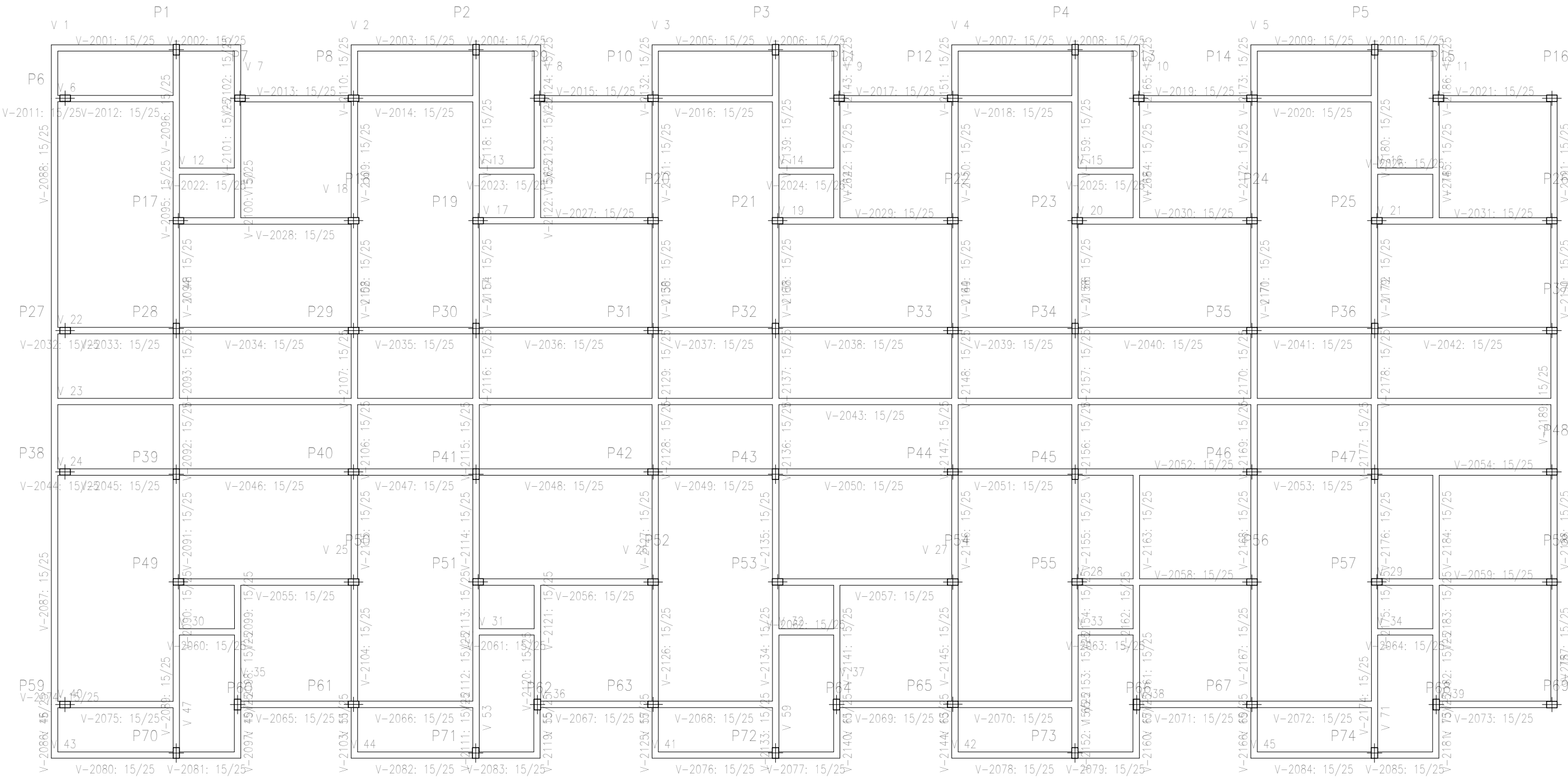
Térreo
Piso
Escala: 1:100



FÔRMAS COBERTURA

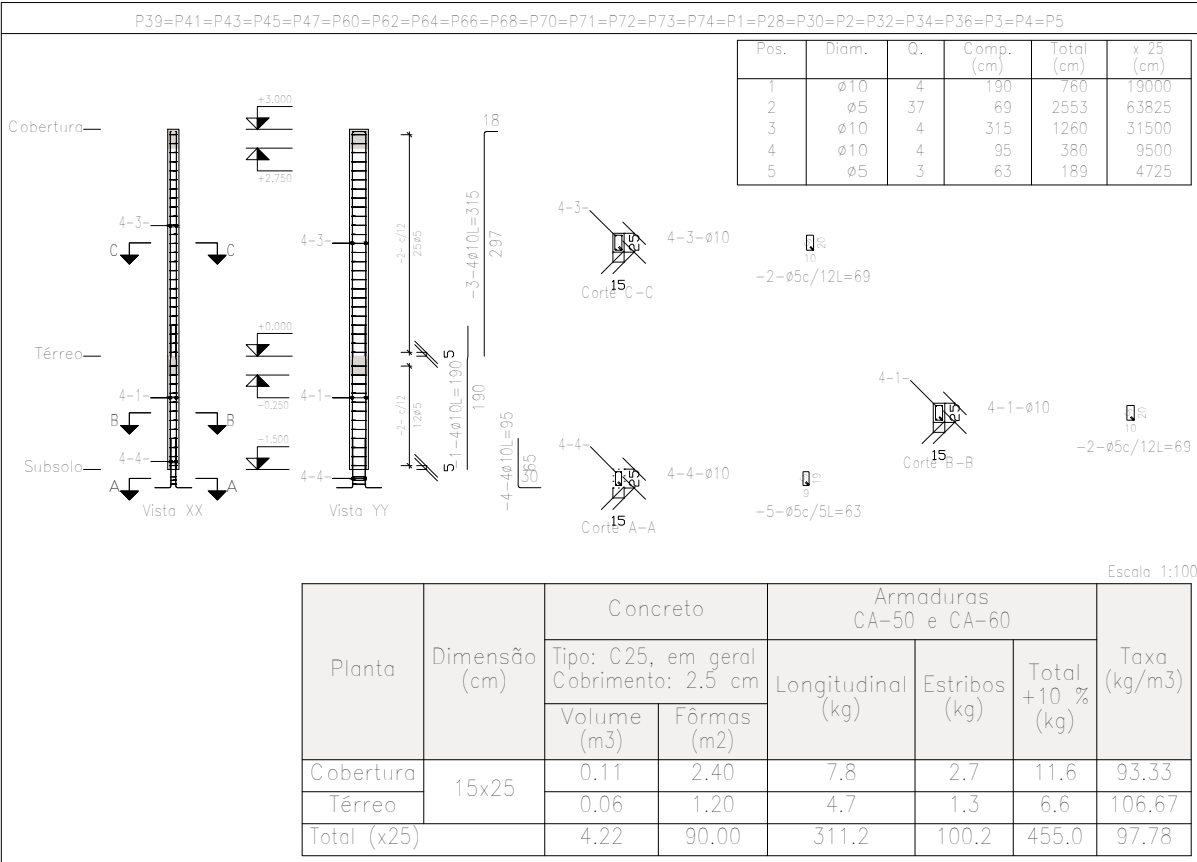
Elemento	Cobertura
	FormasSuperfícieVolumeBarra(m2)(m2)(m3)(kg)
Vigas	229,2789,0718.2301449
Pilares	162,80-7.630852
Total	-89,0725.8602300
Índices (por m2)	-0,38037,02
Superfície total: 71,84 m2	

Cobertura
Piso
Escala: 1:100

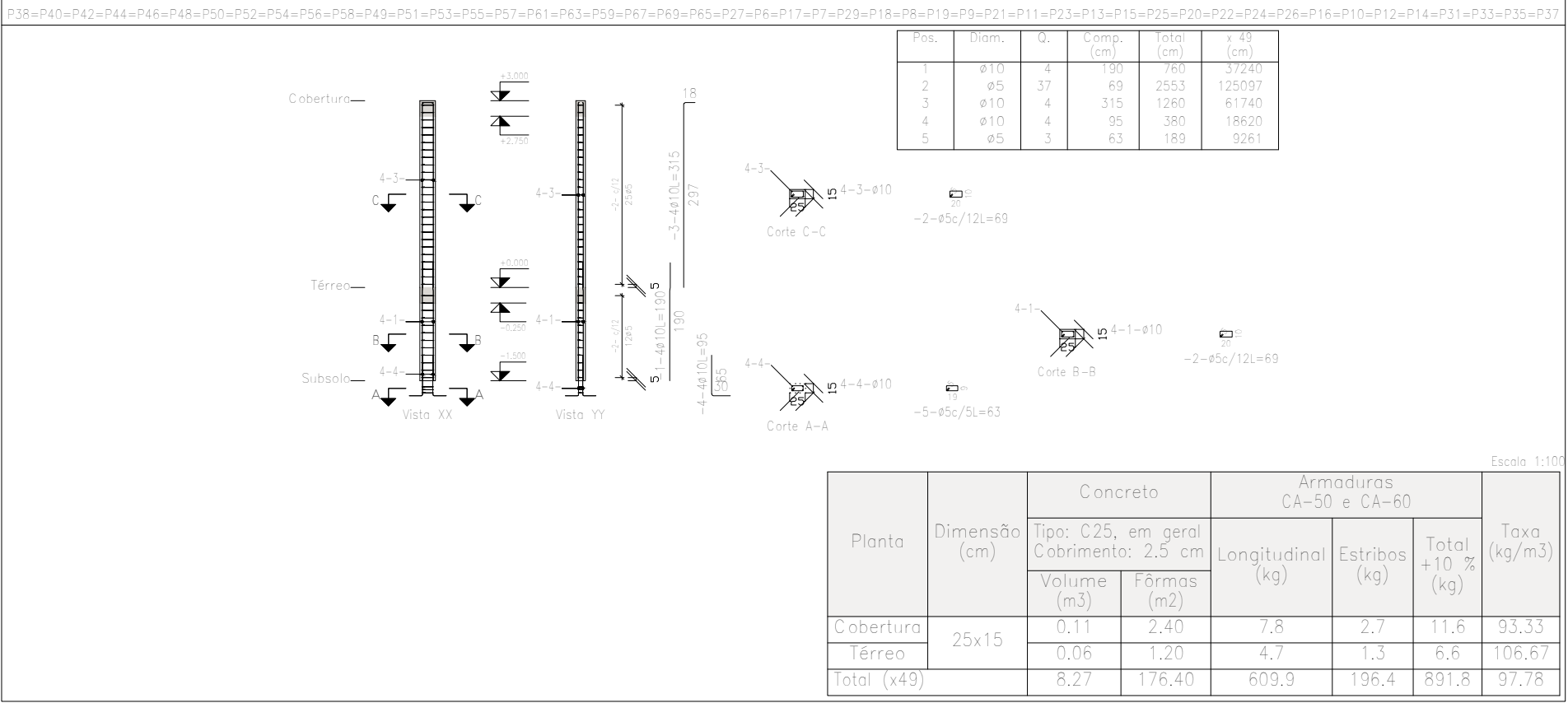


Resumo Aço Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø10	1776,0	1204	1204
CA-60 Ø5	2029,1	350	350
Total		1554	

Quadro de pilares
Escala 1:100
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60



P4=P4+P2=042+048=P48=090=092+P2=094 P5=P5+P3=P51+P51=P52=096=096+P3=098 P6=P6+P2=P66+P66=P67=098=098+P2=098 P7=P7+P1=P71+P71=P72=098=098+P1=098 P8=P8+P7=P81+P81=P82=098=098+P7=098 P9=P9+P7=P91+P81=P92=098=098+P7=098 P10=P10+P8=P101+P81=P102=098=098+P8=098 P11=P11+P9=P111+P91=P112=098=098+P9=098 P12=P12+P10=P121+P101=P122=098=098+P10=098 P13=P13+P11=P131+P111=P132=098=098+P11=098 P14=P14+P12=P141+P121=P142=098=098+P12=098 P15=P15+P13=P151+P131=P152=098=098+P13=098 P16=P16+P14=P161+P141=P162=098=098+P14=098 P17=P17+P15=P171+P151=P172=098=098+P15=098 P18=P18+P16=P181+P161=P182=098=098+P16=098 P19=P19+P17=P191+P171=P192=098=098+P17=098 P20=P20+P18=P201+P181=P202=098=098+P18=098 P21=P21+P19=P211+P191=P212=098=098+P19=098 P22=P22+P20=P221+P201=P222=098=098+P20=098 P23=P23+P21=P231+P211=P232=098=098+P21=098 P24=P24+P22=P241+P221=P242=098=098+P22=098 P25=P25+P23=P251+P231=P252=098=098+P23=098 P26=P26+P24=P261+P241=P262=098=098+P24=098 P27=P27+P25=P271+P251=P272=098=098+P25=098 P28=P28+P26=P281+P261=P282=098=098+P26=098 P29=P29+P27=P291+P271=P292=098=098+P27=098 P30=P30+P28=P301+P281=P302=098=098+P28=098 P31=P31+P29=P311+P291=P312=098=098+P29=098 P32=P32+P30=P321+P301=P322=098=098+P30=098 P33=P33+P31=P331+P311=P332=098=098+P31=098 P34=P34+P32=P341+P321=P342=098=098+P32=098 P35=P35+P33=P351+P331=P352=098=098+P33=098 P36=P36+P34=P361+P341=P362=098=098+P34=098 P37=P37+P35=P371+P351=P372=098=098+P35=098 P38=P38+P36=P381+P361=P382=098=098+P36=098 P39=P39+P37=P391+P371=P392=098=098+P37=098 P40=P40+P38=P401+P381=P402=098=098+P38=098 P41=P41+P39=P411+P391=P412=098=098+P39=098 P42=P42+P40=P421+P401=P422=098=098+P40=098 P43=P43+P41=P431+P411=P432=098=098+P41=098 P44=P44+P42=P441+P421=P442=098=098+P42=098 P45=P45+P43=P451+P431=P452=098=098+P43=098 P46=P46+P44=P461+P441=P462=098=098+P44=098 P47=P47+P45=P471+P451=P472=098=098+P45=098 P48=P48+P46=P481+P461=P482=098=098+P46=098 P49=P49+P47=P491+P471=P492=098=098+P47=098 P50=P50+P48=P501+P481=P502=098=098+P48=098 P51=P51+P49=P511+P491=P512=098=098+P49=098 P52=P52+P50=P521+P501=P522=098=098+P50=098 P53=P53+P51=P531+P511=P532=098=098+P51=098 P54=P54+P52=P541+P521=P542=098=098+P52=098 P55=P55+P53=P551+P531=P552=098=098+P53=098 P56=P56+P54=P561+P541=P562=098=098+P54=098 P57=P57+P55=P571+P551=P572=098=098+P55=098 P58=P58+P56=P581+P561=P582=098=098+P56=098 P59=P59+P57=P591+P571=P592=098=098+P57=098 P60=P60+P58=P601+P581=P602=098=098+P58=098 P61=P61+P59=P611+P591=P612=098=098+P59=098 P62=P62+P60=P621+P601=P622=098=098+P60=098 P63=P63+P61=P631+P611=P632=098=098+P61=098 P64=P64+P62=P641+P621=P642=098=098+P62=098 P65=P65+P63=P651+P631=P652=098=098+P63=098 P66=P66+P64=P661+P641=P662=098=098+P64=098 P67=P67+P65=P671+P651=P672=098=098+P65=098 P68=P68+P66=P681+P661=P682=098=098+P66=098 P69=P69+P67=P691+P671=P692=098=098+P67=098 P70=P70+P68=P701+P681=P702=098=098+P68=098 P71=P71+P69=P711+P691=P712=098=098+P69=098 P72=P72+P70=P721+P701=P722=098=098+P70=098 P73=P73+P71=P731+P711=P732=098=098+P71=098 P74=P74+P72=P741+P721=P742=098=098+P72=098 P75=P75+P73=P751+P731=P752=098=098+P73=098 P76=P76+P74=P761+P741=P762=098=098+P74=098 P77=P77+P75=P771+P751=P772=098=098+P75=098 P78=P78+P76=P781+P761=P782=098=098+P76=098 P79=P79+P77=P791+P771=P792=098=098+P77=098 P80=P80+P78=P801+P781=P802=098=098+P78=098 P81=P81+P79=P811+P791=P812=098=098+P79=098 P82=P82+P80=P821+P801=P822=098=098+P80=098 P83=P83+P81=P831+P811=P832=098=098+P81=098 P84=P84+P82=P841+P821=P842=098=098+P82=098 P85=P85+P83=P851+P831=P852=098=098+P83=098 P86=P86+P84=P861+P841=P862=098=098+P84=098 P87=P87+P85=P871+P851=P872=098=098+P85=098 P88=P88+P86=P881+P861=P882=098=098+P86=098 P89=P89+P87=P891+P871=P892=098=098+P87=098 P90=P90+P88=P901+P881=P902=098=098+P88=098 P91=P91+P89=P911+P891=P912=098=098+P89=098 P92=P92+P90=P921+P901=P922=098=098+P90=098 P93=P93+P91=P931+P911=P932=098=098+P91=098 P94=P94+P92=P941+P921=P942=098=098+P92=098 P95=P95+P93=P951+P931=P952=098=098+P93=098 P96=P96+P94=P961+P941=P962=098=098+P94=098 P97=P97+P95=P971+P951=P972=098=098+P95=098 P98=P98+P96=P981+P961=P982=098=098+P96=098 P99=P99+P97=P991+P971=P992=098=098+P97=098 P100=P100+P98=P1001+P981=P1002=098=098+P98=098 P101=P101+P99=P1011+P991=P1012=098=098+P99=098 P102=P102+P100=P1021+P1001=P1022=098=098+P100=098 P103=P103+P101=P1031+P1011=P1032=098=098+P101=098 P104=P104+P102=P1041+P1021=P1042=098=098+P102=098 P105=P105+P103=P1051+P1031=P1052=098=098+P103=098 P106=P106+P104=P1061+P1041=P1062=098=098+P104=098 P107=P107+P105=P1071+P1051=P1072=098=098+P105=098 P108=P108+P106=P1081+P1061=P1082=098=098+P106=098 P109=P109+P107=P1091+P1071=P1092=098=098+P107=098 P110=P110+P108=P1101+P1081=P1102=098=098+P108=098 P111=P111+P109=P1111+P1091=P1112=098=098+P109=098 P112=P112+P110=P1121+P1101=P1122=098=098+P110=098 P113=P113+P111=P1131+P1111=P1132=098=098+P111=098 P114=P114+P112=P1141+P1121=P1142=098=098+P112=098 P115=P115+P113=P1151+P1131=P1152=098=098+P113=098 P116=P116+P114=P1161+P1141=P1162=098=098+P114=098 P117=P117+P115=P1171+P1151=P1172=098=098+P115=098 P118=P118+P116=P1181+P1161=P1182=098=098+P116=098 P119=P119+P117=P1191+P1171=P1192=098=098+P117=098 P120=P120+P118=P1201+P1181=P1202=098=098+P118=098 P121=P121+P119=P1211+P1191=P1212=098=098+P119=098 P122=P122+P120=P1221+P1201=P1222=098=098+P120=098 P123=P123+P121=P1231+P1211=P1232=098=098+P121=098 P124=P124+P122=P1241+P1221=P1242=098=098+P122=098 P125=P125+P123=P1251+P1231=P1252=098=098+P123=098 P126=P126+P124=P1261+P1241=P1262=098=098+P124=098 P127=P127+P125=P1271+P1251=P1272=098=098+P125=098 P128=P128+P126=P1281+P1261=P1282=098=098+P126=098 P129=P129+P127=P1291+P1271=P1292=098=098+P127=098 P130=P130+P128=P1301+P1281=P1302=098=098+P128=098 P131=P131+P129=P1311+P1291=P1312=098=098+P129=098 P132=P132+P130=P1321+P1301=P1322=098=098+P130=098 P133=P133+P131=P1331+P1311=P1332=098=098+P131=098 P134=P134+P132=P1341+P1321=P1342=098=098+P132=098 P135=P135+P133=P1351+P1331=P1352=098=098+P133=098 P136=P136+P134=P1361+P1341=P1362=098=098+P134=098 P137=P137+P135=P1371+P1351=P1372=098=098+P135=098 P138=P138+P136=P1381+P1361=P1382=098=098+P136=098 P139=P139+P137=P1391+P1371=P1392=098=098+P137=098 P140=P140+P138=P1401+P1381=P1402=098=098+P138=098 P141=P141+P139=P1411+P1391=P1412=098=098+P139=098 P142=P142+P140=P1421+P1401=P1422=098=098+P140=098 P143=P143+P141=P1431+P1411=P1432=098=098+P141=098 P144=P144+P142=P1441+P1421=P1442=098=098+P142=098 P145=P145+P143=P1451+P1431=P1452=098=098+P143=098 P146=P146+P144=P1461+P1441=P1462=098=098+P144=098 P147=P147+P145=P1471+P1451=P1472=098=098+P145=098 P148=P148+P146=P1481+P1461=P1482=098=098+P146=098 P149=P149+P147=P1491+P1471=P1492=098=098+P147=098 P150=P150+P148=P1501+P1481=P1502=098=098+P148=098 P151=P151+P149=P1511+P1491=P1512=098=098+P149=098 P152=P152+P150=P1521+P1501=P1522=098=098+P150=098 P153=P153+P151=P1531+P1511=P1532=098=098+P151=098 P154=P154+P152=P1541+P1521=P1542=098=098+P152=098 P155=P155+P153=P1551+P1531=P1552=098=098+P153=098 P156=P156+P154=P1561+P1541=P1562=098=098+P154=098 P157=P157+P155=P1571+P1551=P1572=098=098+P155=098 P158=P158+P156=P1581+P1561=P1582=098=098+P156=098 P159=P159+P157=P1591+P1571=P1592=098=098+P157=098 P160=P160+P158=P1601+P1581=P1602=098=098+P158=098 P161=P161+P159=P1611+P1591=P1612=098=098+P159=098 P162=P162+P160=P1621+P1601=P1622=098=098+P160=098 P163=P163+P161=P1631+P1611=P1632=098=098+P161=098 P164=P164+P162=P1641+P1621=P1642=098=098+P162=098 P165=P165+P163=P1651+P1631=P1652=098=098+P163=098 P166=P166+P164=P1661+P1641=P1662=098=098+P164=098 P167=P167+P165=P1671+P1651=P1672=098=098+P165=098 P168=P168+P166=P1681+P1661=P1682=098=098+P166=098 P169=P169+P167=P1691+P1671=P1692=098=098+P167=098 P170=P170+P168=P1701+P1681=P1702=098=098+P168=098 P171=P171+P169=P1711+P1691=P1712=098=098+P169=098 P172=P172+P170=P1721+P1701=P1722=098=098+P170=098 P173=P173+P171=P1731+P1711=P1732=098=098+P171=098 P174=P174+P172=P1741+P1721=P1742=098=098+P172=098 P175=P175+P173=P1751+P1731=P1752=098=098+P173=098 P176=P176+P174=P1761+P1741=P1762=098=098+P174=098 P177=P177+P175=P1771+P1751=P1772=098=098+P175=098 P178=P178+P176=P1781+P1761=P1782=098=098+P176=098 P179=P179+P177=P1791+P1771=P1792=098=098+P177=098 P180=P180+P178=P1801+P1781=P1802=098=098+P178=098 P181=P181+P179=P1811+P1791=P1812=098=098+P179=098 P182=P182+P180=P1821+P1801=P1822=098=098+P180=098 P183=P183+P181=P1831+P1811=P1832=098=098+P181=098 P184=P184+P182=P1841+P1821=P1842=098=098+P182=098 P185=P185+P183=P1851+P1831=P1852=098=098+P183=098 P186=P186+P184=P1861+P1841=P1862=098=098+P184=098 P187=P187+P185=P1871+P1851=P1872=098=098+P185=098 P188=P188+P186=P1881+P1861=P1882=098=098+P186=098 P189=P189+P187=P1891+P1871=P1892=098=098+P187=098 P190=P190+P188=P1901+P1881=P1902=098=098+P188=098 P191=P191+P189=P1911+P1891=P1912=098=098+P189=098 P192=P192+P190=P1921+P1901=P1922=098=098+P190=098 P193=P193+P191=P1931+P1911=P1932=098=098+P191=098 P194=P194+P192=P1941+P1921=P1942=098=098+P192=098 P195=P195+P193=P1951+P1931=P1952=098=098+P193=098 P196=P196+P194=P1961+P1941=P1962=098=098+P194=098 P197=P197+P195=P1971+P1951=P1972=098=098+P195=098 P198=P198+P196=P1981+P1961=P1982=098=098+P196=098 P199=P199+P197=P1991+P1971=P1992=098=098+P197=098 P200=P200+P198=P2001+P1981=P2002=098=098+P198=098 P201=P201+P199=P2011+P1991=P2012=098=098+P199=098 P202=P202+P200=P2021+P2001=P2022=098=098+P200=098 P203=P203+P201=P2031+P2011=P2032=098=098+P201=098 P204=P204+P202=P2041+P2021=P2042=098=098+P202=098 P205=P205+P203=P2051+P2031=P2052=098=098+P203=098 P206=P206+P204=P2061+P2041=P2062=098=098+P204=098 P207=P207+P205=P2071+P2051=P2072=098=098+P205=098 P208=P208+P206=P2081+P2061=P2082=098=098+P206=098 P209=P209+P207=P2091+P2071=P2092=098=098+P207=098 P210=P210+P208=P2101+P2081=P2102=098=098+P208=098 P211=P211+P209=P2111+P2091=P2112=098=098+P209=098 P212=P212+P210=P2121+P2101=P2122=098=098+P210=098 P213=P213+P211=P2131+P2111=P2132=098=098+P211=098 P214=P214+P212=P2141+P2121=P2142=098=098+P212=098 P215=P215+P213=P2151+P2131=P2152=098=098+P213=098 P216=P216+P214=P2161+P2141=P2162=098=098+P214=098 P217=P217+P215=P2171+P2151=P2172=098=098+P215=098 P218=P218+P216=P2181+P2161=P2182=098=098+P216=098 P219=P219+P217=P2191+P2171=P2192=098=098+P217=098 P220=P220+P218=P2201+P2181=P2202=098=098+P218=098 P221=P221+P219=P2211+P2191=P2212=098=098+P219=098 P222=P222+P220=P2221+P2201=P2222=098=098+P220=098 P223=P223+P221=P2231+P2211=P2232=098=098+P221=098 P224=P224+P222=P2241+P2221=P2242=098=098+P222=098 P225=P225+P223=P2251+P2231=P2252=098=098+P223=098 P226=P226+P224=P2261+P2241=P2262=098=098+P224=098 P227=P227+P225=P2271+P2251=P2272=098=098+P225=098 P228=P228+P226=P2281+P2261=P2282=098=098+P226=098 P229=P229+P227=P2291+P2271=P2292=098=098+P227=098 P230=P230+P228=P2301+P2281=P2302=098=098+P228=098 P231=P231+P229=P2311+P2291=P2312=098=098+P229=098 P232=P232+P230=P2321+P2301=P2322=098=098+P230=098 P233=P233+P231=P2331+P2311=P2332=098=098+P231=098 P234=P234+P232=P2341+P2321=P2342=098=098+P232=098 P235=P235+P233=P2351+P2331=P2352=098=098+P233=098 P236=P236+P234=P2361+P2341=P2362=098=098+P234=098 P237=P237+P235=P2371+P2351=P2372=098=098+P235=098 P238=P238+P236=P2381+P2361=P2382=098=098+P236=098 P239=P239+P237=P2391+P2371=P2392=098=098+P237=098 P240=P240+P238=P2401+P2381=P2402=098=098+P238=098 P241=P241+P239=P2411+P2391=P2412=098=098+P239=098 P242=P242+P240=P2421+P2401=P2422=098=098+P240=098 P243=P243+P241=P2431+P2411=P2432=098=098+P241=098 P244=P244+P242=P2441+P2421=P2442=098=098+P242=098 P245=P245+P243=P2451+P2431=P2452=098=098+P243=098 P246=P246+P244=P2461+P2441=P2462=098=098+P244=098 P247=P247+P245=P2471+P2451=P2472=098=098+P245=098 P248=P248+P246=P2481+P2461=P2482=098=098+P246=098 P249=P249+P247=P2491+P2471=P2492=098=098+P247=098 P250=P250+P248=P2501+P2481=P2502=098=098+P248=098 P251=P251+P249=P2511+P2491=P2512=098=098+P249=098 P252=P252+P250=P2521+P2501=P2522=098=098+P250=098 P253=P253+P251=P2531+P2511=P2532=098=098+P251=098 P254=P254+P252=P2541+P2521=P2542=098=098+P252=098 P255=P255+P253=P2551+P2531=P2552=098=098+P253=098 P256=P256+P254=P2561+P2541=P2562=098=098+P254=098 P257=P257+P255=P2571+P2551=P2572=098=098+P255=098 P258=P258+P256=P2581+P2561=P2582=098=098+P256=098 P259=P259+P257=P2591+P2571=P2592=098=098+P257=098 P260=P260+P258=P2601+P2581=P2602=098=098+P258=098 P261=P261+P259=P2611+P2591=P2612=098=098+P259=098 P262=P262+P260=P2621+P2601=P2622=098=098+P260=098 P263=P263+P261=P2631+P2611=P2632=098=098+P261=098 P264=P264+P262=P2641+P2621=P2642=098=098+P262=098 P265=P265+P263=P2651+P2631=P2652=098=098+P263=098 P266=P266+P264=P2661+P2641=P2662=098=098+P264=098 P267=P267+P265=P2671+P2651=P2672=098=098+P265=098 P268=P268+P266=P2681+P2661=P2682=098=098+P266=098 P269=P269+P267=P2691+P2671=P2692=098=098+P267=098 P270=P270+P268=P2701+P2681=P2702=098=098+P268=098 P271=P271+P269=P2711+P2691=P2712=098=098+P269=098 P272=P272+P270=P2721+P2701=P2722=098=098+P270=098 P273=P273+P271=P2731+P2711=P2732=098=098+P271=098 P274=P274+P272=P2741+P2721=P2742=098=098+P272=098 P275=P275+P273=P2751+P2731=P2752=098=098+P273=098 P276=P276+P274=P2761+P2741=P2762=098=098+P274=0				
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Planta	Dimensão (cm)	Concreto		Armaduras CA-50 e CA-60			Toxa (kg/m3)
		Tip: C25, em geral		Longitudinal (kg)	Estribos (kg)	Total +10 % (kg)	
		Cobrimento: 2,5 cm					
		Volume (m3)	Formas (m2)				
Cobertura	25x15	0,11	2,40	7,8	2,7	11,6	93,33
Térreo		0,06	1,20	4,7	1,3	6,6	106,67
Total (x49)		8,27	176,40	609,9	196,4	891,8	97,78

Residencial Morada Cidadã		Data: 10/10/2024
Local: Residencial Morada Cidadã		Número de desenho: 02/06 Planta de Fôrmas
Promotor: Prefeitura Municipal de Campos de Júlio		
Projeto Estrutural		
Eduardo Rampanelli Tosetto Engenheiro Civil Número do CREA: 122903107		Escala: Indicada Data: 17/06/2025