1. ESTRUTURA

1.1. Resultados

1.1.1. Nós

***1.1.1.1. Reações***

Referências:

Rx, Ry, Rz: Reações em nós com deslocamentos restringidos (forças).

Mx, My, Mz: Reações em nós com rotações restringidas (momentos).

1.1.1.1.1. Hipótese

| **Reações nos nós, por hipóteses/ações** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Referência | Descrição | Reações em eixos globais | | | | | |
| Rx  (kN) | Ry  (kN) | Rz  (kN) | Mx  (kN·m) | My  (kN·m) | Mz  (kN·m) |
| N1 | Peso próprio | -0.433 | 0.000 | 8.372 | 0.00 | -2.19 | 0.00 |
|  | CP | -0.205 | 0.001 | 3.910 | 0.00 | -1.07 | 0.00 |
|  | SC | -0.711 | -0.002 | 1.960 | 0.00 | -3.16 | 0.00 |
|  | SCI | -0.138 | -0.001 | 1.063 | 0.00 | -0.25 | 0.00 |
|  | PFV | -0.249 | -0.002 | 1.914 | 0.00 | -0.45 | 0.00 |
|  | V0(Cpi 0,00) | 1.553 | -17.494 | -27.202 | 2.58 | -3.25 | -0.01 |
|  | V0(Cpi-0,3) | 3.031 | -18.727 | -23.056 | 3.23 | 5.74 | -0.01 |
|  | V90(Cpi 0,00) | 14.803 | 1.704 | 7.586 | -1.07 | 54.71 | 0.00 |
|  | V90(Cpi-0,3) | 11.416 | 0.680 | 6.873 | -0.43 | 42.84 | 0.00 |
|  | V180(Cpi 0,00) | 2.174 | 1.233 | 21.595 | -1.67 | 8.58 | 0.00 |
|  | V180(Cpi-0,3) | -0.533 | 0.206 | 20.758 | -1.04 | -0.72 | 0.00 |
|  | V270(Cpi 0,00) | -11.378 | 3.131 | -8.773 | -1.99 | -32.39 | 0.00 |
|  | V270(Cpi -0,3) | -13.331 | 2.107 | -7.649 | -1.34 | -36.31 | 0.00 |
| N2 | Peso próprio | 0.139 | -0.191 | 11.472 | -0.01 | -1.33 | 0.00 |
|  | CP | 0.068 | -0.083 | 5.471 | 0.00 | -0.64 | 0.00 |
|  | SC | -0.067 | -0.295 | 5.767 | -0.02 | -2.33 | 0.00 |
|  | SCI | -0.142 | -0.115 | 0.655 | -0.01 | -0.50 | 0.00 |
|  | PFV | -0.255 | -0.207 | 1.179 | -0.01 | -0.89 | 0.00 |
|  | V0(Cpi 0,00) | -9.696 | -17.062 | -38.887 | 2.64 | -17.72 | -0.01 |
|  | V0(Cpi-0,3) | -3.289 | -18.308 | -29.397 | 3.28 | -1.63 | -0.01 |
|  | V90(Cpi 0,00) | 13.172 | 3.067 | -27.024 | -1.94 | 51.08 | 0.01 |
|  | V90(Cpi-0,3) | 14.480 | 2.063 | -14.187 | -1.30 | 45.84 | 0.01 |
|  | V180(Cpi 0,00) | -1.161 | 1.230 | 9.093 | -1.69 | 3.30 | 0.01 |
|  | V180(Cpi-0,3) | 0.846 | 0.209 | 21.381 | -1.06 | 0.91 | 0.01 |
|  | V270(Cpi 0,00) | -11.997 | 1.683 | -5.861 | -1.06 | -34.55 | 0.01 |
|  | V270(Cpi -0,3) | -10.532 | 0.674 | -1.595 | -0.43 | -34.61 | 0.00 |
| N171 | Peso próprio | 4.520 | 0.000 | 16.273 | 0.00 | 11.53 | 0.00 |
|  | CP | 1.779 | 0.001 | 7.691 | 0.00 | 4.42 | 0.00 |
|  | SC | 7.886 | 0.071 | 16.616 | 0.00 | 20.45 | 0.00 |
|  | SCI | 3.527 | 0.030 | 6.755 | 0.00 | 9.72 | 0.00 |
|  | PFV | 6.349 | 0.053 | 12.159 | 0.00 | 17.50 | 0.00 |
|  | V0(Cpi 0,00) | -4.347 | -0.355 | -13.695 | 1.29 | -30.41 | -0.01 |
|  | V0(Cpi-0,3) | -3.269 | -0.423 | -1.316 | 1.40 | -16.34 | -0.01 |
|  | V90(Cpi 0,00) | 10.846 | 0.476 | -14.178 | -0.17 | 40.04 | 0.00 |
|  | V90(Cpi-0,3) | 7.878 | 0.221 | -3.879 | -0.07 | 33.24 | 0.00 |
|  | V180(Cpi 0,00) | 3.936 | 14.345 | -21.339 | -1.13 | 9.39 | 0.00 |
|  | V180(Cpi-0,3) | -2.815 | 14.343 | -20.068 | -1.04 | -6.81 | 0.00 |
|  | V270(Cpi 0,00) | -29.146 | 0.918 | -31.602 | -0.34 | -75.66 | 0.00 |
|  | V270(Cpi -0,3) | -29.410 | 0.613 | -20.537 | -0.23 | -71.17 | 0.00 |
| N173 | Peso próprio | -3.179 | 0.015 | 21.305 | -0.01 | -11.55 | 0.00 |
|  | CP | -1.153 | 0.007 | 10.227 | 0.00 | -4.56 | 0.00 |
|  | SC | -5.778 | 0.023 | 25.055 | -0.02 | -19.74 | 0.00 |
|  | SCI | -3.117 | 0.008 | 7.156 | -0.01 | -8.68 | 0.00 |
|  | PFV | -5.610 | 0.015 | 12.881 | -0.01 | -15.62 | 0.00 |
|  | V0(Cpi 0,00) | -10.115 | -0.431 | -45.316 | 1.39 | -2.22 | 0.00 |
|  | V0(Cpi-0,3) | 0.299 | -0.491 | -16.055 | 1.49 | 17.50 | 0.00 |
|  | V90(Cpi 0,00) | 23.743 | 1.569 | -66.017 | -0.31 | 81.52 | 0.00 |
|  | V90(Cpi-0,3) | 27.913 | 1.073 | -34.549 | -0.21 | 75.60 | 0.00 |
|  | V180(Cpi 0,00) | -7.639 | 14.587 | -39.256 | -1.17 | -8.12 | 0.00 |
|  | V180(Cpi-0,3) | 1.371 | 14.534 | -17.863 | -1.08 | 0.50 | 0.00 |
|  | V270(Cpi 0,00) | -12.131 | 0.679 | -33.527 | -0.18 | -27.37 | 0.00 |
|  | V270(Cpi -0,3) | -10.831 | 0.243 | -16.687 | -0.07 | -32.78 | 0.00 |
| N409 | Peso próprio | 6.045 | 0.000 | 18.651 | 0.00 | 15.54 | 0.00 |
|  | CP | 2.549 | 0.000 | 8.833 | 0.00 | 6.43 | 0.00 |
|  | SC | 11.211 | -0.001 | 21.839 | 0.00 | 29.33 | 0.00 |
|  | SCI | 4.983 | -0.001 | 8.891 | 0.00 | 13.81 | 0.00 |
|  | PFV | 8.969 | -0.001 | 16.004 | 0.00 | 24.85 | 0.00 |
|  | V0(Cpi 0,00) | -8.578 | -0.313 | -40.658 | 1.23 | -41.18 | 0.00 |
|  | V0(Cpi-0,3) | -3.276 | -0.361 | -22.982 | 1.31 | -15.02 | 0.00 |
|  | V90(Cpi 0,00) | 7.442 | 0.076 | -23.287 | -0.13 | 37.44 | 0.00 |
|  | V90(Cpi-0,3) | 5.870 | 0.030 | -8.805 | -0.05 | 31.40 | 0.00 |
|  | V180(Cpi 0,00) | 5.134 | 0.252 | -0.656 | -1.11 | 14.45 | 0.00 |
|  | V180(Cpi-0,3) | 0.431 | 0.204 | 5.189 | -1.04 | 2.65 | 0.00 |
|  | V270(Cpi 0,00) | -39.918 | 0.143 | -44.250 | -0.24 | -109.08 | 0.00 |
|  | V270(Cpi -0,3) | -36.945 | 0.096 | -28.573 | -0.17 | -95.91 | 0.00 |
| N410 | Peso próprio | -5.637 | 0.016 | 23.274 | -0.01 | -18.58 | 0.00 |
|  | CP | -2.333 | 0.007 | 11.232 | 0.00 | -7.96 | 0.00 |
|  | SC | -10.551 | 0.025 | 29.602 | -0.02 | -33.29 | 0.00 |
|  | SCI | -4.940 | 0.010 | 8.880 | -0.01 | -13.64 | 0.00 |
|  | PFV | -8.891 | 0.017 | 15.983 | -0.01 | -24.56 | 0.00 |
|  | V0(Cpi 0,00) | -3.195 | -0.382 | -70.735 | 1.32 | 17.94 | 0.00 |
|  | V0(Cpi-0,3) | 4.757 | -0.423 | -35.547 | 1.39 | 30.38 | 0.00 |
|  | V90(Cpi 0,00) | 38.688 | 0.102 | -78.079 | -0.22 | 129.60 | 0.00 |
|  | V90(Cpi-0,3) | 35.997 | 0.068 | -41.464 | -0.14 | 101.96 | 0.00 |
|  | V180(Cpi 0,00) | -6.464 | 0.257 | -19.726 | -1.14 | -3.55 | 0.00 |
|  | V180(Cpi-0,3) | -1.072 | 0.213 | 7.100 | -1.07 | -6.48 | 0.00 |
|  | V270(Cpi 0,00) | -6.383 | 0.067 | -43.217 | -0.13 | -14.45 | 0.00 |
|  | V270(Cpi -0,3) | -9.093 | 0.029 | -21.900 | -0.05 | -31.31 | 0.00 |
| N573 | Peso próprio | 5.976 | -0.001 | 18.740 | 0.00 | 15.18 | 0.00 |
|  | CP | 2.327 | 0.000 | 8.584 | 0.00 | 5.72 | 0.00 |
|  | SC | 10.364 | -0.001 | 20.947 | 0.00 | 26.73 | 0.00 |
|  | SCI | 4.715 | -0.001 | 8.564 | 0.00 | 13.06 | 0.00 |
|  | PFV | 8.488 | -0.001 | 15.416 | 0.00 | 23.51 | 0.00 |
|  | V0(Cpi 0,00) | -3.391 | -14.766 | -42.320 | 1.19 | -15.07 | 0.00 |
|  | V0(Cpi-0,3) | 1.970 | -14.870 | -26.737 | 1.24 | 8.94 | 0.00 |
|  | V90(Cpi 0,00) | 10.968 | 0.007 | -21.161 | -0.08 | 50.90 | 0.00 |
|  | V90(Cpi-0,3) | 7.445 | 0.018 | -7.015 | -0.03 | 36.27 | 0.00 |
|  | V180(Cpi 0,00) | 1.349 | 0.252 | 11.749 | -1.11 | 5.22 | 0.00 |
|  | V180(Cpi-0,3) | 0.885 | 0.220 | 26.155 | -1.07 | 4.60 | 0.00 |
|  | V270(Cpi 0,00) | -40.466 | 0.042 | -43.589 | -0.16 | -112.36 | 0.00 |
|  | V270(Cpi -0,3) | -37.970 | 0.029 | -28.457 | -0.11 | -100.70 | 0.00 |
| N574 | Peso próprio | -5.910 | 0.010 | 23.422 | -0.01 | -19.51 | 0.00 |
|  | CP | -2.287 | 0.004 | 11.016 | 0.00 | -7.93 | 0.00 |
|  | SC | -10.284 | 0.016 | 28.784 | -0.01 | -32.83 | 0.00 |
|  | SCI | -4.764 | 0.006 | 8.517 | -0.01 | -13.17 | 0.00 |
|  | PFV | -8.576 | 0.011 | 15.331 | -0.01 | -23.70 | 0.00 |
|  | V0(Cpi 0,00) | -3.086 | -14.660 | -66.950 | 1.27 | 11.49 | 0.00 |
|  | V0(Cpi-0,3) | 18.439 | -14.768 | -31.927 | 1.32 | 40.41 | 0.00 |
|  | V90(Cpi 0,00) | 40.940 | 0.011 | -77.711 | -0.15 | 139.58 | 0.00 |
|  | V90(Cpi-0,3) | 21.798 | 0.036 | -41.699 | -0.10 | 83.56 | 0.00 |
|  | V180(Cpi 0,00) | -0.732 | 0.276 | -8.180 | -1.15 | 12.93 | 0.00 |
|  | V180(Cpi-0,3) | -0.505 | 0.245 | 27.469 | -1.11 | -4.87 | 0.00 |
|  | V270(Cpi 0,00) | -8.236 | -0.009 | -41.560 | -0.08 | -21.28 | 0.00 |
|  | V270(Cpi -0,3) | -10.882 | -0.017 | -20.736 | -0.03 | -38.19 | 0.00 |
| N721 | Peso próprio | 6.760 | 0.000 | 19.858 | 0.00 | 17.33 | 0.00 |
|  | CP | 2.643 | 0.000 | 9.076 | 0.00 | 6.59 | 0.00 |
|  | SC | 11.683 | 0.000 | 22.773 | 0.00 | 30.34 | 0.00 |
|  | SCI | 5.250 | 0.000 | 9.285 | 0.00 | 14.54 | 0.00 |
|  | PFV | 9.451 | 0.000 | 16.713 | 0.00 | 26.17 | 0.00 |
|  | V0(Cpi 0,00) | -4.615 | -0.272 | -2.128 | 1.15 | -16.51 | 0.00 |
|  | V0(Cpi-0,3) | 1.253 | -0.287 | 14.171 | 1.18 | 8.38 | 0.00 |
|  | V90(Cpi 0,00) | 9.575 | 0.170 | -23.848 | -0.04 | 47.47 | 0.00 |
|  | V90(Cpi-0,3) | 6.606 | 0.079 | -8.630 | -0.02 | 34.14 | 0.00 |
|  | V180(Cpi 0,00) | 0.499 | 14.335 | -29.789 | -1.11 | 1.85 | 0.00 |
|  | V180(Cpi-0,3) | 0.190 | 14.548 | -15.653 | -1.10 | 1.54 | 0.00 |
|  | V270(Cpi 0,00) | -42.290 | 0.348 | -46.262 | -0.08 | -117.65 | 0.00 |
|  | V270(Cpi -0,3) | -39.105 | 0.228 | -29.978 | -0.05 | -104.11 | 0.00 |
| N722 | Peso próprio | -6.576 | 0.006 | 24.620 | 0.00 | -21.42 | 0.00 |
|  | CP | -2.557 | 0.003 | 11.540 | 0.00 | -8.70 | 0.00 |
|  | SC | -11.408 | 0.010 | 30.750 | -0.01 | -36.05 | 0.00 |
|  | SCI | -5.213 | 0.003 | 9.302 | 0.00 | -14.44 | 0.00 |
|  | PFV | -9.383 | 0.006 | 16.744 | 0.00 | -25.99 | 0.00 |
|  | V0(Cpi 0,00) | 0.663 | -0.325 | -27.092 | 1.23 | 21.75 | 0.00 |
|  | V0(Cpi-0,3) | 22.272 | -0.336 | 9.451 | 1.25 | 49.77 | 0.00 |
|  | V90(Cpi 0,00) | 42.573 | 0.629 | -81.049 | -0.07 | 144.78 | 0.00 |
|  | V90(Cpi-0,3) | 22.116 | 0.387 | -43.806 | -0.04 | 85.27 | 0.00 |
|  | V180(Cpi 0,00) | -1.962 | 14.456 | -49.122 | -1.16 | 9.95 | 0.00 |
|  | V180(Cpi-0,3) | -1.680 | 14.604 | -13.450 | -1.15 | -7.84 | 0.00 |
|  | V270(Cpi 0,00) | -6.945 | 0.302 | -44.256 | -0.04 | -17.93 | 0.00 |
|  | V270(Cpi -0,3) | -10.199 | 0.130 | -22.172 | -0.02 | -36.58 | 0.00 |
| N885 | Peso próprio | 5.923 | 0.000 | 18.665 | 0.00 | 14.96 | 0.00 |
|  | CP | 2.481 | 0.000 | 8.830 | 0.00 | 6.12 | 0.00 |
|  | SC | 11.022 | 0.000 | 21.871 | 0.00 | 28.43 | 0.00 |
|  | SCI | 4.997 | 0.000 | 8.934 | 0.00 | 13.82 | 0.00 |
|  | PFV | 8.995 | 0.000 | 16.081 | 0.00 | 24.88 | 0.00 |
|  | V0(Cpi 0,00) | -1.257 | -0.253 | -15.194 | 1.13 | -4.87 | 0.00 |
|  | V0(Cpi-0,3) | 2.423 | -0.253 | 0.494 | 1.13 | 11.11 | 0.00 |
|  | V90(Cpi 0,00) | 10.616 | 0.000 | -22.397 | 0.00 | 50.82 | 0.00 |
|  | V90(Cpi-0,3) | 8.943 | 0.000 | -5.798 | 0.00 | 42.55 | 0.00 |
|  | V180(Cpi 0,00) | -0.580 | 0.254 | -14.953 | -1.11 | -2.08 | 0.00 |
|  | V180(Cpi-0,3) | -0.261 | 0.253 | 0.002 | -1.13 | -0.62 | 0.00 |
|  | V270(Cpi 0,00) | -41.719 | 0.000 | -45.048 | 0.00 | -116.31 | 0.00 |
|  | V270(Cpi -0,3) | -38.883 | 0.000 | -29.340 | 0.00 | -103.79 | 0.00 |
| N886 | Peso próprio | -5.890 | 0.000 | 23.393 | 0.00 | -19.53 | 0.00 |
|  | CP | -2.452 | 0.000 | 11.286 | 0.00 | -8.42 | 0.00 |
|  | SC | -10.952 | 0.000 | 29.802 | 0.00 | -34.80 | 0.00 |
|  | SCI | -5.015 | 0.000 | 8.919 | 0.00 | -13.88 | 0.00 |
|  | PFV | -9.028 | 0.000 | 16.055 | 0.00 | -24.99 | 0.00 |
|  | V0(Cpi 0,00) | -0.869 | -0.283 | -37.201 | 1.18 | 15.33 | 0.00 |
|  | V0(Cpi-0,3) | 10.836 | -0.282 | -1.393 | 1.18 | 23.83 | 0.00 |
|  | V90(Cpi 0,00) | 42.253 | 0.000 | -79.568 | 0.00 | 144.19 | 0.00 |
|  | V90(Cpi-0,3) | 30.380 | 0.000 | -42.179 | 0.00 | 99.32 | 0.00 |
|  | V180(Cpi 0,00) | -0.213 | 0.282 | -37.452 | -1.16 | 18.09 | 0.00 |
|  | V180(Cpi-0,3) | -0.298 | 0.282 | -0.922 | -1.18 | -0.58 | 0.00 |
|  | V270(Cpi 0,00) | -7.774 | 0.000 | -42.807 | 0.00 | -20.53 | 0.00 |
|  | V270(Cpi -0,3) | -10.796 | 0.000 | -21.332 | 0.00 | -38.56 | 0.00 |
| N1049 | Peso próprio | 6.759 | 0.000 | 19.851 | 0.00 | 17.33 | 0.00 |
|  | CP | 2.642 | 0.000 | 9.073 | 0.00 | 6.59 | 0.00 |
|  | SC | 11.681 | 0.000 | 22.764 | 0.00 | 30.34 | 0.00 |
|  | SCI | 5.250 | 0.000 | 9.281 | 0.00 | 14.54 | 0.00 |
|  | PFV | 9.450 | 0.000 | 16.707 | 0.00 | 26.17 | 0.00 |
|  | V0(Cpi 0,00) | -0.369 | -14.566 | -31.120 | 1.12 | -0.88 | 0.00 |
|  | V0(Cpi-0,3) | 2.086 | -14.493 | -14.904 | 1.09 | 9.32 | 0.00 |
|  | V90(Cpi 0,00) | 8.998 | -0.231 | -24.295 | 0.04 | 45.13 | 0.00 |
|  | V90(Cpi-0,3) | 10.040 | -0.080 | -4.793 | 0.02 | 47.11 | 0.00 |
|  | V180(Cpi 0,00) | -3.272 | 0.273 | -2.210 | -1.14 | -10.67 | 0.00 |
|  | V180(Cpi-0,3) | -2.008 | 0.287 | 14.012 | -1.18 | -6.29 | 0.00 |
|  | V270(Cpi 0,00) | -42.287 | -0.334 | -46.217 | 0.08 | -117.65 | 0.00 |
|  | V270(Cpi -0,3) | -39.104 | -0.219 | -29.949 | 0.05 | -104.10 | 0.00 |
| N1050 | Peso próprio | -6.575 | -0.006 | 24.613 | 0.00 | -21.42 | 0.00 |
|  | CP | -2.557 | -0.003 | 11.537 | 0.00 | -8.70 | 0.00 |
|  | SC | -11.406 | -0.010 | 30.739 | 0.01 | -36.05 | 0.00 |
|  | SCI | -5.212 | -0.003 | 9.298 | 0.00 | -14.43 | 0.00 |
|  | PFV | -9.382 | -0.006 | 16.736 | 0.01 | -25.98 | 0.00 |
|  | V0(Cpi 0,00) | -1.424 | -14.813 | -50.345 | 1.17 | 11.11 | 0.00 |
|  | V0(Cpi-0,3) | 0.113 | -14.646 | -14.080 | 1.15 | -0.33 | 0.00 |
|  | V90(Cpi 0,00) | 42.076 | -0.598 | -80.914 | 0.06 | 142.71 | 0.00 |
|  | V90(Cpi-0,3) | 39.406 | -0.367 | -42.227 | 0.04 | 115.18 | 0.00 |
|  | V180(Cpi 0,00) | 2.573 | 0.325 | -28.094 | -1.21 | 29.09 | 0.00 |
|  | V180(Cpi-0,3) | 2.288 | 0.336 | 9.657 | -1.25 | 10.19 | 0.00 |
|  | V270(Cpi 0,00) | -6.948 | -0.292 | -44.220 | 0.04 | -17.93 | 0.00 |
|  | V270(Cpi -0,3) | -10.201 | -0.125 | -22.154 | 0.01 | -36.59 | 0.00 |
| N1197 | Peso próprio | 5.978 | 0.001 | 18.747 | 0.00 | 15.19 | 0.00 |
|  | CP | 2.329 | 0.000 | 8.586 | 0.00 | 5.73 | 0.00 |
|  | SC | 10.369 | 0.001 | 20.956 | 0.00 | 26.74 | 0.00 |
|  | SCI | 4.717 | 0.001 | 8.568 | 0.00 | 13.06 | 0.00 |
|  | PFV | 8.491 | 0.001 | 15.423 | 0.00 | 23.52 | 0.00 |
|  | V0(Cpi 0,00) | 1.047 | -0.252 | 11.525 | 1.12 | 4.19 | 0.00 |
|  | V0(Cpi-0,3) | 2.977 | -0.220 | 26.574 | 1.06 | 12.55 | 0.00 |
|  | V90(Cpi 0,00) | 9.910 | -0.050 | -21.085 | 0.09 | 47.27 | 0.00 |
|  | V90(Cpi-0,3) | 10.887 | -0.020 | -3.553 | 0.03 | 49.42 | 0.00 |
|  | V180(Cpi 0,00) | -1.599 | 14.521 | -41.070 | -1.18 | -7.34 | 0.00 |
|  | V180(Cpi-0,3) | -1.207 | 14.933 | -27.185 | -1.24 | -5.31 | 0.00 |
|  | V270(Cpi 0,00) | -40.473 | -0.028 | -43.634 | 0.16 | -112.38 | 0.00 |
|  | V270(Cpi -0,3) | -37.973 | -0.021 | -28.486 | 0.11 | -100.71 | 0.00 |
| N1198 | Peso próprio | -5.913 | -0.010 | 23.430 | 0.01 | -19.52 | 0.00 |
|  | CP | -2.288 | -0.004 | 11.019 | 0.00 | -7.93 | 0.00 |
|  | SC | -10.288 | -0.016 | 28.796 | 0.01 | -32.84 | 0.00 |
|  | SCI | -4.766 | -0.006 | 8.522 | 0.01 | -13.17 | 0.00 |
|  | PFV | -8.579 | -0.011 | 15.339 | 0.01 | -23.71 | 0.00 |
|  | V0(Cpi 0,00) | -0.782 | -0.272 | -8.181 | 1.17 | 12.60 | 0.00 |
|  | V0(Cpi-0,3) | 1.305 | -0.244 | 26.876 | 1.11 | 2.55 | 0.00 |
|  | V90(Cpi 0,00) | 40.260 | 0.017 | -77.466 | 0.14 | 136.68 | 0.00 |
|  | V90(Cpi-0,3) | 38.532 | -0.023 | -40.566 | 0.09 | 112.63 | 0.00 |
|  | V180(Cpi 0,00) | -1.486 | 14.348 | -67.201 | -1.25 | 18.68 | 0.00 |
|  | V180(Cpi-0,3) | -0.719 | 14.748 | -31.619 | -1.32 | 2.85 | 0.00 |
|  | V270(Cpi 0,00) | -8.230 | 0.018 | -41.595 | 0.08 | -21.27 | 0.00 |
|  | V270(Cpi -0,3) | -10.878 | 0.022 | -20.754 | 0.03 | -38.17 | 0.00 |
| N1361 | Peso próprio | 6.046 | 0.000 | 18.651 | 0.00 | 15.54 | 0.00 |
|  | CP | 2.549 | 0.000 | 8.833 | 0.00 | 6.43 | 0.00 |
|  | SC | 11.211 | 0.001 | 21.839 | 0.00 | 29.33 | 0.00 |
|  | SCI | 4.983 | 0.001 | 8.891 | 0.00 | 13.81 | 0.00 |
|  | PFV | 8.969 | 0.001 | 16.004 | 0.00 | 24.86 | 0.00 |
|  | V0(Cpi 0,00) | -0.065 | -0.252 | -9.877 | 1.12 | -0.03 | 0.00 |
|  | V0(Cpi-0,3) | 9.928 | -0.204 | 5.365 | 1.04 | 21.45 | 0.00 |
|  | V90(Cpi 0,00) | -1.629 | -0.076 | -23.316 | 0.13 | 20.41 | 0.00 |
|  | V90(Cpi-0,3) | 7.545 | -0.030 | -7.885 | 0.05 | 38.16 | 0.00 |
|  | V180(Cpi 0,00) | -6.821 | 0.314 | -39.412 | -1.21 | -29.75 | 0.01 |
|  | V180(Cpi-0,3) | -5.269 | 0.361 | -23.555 | -1.31 | -23.43 | 0.00 |
|  | V270(Cpi 0,00) | -39.919 | -0.143 | -44.251 | 0.24 | -109.09 | 0.00 |
|  | V270(Cpi -0,3) | -36.946 | -0.096 | -28.573 | 0.16 | -95.91 | 0.00 |
| N1362 | Peso próprio | -5.637 | -0.016 | 23.274 | 0.01 | -18.58 | 0.00 |
|  | CP | -2.333 | -0.007 | 11.232 | 0.01 | -7.96 | 0.00 |
|  | SC | -10.552 | -0.025 | 29.602 | 0.02 | -33.29 | 0.00 |
|  | SCI | -4.940 | -0.010 | 8.880 | 0.01 | -13.64 | 0.00 |
|  | PFV | -8.891 | -0.017 | 15.983 | 0.01 | -24.56 | 0.00 |
|  | V0(Cpi 0,00) | -1.469 | -0.252 | -28.930 | 1.15 | 10.15 | 0.00 |
|  | V0(Cpi-0,3) | 0.575 | -0.212 | 6.938 | 1.07 | 0.85 | 0.00 |
|  | V90(Cpi 0,00) | 37.465 | -0.102 | -78.083 | 0.21 | 124.04 | 0.00 |
|  | V90(Cpi-0,3) | 38.284 | -0.068 | -41.633 | 0.14 | 109.86 | 0.00 |
|  | V180(Cpi 0,00) | 1.080 | 0.380 | -71.832 | -1.30 | 35.28 | 0.00 |
|  | V180(Cpi-0,3) | 1.750 | 0.421 | -35.001 | -1.38 | 19.71 | 0.00 |
|  | V270(Cpi 0,00) | -6.382 | -0.067 | -43.217 | 0.12 | -14.45 | 0.00 |
|  | V270(Cpi -0,3) | -9.093 | -0.029 | -21.900 | 0.05 | -31.31 | 0.00 |
| N1525 | Peso próprio | 4.522 | 0.000 | 16.278 | 0.00 | 11.54 | 0.00 |
|  | CP | 1.780 | -0.001 | 7.694 | 0.00 | 4.42 | 0.00 |
|  | SC | 7.888 | -0.076 | 16.621 | 0.00 | 20.45 | 0.00 |
|  | SCI | 3.528 | -0.031 | 6.758 | 0.00 | 9.72 | 0.00 |
|  | PFV | 6.350 | -0.057 | 12.164 | 0.00 | 17.50 | 0.00 |
|  | V0(Cpi 0,00) | -0.332 | -14.546 | -29.882 | 1.14 | -2.35 | 0.00 |
|  | V0(Cpi-0,3) | 6.732 | -14.289 | -20.152 | 1.03 | 11.54 | 0.00 |
|  | V90(Cpi 0,00) | 1.351 | -0.586 | -14.210 | 0.18 | 21.93 | 0.00 |
|  | V90(Cpi-0,3) | 8.497 | -0.223 | -3.705 | 0.07 | 35.79 | 0.00 |
|  | V180(Cpi 0,00) | -2.602 | 0.357 | -12.668 | -1.28 | -18.68 | 0.01 |
|  | V180(Cpi-0,3) | -3.969 | 0.422 | -1.367 | -1.40 | -19.27 | 0.01 |
|  | V270(Cpi 0,00) | -29.166 | -0.892 | -31.616 | 0.34 | -75.72 | 0.00 |
|  | V270(Cpi -0,3) | -29.423 | -0.596 | -20.546 | 0.23 | -71.21 | 0.00 |
| N1526 | Peso próprio | -3.181 | -0.015 | 21.310 | 0.01 | -11.56 | 0.00 |
|  | CP | -1.154 | -0.007 | 10.229 | 0.00 | -4.56 | 0.00 |
|  | SC | -5.779 | -0.023 | 25.060 | 0.02 | -19.74 | 0.00 |
|  | SCI | -3.117 | -0.008 | 7.158 | 0.01 | -8.68 | 0.00 |
|  | PFV | -5.611 | -0.015 | 12.885 | 0.01 | -15.62 | 0.00 |
|  | V0(Cpi 0,00) | -3.707 | -14.994 | -48.370 | 1.18 | 2.83 | 0.00 |
|  | V0(Cpi-0,3) | 2.845 | -14.588 | -18.193 | 1.08 | 7.07 | 0.00 |
|  | V90(Cpi 0,00) | 22.357 | -1.499 | -65.740 | 0.31 | 75.30 | 0.00 |
|  | V90(Cpi-0,3) | 28.504 | -1.048 | -34.805 | 0.21 | 78.12 | 0.00 |
|  | V180(Cpi 0,00) | -5.658 | 0.428 | -47.269 | -1.37 | 15.96 | 0.00 |
|  | V180(Cpi-0,3) | -0.440 | 0.489 | -15.719 | -1.49 | 14.39 | 0.00 |
|  | V270(Cpi 0,00) | -12.115 | -0.660 | -33.544 | 0.18 | -27.33 | 0.00 |
|  | V270(Cpi -0,3) | -10.823 | -0.234 | -16.697 | 0.07 | -32.76 | 0.00 |
| N1666 | Peso próprio | -0.433 | 0.000 | 8.374 | 0.00 | -2.19 | 0.00 |
|  | CP | -0.205 | -0.001 | 3.912 | 0.00 | -1.07 | 0.00 |
|  | SC | -0.711 | 0.002 | 1.968 | 0.00 | -3.16 | 0.00 |
|  | SCI | -0.138 | 0.001 | 1.066 | 0.00 | -0.25 | 0.00 |
|  | PFV | -0.249 | 0.002 | 1.920 | 0.00 | -0.45 | 0.00 |
|  | V0(Cpi 0,00) | 2.371 | -1.233 | 20.765 | 1.68 | 9.12 | 0.00 |
|  | V0(Cpi-0,3) | 3.901 | -0.206 | 21.467 | 1.03 | 9.12 | 0.00 |
|  | V90(Cpi 0,00) | 10.381 | -1.704 | 6.995 | 1.08 | 44.92 | 0.00 |
|  | V90(Cpi-0,3) | 11.852 | -0.681 | 7.242 | 0.43 | 44.69 | 0.00 |
|  | V180(Cpi 0,00) | 5.025 | 17.249 | -23.267 | -2.57 | 11.70 | 0.01 |
|  | V180(Cpi-0,3) | 2.552 | 18.794 | -23.592 | -3.23 | 3.70 | 0.01 |
|  | V270(Cpi 0,00) | -11.377 | -3.131 | -8.812 | 1.99 | -32.39 | 0.00 |
|  | V270(Cpi -0,3) | -13.330 | -2.107 | -7.673 | 1.34 | -36.31 | 0.00 |
| N1667 | Peso próprio | 0.139 | 0.187 | 11.476 | 0.01 | -1.33 | 0.00 |
|  | CP | 0.068 | 0.081 | 5.474 | 0.00 | -0.64 | 0.00 |
|  | SC | -0.067 | 0.289 | 5.775 | 0.02 | -2.33 | 0.00 |
|  | SCI | -0.142 | 0.113 | 0.658 | 0.01 | -0.50 | 0.00 |
|  | PFV | -0.255 | 0.203 | 1.185 | 0.01 | -0.89 | 0.00 |
|  | V0(Cpi 0,00) | -0.953 | -1.226 | 8.713 | 1.71 | 4.08 | -0.01 |
|  | V0(Cpi-0,3) | 2.824 | -0.207 | 20.408 | 1.06 | 8.15 | -0.01 |
|  | V90(Cpi 0,00) | 11.215 | -3.067 | -26.100 | 1.94 | 43.89 | -0.01 |
|  | V90(Cpi-0,3) | 14.915 | -2.063 | -14.561 | 1.30 | 47.70 | -0.01 |
|  | V180(Cpi 0,00) | -6.157 | 16.731 | -41.204 | -2.62 | -2.62 | 0.02 |
|  | V180(Cpi-0,3) | -3.775 | 18.296 | -28.982 | -3.28 | -3.68 | 0.01 |
|  | V270(Cpi 0,00) | -11.997 | -1.683 | -5.886 | 1.06 | -34.55 | -0.01 |
|  | V270(Cpi -0,3) | -10.532 | -0.674 | -1.608 | 0.43 | -34.61 | 0.00 |
| N1668 | Peso próprio | -0.840 | 0.681 | 9.067 | -1.92 | -0.03 | 0.00 |
|  | CP | -0.418 | 0.280 | 5.029 | -0.79 | -0.02 | 0.00 |
|  | SC | -1.152 | 1.156 | 5.777 | -3.26 | -0.05 | 0.00 |
|  | SCI | -0.051 | 0.457 | 2.662 | -1.29 | -0.01 | 0.00 |
|  | PFV | -0.092 | 0.823 | 4.791 | -2.32 | -0.01 | 0.00 |
|  | V0(Cpi 0,00) | -1.943 | -15.326 | -14.112 | 29.48 | -0.13 | 0.00 |
|  | V0(Cpi-0,3) | 0.014 | -19.491 | -5.897 | 34.38 | 0.06 | 0.00 |
|  | V90(Cpi 0,00) | 0.262 | 6.164 | 6.291 | -5.98 | 0.91 | 0.00 |
|  | V90(Cpi-0,3) | 0.225 | 2.215 | 8.461 | -1.70 | 0.74 | 0.00 |
|  | V180(Cpi 0,00) | 0.023 | 6.604 | 3.314 | -14.35 | 0.12 | 0.00 |
|  | V180(Cpi-0,3) | -0.105 | 2.106 | 3.324 | -8.60 | 0.00 | 0.00 |
|  | V270(Cpi 0,00) | -9.230 | 12.669 | -23.468 | -14.78 | -0.56 | 0.00 |
|  | V270(Cpi -0,3) | -10.158 | 8.666 | -18.824 | -10.34 | -0.60 | 0.00 |
| N1669 | Peso próprio | -0.003 | 0.906 | 11.357 | -2.73 | -0.03 | 0.00 |
|  | CP | -0.001 | 0.362 | 5.618 | -1.09 | -0.01 | 0.00 |
|  | SC | -0.008 | 1.501 | 8.495 | -4.52 | -0.05 | 0.00 |
|  | SCI | -0.003 | 0.599 | 2.855 | -1.80 | -0.01 | 0.00 |
|  | PFV | -0.005 | 1.078 | 5.139 | -3.25 | -0.01 | 0.00 |
|  | V0(Cpi 0,00) | -0.083 | -15.366 | -10.535 | 32.20 | -0.18 | 0.00 |
|  | V0(Cpi-0,3) | 1.325 | -19.074 | -8.134 | 36.40 | 0.04 | 0.00 |
|  | V90(Cpi 0,00) | 18.030 | 5.774 | -32.003 | -5.60 | 0.89 | 0.00 |
|  | V90(Cpi-0,3) | 14.092 | 2.149 | -21.347 | -1.63 | 0.75 | 0.00 |
|  | V180(Cpi 0,00) | 2.988 | 6.180 | -3.142 | -14.14 | 0.10 | 0.00 |
|  | V180(Cpi-0,3) | 0.003 | 1.861 | 3.412 | -8.20 | 0.00 | 0.00 |
|  | V270(Cpi 0,00) | -0.209 | 11.375 | -6.114 | -13.19 | -0.57 | 0.00 |
|  | V270(Cpi -0,3) | -0.216 | 7.729 | 0.709 | -9.17 | -0.61 | 0.00 |
| N1670 | Peso próprio | -0.881 | 0.904 | 9.400 | -2.73 | -0.02 | 0.00 |
|  | CP | -0.429 | 0.361 | 4.632 | -1.09 | -0.01 | 0.00 |
|  | SC | -1.221 | 1.498 | 5.901 | -4.52 | -0.04 | 0.00 |
|  | SCI | -0.096 | 0.599 | 2.835 | -1.81 | -0.01 | 0.00 |
|  | PFV | -0.173 | 1.077 | 5.102 | -3.25 | -0.01 | 0.00 |
|  | V0(Cpi 0,00) | -2.185 | -15.463 | -15.247 | 32.58 | -0.22 | 0.00 |
|  | V0(Cpi-0,3) | -0.013 | -19.093 | -5.078 | 36.52 | 0.02 | 0.00 |
|  | V90(Cpi 0,00) | 0.242 | 11.282 | 3.850 | -12.84 | 0.87 | 0.00 |
|  | V90(Cpi-0,3) | 0.231 | 7.674 | 5.285 | -8.98 | 0.75 | 0.00 |
|  | V180(Cpi 0,00) | 0.001 | 6.188 | 3.961 | -14.15 | 0.08 | 0.00 |
|  | V180(Cpi-0,3) | -0.100 | 1.861 | 3.006 | -8.21 | 0.01 | 0.00 |
|  | V270(Cpi 0,00) | -9.217 | 5.887 | -21.092 | -5.93 | -0.58 | 0.00 |
|  | V270(Cpi -0,3) | -10.088 | 2.238 | -16.323 | -1.91 | -0.61 | 0.00 |
| N1671 | Peso próprio | 0.004 | 0.652 | 10.656 | -1.83 | -0.02 | 0.00 |
|  | CP | 0.002 | 0.266 | 5.805 | -0.75 | -0.01 | 0.00 |
|  | SC | 0.000 | 1.115 | 7.956 | -3.14 | -0.04 | 0.00 |
|  | SCI | -0.002 | 0.452 | 2.812 | -1.27 | -0.01 | 0.00 |
|  | PFV | -0.004 | 0.814 | 5.061 | -2.29 | -0.01 | 0.00 |
|  | V0(Cpi 0,00) | -0.136 | -15.533 | -12.153 | 30.20 | -0.27 | 0.00 |
|  | V0(Cpi-0,3) | 1.250 | -19.502 | -8.541 | 34.52 | -0.01 | 0.00 |
|  | V90(Cpi 0,00) | 18.107 | 12.745 | -31.877 | -15.01 | 0.85 | 0.00 |
|  | V90(Cpi-0,3) | 14.301 | 8.689 | -22.865 | -10.43 | 0.75 | 0.00 |
|  | V180(Cpi 0,00) | 2.811 | 6.734 | -1.715 | -14.79 | 0.06 | 0.00 |
|  | V180(Cpi-0,3) | 0.007 | 2.152 | 3.691 | -8.81 | 0.01 | 0.00 |
|  | V270(Cpi 0,00) | -0.219 | 6.349 | -1.142 | -6.52 | -0.59 | 0.00 |
|  | V270(Cpi -0,3) | -0.212 | 2.317 | 5.137 | -1.99 | -0.60 | 0.00 |
| N1856 | Peso próprio | -0.840 | -0.681 | 9.069 | 1.92 | -0.03 | 0.00 |
|  | CP | -0.418 | -0.280 | 5.028 | 0.79 | -0.02 | 0.00 |
|  | SC | -1.152 | -1.156 | 5.776 | 3.26 | -0.05 | 0.00 |
|  | SCI | -0.051 | -0.457 | 2.661 | 1.29 | -0.01 | 0.00 |
|  | PFV | -0.092 | -0.823 | 4.790 | 2.32 | -0.01 | 0.00 |
|  | V0(Cpi 0,00) | 0.027 | -6.096 | 0.234 | 12.98 | 0.13 | 0.00 |
|  | V0(Cpi-0,3) | 0.055 | -2.116 | 5.374 | 8.62 | 0.15 | 0.00 |
|  | V90(Cpi 0,00) | 0.207 | -6.169 | 4.218 | 6.02 | 0.75 | 0.00 |
|  | V90(Cpi-0,3) | 0.234 | -2.213 | 8.981 | 1.69 | 0.77 | 0.00 |
|  | V180(Cpi 0,00) | 0.020 | 15.491 | -10.423 | -29.89 | 0.13 | 0.00 |
|  | V180(Cpi-0,3) | 0.003 | 19.508 | -6.460 | -34.45 | 0.02 | 0.00 |
|  | V270(Cpi 0,00) | -9.231 | -12.684 | -23.470 | 14.82 | -0.56 | 0.00 |
|  | V270(Cpi -0,3) | -10.159 | -8.676 | -18.823 | 10.37 | -0.60 | 0.00 |
| N1857 | Peso próprio | -0.003 | -0.901 | 11.346 | 2.71 | -0.03 | 0.00 |
|  | CP | -0.001 | -0.360 | 5.614 | 1.08 | -0.01 | 0.00 |
|  | SC | -0.008 | -1.491 | 8.482 | 4.49 | -0.05 | 0.00 |
|  | SCI | -0.003 | -0.595 | 2.850 | 1.79 | -0.01 | 0.00 |
|  | PFV | -0.005 | -1.071 | 5.130 | 3.23 | -0.01 | 0.00 |
|  | V0(Cpi 0,00) | 3.145 | -5.524 | -6.583 | 12.25 | 0.11 | 0.00 |
|  | V0(Cpi-0,3) | 2.286 | -1.903 | 1.107 | 8.32 | 0.15 | 0.00 |
|  | V90(Cpi 0,00) | 15.661 | -5.763 | -29.672 | 5.59 | 0.75 | 0.00 |
|  | V90(Cpi-0,3) | 14.727 | -2.164 | -22.013 | 1.68 | 0.78 | 0.00 |
|  | V180(Cpi 0,00) | 3.251 | 15.423 | -16.908 | -32.29 | 0.08 | 0.00 |
|  | V180(Cpi-0,3) | 0.624 | 19.096 | -7.439 | -36.50 | 0.00 | 0.00 |
|  | V270(Cpi 0,00) | -0.209 | -11.416 | -6.043 | 13.31 | -0.57 | 0.00 |
|  | V270(Cpi -0,3) | -0.216 | -7.755 | 0.757 | 9.25 | -0.61 | 0.00 |
| N1858 | Peso próprio | -0.882 | -0.898 | 9.390 | 2.71 | -0.02 | 0.00 |
|  | CP | -0.429 | -0.358 | 4.629 | 1.08 | -0.01 | 0.00 |
|  | SC | -1.222 | -1.488 | 5.889 | 4.49 | -0.04 | 0.00 |
|  | SCI | -0.096 | -0.595 | 2.830 | 1.79 | -0.01 | 0.00 |
|  | PFV | -0.174 | -1.070 | 5.093 | 3.23 | -0.01 | 0.00 |
|  | V0(Cpi 0,00) | 0.006 | -5.549 | 0.764 | 12.34 | 0.10 | 0.00 |
|  | V0(Cpi-0,3) | 0.055 | -1.908 | 5.752 | 8.34 | 0.15 | 0.00 |
|  | V90(Cpi 0,00) | 0.193 | -11.256 | 1.183 | 12.77 | 0.73 | 0.00 |
|  | V90(Cpi-0,3) | 0.241 | -7.696 | 5.999 | 9.04 | 0.78 | 0.00 |
|  | V180(Cpi 0,00) | -0.034 | 15.405 | -8.920 | -32.28 | 0.04 | 0.00 |
|  | V180(Cpi-0,3) | -0.023 | 19.082 | -5.870 | -36.47 | -0.02 | 0.00 |
|  | V270(Cpi 0,00) | -9.217 | -5.913 | -21.058 | 6.00 | -0.58 | 0.00 |
|  | V270(Cpi -0,3) | -10.089 | -2.250 | -16.310 | 1.94 | -0.61 | 0.00 |
| N1859 | Peso próprio | 0.004 | -0.651 | 10.657 | 1.83 | -0.02 | 0.00 |
|  | CP | 0.002 | -0.266 | 5.805 | 0.75 | -0.01 | 0.00 |
|  | SC | 0.000 | -1.115 | 7.954 | 3.14 | -0.04 | 0.00 |
|  | SCI | -0.003 | -0.452 | 2.811 | 1.27 | -0.01 | 0.00 |
|  | PFV | -0.005 | -0.814 | 5.060 | 2.29 | -0.01 | 0.00 |
|  | V0(Cpi 0,00) | 3.008 | -6.267 | -5.145 | 13.58 | 0.07 | 0.00 |
|  | V0(Cpi-0,3) | 2.216 | -2.201 | 1.862 | 8.95 | 0.14 | 0.00 |
|  | V90(Cpi 0,00) | 15.809 | -12.693 | -30.037 | 14.85 | 0.71 | 0.00 |
|  | V90(Cpi-0,3) | 14.938 | -8.707 | -23.413 | 10.47 | 0.78 | 0.00 |
|  | V180(Cpi 0,00) | 3.007 | 15.414 | -16.538 | -29.75 | -0.01 | 0.00 |
|  | V180(Cpi-0,3) | 0.550 | 19.508 | -7.961 | -34.53 | -0.04 | 0.00 |
|  | V270(Cpi 0,00) | -0.219 | -6.359 | -1.148 | 6.54 | -0.59 | 0.00 |
|  | V270(Cpi -0,3) | -0.212 | -2.321 | 5.132 | 2.00 | -0.60 | 0.00 |