Resumo de Materiais (Moldados in Loco)

Resumo por elemento e por pavimento

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pavimento | Elemento | Peso do aço  +10 % (kg) | Volume de  concreto (m³) | Área de forma  (m²) | Consumo de  aço (kg/m³) | Peso treliças  (kg) |
| Pavimento Superior | Vigas | 390.9 | 5.9 | 90.6 | 66.1 | 0.0 |
| Pilares | 330.3 | 3.8 | 75.6 | 87.4 | 0.0 |
| Total | 721.2 | 9.7 | 166.2 | 74.4 | 0.0 |
| Térreo | Vigas | 486.2 | 6.2 | 58.8 | 78.0 | 0.0 |
| Pilares | 358.0 | 3.8 | 75.6 | 94.7 | 0.0 |
| Lajes | 0.0 | 6.7 | 0.0 | 0.0 | 0.0 |
| Total | 844.2 | 16.7 | 134.4 | 50.5 | 0.0 |
| Fundação | Vigas | 390.9 | 5.9 | 98.6 | 66.1 | 0.0 |
| Pilares | 204.3 | 1.4 | 29.0 | 141.0 | 0.0 |
| Fundações | 171.3 | 5.4 | 19.2 | 31.4 | 0.0 |
| Total | 766.5 | 12.8 | 146.8 | 59.8 | 0.0 |

Resumo por bitola e por elemento

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Aço | Diâmetro  (mm) | Peso + 10 % (kg) |  |  |  |  |
| Vigas | Pilares | Lajes | Fundações | Total |
| CA50 | 6.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.8 |
| CA50 | 8.0 | 794.5 | 0.0 | 0.0 | 171.3 | 965.8 |
| CA50 | 10.0 | 43.4 | 628.2 | 0.0 | 0.0 | 671.5 |
| CA50 | 12.5 | 54.7 | 0.0 | 0.0 | 0.0 | 54.7 |
| CA60 | 5.0 | 374.7 | 264.4 | 0.0 | 0.0 | 639.1 |

Resumo por material e por elemento

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Vigas | Pilares | Lajes | Fundações | Total |
| Peso total  + 10% (kg) | CA50 | 893.3 | 628.2 | 0.0 | 171.3 | 1692.8 |
| CA60 | 374.7 | 264.4 | 0.0 | 0.0 | 639.1 |
| Total | 1268.0 | 892.6 | 0.0 | 171.3 | 2331.9 |
| Volume concreto (m³) | C-30 | 18.1 | 9.0 | 6.7 | 5.4 | 39.2 |
| Área de forma (m²) |  | 247.9 | 180.2 | 0.0 | 19.2 | 447.3 |
| Consumo de aço (kg/m³) |  | 70.2 | 99.1 | 0.0 | 31.4 | 59.5 |

Resumo de Materiais (Pré-Moldados)

Resumo por elemento e por pavimento

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pavimento | Elemento | Peso do aço  +10 % (kg) | Volume de  concreto (m³) | Área de forma  (m²) | Consumo de  aço (kg/m³) | Peso treliças  (kg) |
| Pavimento Superior | Vigas PM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pilares PM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lajes PM | 19.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 19.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Térreo | Vigas PM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pilares PM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lajes PM | 153.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 153.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fundação | Vigas PM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pilares PM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lajes PM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Resumo por bitola e por elemento

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Aço | Diâmetro  (mm) | Peso + 10 % (kg) |  |  |  |
| Vigas PM | Pilares PM | Lajes PM | Total |
| CA50 | 6.3 | 0.0 | 0.0 | 173.0 | 173.0 |

Resumo por material e por elemento

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Vigas PM | Pilares PM | Lajes PM | Total |
| Peso total  + 10% (kg) | CA50 | 0.0 | 0.0 | 173.0 | 173.0 |
| Total | 0.0 | 0.0 | 173.0 | 173.0 |
| Volume concreto (m³) | C-30 | 0.0 | 0.0 | 0.0 | 0.0 |
| Área de forma (m²) |  | 0.0 | 0.0 | 0.0 | 0.0 |
| Consumo de aço (kg/m³) |  | 0.0 | 0.0 | 0.0 | 0.0 |

\*Os quantitativos dos materiais de capa e armaduras adicionais das lajes pré-moldadas estão considerados no Resumo de Materiais (Moldado in Loco)

Resumo dos blocos de enchimento

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pavimento | Tipo | Nome | Dimensões (cm) |  |  | Quantidade |
| hb | bx | by |
| Pavimento Superior | EPS Unidirecional | B16/40/49 | 16 | 40 | 49 | 90 |
| Térreo | EPS Unidirecional | B16/40/49 | 16 | 40 | 49 | 676 |

Resumo de Custos (R$)

Resumo por elemento e por pavimento

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Pavimento | Elemento | Aço | Concreto | Forma | Laje  pré-fabricada | Bloco  de enchimento | Total |
| Pavimento Superior | Vigas | 6726.05 | 4047.13 | 12672.55 | 0.00 | 0.00 | 23445.72 |
| Vigas PM | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pilares | 5294.36 | 2585.78 | 28117.91 | 0.00 | 0.00 | 35998.06 |
| Pilares PM | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lajes | 0.00 | 552.48 | 0.00 | 867.64 | 693.00 | 2113.12 |
| Escadas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fundações | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Reservatórios | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Muros | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 12020.41 | 7185.40 | 40790.45 | 867.64 | 693.00 | 61556.90 |
| Térreo | Vigas | 8013.96 | 4262.16 | 8226.96 | 0.00 | 0.00 | 20503.07 |
| Vigas PM | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pilares | 5709.06 | 2585.78 | 28117.91 | 0.00 | 0.00 | 36412.76 |
| Pilares PM | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lajes | 0.00 | 4584.42 | 0.00 | 7180.54 | 5205.20 | 16970.17 |
| Escadas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fundações | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Reservatórios | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Muros | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 13723.02 | 11432.37 | 36344.86 | 7180.54 | 5205.20 | 73885.99 |
| Fundação | Vigas | 6720.00 | 4047.14 | 13799.70 | 0.00 | 0.00 | 24566.84 |
| Vigas PM | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pilares | 3240.75 | 991.22 | 10778.53 | 0.00 | 0.00 | 15010.50 |
| Pilares PM | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lajes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Escadas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fundações | 2851.21 | 3727.34 | 2689.84 | 0.00 | 0.00 | 9268.40 |
| Reservatórios | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Muros | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 12811.97 | 8765.70 | 27268.07 | 0.00 | 0.00 | 48845.74 |
| Custo total do projeto |  |  |  |  |  |  | 184288.64 |