

**ESTADO DE GOIÁS**  
**PREFEITURA MUNICIPAL DE SANTO ANTÔNIO DO DESCOBERTO – GO**

**Verificação da Estabilidade Global da Estrutura**

| Eixo X (1.3G1+1.4G2+1.4S+1.4Q+1.2A+0.84V1) |                      |                     |                       |        |                         |        |
|--------------------------------------------|----------------------|---------------------|-----------------------|--------|-------------------------|--------|
| Pavimento                                  | Altura Relativa (cm) | Carga Vertical (tf) | Carga Horizontal (tf) |        | Desloc. Horizontal (cm) |        |
|                                            |                      |                     | Eixo X                | Eixo Y | Eixo X                  | Eixo Y |
| Fechamento                                 | 1050                 | 17.84               | 0.12                  | 1.28   | 0.28                    | 0.00   |
| Intermediária 02                           | 900                  | 34.68               | 0.37                  | 3.86   | 0.24                    | 0.00   |
| Intermediária 01                           | 575                  | 45.00               | 0.42                  | 4.37   | 0.14                    | 0.00   |
| Térreo                                     | 250                  | 34.17               | 0.02                  | 0.18   | 0.04                    | 0.00   |

| Eixo Y (1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.4V4) |                      |                     |                       |        |                         |        |
|--------------------------------------------|----------------------|---------------------|-----------------------|--------|-------------------------|--------|
| Pavimento                                  | Altura Relativa (cm) | Carga Vertical (tf) | Carga Horizontal (tf) |        | Desloc. Horizontal (cm) |        |
|                                            |                      |                     | Eixo X                | Eixo Y | Eixo X                  | Eixo Y |
| Fechamento                                 | 1050                 | 17.84               | 0.21                  | 2.13   | 0.04                    | 1.20   |
| Intermediária 02                           | 900                  | 35.87               | 0.62                  | 6.43   | 0.03                    | 1.08   |
| Intermediária 01                           | 575                  | 61.35               | 0.70                  | 7.28   | 0.02                    | 0.68   |
| Térreo                                     | 250                  | 50.66               | 0.03                  | 0.30   | 0.01                    | 0.19   |

| Coeficiente Gama-Z                      |        |        |
|-----------------------------------------|--------|--------|
|                                         | Eixo X | Eixo Y |
| Momento de tombamento de cálculo (tf.m) | 7.12   | 122.85 |
| Momento de 2a. ordem de cálculo (tf.m)  | 0.21   | 1.12   |
| Gama-Z                                  | 1.03   | 1.01   |

Valor limite: 1.10

| Gama-Z por Combinação             |                                         |        |                                        |        |             |             |
|-----------------------------------|-----------------------------------------|--------|----------------------------------------|--------|-------------|-------------|
| Combinação                        | Momento de tombamento de cálculo (tf.m) |        | Momento de 2a. ordem de cálculo (tf.m) |        | Gama-Z      |             |
|                                   | Eixo X                                  | Eixo Y | Eixo X                                 | Eixo Y | Eixo X      | Eixo Y      |
| 1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.4V1 | 11.87                                   | 122.85 | 0.35                                   | 0.00   | 1.03        | 1.00        |
| 1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.4V2 | 11.87                                   | 122.85 | 0.35                                   | 0.00   | 1.03        | 1.00        |
| 1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.4V3 | 11.87                                   | 122.85 | 0.04                                   | 1.11   | 1.00        | 1.01        |
| 1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.4V4 | 11.87                                   | 122.85 | 0.04                                   | 1.12   | 1.00        | <b>1.01</b> |
| 1.3G1+1.4G2+1.4S+1.4Q+1.2A+0.84V1 | 7.12                                    | 73.71  | 0.21                                   | 0.00   | <b>1.03</b> | 1.00        |
| 1.3G1+1.4G2+1.4S+1.4Q+1.2A+0.84V2 | 7.12                                    | 73.71  | 0.21                                   | 0.00   | 1.03        | 1.00        |
| 1.3G1+1.4G2+1.4S+1.4Q+1.2A+0.84V3 | 7.12                                    | 73.71  | 0.02                                   | 0.61   | 1.00        | 1.01        |
| 1.3G1+1.4G2+1.4S+1.4Q+1.2A+0.84V4 | 7.12                                    | 73.71  | 0.02                                   | 0.61   | 1.00        | 1.01        |
| 1.3G1+1.4G2+1.4S+1.4V1            | 11.87                                   | 122.85 | 0.35                                   | 0.00   | 1.03        | 1.00        |
| 1.3G1+1.4G2+1.4S+1.4V2            | 11.87                                   | 122.85 | 0.35                                   | 0.00   | 1.03        | 1.00        |
| 1.3G1+1.4G2+1.4S+1.4V3            | 11.87                                   | 122.85 | 0.04                                   | 1.11   | 1.00        | 1.01        |
| 1.3G1+1.4G2+1.4S+1.4V4            | 11.87                                   | 122.85 | 0.04                                   | 1.12   | 1.00        | 1.01        |
| G1+G2+S+0.98Q+1.2A+1.4V1          | 11.87                                   | 122.85 | 0.25                                   | 0.00   | 1.02        | 1.00        |
| G1+G2+S+0.98Q+1.2A+1.4V2          | 11.87                                   | 122.85 | 0.25                                   | 0.00   | 1.02        | 1.00        |
| G1+G2+S+0.98Q+1.2A+1.4V3          | 11.87                                   | 122.85 | 0.03                                   | 0.88   | 1.00        | 1.01        |
| G1+G2+S+0.98Q+1.2A+1.4V4          | 11.87                                   | 122.85 | 0.03                                   | 0.88   | 1.00        | 1.01        |
| G1+G2+S+1.4Q+1.2A+0.84V1          | 7.12                                    | 73.71  | 0.15                                   | 0.00   | 1.02        | 1.00        |
| G1+G2+S+1.4Q+1.2A+0.84V2          | 7.12                                    | 73.71  | 0.15                                   | 0.00   | 1.02        | 1.00        |
| G1+G2+S+1.4Q+1.2A+0.84V3          | 7.12                                    | 73.71  | 0.02                                   | 0.46   | 1.00        | 1.01        |
| G1+G2+S+1.4Q+1.2A+0.84V4          | 7.12                                    | 73.71  | 0.02                                   | 0.46   | 1.00        | 1.01        |
| G1+G2+S+1.4V1                     | 11.87                                   | 122.85 | 0.25                                   | 0.00   | 1.02        | 1.00        |
| G1+G2+S+1.4V2                     | 11.87                                   | 122.85 | 0.25                                   | 0.00   | 1.02        | 1.00        |
| G1+G2+S+1.4V3                     | 11.87                                   | 122.85 | 0.03                                   | 0.88   | 1.00        | 1.01        |
| G1+G2+S+1.4V4                     | 11.87                                   | 122.85 | 0.03                                   | 0.88   | 1.00        | 1.01        |