

[illegible]

Figure 1 is a plan view of the building layout. It shows a large central hall (1) and several smaller rooms (2-12) and corridors (13-28). Dimensions are provided for various rooms and corridors. The layout includes a large central hall (1) and several smaller rooms (2-12) and corridors (13-28). Dimensions are provided for various rooms and corridors.

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Technical drawing of a circular room layout. The room is circular with a diameter of 10.00m. The layout includes a large rectangular area on the left (10.00m x 10.00m) and a smaller rectangular area on the right (10.00m x 10.00m). The large rectangular area contains a square table (1.80m x 1.80m) and four chairs (1.80m x 1.80m). The smaller rectangular area contains a square table (1.80m x 1.80m) and four chairs (1.80m x 1.80m). The circular room has a central area (10.00m x 10.00m) and a circular area (10.00m x 10.00m). The drawing shows the placement of furniture and the dimensions of the room and furniture.

1-256+812-179  
19 80

2-82+812-180  
20 80

3-23+812-275  
35 120

4-23+812-27  
32 120

Diagram 1: Column with fixed base (PAR) and free top (TAMPA). The effective length factor is calculated as  $K = 1.0$ .

Diagram 2: Column with fixed base (50) and pinned top (19). The effective length factor is calculated as  $K = 0.7$ .

Diagram 3: Column with fixed base (50) and pinned top (19). The effective length factor is calculated as  $K = 0.7$ .

Technical drawing of a 2x4 timber beam. The drawing shows a side view of the beam with a width of 25. The length is indicated by a dimension line with the value 5433. The beam is labeled 1-2x10-CORRIDO and 2-2x4 186C1P-CORRIDO. The drawing also shows a cross-section of the beam with a width of 16 and a height of 24. The cross-section is labeled 1-2x10-CORRIDO and 2-2x4 186C1P-CORRIDO. The drawing includes a scale bar and a north arrow.

Technical drawing showing three types of corrugated metal profiles:

- 1-Z210-CORRIDO**: Dimensions include a height of 25 and a width of 16. The cross-section shows a height of 16 and a width of 24.
- 2-Z2386/12-CORRIDO**: Dimensions include a height of 322.3 and a width of 16. The cross-section shows a height of 16 and a width of 24.
- 3-Z21486/12-384**: Dimensions include a height of 314 and a width of 16. The cross-section shows a height of 16 and a width of 24.

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4 - 537605c12-45

ESCALA: 1:50

5-2ø12.5-1

5-2ø12.5-1

6-2ø12.5-155

6-2ø12.5-155

ARMAÇÃO DA VIGA  
ESCALA 1:50  
cotas em centímetros

The drawing shows a cross-section of a beam with a total width of 40 cm. The reinforcement consists of 4 bars (4ø5) in the top and 3 bars (3ø5) in the bottom. The top bars are labeled R45-N6 and the bottom bars are labeled B45-N6. The spacing between the bars is 4 cm. The drawing is labeled 'ARMAÇÃO DA VIGA' and 'ESCALA 1:50'.

**1** — 2x185c12 — CORRIDO

**2** — 2x185c12 — CORRIDO

**4** — 2x185c12 — CORRIDO

Technical drawing of a mechanical part showing dimensions 7 and 8. Dimension 7 is labeled as  $7-2 \times 2 \pm 12.5-90^\circ$ . Dimension 8 is labeled as  $8-2 \pm 12.5-170^\circ$ . The drawing includes a cross-section of a cylindrical part with a central hole and a flange.

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Diagrama de uma laje de concreto armado com uma abertura circular. A laje tem dimensões  $N_1 \times N_2$  e espessura  $D$ . No centro há uma abertura circular com diâmetro  $D$ . O diagrama mostra a armadura de barras de aço ( $N_1$  e  $N_2$ ) e os pontos de corte e dobra das barras. As dimensões são dadas em metros (m). A distância entre os eixos das barras é  $N_1 = 4,2 \text{ m}$  e  $D = 1,50 \text{ m}$ . A espessura da laje é  $D = 0,15 \text{ m}$ . O diagrama também indica a armadura das paredes na região da abertura e o total de 6 furos.

| N°                           | Ø   | Q  | COMP. | PESO |
|------------------------------|-----|----|-------|------|
| ARMAÇÃO DE REFORÇO DOS FUROS |     |    |       |      |
| 1                            | Ø10 | 48 | 150   | 44,4 |

| PEÇAS                                | CA-60        | CA-50A      |              |              |              |      | TOTAL |
|--------------------------------------|--------------|-------------|--------------|--------------|--------------|------|-------|
|                                      | #63<br>(kgf) | #8<br>(kgf) | #10<br>(kgf) | #16<br>(kgf) | #25<br>(kgf) |      |       |
| ARM. REFORÇO FURA LAJE DA TAMP.      | x            | x           | 54           | x            | x            | 54   |       |
| ARM. SUP. LAJE DA TAMP. (N. 291.000) | x            | x           | 96           | 335          | x            | 431  |       |
| ARM. INF. LAJE DA TAMP. (N. 291.000) | x            | x           | 96           | 335          | x            | 431  |       |
| ARM. LAJE NÍVEIS 285.817/288.027m    | x            | x           | 81           | 424          | x            | 505  |       |
| ARMADAÇÃO DA LAJE DO NÍVEL 283.045m  | 10           | 165         | x            | 30           | 1370         | x    | 1570  |
| ARMADAÇÃO DA LAJE DO NÍVEL 284.817m  | 2            | 4           | 7            | x            | x            | 1578 |       |
| ARMADAÇÃO DA PAR./V. 320.05          | 373          | x           | 1630         | 303          | x            | 5000 |       |
| ARMADAÇÃO DAS PAR./V. 27/27-250x543  | x            | 248         | 414          | x            | x            | 662  |       |
| ARMADAÇÃO DAS PAR./V. 27-232x232     | x            | 631         | 38           | x            | 66           | 699  |       |
| ARM. LIGAÇÃO PAR-PAR/V. PAR./TAMPA   | x            | 529         | x            | x            | x            | 529  |       |
| ARMADAÇÃO DA VC                      | 48           | x           | 11           | 7            | x            | 66   |       |
| DETALHE FERROS LIGAÇÃO PAR-FUNDO     | x            | 57          | 521          | 757          | x            | 1335 |       |
| ARMADAÇÃO DE REFORÇO DOS FURA        | x            | x           | x            | x            | x            | 44   |       |
| TOTAL: (kgf)                         | 433          | 228         | 2208         | 4138         | 4408         | x    | 11414 |
|                                      | #63          | #8          | #10          | #16          | #25          |      |       |