

Technical drawing showing two types of manhole covers (TAMPA) and their dimensions.

TAMPA TIPO 02: A rectangular cover with overall dimensions of 190 (width) by 150 (height). The mounting frame has a width of 120 and a height of 120. The cover itself is 70 wide and 70 high. The mounting frame has a 20mm gap on the sides and a 20mm gap on the top and bottom.

TAMPA TIPO 01: A circular cover with a diameter of 210. The mounting frame has a diameter of 170. The cover itself has a diameter of 140. The mounting frame has a 20mm gap on the sides and a 20mm gap on the top and bottom. The cover has a 70mm diameter hole in the center. The mounting frame has a 70mm gap on the sides and a 70mm gap on the top and bottom.

Legend:

- 09 TAMPA PADRÃO COPASA
- #800 - NBR 10160

Technical drawing of a drainage system for a boat deck, showing a top view and a side view.

Top View Dimensions:

- Overall width: 170 cm
- Overall height: 150 cm
- Distance from left edge to centerline: 85 cm
- Distance from right edge to centerline: 85 cm
- Distance from top edge to centerline: 53 cm
- Distance from bottom edge to centerline: 97 cm
- Distance from left edge to drainage assembly: 120 cm
- Distance from right edge to drainage assembly: 50 cm
- Distance from centerline to drainage assembly: 130 cm
- Distance from drainage assembly to right edge: 90 cm
- Distance from drainage assembly to left edge: 20 cm
- Distance from drainage assembly to bottom edge: 20 cm
- Distance from drainage assembly to top edge: 20 cm

Side View Dimensions:

- Overall width: 130 cm
- Overall height: 130 cm
- Distance from left edge to centerline: 65 cm
- Distance from right edge to centerline: 65 cm
- Distance from top edge to centerline: 65 cm
- Distance from bottom edge to centerline: 65 cm
- Distance from left edge to drainage assembly: 20 cm
- Distance from right edge to drainage assembly: 20 cm
- Distance from centerline to drainage assembly: 130 cm
- Distance from drainage assembly to right edge: 90 cm
- Distance from drainage assembly to left edge: 20 cm
- Distance from drainage assembly to bottom edge: 20 cm
- Distance from drainage assembly to top edge: 20 cm

Labels and Components:

- BLOCO DE APOIO (Support Block)
- PROJECÇÃO DO TAMPÃO FERRO FUNDIDO Ø800 (Cast Iron Plug Projection Ø800)
- ESCADA DE MARINHEIRO VER DETALHE (Marine Ladder See Detail)
- DRENO SECO (30x30)cm (Dry Drain 30x30cm)
- DRENO SECO (90x45)BRITA 02 (Dry Drain 90x45 Gravel 02)
- POÇO SECO (Dry Pit)
- PVC DN100 (PVC DN100)
- PVC DE FcFo DN250 (PVC FcFo DN250)
- LIMITES RM (RM Limits)

TAMPA TIPO 1(1x)
PLANTA

TAMPA TIPO 2(1x)
PLANTA

Technical drawing of a mechanical part with dimensions. The part is symmetrical about a vertical centerline. The total width is 80 mm, indicated by a dimension line with $\varnothing 80$. The total height is 40 mm, with two 20 mm sections. The top 20 mm section contains two rectangular features, each 20 mm wide and 10 mm high, separated by a 40 mm gap. The bottom 20 mm section contains two trapezoidal features, each 20 mm wide at the base and 10 mm high, separated by a 40 mm gap. The dimensions are: 20, 5, 10, $\varnothing 80$, 10, 5, 20.

[illegible]

The drawing illustrates a marine ladder (Escada de Marinheiro) with the following specifications:

- Front View (Vista Frontal):**
 - Overall height: 280
 - Overall width: 45
 - Top rail height from ground: 20
 - Bottom rail height from ground: 30
 - Distance between side rails: 8 1/2
 - Side rail thickness: 7x30=210
 - Support/fixation plate: 3/8"
 - Ground level: VARIÁVEL TERRENO
 - Variable fund: VARIÁVEL FUNDO
- Isometric View (Isométrico):**
 - DEGRAU: TUBO RED. 1 1/2"x1/4" C/ ANTIDERRAPANTE
 - SUPOORTE/FIXAÇÃO DA ESCADA: CHAPA 3/8"
 - TUBO QUADRADO: 2" x 1/4"
 - VER DETALHE 1
 - VER DETALHE 2

BASE PAVIMENTO > 20cm

SOLO LOCAL ATÉ A
BASE DE PAVIMENTAÇÃO
COMPACTADO 97% PN

MATERIAL
GRANULAR OU
SELECIONADO

AREIA

VARIÁVEL

10cm

DE

10cm

DETALHE-EMBASAMENTO
DAS VALAS
SEM ESC.

Nº	REVISÃO	DATA	R.T.  ALBERTO OLIVEIRA CHAVES CREA-68.765/D-MG	Serviço AUTÁRQUICO DE ÁGUA E ESGOTO CARMO DO CAJURU-MG	ESCALA 1:25
01	EMIÇÃO INICIAL	JULHO/2025	PROJ. RENATO EUSTAQUIO FRANÇA CREA-140.149/D-MG	SISTEMA DE ABASTECIMENTO DE ÁGUA ADUTORA DE ÁGUA TRATADA – AAT-01–TRECHO 01 CAIXAS DE DESCARGA PLANTA, cortes e DETALHES	Nº DE FOLHAS 05/06
			DES. RAQUEL SANTOS		CÓDIGO
			DATA AGOSTO/2025		DESENHO
			APROV.	 DESENVOLVIMENTO DE PROJETOS	43/54