

S/Escala

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Viga (20x19)

Start point

Platform Ø 8 cm x 12 cm (H = 0.17 m)

End point Ø 8 cm x 12 cm (H = 0.17 m)

Viga (30x19)

Start point

Platform Ø 8 cm x 12 cm (H = 0.17 m)

End point Ø 8 cm x 12 cm (H = 0.17 m)

Viga Baldrame - VB (40x20)

Start point

Platform Ø 8 cm x 12 cm (H = 0.17 m)

End point Ø 8 cm x 12 cm (H = 0.17 m)

BLCCO

Start point

Platform Ø 8 cm x 12 cm (H = 0.17 m)

End point Ø 8 cm x 12 cm (H = 0.17 m)

Dimensions:

- Start point: 0.20 m
- Platform: 0.17 m
- End point: 0.20 m
- BLCCO: 0.20 m
- Viga (20x19): 0.20 m
- Viga (30x19): 0.20 m
- Viga Baldrame - VB (40x20): 0.20 m
- BLCCO: 0.20 m

[illegible]

Figure 1: Schematic representation of the experimental design. The figure shows a 2x2 grid of conditions. The top row is labeled 'P1' and the bottom row 'P2'. The left column is labeled 'BLOOD' and the right column 'D2'. Each condition shows a timeline of events: a red bar for 'BLOOD' or 'D2' (0.20s), a blue bar for 'P1' or 'P2' (0.20s), and a green bar for 'P1' or 'P2' (0.20s). The timeline is divided into three segments: 0.20s, 0.20s, and 0.20s. The total duration is 0.60s. The conditions are: P1 BLOOD (0.20s BLOOD, 0.20s P1, 0.20s P1), P2 BLOOD (0.20s BLOOD, 0.20s P2, 0.20s P2), P1 D2 (0.20s D2, 0.20s P1, 0.20s P1), and P2 D2 (0.20s D2, 0.20s P2, 0.20s P2). The conditions are labeled 'P1 BLOOD', 'P2 BLOOD', 'P1 D2', and 'P2 D2'.

Vigra (20x15)

Reinforcement: 3 D10mm (top), 3 D10mm (bottom)

Dimensions: 20 cm x 15 cm

Vigra (30x15)

Reinforcement: 3 D10mm (top), 3 D10mm (bottom)

Dimensions: 30 cm x 15 cm

midframe - VB (40x20)

Reinforcement: 3 D10mm (top), 3 D10mm (bottom)

Dimensions: 40 cm x 20 cm

The figure also shows a detailed view of the reinforcement layout for the midframe - VB (40x20) section, including the dimensions of the reinforcement bars and the spacing between them.

Placa de Aço P1 (10x20)

Desenho Técnico

120 mm

40 mm

20 mm

120 mm

40 mm

20 mm

Desenho Técnico

[illegible]

Figure P1 (18x20)

Column cross-section: 18x20 cm. Reinforcement bars: 1A, 2A, 3A, 4A.

Column height: 3.00 m.

Reinforcement details (left elevation):

- Bar 1A: 18 mm diameter, length 1.00 m.
- Bar 2A: 18 mm diameter, length 1.00 m.
- Bar 3A: 18 mm diameter, length 1.00 m.
- Bar 4A: 18 mm diameter, length 1.00 m.

Reinforcement details (right elevation):

- Bar 1A: 18 mm diameter, length 1.00 m.
- Bar 2A: 18 mm diameter, length 1.00 m.
- Bar 3A: 18 mm diameter, length 1.00 m.
- Bar 4A: 18 mm diameter, length 1.00 m.

[illegible]

Pilares de Muro P2 (40x20)

20 varillas Ø 2 mm a 10 cm
C.T. = 7.6 cm

3 barras Ø 8.9 mm (L27)
Compimento: 1.86 m

3 barras Ø 10 mm (Pigra)
Compimento: 1.86 m

13 alambres Ø 2 mm a 10 cm
C.T. = 110 cm

Bloco - 1,50x0,50x0,50
Brocas - 2 unid. - Ø 25cm

0.50
1.50

0.50
1.50

0.50
1.50

0.50
1.50

10 varillas Ø 8.9 mm a 14.5 x 14.5

[illegible]

Viga (80x19)

22

88

17

88

10 mm (Ø10)

45°

Viga Baldrame - VB (30x20)

22

88

20

88

10 mm (Ø10)

45°

Visual Feedback (VF) Conditions:

- Viga (50x19):** A diagram of a Viga beam with a 100 mm scale bar. It shows a 10 mm gap between the beam and the wall, and a 10 mm gap between the beam and the floor. The beam is labeled "Viga (50x19)".
- Viga (50x19):** A diagram of a Viga beam with a 100 mm scale bar. It shows a 10 mm gap between the beam and the wall, and a 10 mm gap between the beam and the floor. The beam is labeled "Viga (50x19)".
- Viga Balastrado - VB (40x30):** A diagram of a Viga Balastrado beam with a 100 mm scale bar. It shows a 10 mm gap between the beam and the wall, and a 10 mm gap between the beam and the floor. The beam is labeled "Viga Balastrado - VB (40x30)".

Bar Chart Results:

The bar chart shows the estimated distance (in cm) for three conditions: P1, P2, and VB. The y-axis ranges from 0.20 to 1.30. The x-axis shows the estimated distance (in cm) for each condition.

Condition	Estimated distance (in cm)	Estimated distance (in cm) - 10 mm	Estimated distance (in cm) - 20 mm	Estimated distance (in cm) - 30 mm	Estimated distance (in cm) - 40 mm	Estimated distance (in cm) - 50 mm	Estimated distance (in cm) - 60 mm	Estimated distance (in cm) - 70 mm	Estimated distance (in cm) - 80 mm	Estimated distance (in cm) - 90 mm	Estimated distance (in cm) - 100 mm
P1	1.30	1.20	1.10	1.00	0.90	0.80	0.70	0.60	0.50	0.40	0.30
P2	1.30	1.20	1.10	1.00	0.90	0.80	0.70	0.60	0.50	0.40	0.30
VB	1.30	1.20	1.10	1.00	0.90	0.80	0.70	0.60	0.50	0.40	0.30

Pilares do Muro P2 (40x20)

- 3 barras Ø 8 e área de 19 cm²; Comprimento: 1,60m.
- 3 barras Ø 10 mm (ØH); Comprimento: 1,60m.

20 varões Ø 6 mm x 10 mm
 $C_1 = 76 \text{ cm}$

Bloco - 1,50x0,50x0,50
Brocas - 2 unid. - Ø 25cm

[illegible]

Pilares do Muro P1 (10x20)

Technical drawing of the P1 wall pillars. The drawing includes a side elevation, a top view, and a detail view. The side elevation shows a vertical pillar with a cross-section of 10x20 cm, a reinforcement bar of 10 mm (Ø10), and a length of 3.42 m. The top view shows a square cross-section with dimensions 10x10 cm and a length of 3.42 m. The detail view shows a square cross-section with dimensions 10x10 cm and a length of 3.42 m.

Figure 6 Schematic representation of the test set-up.

Pilares do Muro P1 (19x20)

4 barras Ø 16 mm (B6)
Comprimido 1,20m

150

15

150

15

22 varões Ø 16 mm x 19 cm
C.T. = 19 cm

Pilares do Muro P1 (19x20)

10 fôrça Ø 10 mm (1/8")
Comprimento: 9,30m

19
20

16

22 edifícios
C.T.



PRANCHA

02/02

LOCAL
RUA ANTÔNIO FABRÍCIO, Nº 200

LEANDRO MAFFEIS MILANI
ADMINISTRAÇÃO

RESPONSÁVEIS:

SECRETÁRIA DA EDUCAÇÃO
BEATRIZ CRISTINE STABILE FARIA

DIRETORA E.M. PROF^ª IZABEL BRANCO
SUELI TEIXEIRA GONÇALVES

AUTOR DO PROJETO
ALEX HENRIQUE GOMES CRUZ
ENGENHEIRO CIVIL
CREA: 5070193729

Data: 12/06/2023 Escala: Indicada

DESPACHOS.