

VB Lisp BPD210
Bored Pile Design
 The VB program BPD210.EXE calculates the pile
 The VB lisp BPD210.VLX draws the pile
Commercial Version Free Demo 2
Technical Version 1
 Bearing capacity by Skempton for clayey soils
 Pile forces and top deformation by Broms for clayey soils
 Reinforced concrete design by Eurocode 2
 Revision 0 10/2021

1. Instalation

- 1.1. Copy the file BPD210.ZIP in a folder.
- 1.2. Extract BPD210.EXE and BPD210.VLX.
- 1.3. Unlock BPD210.EXE in your virus program.

2. Instructions

- 2.1. Open BPD210.EXE, fill data and press Run Run.
- 2.2. Change data until Pa => P and press again Run Run.
- 2.3. The notations are in tip top texts.
- 2.4. The VB program prints the outputs in file BPD210.TXT in the program folder.
- 2.5. Open your CAD with Lisp and load BPD210.VLX.
- 2.6. Write BPD210 on prompt and load BPD210.TXT.
- 2.7. Follow the instructions.

3. Example

- 3.1. Fill textboxes as below and press Run Run in BPD210.EXE

The screenshot shows the BPD210 software interface with the following data:

Input			
Bc (cm)	60	Bp (cm)	30
Dc (cm)	60	b (cm)	10
γ_f	1.5	P (kN)	200
α_{sh}	13	M (kN.cm)	200
γ_c	1.4	H (kN)	20
Sb	8	$\epsilon_{ud}(\%)$	0.5
		d' (cm)	5
Output			
Ash (m ²)	4.24	Ap (m ²)	0.07
Psh (kN)	287	Pp (kN)	115
As (cm ²)	1.41	Asm (cm ²)	1.41
		δ (mm)	0.73
		Asw/s (cm)	0.0479

Additional input fields on the right side of the form:

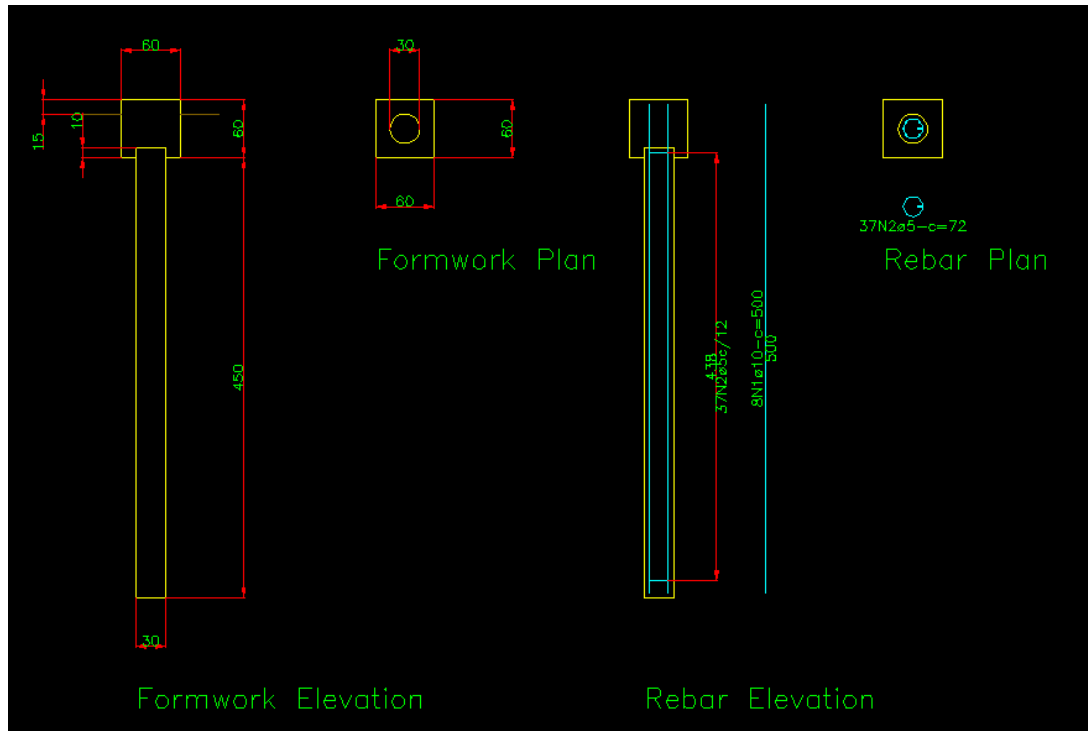
Dp (cm)	450
a (cm)	15
α_p	13
Np (bpf)	30
γ_s	1.15
fyk (MPa)	400

On the right, there is a diagram of a pile cross-section and a text box with the following values:

Values of α
 Clay $\alpha=13$
 Clayey silt $\alpha=27$

The diagram shows a pile cross-section with dimensions Bc, Bp, Dc, Dp, b, and a. It also shows forces P, M, H, and E1 acting on the pile.

3.2. Open BPD210.VLX in CAD, do the 2.5 to 2.7 and get this



4. Final notes

Contact us for doubts

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