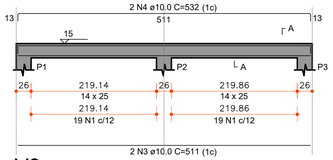
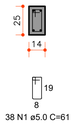
VIGAS DO PAVIMENTO TÉRREO

V1
ESC 1:50

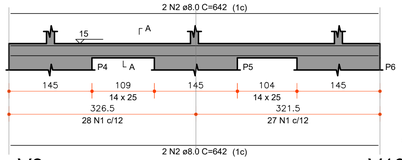


SEÇÃO A-A
ESC 1:25

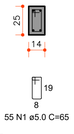


38 N1 ø5.0 C=61

V2
ESC 1:50

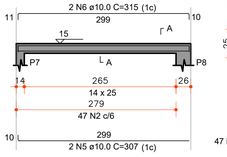


SEÇÃO A-A
ESC 1:25

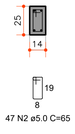


55 N1 ø5.0 C=65

V3
ESC 1:50

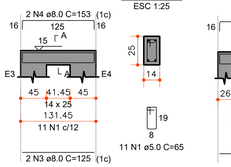


SEÇÃO A-A
ESC 1:25



47 N2 ø5.0 C=65

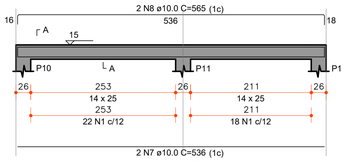
V4
ESC 1:50



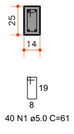
SEÇÃO A-A
ESC 1:25

11 N1 ø5.0 C=65

V5
ESC 1:50

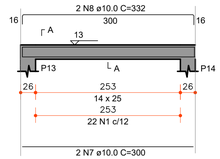


SEÇÃO A-A
ESC 1:25

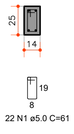


40 N1 ø5.0 C=61

V6
ESC 1:50

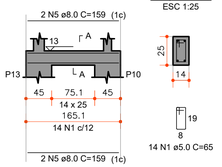


SEÇÃO A-A
ESC 1:25



22 N1 ø5.0 C=61

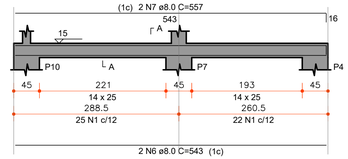
V7
ESC 1:50



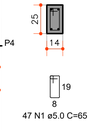
SEÇÃO A-A
ESC 1:25

14 N1 ø5.0 C=65

V8
ESC 1:50

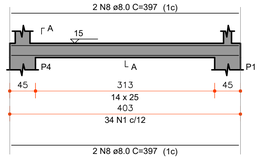


SEÇÃO A-A
ESC 1:25

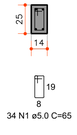


47 N1 ø5.0 C=65

V9
ESC 1:50

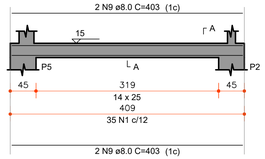


SEÇÃO A-A
ESC 1:25

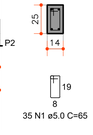


34 N1 ø5.0 C=65

V10
ESC 1:50

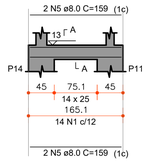


SEÇÃO A-A
ESC 1:25

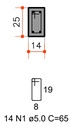


35 N1 ø5.0 C=65

V11
ESC 1:50

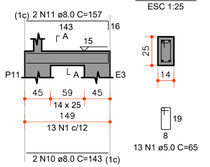


SEÇÃO A-A
ESC 1:25



14 N1 ø5.0 C=65

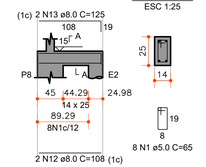
V12
ESC 1:50



SEÇÃO A-A
ESC 1:25

13 N1 ø5.0 C=65

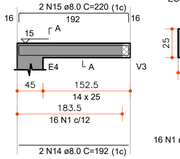
V13
ESC 1:50



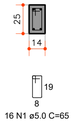
SEÇÃO A-A
ESC 1:25

8 N1 ø5.0 C=65

V14
ESC 1:50

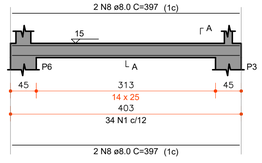


SEÇÃO A-A
ESC 1:25

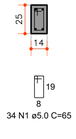


16 N1 ø5.0 C=65

V15
ESC 1:50

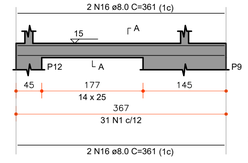


SEÇÃO A-A
ESC 1:25

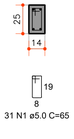


34 N1 ø5.0 C=65

V16
ESC 1:50

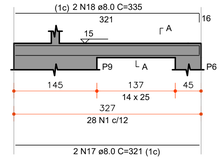


SEÇÃO A-A
ESC 1:25

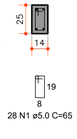


31 N1 ø5.0 C=65

V17
ESC 1:50



SEÇÃO A-A
ESC 1:25



28 N1 ø5.0 C=65

RELAÇÃO DO AÇO / VIGAS DO PAV. TÉRREO

V1 V3 V5

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	78	61	4758
	2	5.0	47	45	2115
CA50	3	10.0	2	511	1022
	4	10.0	2	532	1064
	5	10.0	2	307	614
	6	10.0	2	315	630
	7	10.0	2	536	1072
	8	10.0	2	565	1130

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	55.3	34.3
CA60	5.0	68.7	11.0
PESO TOTAL (kg)			
CA50	34.3	Volume de concreto (C-25) = 0.32 m³	
CA60	11.0	Área de forma = 4.38 m²	

RELAÇÃO DO AÇO / VIGAS DO PAV. TÉRREO

V2 V4 V6
V7 V8 V9
V10 V11 V12
V13 V14 V15
V16 V17

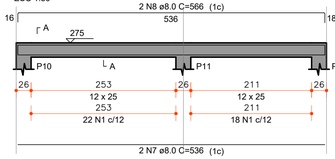
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	340	65	22100
CA50	2	8.0	4	642	2568
	3	8.0	2	125	250
	4	8.0	2	153	306
	5	8.0	8	159	1272
	6	8.0	2	543	1086
	7	8.0	4	557	2228
	8	8.0	10	397	3970
	9	8.0	4	403	1612
	10	8.0	2	143	286
	11	8.0	2	157	314
	12	8.0	2	108	216
	13	8.0	2	125	250
	14	8.0	2	192	384
	15	8.0	2	220	440
	16	8.0	4	361	1444
	17	8.0	2	321	642
	18	8.0	2	335	670

RESUMO DO AÇO

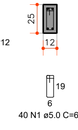
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	160.3	64.1
CA60	5.0	221	35.4
PESO TOTAL (kg)			
CA50	64.1	Volume de concreto (C-25) = 0.82 m³	
CA60	35.4	Área de forma = 14.90 m²	

VIGAS DO PAVIMENTO SUPERIOR

V1
ESC 1:50

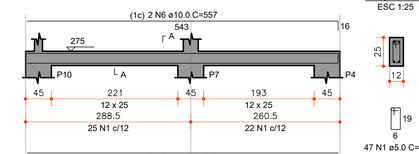


SEÇÃO A-A
ESC 1:25

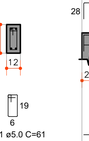


38 N1 ø5.0 C=61

V2
ESC 1:50

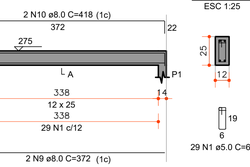


SEÇÃO A-A
ESC 1:25

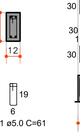


55 N1 ø5.0 C=61

V3
ESC 1:50



SEÇÃO A-A
ESC 1:25



47 N2 ø5.0 C=45

V4
ESC 1:50

SEÇÃO A-A
ESC 1:25

20 N1 ø5.0 C=61

V5
ESC 1:50

SEÇÃO A-A
ESC 1:25

11 N1 ø5.0 C=61

RELAÇÃO DO AÇO / VIGAS DO PAV. SUPERIOR

V1 V3 V6
V8 V9 V10
V11 V13 V15

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
AÇO	1	5.0	202	61	12322
	2	5.0	47	45	2115
CA60	3	8.0	2	511	1022
	4	8.0	2	533	1066
CA50	5	8.0	4	307	1228
	6	8.0	4	316	1264
	7	8.0	2	536	1072
	8	8.0	2	566	1132
	9	8.0	4	372	1488
	10	8.0	2	418	836
	11	8.0	1	218	218
	12	8.0	2	388	776
	13	8.0	1	133	133
	14	8.0	2	420	420
	15	8.0	2	426	852
	16	8.0	2	248	496
	17	8.0	2	419	838
	18	8.0	2	240	480
	19	8.0	2	266	532
	20	10.0	1	155	155
	21	10.0	2	276	552

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	126.1	50.4
	10.0	7.1	4.4
CA60	5.0	144.4	23.1
PESO TOTAL (kg)			
CA50	54.8	Volume de concreto (C-25) = 0.76 m³	
CA60	23.1	Área de forma = 9.93 m²	

V6
ESC 1:50

SEÇÃO A-A
ESC 1:25

40 N1 ø5.0 C=61

V7
ESC 1:50

SEÇÃO A-A
ESC 1:25

47 N1 ø5.0 C=61

V8
ESC 1:50

SEÇÃO A-A
ESC 1:25

29 N1 ø5.0 C=61

V9
ESC 1:50

SEÇÃO A-A
ESC 1:25

29 N1 ø5.0 C=61

V10
ESC 1:50

SEÇÃO A-A
ESC 1:25

47 N2 ø5.0 C=45

V11
ESC 1:50

SEÇÃO A-A
ESC 1:25

18 N1 ø5.0 C=61

V12
ESC 1:50

SEÇÃO A-A
ESC 1:25

16 N1 ø5.0 C=61

V13
ESC 1:50

SEÇÃO A-A
ESC 1:25

29 N1 ø5.0 C=61

V14
ESC 1:50

SEÇÃO A-A
ESC 1:25

31 N1 ø5.0 C=61

V15
ESC 1:50

SEÇÃO A-A
ESC 1:25

19 N1 ø5.0 C=61

RELAÇÃO DO AÇO / VIGAS DO PAV. SUPERIOR

V2 V5 V7
V12 V14

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	160	65	10400
CA50	2	10.0	4	642	2568
	3	10.0	2	125	250
	4	10.0	2	152	304
	5	10.0	2	543	1086
	6	10.0	2	557	1114
	7	10.0	2	192	384
	8	10.0	2	219	438
	9	10.0	4	361	1444

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	75.9	47.1
CA60	5.0	104	16.6
PESO TOTAL (kg)			
CA50	47.1	Volume de concreto (C-25) = 0.35 m³	
CA60	16.6	Área de forma = 6.34 m²	

RELAÇÃO DO AÇO / VIGAS DO PAV. SUPERIOR

V4

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	20	61	122
CA50	12	8.0	2	280	560
	13	8.0	2	328	656

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	12.16	4.87
CA60	5.0	1.22	0.20
PESO TOTAL (kg)			
CA50	4.87	Volume de concreto (C-25) = 0.08 m³	
CA60	0.20	Área de forma = 1.43 m²	

PILARES

P1=P3=P5=P12

P2

P4=P6=P9

P10=P8=P7=P11

P13=P14

RELAÇÃO DO AÇO / PILARES

4xP1 4xP10 P2 2xP13 3xP4

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	230	67	15410
	2	5.0	48	48	2304
	3	5.0	40	63	2520
	4	5.0	8	51	408
CA50	5	10.0	66	257	16962

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	169.6	105.2
CA60	5.0	206.4	33
PESO TOTAL (kg)			
CA50	105.2	Volume de concreto (C-25) = 1.32 m³	
CA60	33	Área de forma = 28.91 m²	

USO EXCLUSIVO DA COHAPAR

REVISÕES

REV	DATA	DESCRIÇÃO	
R00	13/02/2026	EMISSÃO INICIAL, CONFORME DEFINIÇÃO DA SUPJ/SUPG, ARQUITETÔNICO DATA 09/02/2026.	DVIE

USO EXCLUSIVO DA COHAPAR

RESPONSÁVEL TÉCNICO - COHAPAR:

COHAPAR

ANUÊNCIA DO ENGENHEIRO DO ESCRITÓRIO REGIONAL - COHAPAR:

COHAPAR

COHAPAR
Companhia de Habitação do Paraná

PRANCHA EST 02 02

REVISÃO R 00

FAD 47
47,33m²
SUB-25

CASA FÁCIL

PROJETO BÁSICO ESTRUTURAL
FORMA DO PAV. TÉRREO e PAV. SUPERIOR((NÍVEL 15 e 275)
PILARES

autor projeto: DVIE	autor desenho: DVIE
escala: INDICADAS	data de criação: 13/02/2026
nome do arquivo: EST_PB_FAD_47_R00.dwg	

HISTÓRICO — SALVO EM: 13/02/2026 — IMPRESSO EM: 13/02/2026