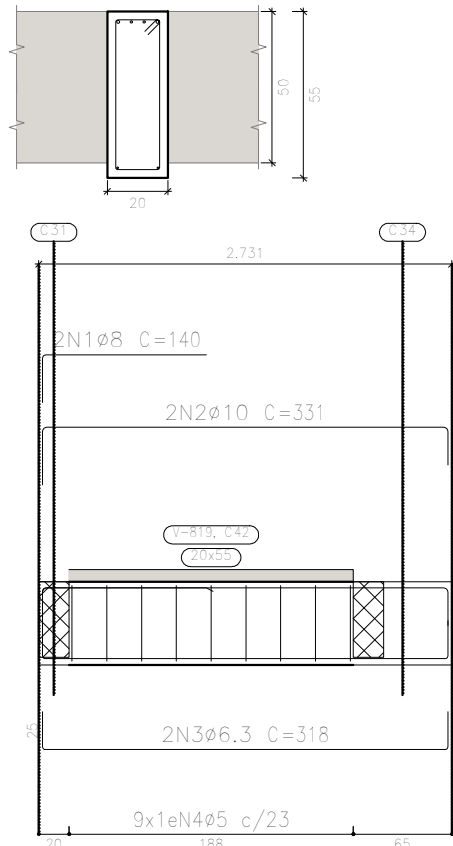
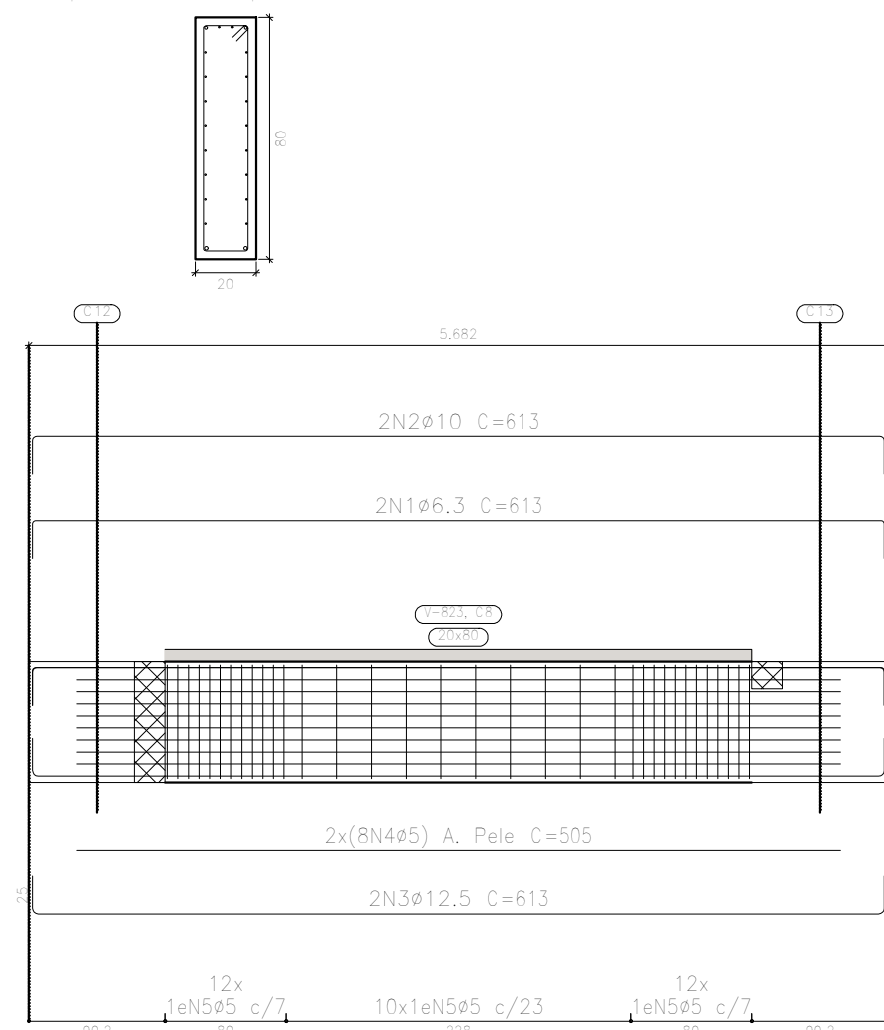
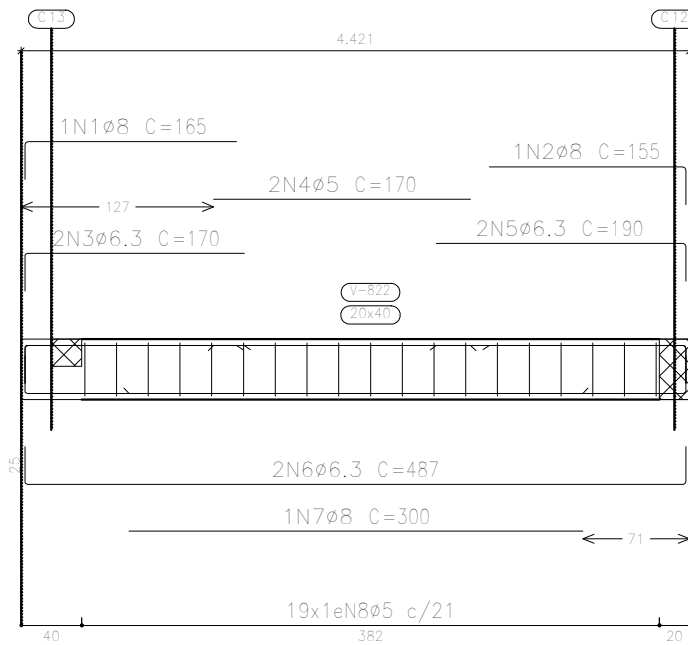


Technical drawing of a rectangular plate with a central slot. The plate has a total width of 80 mm and a total height of 275 mm. A central slot is 27.5 mm wide and 52.5 mm high. The slot is positioned such that the remaining material on the left and right sides is 26.25 mm each, and the remaining material above and below the slot is 112.5 mm each.







































The diagram shows a composite figure. It consists of a rectangle with a width of 20 and a height of 40. Attached to the left side of the rectangle is a semicircle with a diameter of 15. The semicircle is shaded gray.



Resumo Aço Desenho de vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø6,3	127,7	34
	Ø8	66,3	29
	Ø10	75,0	51
	Ø12,5	126,7	134
	Ø16	253,0	439
	Ø20	204,9	556
	Ø25	49,8	211
CA-60	Ø5	8429,7	1456
Total			2910

COBERTURA
Desenho de vigas
Concreto: C25, con.desfav.
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:25
Escala aberturas 1:25

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA=50 (kg)	CA=60 (kg)
V 12	1	Ø8	1		165	165	0,7	
	2	Ø8	1		155	155	0,6	
	3	Ø6,3	2		170	340	0,8	
	4	Ø5	2		170	340		0,5
	5	Ø6,3	2		190	380	0,9	
	6	Ø6,3	2		487	974	2,4	
	7	Ø8	1		300	300	1,2	
	8	Ø5	10		108	2052		3,2
					Total+10%;		7,3	4,1
V 13	1	Ø6,3	2		613	1226	3,0	
	2	Ø10	2		613	1226	7,6	
	3	Ø12,5	2		613	1226	11,8	
	4	Ø5	16		505	8080		12,7
	5	Ø5	34		188	6392		10,0
					Total+10%;		24,6	25,5

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)	
V 8	1	ø6,3	2		240	265	530	1,3	
	2	ø25	1		430	430	16,6		
	3	ø6,3	2		300	300	600	1,5	
	4	ø25	3		575	1725	66,5		
	5	ø6,3	2		260	520	1,3		
	6	ø10	2		275	550	3,4		
	7	ø5	2		280	560		0,9	
	8	ø20	2		500	1000	24,7		
	9	ø5	2		405	810		1,3	
	10	ø10	2		330	660	4,1		
	11	ø5	2		360	720		1,1	
	12	ø5	2		250	500		0,8	
	13	ø10	2		280	560	3,5		
	14	ø12,5	2		805	1610	15,5		
	15	ø12,5	2		785	1570	15,1		
	16	ø12,5	2		780	1560	15,0		
	17	ø12,5	2		815	1630	15,7		
	18	ø16	1		290	290	4,6		
	19	ø12,5	1		395	395	3,8		
	20	ø12,5	2		490	980	9,4		
	21	ø12,5	2		545	1090	10,5		
	22	ø12,5	2		505	1010	9,7		
	23	ø12,5	1		280	280	2,7		
	24	ø10	2		1120	2240	13,8		
	25	ø5	32		775	24800		38,9	
	26	ø5	16		780	12480		19,6	
	27	ø5	16		777	12432		19,5	
28	ø5	177		188	33276		52,2		
				Total+10%:				262,6	147,7
V 9	1	ø8	2		140	280	1,1		
	2	ø10	2		331	662	4,1		
	3	ø6,3	2		318	636	1,6		
	4	ø5	9		138	1242		1,9	
				Total+10%:				7,5	2,1
V 10=V 11	1	ø25	3		345	1035	39,9		
	2	ø6,3	2		265	530	1,3		
	3	ø5	46		195	8970		14,1	
	4	ø5	5		488	2440		3,8	
					Total+10%:				45,3
						(+2):	90,6	39,4	
						ø5:	0,0	218,3	
						ø6,3:	16,9	0,0	
						ø8:	4,0	0,0	
						ø10:	40,2	0,0	
						ø12,5:	120,0	0,0	
						ø16:	5,1	0,0	
						ø20:	27,2	0,0	
						ø25:	179,2	0,0	
						Total:	392,6	218,3	

RESPONSÁVEIS TÉCNICOS

COORDENADOR:  
Arq.to Marlon Vinícius Lima,  
CAU: A96639-8  
RRT: 6574858

RESPONSÁVEL PELO PROJETO:  
Eng. Civil Dario Nascimento  
CREA: 5069979311  
ART: 28027230180106426

CONTRATADA:

**INPLENITUS**  
Projetos, Gerenciamento e Fiscalização de Obras Ltda.

End.: Rua Tenente Negrão, 90 - 5º Andar - Itaim Bibi - SP  
Fone +55 11 3739 - 4659  
E-mail: [inplenitus@inplenitus.com.br](mailto:inplenitus@inplenitus.com.br)  
Site: [www.inplenitus.com.br](http://www.inplenitus.com.br)

CLIENTE: CÂMARA MUNICIPAL DE CAIEIRAS

NORTE DE PROJETO:

OBJETO: NOVA SEDE DA CÂMARA MUNICIPAL DE CAIEIRAS

ESCALA:	DATA:
INDICADO	01/2010

AVENIDA MANUEL CARLOS GOMES - CENTRO, CAIEIRAS - SP

VERSÃO:	FORMATO:
00	A1

FASE: PROJETO EXECUTIVO  
ESTRUTURA

DISCIPLINA:	FOLHA nº:
EST	41 / 56

ASSUNTO: **VIGAS  
FOMAS E ARMAÇÕES**