



Boldrames – ferro
 Desenho de vigas
 Concreto: C25, em geral
 Aço das barras: CA-50
 Aço dos estribos: CA-60
 Escala vigas 1:50
 Escala seções 1:50
 Escala aberturas 1:50

Element	Pos.Don. O ₂	Equation	Comp.Lat. 50-CA	Lat. (km)	Lat. (km)	Lat. (km)
V 202	1.45	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	2.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	3.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	4.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
V 3	1.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	2.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	3.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	4.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
V 4	1.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	2.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	3.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	4.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
V 5	1.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	2.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	3.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160
	4.05	$\frac{1}{2} \text{C}_2\text{H}_4 + \text{O}_2 \rightarrow \text{CO} + \text{H}_2\text{O}$	160	160	160	160

Elemento	Pos. (km)	Esquina (m)	Comp. (km)	Dist. (km)	Vel. (km/h)
1.6	1.608	4.0	60.0	43.9	2.05
	2.405	23.1	42.9	19.9	2.05
	2.405	23.1	42.9	19.9	2.05
1.7	1.658	4.0	60.0	43.9	2.05
	2.405	23.1	42.9	19.9	2.05
	2.405	23.1	42.9	19.9	2.05
	2.405	23.1	42.9	19.9	2.05
	2.405	23.1	42.9	19.9	2.05
1.8	1.658	4.0	60.0	43.9	2.05
	2.405	23.1	42.9	19.9	2.05
	2.405	23.1	42.9	19.9	2.05
	2.405	23.1	42.9	19.9	2.05
	2.405	23.1	42.9	19.9	2.05
1.9	1.658	4.0	60.0	43.9	2.05
	2.405	23.1	42.9	19.9	2.05
	2.405	23.1	42.9	19.9	2.05
	2.405	23.1	42.9	19.9	2.05
	2.405	23.1	42.9	19.9	2.05

[illegible]

Elemento	PosDiem Q	Estuam (GeV)	CompDiem Q-BC (GeV)	CompDiem Q-BC- R-BC (Vb)	Estuam (GeV)	CompDiem Q-BC- R-BC (Vb)
0	1.68	4.0	38.1	38.1	0.0	38.1
1	1.68	4.0	38.1	38.1	0.0	38.1
2	1.68	4.0	38.1	38.1	0.0	38.1
3	1.68	4.0	38.1	38.1	0.0	38.1
4	1.68	4.0	38.1	38.1	0.0	38.1
5	1.68	4.0	38.1	38.1	0.0	38.1
6	1.68	4.0	38.1	38.1	0.0	38.1
7	1.68	4.0	38.1	38.1	0.0	38.1
8	1.68	4.0	38.1	38.1	0.0	38.1
9	1.68	4.0	38.1	38.1	0.0	38.1
10	1.68	4.0	38.1	38.1	0.0	38.1
11	1.68	4.0	38.1	38.1	0.0	38.1
12	1.68	4.0	38.1	38.1	0.0	38.1
13	1.68	4.0	38.1	38.1	0.0	38.1
14	1.68	4.0	38.1	38.1	0.0	38.1
15	1.68	4.0	38.1	38.1	0.0	38.1
16	1.68	4.0	38.1	38.1	0.0	38.1
17	1.68	4.0	38.1	38.1	0.0	38.1
18	1.68	4.0	38.1	38.1	0.0	38.1
19	1.68	4.0	38.1	38.1	0.0	38.1
20	1.68	4.0	38.1	38.1	0.0	38.1
21	1.68	4.0	38.1	38.1	0.0	38.1
22	1.68	4.0	38.1	38.1	0.0	38.1
23	1.68	4.0	38.1	38.1	0.0	38.1
24	1.68	4.0	38.1	38.1	0.0	38.1
25	1.68	4.0	38.1	38.1	0.0	38.1
26	1.68	4.0	38.1	38.1	0.0	38.1
27	1.68	4.0	38.1	38.1	0.0	38.1
28	1.68	4.0	38.1	38.1	0.0	38.1
29	1.68	4.0	38.1	38.1	0.0	38.1
30	1.68	4.0	38.1	38.1	0.0	38.1
31	1.68	4.0	38.1	38.1	0.0	38.1
32	1.68	4.0	38.1	38.1	0.0	38.1
33	1.68	4.0	38.1	38.1	0.0	38.1
34	1.68	4.0	38.1	38.1	0.0	38.1
35	1.68	4.0	38.1	38.1	0.0	38.1
36	1.68	4.0	38.1	38.1	0.0	38.1
37	1.68	4.0	38.1	38.1	0.0	38.1
38	1.68	4.0	38.1	38.1	0.0	38.1
39	1.68	4.0	38.1	38.1	0.0	38.1
40	1.68	4.0	38.1	38.1	0.0	38.1
41	1.68	4.0	38.1	38.1	0.0	38.1
42	1.68	4.0	38.1	38.1	0.0	38.1
43	1.68	4.0	38.1	38.1	0.0	38.1
44	1.68	4.0	38.1	38.1	0.0	38.1
45	1.68	4.0	38.1	38.1	0.0	38.1
46	1.68	4.0	38.1	38.1	0.0	38.1
47	1.68	4.0	38.1	38.1	0.0	38.1
48	1.68	4.0	38.1	38.1	0.0	38.1
49	1.68	4.0	38.1	38.1	0.0	38.1
50	1.68	4.0	38.1	38.1	0.0	38.1
51	1.68	4.0	38.1	38.1	0.0	38.1
52	1.68	4.0	38.1	38.1	0.0	38.1
53	1.68	4.0	38.1	38.1	0.0	38.1
54	1.68	4.0	38.1	38.1	0.0	38.1
55	1.68	4.0	38.1	38.1	0.0	38.1
56	1.68	4.0	38.1	38.1	0.0	38.1
57	1.68	4.0	38.1	38.1	0.0	38.1
58	1.68	4.0	38.1	38.1	0.0	38.1
59	1.68	4.0	38.1	38.1	0.0	38.1
60	1.68	4.0	38.1	38.1	0.0	38.1
61	1.68	4.0	38.1	38.1	0.0	38.1
62	1.68	4.0	38.1	38.1	0.0	38.1
63	1.68	4.0	38.1	38.1	0.0	38.1
64	1.68	4.0	38.1	38.1	0.0	38.1
65	1.68	4.0	38.1	38.1	0.0	38.1
66	1.68	4.0	38.1	38.1	0.0	38.1
67	1.68	4.0	38.1	38.1	0.0	38.1
68	1.68	4.0	38.1	38.1	0.0	38.1
69	1.68	4.0	38.1	38.1	0.0	38.1
70	1.68	4.0	38.1	38.1	0.0	38.1
71	1.68	4.0	38.1	38.1	0.0	38.1
72	1.68	4.0	38.1	38.1	0.0	38.1
73	1.68	4.0	38.1	38.1	0.0	38.1
74	1.68	4.0	38.1	38.1	0.0	38.1
75	1.68	4.0	38.1	38.1	0.0	38.1
76	1.68	4.0	38.1	38.1	0.0	38.1
77	1.68	4.0	38.1	38.1	0.0	38.1
78	1.68	4.0	38.1	38.1	0.0	38.1
79	1.68	4.0	38.1	38.1	0.0	38.1
80	1.68	4.0	38.1	38.1	0.0	38.1
81	1.68	4.0	38.1	38.1	0.0	38.1
82	1.68	4.0	38.1	38.1	0.0	38.1
83	1.68	4.0	38.1	38.1	0.0	38.1
84	1.68	4.0	38.1	38.1	0.0	38.1
85	1.68	4.0	38.1	38.1	0.0	38.1
86	1.68	4.0	38.1	38.1	0.0	38.1
87	1.68	4.0	38.1	38.1	0.0	38.1
88	1.68	4.0	38.1	38.1	0.0	38.1
89	1.68	4.0	38.1	38.1	0.0	38.1
90	1.68	4.0	38.1	38.1	0.0	38.1
91	1.68	4.0	38.1	38.1	0.0	38.1
92	1.68	4.0	38.1	38.1	0.0	38.1
93	1.68	4.0	38.1	38.1	0.0	38.1
94	1.68	4.0	38.1	38.1	0.0	38.1
95	1.68	4.0	38.1	38.1	0.0	38.1
96	1.68	4.0	38.1	38.1	0.0	38.1
97	1.68	4.0	38.1	38.1	0.0	38.1
98	1.68	4.0	38.1	38.1	0.0	38.1
99	1.68	4.0	38.1	38.1	0.0	38.1
100	1.68	4.0	38.1	38.1	0.0	38.1
101	1.68	4.0	38.1	38.1	0.0	38.1
102	1.68	4.0	38.1	38.1	0.0	38.1
103	1.68	4.0	38.1	38.1	0.0	38.1
104	1.68	4.0	38.1	38.1	0.0	38.1
105	1.68	4.0	38.1	38.1	0.0	38.1
106	1.68	4.0	38.1	38.1	0.0	38.1
107	1.68	4.0	38.1	38.1	0.0	38.1
108	1.68	4.0	38.1	38.1	0.0	38.1
109	1.68	4.0	38.1	38.1	0.0	38.1
110	1.68	4.0	38.1	38.1	0.0	38.1
111	1.68	4.0	38.1	38.1	0.0	38.1
112	1.68	4.0	38.1	38.1	0.0	38.1
113	1.68	4.0	38.1	38.1	0.0	38.1
114	1.68	4.0	38.1	38.1	0.0	38.1
115	1.68	4.0	38.1	38.1	0.0	38.1
116	1.68	4.0	38.1	38.1	0.0	38.1
117	1.68	4.0	38.1	38.1	0.0	38.1
118	1.68	4.0	38.1	38.1	0.0	38.1
119	1.68	4.0	38.1	38.1	0.0	38.1
120	1.68	4.0	38.1	38.1	0.0	38.1
121	1.68	4.0	38.1	38.1	0.0	38.1
122	1.68	4.0	38.1	38.1	0.0	38.1
123	1.68	4.0	38.1	38.1	0.0	38.1
124	1.68	4.0	38.1	38.1	0.0	38.1
125	1.68	4.0	38.1	38.1	0.0	38.1
126	1.68	4.0	38.1	38.1	0.0	38.1
127	1.68	4.0	38.1	38.1	0.0	38.1
128	1.68	4.0	38.1	38.1	0.0	38.1
129	1.68	4.0	38.1	38.1	0.0	38.1
130	1.68	4.0	38.1	38.1	0.0	38.1
131	1.68	4.0	38.1	38.1	0.0	38.1
132	1.68	4.0	38.1	38.1	0.0	38.1
133	1.68	4.0	38.1	38.1	0.0	38.1
134	1.68	4.0	38.1	38.1	0.0	38.1
135	1.68	4.0	38.1	38.1	0.0	38.1
136	1.68	4.0	38.1	38.1	0.0	38.1
137	1.68	4.0	38.1	38.1	0.0	38.1
138	1.68	4.0	38.1	38.1	0.0	38.1
139	1.68	4.0	38.1	38.1	0.0	38.1
140	1.68	4.0	38.1	38.1	0.0	38.1
141	1.68	4.0	38.1	38.1	0.0	38.1
142	1.68	4.0	38.1	38.1	0.0	38.1
143	1.68	4.0	38.1	38.1	0.0	38.1
144	1.68	4.0	38.1	38.1	0.0	38.1
145	1.68	4.0	38.1	38.1	0.0	38.1
146	1.68	4.0	38.1	38.1	0.0	38.1
147	1.68	4.0	38.1	38.1	0.0	38.1
148	1.68	4.0	38.1	38.1	0.0	38.1
149	1.68	4.0	38.1	38.1	0.0	38.1
150	1.68	4.0	38.1	38.1	0.0	38.1
151	1.68	4.0	38.1	38.1	0.0	38.1
152	1.68	4.0	38.1	38.1	0.0	38.1
153	1.68	4.0	38.1	38.1	0.0	38.1
154	1.68	4.0	38.1	38.1	0.0	38.1
155	1.68	4.0	38.1	38.1	0.0	38.1
156	1.68	4.0	38.1	38.1	0.0	38.1
157	1.68	4.0	38.1	38.1	0.0	38.1
158	1.68	4.0	38.1	38.1	0.0	38.1
159	1.68	4.0	38.1	38.1	0.0	38.1
160	1.68	4.0	38.1	38.1	0.0	38.1
161	1.68	4.0	38.1	38.1	0.0	38.1
162	1.68	4.0	38.1	38.1	0.0	38.1
163	1.68	4.0	38.1	38.1	0.0	38.1
164	1.68	4.0	38.1	38.1	0.0	38.1
165	1.68	4.0	38.1	38.1	0.0	38.1
166	1.68	4.0	38.1	38.1	0.0	38.1
167	1.68	4.0	38.1	38.1	0.0	38.1
168	1.68	4.0	38.1	38.1	0.0	38.1
169	1.68	4.0	38.1	38.1	0.0	38.1
170	1.68	4.0	38.1	38.1	0.0	38.1
171	1.68	4.0	38.1	38.1	0.0	38.1
172	1.68	4.0	38.1	38.1	0.0	38.1
173	1.68	4.0	38.1	38.1	0.0	38.1
174	1.68	4.0	38.1	38.1	0.0	38.1
175	1.68	4.0	38.1	38.1	0.0	38.1
176	1.68	4.0	38.1	38.1	0.0	38.1
177	1.68	4.0	38.1	38.1	0.0	38.1
178	1.68	4.0	38.1	38.1	0.0	38.1
179	1.68	4.0	38.1	38.1	0.0	38.1
180	1.68	4.0	38.1	38.1	0.0	38.1
181	1.68	4.0	38.1	38.1	0.0	38.1
182	1.68	4.0	38.1	38.1	0.0	38.1
183	1.68	4.0	38.1	38.1	0.0	38.1
184	1.68	4.0	38.1	38.1	0.0	38.1
185	1.68	4.0	38.1	38.1	0.0	38.1
186	1.68	4.0	38.1	38.1	0.0	38.1
187	1.68	4.0	38.1	38.1	0.0	38.1
188	1.68	4.0	38.1	38.1	0.0	38.1
189	1.68	4.0	38.1	38.1	0.0	38.1
190	1.68	4.0	38.1	38.1	0.0	38.1
191	1.68	4.0	38.1	38.1	0.0	38.1
192	1.68	4.0	38.1	38.1	0.0	38.1
193	1.68	4.0	38.1	3		

P.M.B.M.		SECRETARIA MUNICIPAL DE PLANEJAMENTO URBANO	
PROJETO DE ENGENHARIA		TOMADA	
05/17		05/17	
CRECHE - DETALHAMENTO DAS VIGAS BALDRAMES			
DESCRIÇÃO : DETALHAMENTO DAS VIGAS BALDRAMES V.1, 2, 3, 4, 5, 6, 7, 8, 9, 10, ESTRUTURA DA CRECHE			
PROPRIETÁRIO : PREFEITURA MUNICIPAL DE BARRA MANSA			
LOCAL : RUA SÃO PEDRO, VISTA ALEGRE, BARRA MANSA, RJ			
QUADRO DE ÁREAS			
ZONA		USO	
SELO DE APROVAÇÃO PMBM			
CONDIÇÃO		DATA	
AUTORIZADO PROJETO		09/03/2023	
PROJETO 1		PROJETO 2	
PROJETO 3		PROJETO 4	
CARIMBO		Nº DO PROJETO	
APROVAÇÃO SIM/P		DATA DA APROVAÇÃO	