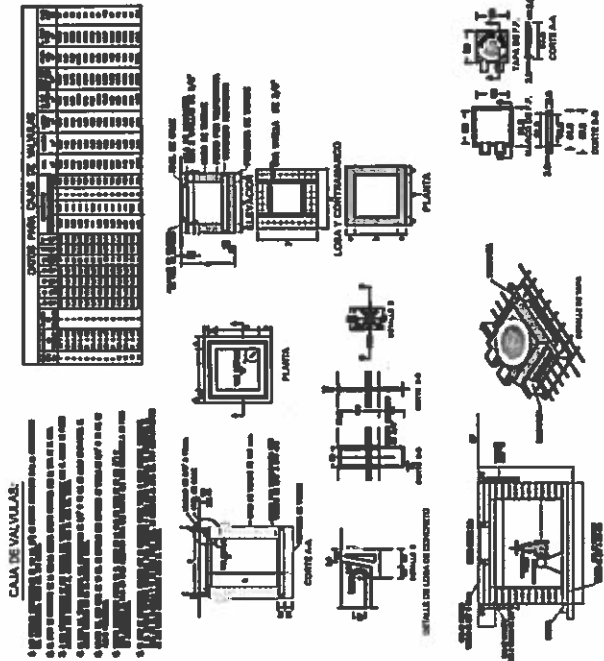


# DISEÑO DE CRUCEROS DE AGUA POTABLE



## DIRECCION DE LOS EMPUJES Y FORMA DE COLOCAR LOS ATRAQUES

DIAMETRO NOMINAL	Altura	Lado 1"	Lado 2"	Nda. atraque
1/2"	30"	30"	30"	0.007
3/4"	30"	30"	30"	0.008
1"	30"	30"	30"	0.009
1 1/4"	30"	30"	30"	0.010
1 1/2"	30"	30"	30"	0.011
2"	30"	30"	30"	0.012
2 1/2"	30"	30"	30"	0.013
3"	30"	30"	30"	0.014
3 1/2"	30"	30"	30"	0.015
4"	30"	30"	30"	0.016
4 1/2"	30"	30"	30"	0.017
5"	30"	30"	30"	0.018
5 1/2"	30"	30"	30"	0.019
6"	30"	30"	30"	0.020
6 1/2"	30"	30"	30"	0.021
7"	30"	30"	30"	0.022
7 1/2"	30"	30"	30"	0.023
8"	30"	30"	30"	0.024
8 1/2"	30"	30"	30"	0.025
9"	30"	30"	30"	0.026
9 1/2"	30"	30"	30"	0.027
10"	30"	30"	30"	0.028
10 1/2"	30"	30"	30"	0.029
11"	30"	30"	30"	0.030
11 1/2"	30"	30"	30"	0.031
12"	30"	30"	30"	0.032
12 1/2"	30"	30"	30"	0.033
13"	30"	30"	30"	0.034
13 1/2"	30"	30"	30"	0.035
14"	30"	30"	30"	0.036
14 1/2"	30"	30"	30"	0.037
15"	30"	30"	30"	0.038
15 1/2"	30"	30"	30"	0.039
16"	30"	30"	30"	0.040
16 1/2"	30"	30"	30"	0.041
17"	30"	30"	30"	0.042
17 1/2"	30"	30"	30"	0.043
18"	30"	30"	30"	0.044
18 1/2"	30"	30"	30"	0.045
19"	30"	30"	30"	0.046
19 1/2"	30"	30"	30"	0.047
20"	30"	30"	30"	0.048
20 1/2"	30"	30"	30"	0.049
21"	30"	30"	30"	0.050
21 1/2"	30"	30"	30"	0.051
22"	30"	30"	30"	0.052
22 1/2"	30"	30"	30"	0.053
23"	30"	30"	30"	0.054
23 1/2"	30"	30"	30"	0.055
24"	30"	30"	30"	0.056
24 1/2"	30"	30"	30"	0.057
25"	30"	30"	30"	0.058
25 1/2"	30"	30"	30"	0.059
26"	30"	30"	30"	0.060
26 1/2"	30"	30"	30"	0.061
27"	30"	30"	30"	0.062
27 1/2"	30"	30"	30"	0.063
28"	30"	30"	30"	0.064
28 1/2"	30"	30"	30"	0.065
29"	30"	30"	30"	0.066
29 1/2"	30"	30"	30"	0.067
30"	30"	30"	30"	0.068
30 1/2"	30"	30"	30"	0.069
31"	30"	30"	30"	0.070
31 1/2"	30"	30"	30"	0.071
32"	30"	30"	30"	0.072
32 1/2"	30"	30"	30"	0.073
33"	30"	30"	30"	0.074
33 1/2"	30"	30"	30"	0.075
34"	30"	30"	30"	0.076
34 1/2"	30"	30"	30"	0.077
35"	30"	30"	30"	0.078
35 1/2"	30"	30"	30"	0.079
36"	30"	30"	30"	0.080
36 1/2"	30"	30"	30"	0.081
37"	30"	30"	30"	0.082
37 1/2"	30"	30"	30"	0.083
38"	30"	30"	30"	0.084
38 1/2"	30"	30"	30"	0.085
39"	30"	30"	30"	0.086
39 1/2"	30"	30"	30"	0.087
40"	30"	30"	30"	0.088
40 1/2"	30"	30"	30"	0.089
41"	30"	30"	30"	0.090
41 1/2"	30"	30"	30"	0.091
42"	30"	30"	30"	0.092
42 1/2"	30"	30"	30"	0.093
43"	30"	30"	30"	0.094
43 1/2"	30"	30"	30"	0.095
44"	30"	30"	30"	0.096
44 1/2"	30"	30"	30"	0.097
45"	30"	30"	30"	0.098
45 1/2"	30"	30"	30"	0.099
46"	30"	30"	30"	0.100
46 1/2"	30"	30"	30"	0.101
47"	30"	30"	30"	0.102
47 1/2"	30"	30"	30"	0.103
48"	30"	30"	30"	0.104
48 1/2"	30"	30"	30"	0.105
49"	30"	30"	30"	0.106
49 1/2"	30"	30"	30"	0.107
50"	30"	30"	30"	0.108
50 1/2"	30"	30"	30"	0.109
51"	30"	30"	30"	0.110
51 1/2"	30"	30"	30"	0.111
52"	30"	30"	30"	0.112
52 1/2"	30"	30"	30"	0.113
53"	30"	30"	30"	0.114
53 1/2"	30"	30"	30"	0.115
54"	30"	30"	30"	0.116
54 1/2"	30"	30"	30"	0.117
55"	30"	30"	30"	0.118
55 1/2"	30"	30"	30"	0.119
56"	30"	30"	30"	0.120
56 1/2"	30"	30"	30"	0.121
57"	30"	30"	30"	0.122
57 1/2"	30"	30"	30"	0.123
58"	30"	30"	30"	0.124
58 1/2"	30"	30"	30"	0.125
59"	30"	30"	30"	0.126
59 1/2"	30"	30"	30"	0.127
60"	30"	30"	30"	0.128
60 1/2"	30"	30"	30"	0.129
61"	30"	30"	30"	0.130
61 1/2"	30"	30"	30"	0.131
62"	30"	30"	30"	0.132
62 1/2"	30"	30"	30"	0.133
63"	30"	30"	30"	0.134
63 1/2"	30"	30"	30"	0.135
64"	30"	30"	30"	0.136
64 1/2"	30"	30"	30"	0.137
65"	30"	30"	30"	0.138
65 1/2"	30"	30"	30"	0.139
66"	30"	30"	30"	0.140
66 1/2"	30"	30"	30"	0.141
67"	30"	30"	30"	0.142
67 1/2"	30"	30"	30"	0.143
68"	30"	30"	30"	0.144
68 1/2"	30"	30"	30"	0.145
69"	30"	30"	30"	0.146
69 1/2"	30"	30"	30"	0.147
70"	30"	30"	30"	0.148
70 1/2"	30"	30"	30"	0.149
71"	30"	30"	30"	0.150
71 1/2"	30"	30"	30"	0.151
72"	30"	30"	30"	0.152
72 1/2"	30"	30"	30"	0.153
73"	30"	30"	30"	0.154
73 1/2"	30"	30"	30"	0.155
74"	30"	30"	30"	0.156
74 1/2"	30"	30"	30"	0.157
75"	30"	30"	30"	0.158
75 1/2"	30"	30"	30"	0.159
76"	30"	30"	30"	0.160
76 1/2"	30"	30"	30"	0.161
77"	30"	30"	30"	0.162
77 1/2"	30"	30"	30"	0.163
78"	30"	30"	30"	0.164
78 1/2"	30"	30"	30"	0.165
79"	30"	30"	30"	0.166
79 1/2"	30"	30"	30"	0.167
80"	30"	30"	30"	0.168
80 1/2"	30"	30"	30"	0.169
81"	30"	30"	30"	0.170
81 1/2"	30"	30"	30"	0.171
82"	30"	30"	30"	0.172
82 1/2"	30"	30"	30"	0.173
83"	30"	30"	30"	0.174
83 1/2"	30"	30"	30"	0.175
84"	30"	30"	30"	0.176
84 1/2"	30"	30"	30"	0.177
85"	30"	30"	30"	0.178
85 1/2"	30"	30"	30"	0.179
86"	30"	30"	30"	0.180
86 1/2"	30"	30"	30"	0.181
87"	30"	30"	30"	0.182
87 1/2"	30"	30"	30"	0.183
88"	30"	30"	30"	0.184
88 1/2"	30"	30"	30"	0.185
89"	30"	30"	30"	0.186
89 1/2"	30"	30"	30"	0.187
90"	30"	30"	30"	0.188
90 1/2"	30"	30"	30"	0.189
91"	30"	30"	30"	0.190
91 1/2"	30"	30"	30"	0.191
92"	30"	30"	30"	0.192
92 1/2"	30"	30"	30"	0.193
93"	30"	30"	30"	0.194
93 1/2"	30"	30"	30"	0.195
94"	30"	30"	30"	0.196
94 1/2"	30"	30"	30"	0.197
95"	30"	30"	30"	0.198
95 1/2"	30"	30"	30"	0.199
96"	30"	30"	30"	0.200
96 1/2"	30"	30"	30"	0.201
97"	30"	30"	30"	0.202
97 1/2"	30"	30"	30"	0.203
98"	30"	30"	30"	0.204
98 1/2"	30"	30"	30"	0.205
99"	30"	30"	30"	0.206
99 1/2"	30"	30"	30"	0.207
100"	30"	30"	30"	0.208
100 1/2"	30"	30"	30"	0.209
101"	30"	30"	30"	0.210
101 1/2"	30"	30"	30"	0.211
102"	30"	30"	30"	0.212
102 1/2"	30"	30"	30"	0.213
103"	30"	30"	30"	0.214
103 1/2"	30"	30"	30"	0.215
104"	30"	30"	30"	0.216
104 1/2"	30"	30"	30"	0.217
105"	30"	30"	30"	0.218
105 1/2"	30"	30"	30"	0.219
106"	30"	30"	30"	0.220
106 1/2"	30"	30"	30"	0.221
107"	30"	30"	30"	0.222
107 1/2"	30"	30"	30"	0.223
108"	30"	30"	30"	0.224
108 1/2"	30"	30"	30"	0.225
109"	30"	30"	30"	0.226
109 1/2"	30"	30"	30"	0.227
110"	30"	30"	30"	0.228
110 1/2"	30"	30"	30"	0.229
111"	30"	30"	30"	0.230
111 1/2"	30"	30"	30"	0.231
112"	30"	30"	30"	0.232
112 1/2"	30"	30"	30"	0.233
113"	30"	30"	30"	0.234
113 1/2"	30"	30"	30"	0.235
114"	30"	30"	30"	0.236
114 1/2"	30"	30"	30"	0.237
115"	30"	30"	30"	0.238
115 1/2"	30"	30"	30"	0.239
116"	30"	30"	30"	0.240
116 1/2"	30"	30"	30"	0.241
117"	30"	30"	30"	0.242
117 1/2"	30"	30"	30"	0.243
118"	30"	30"	30"	0.244
118 1/2"	30"	30"	30"	0.245
119"	30"	30"	30"	0.246
119 1/2"	30"	30"	30"	0.247
120"	30"	30"	30"	0.248
120 1/2"	30"	30"	30"	0.249
121"	30"	30"	30"	0.250
121 1/2"	30"	30"	30"	0.251
122"	30"	30"	30"	0.252
122 1/2"	30"	30"	30"	0.253
123"	30"	30"	30"	0.254
123 1/2"	30"	30"	30"	0.255
124"	30"	30"	30"	0.256
124 1/2"	30"	30"	30"	0.257
125"	30"	30"	30"	0.258
125 1/2"	30"	30"	30"	0.259
126"	30"	30"	30"	0.260
126 1/2"	30"	30"	30"	0.261
127"	30"	30"	30"	0.262
127 1/2"	30"	30"	30"	0.263
128"	30"	30"	30"	0.264
128 1/2"	30"	30"	30"	0.265
129"	30"	30"	30"	0.266
129 1/2"	30"	30"	30"	0.267
130"	30"	30"	30"	0.268
130 1/2"	30"	30"	30"	0.269
131"	30"	30"	30"	0.270
131 1/2"	30"	30"	30"	0.271
132"	30"	30"	30"	0.272
132 1/2"	30"	30"	30"	0.273
133"	30"	30"	30"	0.274
133 1/2"	30"	30"	30"	0.275
134"	30"	30"	30"	0.276
134 1/2"	30"	30"	30"	0.277
135"	30"	30"	30"	0.278
135 1/2"	30"	30"	30"	0.279
136"	30"	30"	30"	0.280
136 1/2"	30"	30"	30"	0.281