

| Virus | Host | | | Region | | |
|-------|------|---------|------|--------|---------|------|
| | Year | Species | Host | Year | Species | Host |
| V1 | 2000 | 0 | 0 | P01 | 2040 | 0 |
| V2 | 2000 | 0 | 0 | P02 | 2040 | 0 |
| V3 | 2000 | 22 | 12 | P03 | 2040 | 0 |
| V4 | 2000 | 0 | 0 | P04 | 2040 | 0 |
| V5 | 2000 | 48 | 24 | P05 | 2040 | 0 |
| V6 | 2000 | 0 | 0 | P06 | 2040 | 0 |
| V7 | 2000 | 24 | 12 | P07 | 2040 | 0 |
| V8 | 2000 | 0 | 0 | P08 | 2040 | 0 |
| V9 | 2000 | 0 | 0 | P09 | 2040 | 0 |
| V10 | 2000 | 0 | 0 | P10 | 2040 | 0 |
| V11 | 2000 | 0 | 0 | P11 | 4260 | 0 |
| V12 | 2000 | 0 | 0 | P12 | 2040 | 0 |
| V13 | 2000 | 0 | 0 | P13 | 2040 | 0 |
| V14 | 2000 | 0 | 0 | P14 | 2040 | 0 |
| V15 | 2000 | 0 | 0 | P15 | 2040 | 0 |
| V16 | 2000 | 0 | 0 | P16 | 4260 | 0 |
| V17 | 2000 | 0 | 0 | P17 | 4260 | 0 |
| V18 | 2000 | 0 | 0 | P18 | 4260 | 0 |
| V19 | 2000 | 0 | 0 | P19 | 4260 | 0 |
| V20 | 2000 | 0 | 0 | P20 | 4260 | 0 |
| V21 | 2000 | 0 | 0 | P21 | 4260 | 0 |
| V22 | 2000 | 0 | 0 | P22 | 2040 | 0 |
| V23 | 2000 | 0 | 0 | P23 | 4260 | 0 |
| V24 | 2000 | 0 | 0 | P24 | 4260 | 0 |
| V25 | 2000 | 0 | 0 | P25 | 4260 | 0 |
| V26 | 2000 | 0 | 0 | P26 | 4260 | 0 |
| V27 | 2000 | 0 | 0 | P27 | 4260 | 0 |
| V28 | 2000 | 0 | 0 | P28 | 4260 | 0 |
| V29 | 2000 | 0 | 0 | P29 | 4260 | 0 |
| V30 | 2000 | 0 | 0 | P30 | 4260 | 0 |
| V31 | 2000 | 0 | 0 | P31 | 4260 | 0 |
| V32 | 2000 | 0 | 0 | P32 | 2040 | 0 |
| V33 | 2000 | 0 | 0 | P33 | 4260 | 0 |
| V34 | 2000 | 0 | 0 | P34 | 2040 | 0 |
| V35 | 2000 | 0 | 0 | P35 | 4260 | 0 |
| V36 | 2000 | 0 | 0 | P36 | 4260 | 0 |
| V37 | 2000 | 0 | 0 | P37 | 4260 | 0 |
| V38 | 2000 | 0 | 0 | P38 | 4260 | 0 |
| V39 | 2000 | 0 | 0 | P39 | 4260 | 0 |
| V40 | 2000 | 0 | 0 | P40 | 4260 | 0 |
| V41 | 2000 | 0 | 0 | P41 | 4260 | 0 |
| V42 | 2000 | 0 | 0 | P42 | 4260 | 0 |
| V43 | 2000 | 0 | 0 | P43 | 4260 | 0 |
| V44 | 2000 | 0 | 0 | P44 | 2040 | 0 |
| V45 | 2000 | 0 | 0 | P45 | 4260 | 0 |
| V46 | 2000 | 0 | 0 | P46 | 4260 | 0 |
| V47 | 2000 | 0 | 0 | P47 | 4260 | 0 |
| V48 | 2000 | 0 | 0 | P48 | 4260 | 0 |
| V49 | 2000 | 0 | 0 | P49 | 4260 | 0 |
| V50 | 2000 | 0 | 0 | P50 | 4260 | 0 |
| V51 | 2000 | 0 | 0 | P51 | 4260 | 0 |
| V52 | 2000 | 0 | 0 | P52 | 4260 | 0 |
| V53 | 2000 | 0 | 0 | P53 | 4260 | 0 |
| V54 | 2000 | 0 | 0 | P54 | 4260 | 0 |
| V55 | 2000 | 0 | 0 | P55 | 4260 | 0 |
| V56 | 2000 | 0 | 0 | P56 | 2040 | 0 |
| V57 | 2000 | 0 | 0 | P57 | 4260 | 0 |
| V58 | 2000 | 0 | 0 | P58 | 2040 | 0 |
| V59 | 2000 | 0 | 0 | P59 | 4260 | 0 |
| V60 | 2000 | 0 | 0 | P60 | 4260 | 0 |
| V61 | 2000 | 0 | 0 | P61 | 4260 | 0 |
| V62 | 2000 | 0 | 0 | P62 | 4260 | 0 |
| V63 | 2000 | 0 | 0 | P63 | 4260 | 0 |
| V64 | 2000 | 0 | 0 | P64 | 4260 | 0 |
| V65 | 2000 | 0 | 0 | P65 | 4260 | 0 |
| V66 | 2000 | 0 | 0 | P66 | 4260 | 0 |
| V67 | 2000 | 0 | 0 | P67 | 4260 | 0 |
| V68 | 2000 | 0 | 0 | P68 | 4260 | 0 |
| V69 | 2000 | 0 | 0 | P69 | 4260 | 0 |
| V70 | 2000 | 0 | 0 | P70 | 4260 | 0 |
| V71 | 2000 | 0 | 0 | P71 | 4260 | 0 |
| V72 | 2000 | 0 | 0 | P72 | 4260 | 0 |
| V73 | 2000 | 0 | 0 | P73 | 4260 | 0 |
| V74 | 2000 | 0 | 0 | P74 | 4260 | 0 |
| V75 | 2000 | 0 | 0 | P75 | 4260 | 0 |
| V76 | 2000 | 0 | 0 | P76 | 4260 | 0 |
| V77 | 2000 | 0 | 0 | P77 | 4260 | 0 |
| V78 | 2000 | 0 | 0 | P78 | 4260 | 0 |
| V79 | 2000 | 0 | 0 | P79 | 4260 | 0 |
| V80 | 2000 | 0 | 0 | P80 | 4260 | 0 |
| V81 | 2000 | 0 | 0 | P81 | 4260 | 0 |
| V82 | 2000 | 0 | 0 | P82 | 4260 | 0 |
| V83 | 2000 | 0 | 0 | P83 | 4260 | 0 |
| V84 | 2000 | 0 | 0 | P84 | 4260 | 0 |
| V85 | 2000 | 0 | 0 | P85 | 4260 | 0 |
| V86 | 2000 | 0 | 0 | P86 | 4260 | 0 |
| V87 | 2000 | 0 | 0 | P87 | 4260 | 0 |
| V88 | 2000 | 0 | 0 | P88 | 4260 | 0 |
| V89 | 2000 | 0 | 0 | P89 | 4260 | 0 |
| V90 | 2000 | 0 | 0 | P90 | 4260 | 0 |
| V91 | 2000 | 0 | 0 | P91 | 4260 | 0 |
| V92 | 2000 | 0 | 0 | P92 | 4260 | 0 |
| V93 | 2000 | 0 | 0 | P93 | 4260 | 0 |
| V94 | 2000 | 0 | 0 | P94 | 4260 | 0 |
| V95 | 2000 | 0 | 0 | P95 | 4260 | 0 |
| V96 | 2000 | 0 | 0 | P96 | 4260 | 0 |
| V97 | 2000 | 0 | 0 | P97 | 4260 | 0 |
| V98 | 2000 | 0 | 0 | P98 | 4260 | 0 |
| V99 | 2000 | 0 | 0 | P99 | 4260 | 0 |
| V100 | 2000 | 0 | 0 | P100 | 4260 | 0 |
| V101 | 2000 | 0 | 0 | P101 | 2040 | 0 |
| V102 | 2000 | 0 | 0 | P102 | 4260 | 0 |
| V103 | 2000 | 0 | 0 | P103 | 4260 | 0 |
| V104 | 2000 | 0 | 0 | P104 | 4260 | 0 |
| V105 | 2000 | 0 | 0 | P105 | 4260 | 0 |
| V106 | 2000 | 0 | 0 | P106 | 2040 | 0 |
| V107 | 2000 | 0 | 0 | P107 | 4260 | 0 |
| V108 | 2000 | 0 | 0 | P108 | 4260 | 0 |
| V109 | 2000 | 0 | 0 | P109 | 2040 | 0 |
| V110 | 2000 | 0 | 0 | P110 | 4260 | 0 |
| V111 | 2000 | 0 | 0 | P111 | 2040 | 0 |
| V112 | 2000 | 0 | 0 | P112 | 4260 | 0 |
| V113 | 2000 | 0 | 0 | P113 | 4260 | 0 |
| V114 | 2000 | 0 | 0 | P114 | 4260 | 0 |
| V115 | 2000 | 0 | 0 | P115 | 4260 | 0 |
| V116 | 2000 | 0 | 0 | P116 | 4260 | 0 |
| V117 | 2000 | 0 | 0 | P117 | 4260 | 0 |
| V118 | 2000 | 0 | 0 | P118 | 4260 | 0 |
| V119 | 2000 | 0 | 0 | P119 | 2040 | 0 |
| V120 | 2000 | 0 | 0 | P120 | 4260 | 0 |
| V121 | 2000 | 0 | 0 | P121 | 2040 | 0 |
| V122 | 2000 | 0 | 0 | P122 | 4260 | 0 |
| V123 | 2000 | 0 | 0 | P123 | 4260 | 0 |
| V124 | 2000 | 0 | 0 | P124 | 4260 | 0 |
| V125 | 2000 | 0 | 0 | P125 | 2040 | 0 |
| V126 | 2000 | 0 | 0 | P126 | 4260 | 0 |
| V127 | 2000 | 0 | 0 | P127 | 4260 | 0 |
| V128 | 2000 | 0 | 0 | P128 | 4260 | 0 |
| V129 | 2000 | 0 | 0 | P129 | 4260 | 0 |
| V130 | 2000 | 0 | 0 | P130 | 4260 | 0 |
| V131 | 2000 | 0 | 0 | P131 | 4260 | 0 |
| V132 | 2000 | 0 | 0 | P132 | 4260 | 0 |
| V133 | 2000 | 0 | 0 | P133 | 4260 | 0 |
| V134 | 2000 | 0 | 0 | P134 | 4260 | 0 |
| V135 | 2000 | 0 | 0 | P135 | 4260 | 0 |
| V136 | 2000 | 0 | 0 | P136 | 4260 | 0 |
| V137 | 2000 | 0 | 0 | P137 | 4260 | 0 |
| V138 | 2000 | 0 | 0 | P138 | 4260 | 0 |
| V139 | 2000 | 0 | 0 | P139 | 4260 | 0 |
| V140 | 2000 | 0 | 0 | P140 | 4260 | 0 |
| V141 | 2000 | 0 | 0 | P141 | 4260 | 0 |
| V142 | 2000 | 0 | 0 | P142 | 4260 | 0 |
| V143 | 2000 | 0 | 0 | P143 | 4260 | 0 |
| V144 | 2000 | 0 | 0 | P144 | 4260 | 0 |
| V145 | 2000 | 0 | 0 | P145 | 4260 | 0 |
| V146 | 2000 | 0 | 0 | P146 | 4260 | 0 |
| V147 | 2000 | 0 | 0 | P147 | 4260 | 0 |
| V148 | 2000 | 0 | 0 | P148 | 4260 | 0 |
| V149 | 2000 | 0 | 0 | P149 | 4260 | 0 |
| V150 | 2000 | 0 | 0 | P150 | 4260 | 0 |
| V151 | 2000 | 0 | 0 | P151 | 4260 | 0 |
| V152 | 2000 | 0 | 0 | P152 | 4260 | 0 |
| V153 | 2000 | 0 | 0 | P153 | 4260 | 0 |
| V154 | 2000 | 0 | 0 | P154 | 4260 | 0 |
| V155 | 2000 | 0 | 0 | P155 | 4260 | 0 |
| V156 | 2000 | 0 | 0 | P156 | 4260 | 0 |
| V157 | 2000 | 0 | 0 | P157 | 4260 | 0 |
| V158 | 2000 | 0 | 0 | P158 | 4260 | 0 |
| V159 | 2000 | 0 | 0 | P159 | 4260 | 0 |
| V160 | 2000 | 0 | 0 | P160 | 4260 | 0 |
| V161 | 2000 | 0 | 0 | P161 | 4260 | 0 |
| V162 | 2000 | 0 | 0 | P162 | 4260 | 0 |
| V163 | 2000 | 0 | 0 | P163 | 4260 | 0 |
| V164 | 2000 | 0 | 0 | P164 | 4260 | 0 |
| V165 | 2000 | 0 | 0 | P165 | 4260 | 0 |
| V166 | 2000 | 0 | 0 | P166 | 4260 | 0 |
| V167 | 2000 | 0 | 0 | P167 | 4260 | 0 |
| V168 | 2000 | 0 | 0 | P168 | 4260 | 0 |
| V169 | 2000 | 0 | 0 | P169 | 4260 | 0 |
| V170 | 2000 | 0 | 0 | P170 | 4260 | 0 |
| V171 | 2000 | 0 | 0 | P171 | 4260 | 0 |
| V172 | 2000 | 0 | 0 | P172 | 4260 | 0 |
| V173 | 2000 | 0 | 0 | P173 | 4260 | 0 |
| V174 | 2000 | 0 | 0 | P174 | 4260 | 0 |
| V175 | 2000 | 0 | 0 | P175 | 4260 | 0 |
| V176 | 2000 | 0 | 0 | P176 | 4260 | 0 |
| V177 | 2000 | 0 | 0 | P177 | 4260 | 0 |
| V178 | 2000 | 0 | 0 | P178 | 4260 | 0 |
| V179 | 2000 | 0 | 0 | P179 | 4260 | 0 |
| V180 | 2000 | 0 | 0 | P180 | 4260 | 0 |
| V181 | 2000 | 0 | 0 | P181 | 4260 | 0 |
| V182 | 2000 | 0 | 0 | P182 | 4260 | 0 |
| V183 | 2000 | 0 | 0 | P183 | 4260 | 0 |
| V184 | 2000 | 0 | 0 | P184 | 4260 | 0 |
| V185 | 2000 | 0 | 0 | P185 | 4260 | 0 |
| V186 | 2000 | 0 | 0 | P186 | 4260 | 0 |
| V187 | 2000 | 0 | 0 | P187 | 4260 | 0 |
| V188 | 2000 | 0 | 0 | P188 | 4260 | 0 |
| V189 | 2000 | 0 | 0 | P189 | 4260 | 0 |
| V190 | 2000 | 0 | 0 | P190 | 4260 | 0 |
| V191 | 2000 | 0 | 0 | P191 | 4260 | 0 |
| V192 | 2000 | 0 | 0 | P192 | 4260 | 0 |
| V193 | 2000 | 0 | 0 | P193 | 4260 | 0 |
| V194 | 2000 | 0 | 0 | P194 | 4260 | 0 |
| V195 | 2000 | 0 | 0 | P195 | 4260 | 0 |
| V196 | 2000 | 0 | 0 | P196 | 4260 | 0 |
| V197 | 2000 | 0 | 0 | P197 | 4260 | 0 |
| V198 | 2000 | 0 | 0 | P198 | 4260 | 0 |
| V199 | 2000 | 0 | 0 | P199 | 4260 | 0 |
| V200 | 2000 | 0 | 0 | P200 | 4260 | 0 |
| V201 | 2000 | 0 | 0 | P201 | 4260 | 0 |
| V202 | 2000 | 0 | 0 | P202 | 4260 | 0 |
| V203 | 2000 | 0 | 0 | P203 | 4260 | 0 |
| V204 | 2000 | 0 | 0 | P204 | 4260 | 0 |
| V205 | 2000 | 0 | 0 | P205 | 4260 | 0 |
| V206 | 2000 | 0 | 0 | P206 | 4260 | 0 |
| V207 | 2000 | 0 | 0 | P207 | 4260 | 0 |
| V208 | 2000 | 0 | 0 | P208 | 4260 | 0 |
| V209 | 2000 | 0 | 0 | P209 | 4260 | 0 |
| V210 | 2000 | 0 | 0 | P210 | 4260 | 0 |
| V211 | 2000 | 0 | 0 | P211 | 4260 | 0 |
| V212 | 2000 | 0 | 0 | P212 | 4260 | 0 |
| V213 | 2000 | 0 | 0 | P213 | 4260 | 0 |
| V214 | 2000 | 0 | 0 | P214 | 4260 | 0 |
| V215 | 2000 | 0 | 0 | P215 | 4260 | 0 |
| V216 | 2000 | 0 | 0 | P216 | 4260 | 0 |
| V217 | 2000 | 0 | 0 | P217 | 4260 | 0 |
| V218 | 2000 | 0 | 0 | P218 | 4260 | 0 |
| V219 | 2000 | 0 | 0 | P219 | 4260 | 0 |
| V220 | 2000 | 0 | 0 | P220 | 4260 | 0 |
| V221 | 2000 | 0 | 0 | P221 | 4260 | 0 |
| V222 | 2000 | 0 | 0 | P222 | 4260 | 0 |
| V223 | 2000 | 0 | 0 | P223 | 4260 | 0 |
| V224 | 2000 | 0</ | | | | |



| Blocos de enchimento | | | | | | |
|----------------------|---------|------------|----------------|----|----|--------|
| Detalhe | Tipo | Nome | Dimensões (cm) | | | Quant. |
| | | | hb | ax | by | |
| 1 | Cubetas | 030/030/30 | 30 | 30 | 30 | 32 |
| | | 030/030/30 | 30 | 40 | 40 | 8 |
| | | 030/030/40 | 30 | 50 | 40 | |

| Área de lajes | | |
|---------------|-------------|---------------------|
| Tipo | Altura (cm) | Bloco de Enchimento |
| Nervurada | 35 | 030/030/30 |
| Maciça | 10 | - |





| Características dos materiais | |
|-------------------------------|--------|
| k_1 | k_2 |
| 300 | 200364 |

Dimensão máxima do agregado = 19 mm

Legenda das vigas e paredes

| | |
|---|--------------------|
|  | Viga |
|  | Parede de concreto |

Legenda das pilares

| | |
|---|-----------------|
|  | Pilar que morre |
|  | Pilar que passa |
|  | Pilar que nasce |
|  | Fundação |

| RELACÃO DO AÇO VIGAS/ PILARES | | |
|-------------------------------|---------------|----------------|
| AÇO | DIAM. (mm) | QUANT. (kg) |
| CA50 | 5.0 | 5180.6 |
| CA50 | 5.3 | 2210.8 |
| | 8.0 | 2156.3 |
| | 10.0 | 7682.0 |
| | 12.5 | 9166.2 |
| | 16.0 | 4075.7 |
| | 20.0 | 2.085.1 |
| | 25.0 | 736.2 |

| PESO TOTAL (kg) | |
|--------------------|---------|
| CA50 | 28114.2 |
| CA60 | 5180.6 |

Área de forma = 3545 m²
 Volume de Concreto (C-30) = 345.5 m³