

ANNEXOS

ANNEX I: TAULES DE LES PROVETES FABRICADES

| PLAQUES CUADRADES | | |
|-------------------|-------|--------------|
| LLIGAM | PALLA | NOMENCLATURA |
| CALÇ | 0% | C0_1 |
| | | C0_2 |
| | | C0_3 |
| | 1% | C1_1 |
| | | C1_2 |
| | | C1_3 |
| | 5% | C5_1 |
| | | C5_2 |
| | | C5_3 |
| | 10% | C10_1 |
| | | C10_2 |
| | | C10_3 |
| GUIX | 0% | G0_1 |
| | | G0_2 |
| | | G0_3 |
| | 1% | G1_1 |
| | | G1_2 |
| | | G1_3 |
| | 5% | G5_1 |
| | | G5_2 |
| | | G5_3 |
| | 10% | G10_1 |
| | | G10_2 |
| | | G10_3 |
| TERRA | 0% | T0_1 |
| | | T0_2 |
| | | T0_3 |
| | 1% | T1_1 |
| | | T1_2 |
| | | T1_3 |
| | 5% | T5_1 |
| | | T5_2 |
| | | T5_3 |
| | 10% | T10_1 |
| | | T10_2 |
| | | T10_3 |

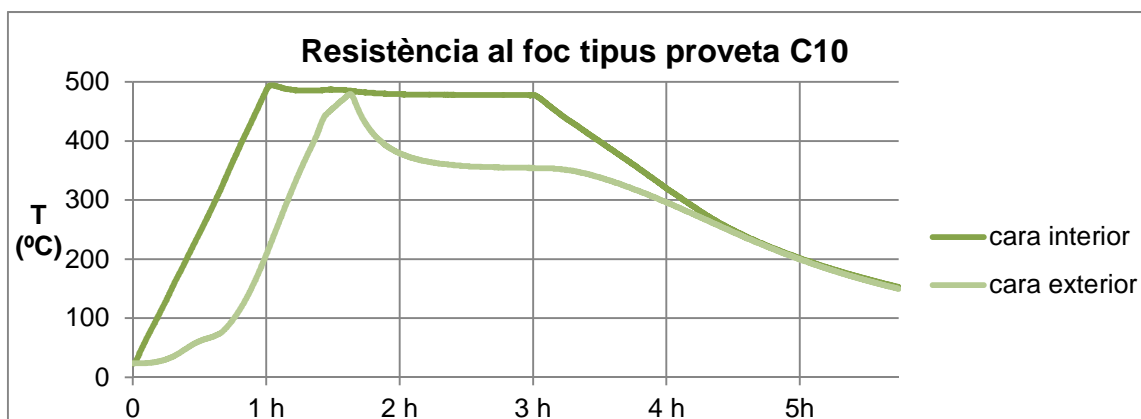
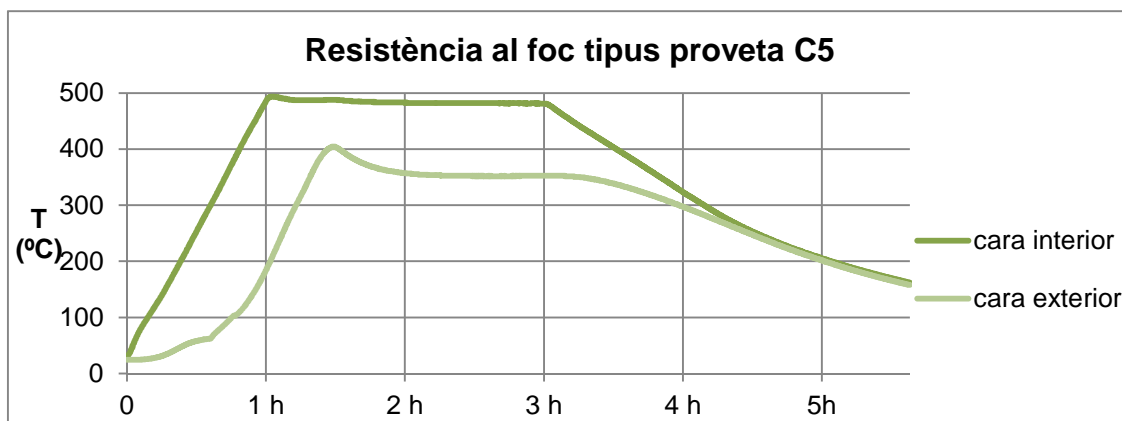
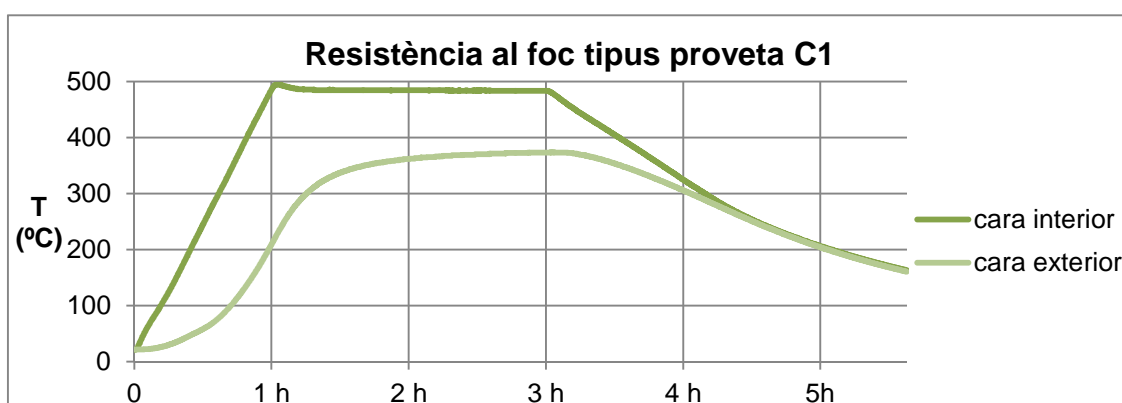
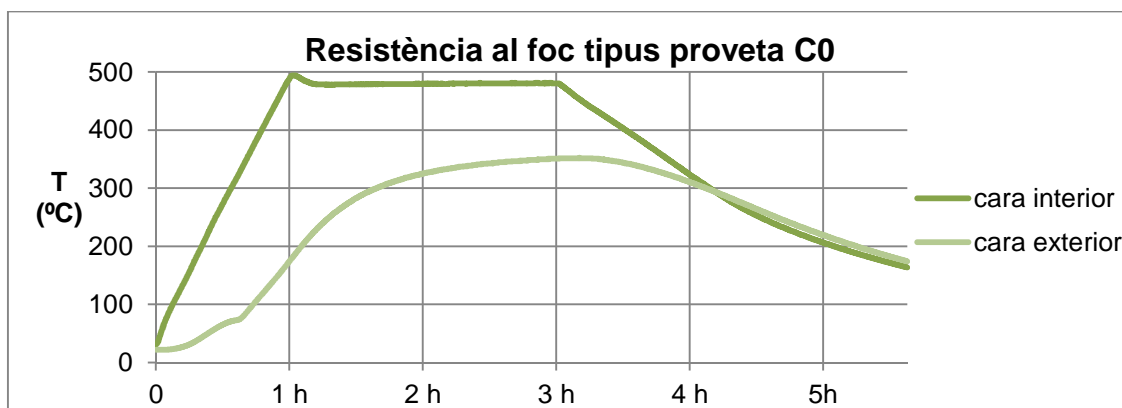
| PROVETES PRISMATQUES | | |
|----------------------|-------|--------------|
| LLIGAM | PALLA | NOMENCLATURA |
| CALÇ | 0% | FTC0_1 |
| | | FTC0_2 |
| | | FTC0_3 |
| | | FTC0_4 |
| | | FTC0_5 |
| | | FTC0_6 |
| | 1% | FTC1_1 |
| | | FTC1_2 |
| | | FTC1_3 |
| | | FTC1_4 |
| | | FTC1_5 |
| | | FTC1_6 |
| | 5% | FTC5_1 |
| | | FTC5_2 |
| | | FTC5_3 |
| | | FTC5_4 |
| | | FTC5_5 |
| | | FTC5_6 |
| | 10% | FTC10_1 |
| | | FTC10_2 |
| | | FTC10_3 |
| | | FTC10_4 |
| | | FTC10_5 |
| | | FTC10_6 |
| GUIX | 0% | FTG0_1 |
| | | FTG0_2 |
| | | FTG0_3 |
| | | FTG0_4 |
| | | FTG0_5 |
| | | FTG0_6 |
| | 1% | FTG1_1 |
| | | FTG1_2 |
| | | FTG1_3 |
| | | FTG1_4 |
| | | FTG1_5 |
| | | FTG1_6 |

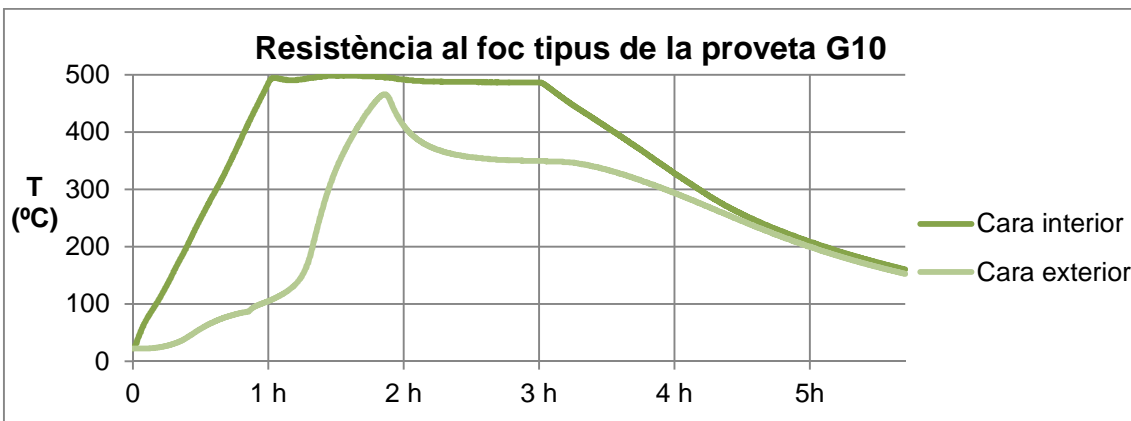
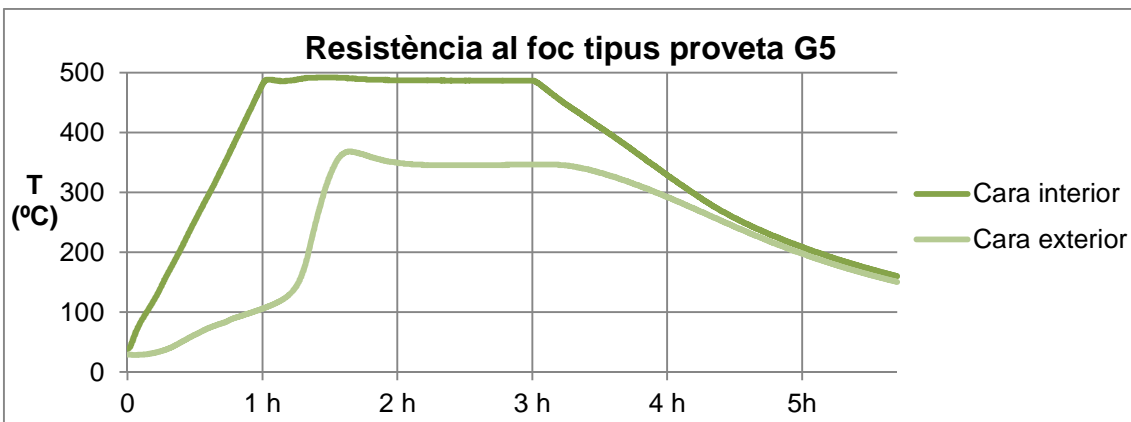
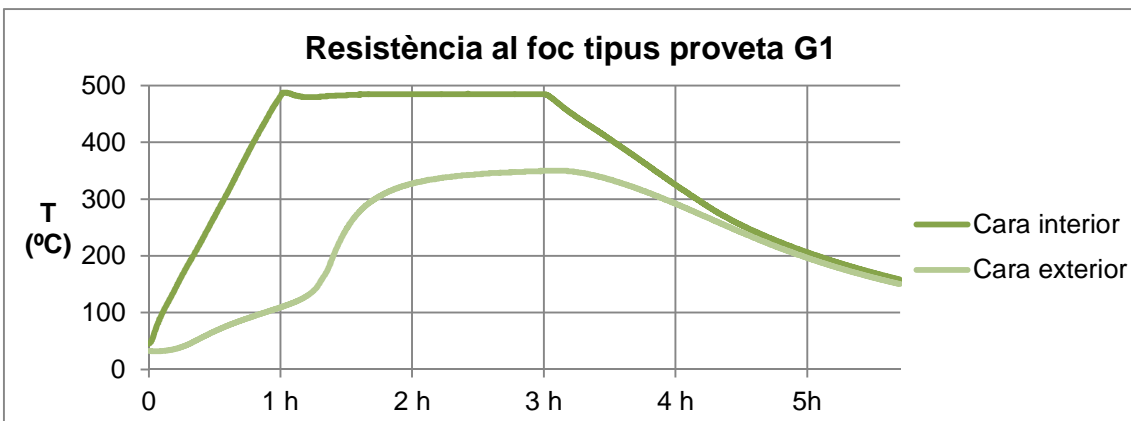
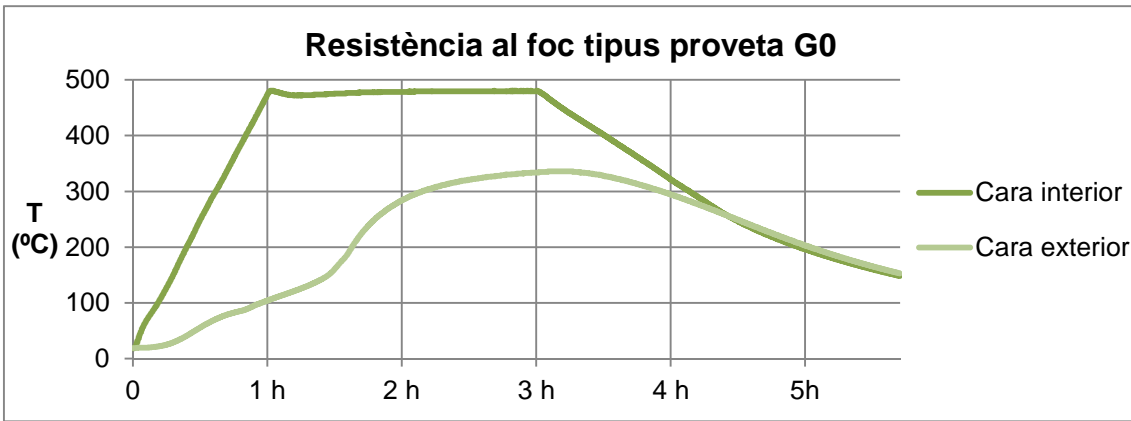
| PROVETES PRISMATQUES | | |
|----------------------|-------|--------------|
| LLIGAM | PALLA | NOMENCLATURA |
| GUIX | 5% | FTG5_1 |
| | | FTG5_2 |
| | | FTG5_3 |
| | | FTG5_4 |
| | | FTG5_5 |
| | | FTG5_6 |
| | 10% | FTG10_1 |
| | | FTG10_2 |
| | | FTG10_3 |
| | | FTG10_4 |
| | | FTG10_5 |
| | | FTG10_6 |
| TERRA | 0% | FTT0_1 |
| | | FTT0_2 |
| | | FTT0_3 |
| | | FTT0_4 |
| | | FTT0_5 |
| | | FTT0_6 |
| | 1% | FTT1_1 |
| | | FTT1_2 |
| | | FTT1_3 |
| | | FTT1_4 |
| | | FTT1_5 |
| | | FTT1_6 |
| | 5% | FTT5_1 |
| | | FTT5_2 |
| | | FTT5_3 |
| | | FTT5_4 |
| | | FTT5_5 |
| | | FTT5_6 |
| | 10% | FTT10_1 |
| | | FTT10_2 |
| | | FTT10_3 |
| | | FTT10_4 |
| | | FTT10_5 |
| | | FTT10_6 |

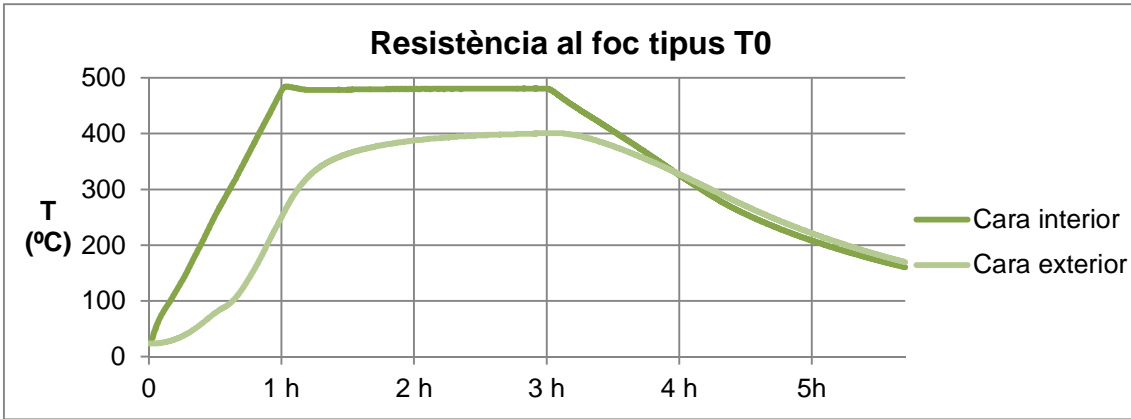
ANNEX II: TAULA RESULTATS DEL CONDUCTIVIMETRE

| | λ (w/m·k) | Cr (J/m ³ ·k) x10 ⁶ | a (m ² ·s) x 10 ⁻⁶ |
|-------|------------------------|---|--|
| C0_1 | 0,192 | 1,13 | 0,17 |
| C0_2 | 0,188 | 0,496 | 0,379 |
| C0_3 | 0,203 | 1,26 | 0,161 |
| C1_1 | no es va poder assajar | | |
| C1_2 | 0,22 | 0,6 | 0,367 |
| C1_3 | 0,222 | 0,676 | 0,328 |
| C5_1 | 0,182 | 0,572 | 0,319 |
| C5_2 | 0,182 | 1,08 | 0,169 |
| C5_3 | 0,172 | 0,593 | 0,291 |
| C10_1 | 0,146 | 0,436 | 0,334 |
| C10_2 | 0,144 | 0,479 | 0,3 |
| C10_3 | 0,152 | 0,492 | 0,308 |
| G0_1 | 0,444 | 0,635 | 0,699 |
| G0_2 | 0,423 | 1,53 | 0,277 |
| G0_3 | 0,427 | 1,55 | 0,276 |
| G1_1 | 0,33 | 0,494 | 0,667 |
| G1_2 | 0,344 | 0,678 | 0,507 |
| G1_3 | 0,313 | 0,644 | 0,486 |
| G5_1 | 0,269 | 1,22 | 0,222 |
| G5_2 | 0,284 | 0,507 | 0,56 |
| G5_3 | 0,26 | 0,514 | 0,506 |
| G10_1 | 0,229 | 1,11 | 0,206 |
| G10_2 | 0,22 | 0,611 | 0,36 |
| G10_3 | 0,241 | 1,28 | 0,18 |
| T0_1 | 1,25 | 1,47 | 0,85 |
| T0_2 | 1,12 | 0,714 | 1,57 |
| T0_3 | 1,03 | 0,548 | 1,89 |
| T1_1 | 0,649 | 1,37 | 0,474 |
| T1_2 | 0,81 | 0,631 | 1,28 |
| T1_3 | 0,729 | 0,939 | 0,776 |
| T5_1 | 0,338 | 0,24 | 1,41 |
| T5_2 | 0,434 | 0,426 | 1,02 |
| T5_3 | 0,345 | 0,255 | 1,35 |
| T10_1 | 0,144 | 0,397 | 0,363 |
| T10_2 | 0,141 | 0,21 | 0,673 |
| T10_3 | 0,145 | 0,277 | 0,522 |

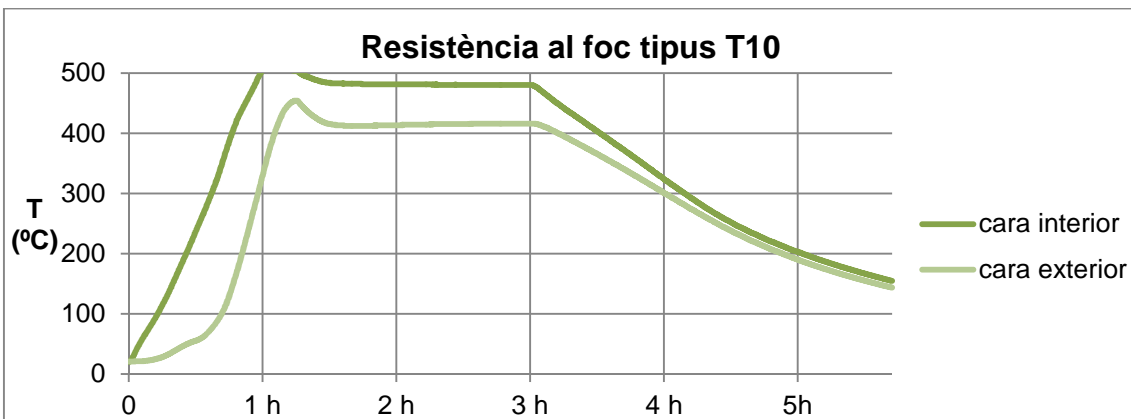
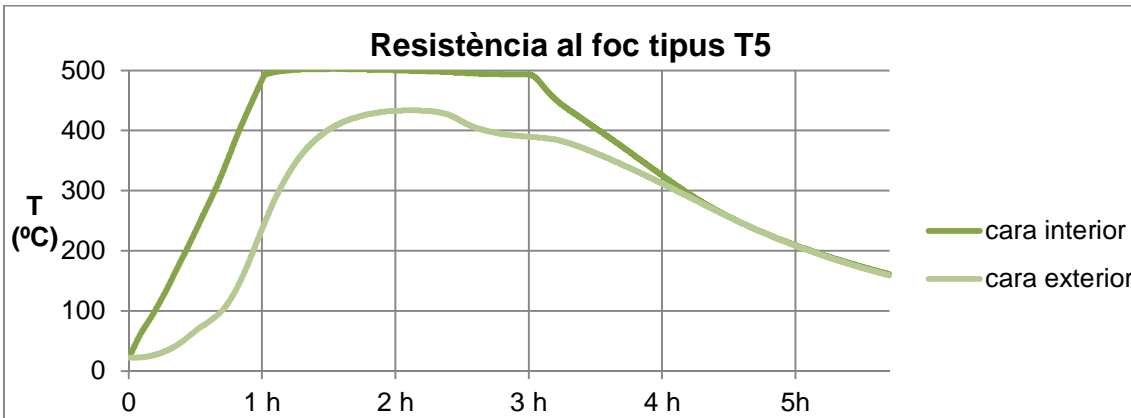
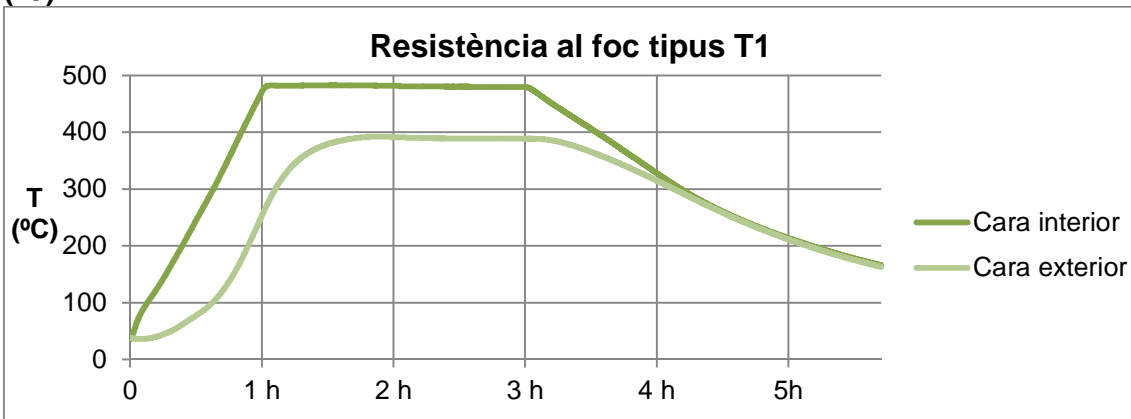
ANNEX III: GRÀFIQUES RESISTÈNCIA AL FOC







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(°C)



ANNEX IV: RESULTATS ASSAIG FLEXOTRACCIÓ

| R. FLEXOTRACCIÓ CALÇ | | | | | | |
|----------------------|---------|---------|----------|---------------|---------|----------|
| Temperatura ambient | | | | Carbonitzades | | |
| %PALLA | FORÇA | | Rfi | FORÇA | | Rfi |
| | PROVETA | MITJANA | | PROVETA | MITJANA | |
| 0% | 65,37 | 50,07 | 1,150045 | 15,83 | 22,94 | 0,526903 |
| | 45,59 | | | 21,93 | | |
| | 39,25 | | | 31,07 | | |
| 1% | 36,02 | 31,72 | 0,724894 | 7,44 | 10,83 | 0,248752 |
| | 34,12 | | | 12,99 | | |
| | 25,03 | | | 12,07 | | |
| 5% | 29,72 | 29,86 | 0,685847 | 8,26 | 9,62 | 0,220959 |
| | 28,21 | | | 10,05 | | |
| | 31,64 | | | 10,57 | | |
| 10% | 9,27 | 11,23 | 0,257939 | 8,76 | 9,16 | 0,210394 |
| | 14,28 | | | 9,03 | | |
| | 10,14 | | | 9,39 | | |

| R. FLEXOTRACCIÓ GUIX | | | | | | |
|----------------------|---------|---------|----------|---------------|---------|----------|
| Temperatura ambient | | | | Carbonitzades | | |
| %PALLA | FORÇA | | Rfi | FORÇA | | Rfi |
| | PROVETA | MITJANA | | PROVETA | MITJANA | |
| 0% | 96,33 | 138,69 | 3,185536 | 7,76 | 10,35 | 0,237727 |
| | 170,84 | | | 10,29 | | |
| | 148,92 | | | 13,05 | | |
| 1% | 85,4 | 81,83 | 1,879533 | 7,34 | 6,76 | 0,155269 |
| | 79,21 | | | 5,56 | | |
| | 80,99 | | | 7,39 | | |
| 5% | 70,81 | 71,93 | 1,652142 | 5,66 | 5,77 | 0,13253 |
| | 75,06 | | | 5,89 | | |
| | 69,94 | | | 5,75 | | |
| 10% | 63,35 | 63,14 | 1,450247 | 4,94 | 4,29 | 0,098536 |
| | 59,86 | | | 5,67 | | |
| | 66,23 | | | 2,31 | | |

| R. FLEXOTRACCIÓ TERRA | | | | | | |
|-----------------------|---------|---------|----------|---------------|---------|----------|
| Temperatura ambient | | | | Carbonitzades | | |
| %PALLA | FORÇA | | Rfi | FORÇA | | Rfi |
| | PROVETA | MITJANA | | PROVETA | MITJANA | |
| 0% | 63,89 | 48,15 | 1,105945 | 34,83 | 31,09 | 0,714098 |
| | 45,99 | | | 33,73 | | |
| | 34,59 | | | 24,72 | | |
| 1% | 36,25 | 37,71 | 0,866152 | 20,09 | 22,86 | 0,525066 |
| | 39,2 | | | 26,61 | | |
| | 37,68 | | | 21,9 | | |
| 5% | 21,57 | 18,74 | 0,425381 | 8,08 | 10,69 | 0,245536 |
| | 21,88 | | | 12,94 | | |
| | 12,77 | | | 11,05 | | |
| 10% | 4,62 | 4,56 | 0,104738 | | | |
| | 4,26 | | | | | |
| | 4,91 | | | | | |

ANNEX V: RESULTATS ASSAIG COMPRESIÓ

| R. COMPRESSIÓ CALÇ | | | | | | |
|---------------------|---------|---------|----------|---------------|---------|----------|
| Temperatura ambient | | | | Carbonitzades | | |
| %PALLA | FORÇA | | Rci | FORÇA | | Rci |
| | PROVETA | MITJANA | | PROVETA | MITJANA | |
| 0% | 1135 | 1044,66 | 6,3985 | 1138 | 1003,83 | 6,148459 |
| | 1140 | | | 690 | | |
| | 1124 | | | 1209 | | |
| | 844 | | | 1084 | | |
| | 968 | | | 844 | | |
| | 1057 | | | 1058 | | |
| 1% | 1393 | 817,66 | 5,008168 | 299 | 299,66 | 1,835418 |
| | 203 | | | 291 | | |
| | 906 | | | 377 | | |
| | 222 | | | 269 | | |
| | 801 | | | 312 | | |
| | 1381 | | | 290 | | |
| 5% | 200,18 | 223,19 | 1,367039 | 123 | 115,3 | 0,706213 |
| | 206,68 | | | 128 | | |
| | 201,27 | | | 91 | | |
| | 229,4 | | | 115 | | |
| | 269,91 | | | 121 | | |
| | 226,73 | | | 114 | | |
| 10% | 119,51 | 99,02 | 0,606498 | 72 | 85,5 | 0,523688 |
| | 91,19 | | | 85 | | |
| | 89,45 | | | 96 | | |
| | 88,45 | | | 82 | | |
| | 96,65 | | | 85 | | |
| | 108,92 | | | 93 | | |

| R. COMPRESSIÓ GUIX | | | | | | |
|---------------------|---------|---------|----------|---------------|---------|----------|
| Temperatura ambient | | | | Carbonitzades | | |
| %PALLA | FORÇA | | Rci | FORÇA | | Rci |
| | PROVETA | MITJANA | | PROVETA | MITJANA | |
| 0% | 1884 | 1644,16 | 10,07048 | 286,09 | 197,97 | 1,21256 |
| | 1943 | | | 188,64 | | |
| | 1745 | | | 168,91 | | |
| | 1157 | | | 165,84 | | |
| | 1956 | | | 185,37 | | |
| | 1180 | | | 171,22 | | |
| 1% | 945 | 961,5 | 5,889188 | 157,23 | 171,54 | 1,050683 |
| | 943 | | | 157,63 | | |
| | 906 | | | 185,67 | | |
| | 1025 | | | 171,08 | | |
| | 961 | | | 187,13 | | |
| | 989 | | | 170,5 | | |
| 5% | 581 | 559,5 | 3,426938 | 75,42 | 72,85 | 0,445349 |
| | 384 | | | 71,71 | | |
| | 674 | | | 72,24 | | |
| | 663 | | | 68,05 | | |
| | 532 | | | 78,62 | | |
| | 523 | | | 71,11 | | |
| 10% | 459 | 456,16 | 2,79398 | 31,48 | 34,54 | 0,191345 |
| | 443 | | | 37,9 | | |
| | 386 | | | 31,48 | | |
| | 475 | | | 23,36 | | |
| | 507 | | | 24,69 | | |
| | 467 | | | 38,37 | | |

| R. COMPRESSIÓ TERRA | | | | | | |
|---------------------|---------|---------|----------|---------------|---------|----------|
| Temperatura ambient | | | | Carbonitzades | | |
| %PALLA | FORÇA | | Rci | FORÇA | | Rci |
| | PROVETA | MITJANA | | PROVETA | MITJANA | |
| 0% | 914,03 | 873,56 | 5,3557 | 767 | 722 | 4,42225 |
| | 813,58 | | | 717 | | |
| | 886,8 | | | 700 | | |
| | 827,25 | | | 714 | | |
| | 904,65 | | | 723 | | |
| | 895,09 | | | 711 | | |
| 1% | 558 | 517,33 | 3,168646 | 221 | 313,16 | 1,916696 |
| | 467 | | | 342,72 | | |
| | 568 | | | 344,74 | | |
| | 516 | | | 338,87 | | |
| | 518 | | | 388,22 | | |
| | 477 | | | 242,64 | | |
| 5% | 217 | 202 | 1,23725 | 31,84 | 65,01 | 0,398186 |
| | 240 | | | 56,81 | | |
| | 185 | | | 82,5 | | |
| | 211 | | | 51,48 | | |
| | 190 | | | 70,56 | | |
| | 169 | | | 41,48 | | |
| 10% | 25 | 39,4 | 0,241325 | | | |
| | 48 | | | | | |
| | 37 | | | | | |
| | 46 | | | | | |
| | 41 | | | | | |
| | | | | | | |

