

Lampiran 17. Data hasil analisa modulus elastisitas beton dengan variasi benda uji
 SCC-2 pada no.2 dari umur pengujian 14 hari

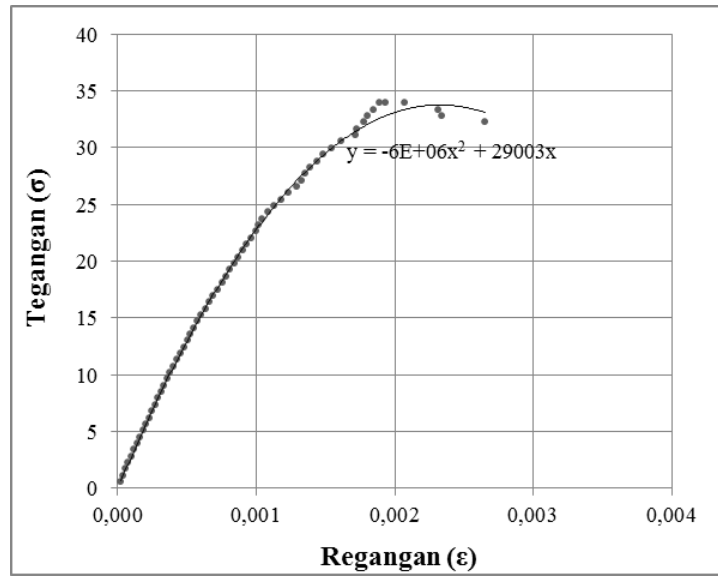
Tabel L.17. Analisa hasil modulus elastisitas beton dengan variasi benda uji
 SCC-2 pada no.2 dari umur pengujian 14 hari (1 dari 2)

| No. | Beban | | Pembacaan <i>dial</i> (mm), (10 ⁻³) | ΔL (mm) | Luas (A) (mm) | Tegangan $\sigma=P/A$ (MPa) | Lo (mm) | Regangan (ϵ) |
|-----|-------|--------|-------------------------------------------------------|--------------------|------------------|-----------------------------------|------------|----------------------------|
| | kN | N | | | | | | |
| 1 | 10 | 10000 | 10 | 0,005 | 17702,151 | 0,565 | 200 | 0,00003 |
| 2 | 20 | 20000 | 17 | 0,009 | 17702,151 | 1,130 | 200 | 0,00004 |
| 3 | 30 | 30000 | 23 | 0,012 | 17702,151 | 1,695 | 200 | 0,00006 |
| 4 | 40 | 40000 | 31 | 0,016 | 17702,151 | 2,260 | 200 | 0,00008 |
| 5 | 50 | 50000 | 39 | 0,020 | 17702,151 | 2,825 | 200 | 0,00010 |
| 6 | 60 | 60000 | 47 | 0,024 | 17702,151 | 3,389 | 200 | 0,00012 |
| 7 | 70 | 70000 | 56 | 0,028 | 17702,151 | 3,954 | 200 | 0,00014 |
| 8 | 80 | 80000 | 65 | 0,033 | 17702,151 | 4,519 | 200 | 0,00016 |
| 9 | 90 | 90000 | 74 | 0,037 | 17702,151 | 5,084 | 200 | 0,00019 |
| 10 | 100 | 100000 | 83 | 0,042 | 17702,151 | 5,649 | 200 | 0,00021 |
| 11 | 110 | 110000 | 91 | 0,046 | 17702,151 | 6,214 | 200 | 0,00023 |
| 12 | 120 | 120000 | 100 | 0,050 | 17702,151 | 6,779 | 200 | 0,00025 |
| 13 | 130 | 130000 | 109 | 0,055 | 17702,151 | 7,344 | 200 | 0,00027 |
| 14 | 140 | 140000 | 117 | 0,059 | 17702,151 | 7,909 | 200 | 0,00029 |
| 15 | 150 | 150000 | 126 | 0,063 | 17702,151 | 8,474 | 200 | 0,00032 |
| 16 | 160 | 160000 | 135 | 0,068 | 17702,151 | 9,038 | 200 | 0,00034 |
| 17 | 170 | 170000 | 144 | 0,072 | 17702,151 | 9,603 | 200 | 0,00036 |
| 18 | 180 | 180000 | 152 | 0,076 | 17702,151 | 10,168 | 200 | 0,00038 |
| 19 | 190 | 190000 | 161 | 0,081 | 17702,151 | 10,733 | 200 | 0,00040 |
| 20 | 200 | 200000 | 171 | 0,086 | 17702,151 | 11,298 | 200 | 0,00043 |
| 21 | 210 | 210000 | 181 | 0,091 | 17702,151 | 11,863 | 200 | 0,00045 |
| 22 | 220 | 220000 | 191 | 0,096 | 17702,151 | 12,428 | 200 | 0,00048 |
| 23 | 230 | 230000 | 201 | 0,101 | 17702,151 | 12,993 | 200 | 0,00050 |
| 24 | 240 | 240000 | 211 | 0,106 | 17702,151 | 13,558 | 200 | 0,00053 |
| 25 | 250 | 250000 | 221 | 0,111 | 17702,151 | 14,123 | 200 | 0,00055 |
| 26 | 260 | 260000 | 232 | 0,116 | 17702,151 | 14,687 | 200 | 0,00058 |
| 27 | 270 | 270000 | 242 | 0,121 | 17702,151 | 15,252 | 200 | 0,00061 |
| 28 | 280 | 280000 | 254 | 0,127 | 17702,151 | 15,817 | 200 | 0,00064 |
| 29 | 290 | 290000 | 266 | 0,133 | 17702,151 | 16,382 | 200 | 0,00067 |
| 30 | 300 | 300000 | 277 | 0,139 | 17702,151 | 16,947 | 200 | 0,00069 |
| 31 | 310 | 310000 | 289 | 0,145 | 17702,151 | 17,512 | 200 | 0,00072 |
| 32 | 320 | 320000 | 302 | 0,151 | 17702,151 | 18,077 | 200 | 0,00076 |
| 33 | 330 | 330000 | 313 | 0,157 | 17702,151 | 18,642 | 200 | 0,00078 |
| 34 | 340 | 340000 | 324 | 0,162 | 17702,151 | 19,207 | 200 | 0,00081 |
| 35 | 350 | 350000 | 336 | 0,168 | 17702,151 | 19,772 | 200 | 0,00084 |
| 36 | 360 | 360000 | 348 | 0,174 | 17702,151 | 20,337 | 200 | 0,00087 |
| 37 | 370 | 370000 | 361 | 0,181 | 17702,151 | 20,901 | 200 | 0,00090 |
| 38 | 380 | 380000 | 373 | 0,187 | 17702,151 | 21,466 | 200 | 0,00093 |

Lanjutan Tabel L.17. Analisa hasil modulus elastisitas beton dengan variasi benda uji SCC-2 pada no.2 dari umur pengujian 14 hari (2 dari 2)

| No. | Beban | | Pembacaan dial (mm), (10 ⁻³) | ΔL (mm) | Luas (A) (mm) | Tegangan $\sigma=P/A$ (MPa) | Lo (mm) | Regangan (ε) |
|-----|-------|--------|---------------------------------------------|---------|---------------|-----------------------------|---------|--------------|
| | kN | N | | | | | | |
| 39 | 390 | 390000 | 387 | 0,194 | 17702,151 | 22,031 | 200 | 0,00097 |
| 40 | 400 | 400000 | 400 | 0,200 | 17702,151 | 22,596 | 200 | 0,00100 |
| 41 | 410 | 410000 | 406 | 0,203 | 17702,151 | 23,161 | 200 | 0,00102 |
| 42 | 420 | 420000 | 418 | 0,209 | 17702,151 | 23,726 | 200 | 0,00105 |
| 43 | 430 | 430000 | 436 | 0,218 | 17702,151 | 24,291 | 200 | 0,00109 |
| 44 | 440 | 440000 | 453 | 0,227 | 17702,151 | 24,856 | 200 | 0,00113 |
| 45 | 450 | 450000 | 473 | 0,237 | 17702,151 | 25,421 | 200 | 0,00118 |
| 46 | 460 | 460000 | 495 | 0,248 | 17702,151 | 25,986 | 200 | 0,00124 |
| 47 | 470 | 470000 | 517 | 0,259 | 17702,151 | 26,550 | 200 | 0,00129 |
| 48 | 480 | 480000 | 530 | 0,265 | 17702,151 | 27,115 | 200 | 0,00133 |
| 49 | 490 | 490000 | 542 | 0,271 | 17702,151 | 27,680 | 200 | 0,00136 |
| 50 | 500 | 500000 | 557 | 0,279 | 17702,151 | 28,245 | 200 | 0,00139 |
| 51 | 510 | 510000 | 575 | 0,288 | 17702,151 | 28,810 | 200 | 0,00144 |
| 52 | 520 | 520000 | 595 | 0,298 | 17702,151 | 29,375 | 200 | 0,00149 |
| 53 | 530 | 530000 | 617 | 0,309 | 17702,151 | 29,940 | 200 | 0,00154 |
| 54 | 540 | 540000 | 645 | 0,323 | 17702,151 | 30,505 | 200 | 0,00161 |
| 55 | 550 | 550000 | 688 | 0,344 | 17702,151 | 31,070 | 200 | 0,00172 |
| 56 | 560 | 560000 | 692 | 0,346 | 17702,151 | 31,635 | 200 | 0,00173 |
| 57 | 570 | 570000 | 712 | 0,356 | 17702,151 | 32,199 | 200 | 0,00178 |
| 58 | 580 | 580000 | 723 | 0,362 | 17702,151 | 32,764 | 200 | 0,00181 |
| 59 | 590 | 590000 | 738 | 0,369 | 17702,151 | 33,329 | 200 | 0,00185 |
| 60 | 600 | 600000 | 756 | 0,378 | 17702,151 | 33,894 | 200 | 0,00189 |
| 61 | 601,3 | 601300 | 775 | 0,388 | 17702,151 | 33,968 | 200 | 0,00194 |
| 62 | 600 | 600000 | 828 | 0,414 | 17702,151 | 33,894 | 200 | 0,00207 |
| 63 | 590 | 590000 | 925 | 0,463 | 17702,151 | 33,329 | 200 | 0,00231 |
| 64 | 580 | 580000 | 937 | 0,469 | 17702,151 | 32,764 | 200 | 0,00234 |
| 65 | 570 | 570000 | 1060 | 0,530 | 17702,151 | 32,199 | 200 | 0,00265 |

Hasil analisa pada Tabel L.17 tersebut, dapat digambarkan grafik hubungan tegangan regangan yang disajikan pada Gambar L.17.



Gambar L.17. Hubungan tegangan regangan dari beton dengan variasi benda uji SCC-2 pada no.2 dari umur pengujian 14 hari