

PROVA PENETROMETRICA STATICA
LETTURE DI CAMPAGNA / VALORI DI RESISTENZA

CPT 1
 2.010496-116

- committente :
 - lavoro : intervento edilizio
 - località : Via di Pisignano - San Casciano V/P
 - note :
 - data : 03/09/2009.
 - quota inizio : Piano Campagna
 - prof. falda : Falda non rilevata
 - pagina : 1

| prf | LP | LL | Rp | RL | Rp/RI | prf | LP | LL | Rp | RL | Rp/RI |
|------|--------------------|--------------------|--------------------|--------------------|-------|------|--------------------|--------------------|--------------------|--------------------|-------|
| m | Kg/cm ² | Kg/cm ² | Kg/cm ² | Kg/cm ² | - | m | Kg/cm ² | Kg/cm ² | Kg/cm ² | Kg/cm ² | - |
| 0,20 | 22,0 | 24,0 | 44,0 | 0,67 | 66,0 | 3,80 | 19,0 | 34,0 | 38,0 | 1,87 | 20,0 |
| 0,40 | 25,0 | 30,0 | 50,0 | 2,13 | 23,0 | 4,00 | 14,0 | 28,0 | 28,0 | 2,87 | 10,0 |
| 0,60 | 17,0 | 33,0 | 34,0 | 1,20 | 28,0 | 4,20 | 16,5 | 38,0 | 33,0 | 2,00 | 16,0 |
| 0,80 | 30,0 | 39,0 | 60,0 | 1,07 | 56,0 | 4,40 | 19,0 | 34,0 | 38,0 | 2,53 | 15,0 |
| 1,00 | 27,0 | 35,0 | 54,0 | 2,13 | 25,0 | 4,60 | 18,0 | 37,0 | 36,0 | 2,47 | 15,0 |
| 1,20 | 24,0 | 40,0 | 48,0 | 2,53 | 19,0 | 4,80 | 16,5 | 35,0 | 33,0 | 2,80 | 12,0 |
| 1,40 | 28,0 | 47,0 | 56,0 | 2,93 | 19,0 | 5,00 | 24,0 | 45,0 | 48,0 | 2,80 | 17,0 |
| 1,60 | 31,0 | 53,0 | 62,0 | 4,13 | 15,0 | 5,20 | 32,0 | 53,0 | 64,0 | 2,93 | 22,0 |
| 1,80 | 29,0 | 60,0 | 58,0 | 4,00 | 14,0 | 5,40 | 33,0 | 55,0 | 66,0 | 4,27 | 15,0 |
| 2,00 | 40,0 | 70,0 | 80,0 | 4,40 | 18,0 | 5,60 | 40,0 | 72,0 | 80,0 | 4,53 | 18,0 |
| 2,20 | 39,0 | 72,0 | 78,0 | 5,73 | 14,0 | 5,80 | 44,0 | 78,0 | 88,0 | 4,53 | 19,0 |
| 2,40 | 33,0 | 76,0 | 66,0 | 6,93 | 10,0 | 6,00 | 40,0 | 74,0 | 80,0 | 4,53 | 18,0 |
| 2,60 | 24,0 | 76,0 | 48,0 | 3,60 | 13,0 | 6,20 | 38,0 | 72,0 | 76,0 | 4,27 | 18,0 |
| 2,80 | 21,0 | 48,0 | 42,0 | 3,07 | 14,0 | 6,40 | 48,0 | 80,0 | 96,0 | 4,00 | 24,0 |
| 3,00 | 22,0 | 45,0 | 44,0 | 3,47 | 13,0 | 6,60 | 48,0 | 78,0 | 96,0 | 3,73 | 26,0 |
| 3,20 | 18,0 | 44,0 | 36,0 | 3,07 | 12,0 | 6,80 | 52,0 | 80,0 | 104,0 | 3,60 | 29,0 |
| 3,40 | 15,0 | 38,0 | 30,0 | 2,53 | 12,0 | 7,00 | 56,0 | 83,0 | 112,0 | ---- | ---- |
| 3,60 | 11,0 | 30,0 | 22,0 | 2,00 | 11,0 | | | | | | |

- PENETROMETRO STATICO tipo SP50-2C DA 50 KN da 5 t - (con anello allargatore) -
 - COSTANTE DI TRASFORMAZIONE Ct = 20 - Velocità Avanzamento punta 2 cm/s
 - punta meccanica tipo Begemann $\phi = 35,7$ mm (area punta 10 cm² - apertura 60°)
 - manicotto laterale (superficie 150 cm²)
 Software by: Dr.D.Merlin - 0425/840820

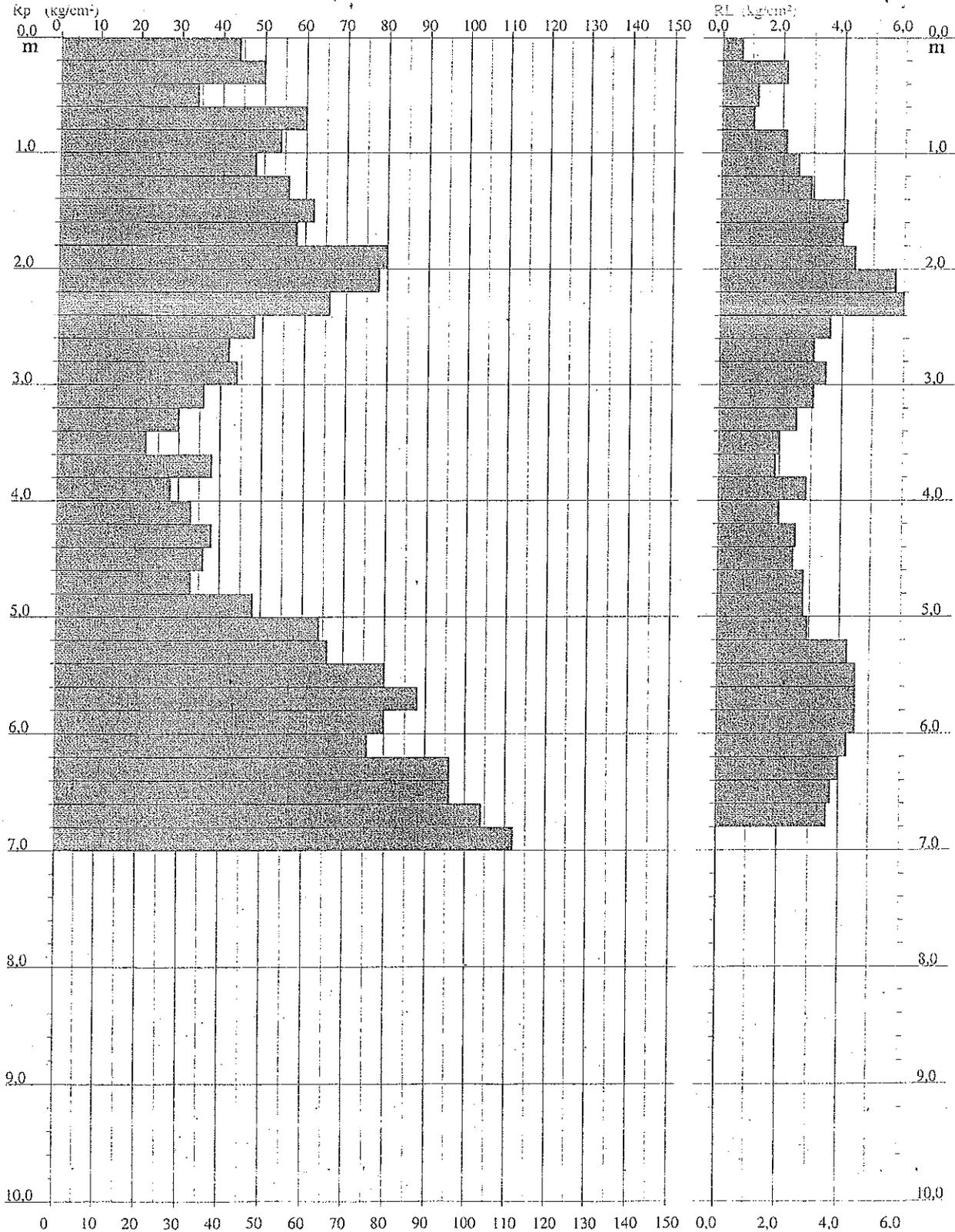
PROVA PENETROMETRICA STATICA DIAGRAMMA DI RESISTENZA

CPT 1

2.010496-116

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- data : 03/09/2009
- quota inizio : Piano Campagna
- prof. falda : Falda non rilevata
- scala vert. : 1 : 50



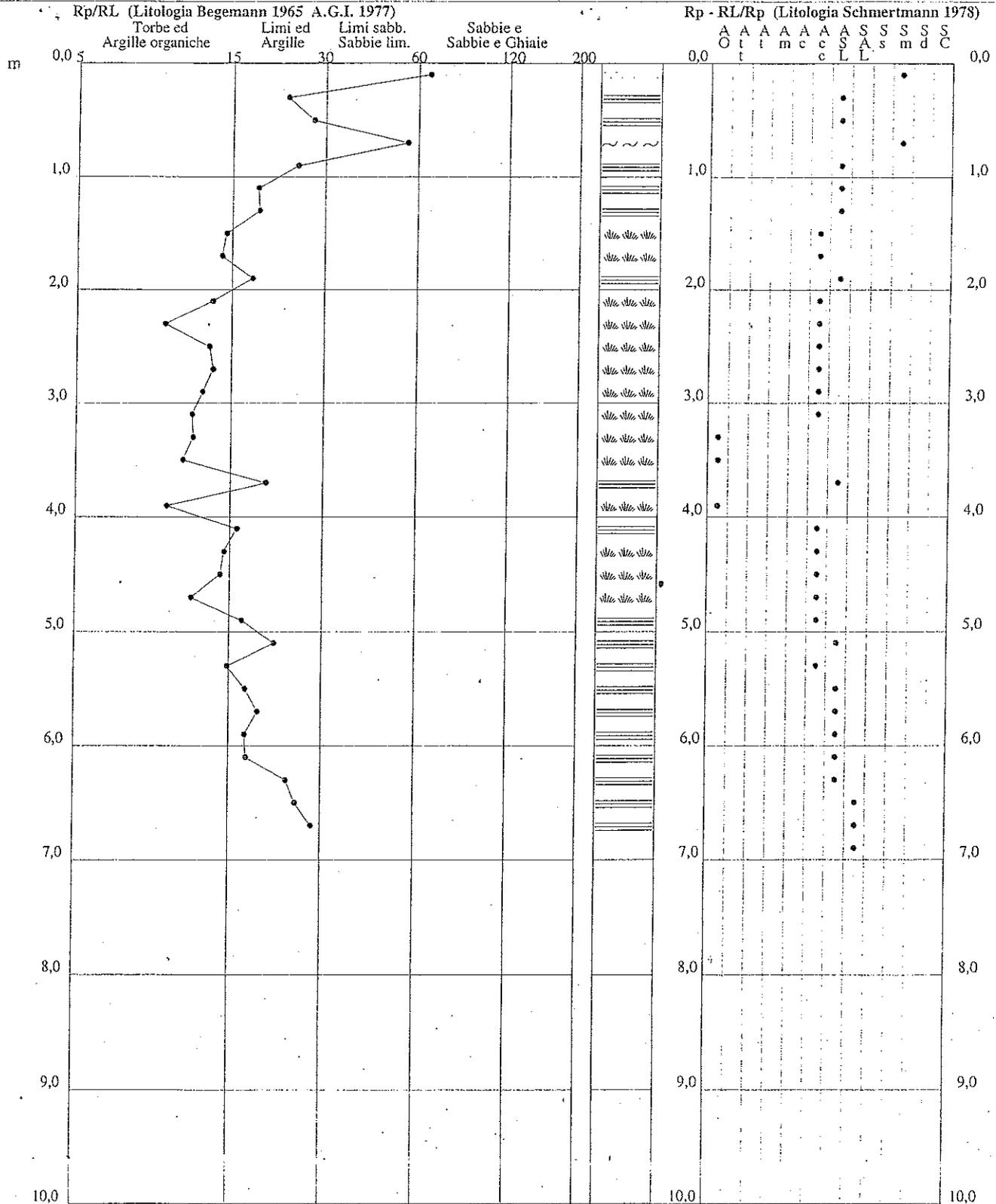
**PROVA PENETROMETRICA STATICA
 VALUTAZIONI LITOLOGICHE**

CPT 1

2.010496-116

- committente :
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 - località : Via di Pisignano - San Casciano V/P
 - note :

- data : 03/09/2009
 - quota inizio : Piano Campagna
 - prof. falda : Falda non rilevata
 - scala vert.: 1 : 50



PROVA PENETROMETRICA STATICA
TABELLA PARAMETRI GEOTECNICI

CPT 1

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| Prof. m | Rp kg/cm² | Rp/RI (-) | Natura Litol. | Y' t/m³ | p'v0 kg/cm² | Cu kg/cm² | OCR (-) | NATURA COESIVA | | | | NATURA GRANULARE | | | | Amax/g (-) | E50 kg/cm² | E25 kg/cm² | Mo kg/cm² | | |
|---------|-----------|-----------|---------------|---------|-------------|-----------|---------|----------------|-------------|-----------|------|------------------|---------|---------|---------|------------|------------|------------|-----------|---------|---------|
| | | | | | | | | Es50 kg/cm² | Es25 kg/cm² | Mo kg/cm² | Dr % | σ1s (°) | σ2s (°) | σ3s (°) | σ4s (°) | | | | | σdm (°) | σum (°) |
| 0.20 | 44 | 66 | 3:~:~ | 1,85 | 0,04 | -- | -- | -- | -- | 100 | 42 | 43 | 45 | 46 | 45 | 31 | 0,258 | 73 | 110 | 132 | |
| 0.40 | 50 | 23 | 4/f:f | 1,85 | 0,07 | 1,67 | 99,9 | 283 | 425 | 150 | 100 | 42 | 43 | 45 | 46 | 45 | 31 | 0,258 | 83 | 125 | 150 |
| 0.60 | 34 | 28 | 4/f:f | 1,85 | 0,11 | 1,13 | 99,9 | 193 | 289 | 102 | 89 | 40 | 42 | 43 | 45 | 42 | 29 | 0,218 | 57 | 85 | 102 |
| 0.80 | 60 | 56 | 3:~:~ | 1,33 | 0,15 | -- | -- | -- | -- | -- | 100 | 42 | 43 | 45 | 46 | 43 | 32 | 0,258 | 100 | 150 | 180 |
| 1.00 | 54 | 25 | 4/f:f | 1,85 | 0,19 | 1,80 | 99,9 | 306 | 459 | 162 | 92 | 41 | 42 | 44 | 45 | 40 | 31 | 0,230 | 90 | 135 | 162 |
| 1.20 | 48 | 19 | 4/f:f | 1,85 | 0,22 | 1,60 | 74,1 | 272 | 408 | 144 | 83 | 40 | 41 | 43 | 45 | 40 | 31 | 0,201 | 80 | 120 | 144 |
| 1.40 | 56 | 19 | 4/f:f | 1,85 | 0,26 | 1,87 | 74,1 | 317 | 476 | 168 | 85 | 40 | 41 | 43 | 45 | 40 | 31 | 0,206 | 93 | 140 | 168 |
| 1.60 | 62 | 15 | 4/f:f | 1,85 | 0,30 | 2,07 | 71,3 | 351 | 527 | 186 | 85 | 40 | 41 | 43 | 45 | 40 | 32 | 0,207 | 103 | 155 | 186 |
| 1.80 | 58 | 14 | 4/f:f | 1,85 | 0,33 | 1,93 | 56,6 | 329 | 493 | 174 | 80 | 39 | 41 | 43 | 44 | 40 | 31 | 0,190 | 97 | 145 | 174 |
| 2.00 | 80 | 18 | 4/f:f | 1,85 | 0,37 | 2,67 | 74,1 | 453 | 680 | 240 | 89 | 40 | 42 | 43 | 45 | 40 | 33 | 0,218 | 133 | 200 | 240 |
| 2.20 | 78 | 14 | 4/f:f | 1,85 | 0,41 | 2,60 | 63,8 | 442 | 663 | 234 | 85 | 40 | 41 | 43 | 45 | 40 | 33 | 0,208 | 130 | 195 | 234 |
| 2.40 | 66 | 10 | 4/f:f | 1,85 | 0,44 | 2,20 | 46,4 | 374 | 561 | 198 | 78 | 39 | 41 | 42 | 44 | 39 | 32 | 0,182 | 110 | 165 | 198 |
| 2.60 | 48 | 13 | 4/f:f | 1,85 | 0,48 | 1,60 | 28,2 | 272 | 408 | 144 | 65 | 37 | 39 | 41 | 43 | 37 | 31 | 0,143 | 80 | 120 | 144 |
| 2.80 | 42 | 14 | 4/f:f | 1,85 | 0,52 | 1,40 | 21,8 | 238 | 357 | 126 | 58 | 36 | 38 | 40 | 43 | 36 | 30 | 0,126 | 70 | 105 | 126 |
| 3.00 | 44 | 13 | 4/f:f | 1,85 | 0,55 | 1,47 | 21,2 | 249 | 374 | 132 | 58 | 36 | 38 | 40 | 43 | 36 | 30 | 0,125 | 73 | 110 | 132 |
| 3.20 | 36 | 12 | 4/f:f | 1,85 | 0,59 | 1,20 | 15,2 | 204 | 306 | 108 | 50 | 35 | 37 | 40 | 42 | 34 | 30 | 0,103 | 60 | 90 | 108 |
| 3.40 | 30 | 12 | 4/f:f | 1,85 | 0,63 | 1,00 | 11,2 | 170 | 255 | 90 | 42 | 34 | 36 | 39 | 41 | 33 | 29 | 0,084 | 50 | 75 | 90 |
| 3.60 | 22 | 11 | 4/f:f | 1,85 | 0,67 | 0,85 | 8,5 | 158 | 237 | 66 | 30 | 32 | 35 | 38 | 40 | 31 | 28 | 0,058 | 37 | 55 | 66 |
| 3.80 | 38 | 20 | 4/f:f | 1,85 | 0,70 | 1,27 | 13,1 | 215 | 323 | 114 | 47 | 35 | 37 | 39 | 42 | 34 | 30 | 0,097 | 63 | 95 | 114 |
| 4.00 | 28 | 10 | 4/f:f | 1,85 | 0,74 | 0,97 | 8,8 | 175 | 263 | 84 | 36 | 33 | 36 | 38 | 41 | 32 | 28 | 0,070 | 47 | 70 | 84 |
| 4.20 | 33 | 16 | 4/f:f | 1,85 | 0,78 | 1,10 | 9,7 | 188 | 282 | 99 | 40 | 34 | 36 | 39 | 41 | 32 | 29 | 0,080 | 55 | 83 | 99 |
| 4.40 | 38 | 15 | 4/f:f | 1,85 | 0,81 | 1,27 | 10,9 | 215 | 323 | 114 | 44 | 34 | 37 | 39 | 42 | 33 | 30 | 0,089 | 63 | 95 | 114 |
| 4.60 | 36 | 15 | 4/f:f | 1,85 | 0,85 | 1,20 | 9,6 | 206 | 308 | 108 | 41 | 34 | 36 | 39 | 41 | 31 | 29 | 0,072 | 55 | 83 | 99 |
| 4.80 | 33 | 12 | 4/f:f | 1,85 | 0,89 | 1,10 | 8,2 | 212 | 318 | 99 | 37 | 33 | 36 | 38 | 41 | 32 | 30 | 0,082 | 60 | 90 | 108 |
| 5.00 | 48 | 17 | 4/f:f | 1,85 | 0,93 | 1,60 | 12,5 | 272 | 408 | 144 | 49 | 35 | 37 | 39 | 42 | 33 | 31 | 0,101 | 80 | 120 | 144 |
| 5.20 | 64 | 22 | 4/f:f | 1,85 | 0,96 | 2,13 | 17,0 | 363 | 544 | 192 | 58 | 36 | 38 | 40 | 43 | 35 | 32 | 0,124 | 107 | 160 | 192 |
| 5.40 | 66 | 15 | 4/f:f | 1,85 | 1,00 | 2,20 | 16,8 | 374 | 561 | 198 | 58 | 36 | 38 | 40 | 43 | 35 | 32 | 0,124 | 110 | 165 | 198 |
| 5.60 | 80 | 18 | 4/f:f | 1,85 | 1,04 | 2,67 | 20,5 | 453 | 680 | 240 | 63 | 37 | 39 | 41 | 43 | 36 | 33 | 0,140 | 133 | 200 | 240 |
| 5.80 | 88 | 19 | 4/f:f | 1,85 | 1,07 | 2,93 | 22,1 | 499 | 748 | 264 | 66 | 37 | 39 | 41 | 43 | 36 | 33 | 0,147 | 147 | 220 | 264 |
| 6.00 | 80 | 18 | 4/f:f | 1,85 | 1,11 | 2,67 | 18,8 | 453 | 680 | 240 | 62 | 37 | 39 | 41 | 43 | 35 | 33 | 0,135 | 133 | 200 | 240 |
| 6.20 | 76 | 18 | 4/f:f | 1,85 | 1,15 | 2,53 | 16,9 | 431 | 646 | 228 | 59 | 36 | 38 | 40 | 43 | 35 | 33 | 0,128 | 127 | 190 | 228 |
| 6.40 | 96 | 24 | 4/f:f | 1,85 | 1,18 | 3,20 | 21,8 | 544 | 816 | 288 | 66 | 37 | 39 | 41 | 43 | 36 | 34 | 0,149 | 160 | 240 | 288 |
| 6.60 | 96 | 26 | 4/f:f | 1,85 | 1,22 | 3,20 | 20,9 | 544 | 816 | 288 | 66 | 37 | 39 | 41 | 43 | 36 | 34 | 0,147 | 160 | 240 | 288 |
| 6.80 | 104 | 29 | 4/f:f | 1,85 | 1,26 | 3,47 | 22,3 | 589 | 884 | 312 | 68 | 37 | 39 | 41 | 43 | 36 | 34 | 0,152 | 173 | 260 | 312 |
| 7.00 | 112 | -- | 3:~:~ | 1,85 | 1,30 | -- | -- | -- | -- | -- | 70 | 38 | 40 | 42 | 44 | 36 | 34 | 0,158 | 187 | 280 | 336 |