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INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION
(ISC)

**31416—
2009**



2010

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Chrysotile cement pipes and couplings. Specifications

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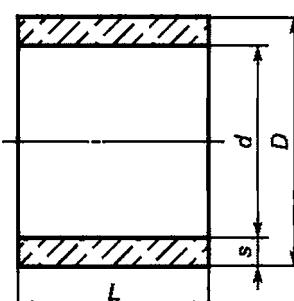
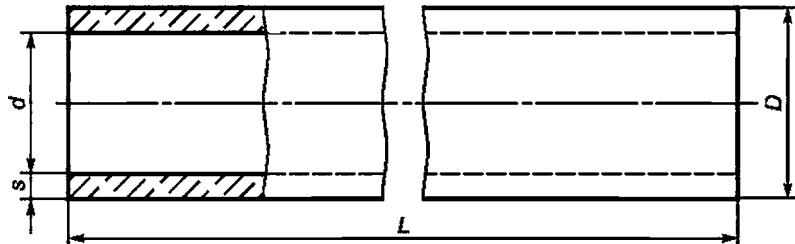
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| | D | | * d | | | | | | | | | |
| | | | | | | | | | | | | |
| 100 | 118 | 116 | 100 | 100 | 9 | 8 | 2950 3950 | 3950 | ± 2,5 | ± 2,5 | ± 1,5 | -50,0 |
| 125 | — | 141 | — | 123 | — | 9 | — | | — | | — | — |
| 150 | 161 | 161 | 141 | 143 | 10 | | 2950 3950 5000 | | ± 4,0 | | — | ± 1,5 |
| 200 | 213 | — | 191 | — | 11 | — | — | 3950 5000 | ± 4,0 | — | — | — |
| | 222 | | | | | | | | | | | |
| 250 | 266 | 259 | 238 | 235 | 14 | 12 | 3950 5000 | — | ± 4,0 | ± 2,5 | — | — |
| | 274 | | 248 | | 13 | | | | | | | |
| 300 | 309 | — | 279 | — | 15 | — | — | 3950 5000 | ± 2,5 | — | — | — |
| | 320 | | 292 | | 14 | | | | | | | |
| 350 | 358 | — | 326 | — | 16 | — | — | — | — | — | — | -50,0 |
| 400 | 402 | 394 | 368 | 360 | 17 | 17 | 3950 5000 | 3950 5000 | ± 4,5 | ± 4,5 | ± 2,5 | -50,0 |
| | 407 | — | 373 | — | 21 | — | — | — | — | — | — | — |
| | 365 | | 21 | | 17 | | | | | | | |
| | 419 | | 385 | | 25 | | | | | | | |
| | 427 | | 377 | | 24 | | | | | | | |
| 500 | 474 | 503 | 430 | 455 | 22 | 24 | 3950 5000 | ± 5,0 | ± 5,0 | ± 3,0 | ± 2,5 | — |
| | 508 | | 456 | | 26 | | | | | | | |
| | 514 | — | 466 | — | 24 | — | — | — | — | — | — | — |

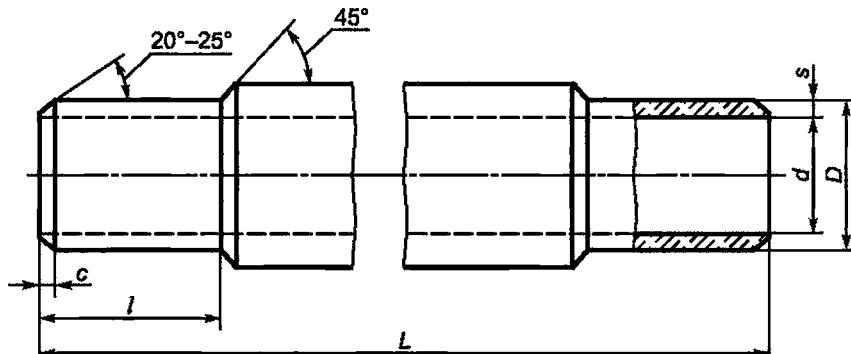
| D _y | | | | | S | | L | | | | | | | |
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| | | | | | | | | | | | | | | |
| 100 | 140 | — | 160 | — | 10 | — | 150 | — | + 1,5 - 1,0 | — | ± 1,5 | — | ± 3,0 | — |
| 125 | — | 165 | — | 185 | — | 10 | — | 150 | — | + 1,5 - 1,0 | — | ± 1,5 | — | ± 3,0 |
| 150 | 189 | — | 213 | — | 12 | — | 150 | — | ± 4,0 | — | ± 2,0 | — | — | — |
| | 221 | | 249 | | 14 | | 160 | | | | | | | |
| 200 | 236 | | 264 | | 18 | | 150 | | | | | | | |
| | 244 | | 272 | | 14 | | 160 | | | | | | | |
| 250 | 290 | | 328 | | 19 | | 150 | | | | | | | |
| | 296 | 286 | 326 | 316 | 15 | 15 | 150 | 150 | | ± 4,0 | | ± 1,5 | | ± 3,0 |
| 300 | 324 | — | 356 | — | 16 | — | 150 | — | ± 4,5 | — | ± 2,5 | — | — | — |
| | 362 | | 362 | | 19 | | 160 | | | | | | | |
| | 334 | | 366 | | 16 | | 150 | | | | | | | |
| | 352 | | 384 | | 18 | | 180 | | | | | | | |
| 350 | 386 | — | 422 | — | 18 | — | 160 | — | ± 4,5 | — | ± 2,5 | — | — | — |
| 400 | 422 | | 458 | | 22 | | 180 | | | | | | | |
| | 432 | | 476 | | 18 | | 160 | | | | | | | |
| | 440 | | 492 | | 19 | | 180 | | | | | | | |
| | 454 | | | | | | | | | | | | | |
| 500 | 525 | 534 | 575 | 582 | 25 | 24 | 160 | 180 | ± 4,5 | — | ± 1,5 | — | ± 3,0 | — |
| | 533 | — | 591 | — | 29 | — | 160 | | | | | | | |

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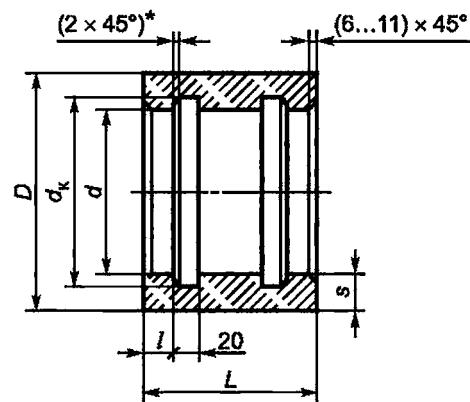
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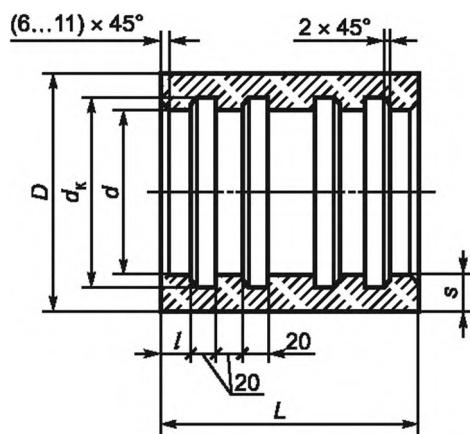
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|----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-----------------------------|-------------------------------------|---------------|------|------|---|------|---|------|---|--|--|--|--|--|--|--|--|--|
| | | 6 | 6 | 9 | 10 | 9 | 12 | 12 | 15 | 16 | 6 | 6 | 9 | 10 | 9 | 12 | 12 | 15 | 16 | | | | | | | | | | | | | | | |
| 100 | 122 | 104 | 100 | 94 | 96 | — | — | 92 | 9,0 | 11,0 | 14,0 | 13,0 | — | — | 15,0 | 200; 210; 230; 250 | 2950; 3950; 5000 | — | — | — | — | — | — | | | | | | | | | | | |
| 125 | 145 | 124 | — | 120 | — | | | — | 10,5 | — | 12,5 | — | | | 15,0 | | | | | | | | | | | | | | | | | | | |
| 150 | 168 | 146 | 141 | 132 | 135 | | | 128 | 11,0 | 13,5 | 18,0 | 16,5 | | | 20,0 | | | | | | | | | | | | | | | | | | | |
| 200 | 224 | 196 | 189 | — | 181 | — | 176 | — | 14,0 | 17,5 | — | 21,5 | — | 24,0 | — | 3950; 5000; 5950 | — | — | — | — | — | — | | | | | | | | | | | | |
| | | 200 | 196 | 184 | 188 | | | 178 | 12,0 | 14,0 | 20,0 | 18,0 | | | 23,0 | | | | | | | | | | | | | | | | | | | |
| 250 | 274 | 244 | 235 | — | 228 | — | — | 178 | 15,0 | 19,5 | — | 23,0 | — | — | — | 5000 | — | — | — | — | — | — | | | | | | | | | | | | |
| | | 248 | 242 | | 234 | | | | 13,0 | 16,0 | — | 20,0 | 24,0 | — | — | — | — | — | — | — | — | — | | | | | | | | | | | | |
| 300 | 324 | 289 | 279 | — | 270 | — | 256 | 264 | 17,5 | 22,5 | — | 27,0 | — | 34,0 | — | 3950; 5000 5950 | — | — | — | — | — | — | — | | | | | | | | | | | |
| | | 292 | 286 | | 272 | | | | 16,0 | 19,0 | 26,0 | 24,0 | 28,5 | — | 30,0 | — | 200; 210; 230; 240; 250 | — | — | — | — | — | — | — | | | | | | | | | | |
| 350 | 373 | — | 334 | — | 322 | — | 312 | — | — | 19,5 | — | 25,5 | — | 30,5 | — | — | 5000 | — | — | — | — | — | — | | | | | | | | | | | |
| | | | | | | | | | 317 | 307 | | | | | 18,0 | — | 28,0 | 33,0 | | | | | | | | | | | | | | | | |
| 400 | 427 | 381 | | 368 | | 356 | | — | | 23,0 | | 29,5 | | 35,5 | | — | | 3950; 5000 | 40,0 | — | — | — | — | — | | | | | | | | | | |
| | | 385 | | 377 | | 359 | | 363 | | 352 | | 347 | | 21,0 | | 25,0 | | 34,0 | | 32,0 | | 37,5 | | | | | | | | | | | | |
| 500 | 528 | 473 | | 456 | | — | | 441 | | — | | — | | 27,5 | | 36,0 | | — | | 43,5 | | — | | 5000 | — | | | | | | | | | |
| | | 476 | | 466 | | 444 | | 450 | | 436 | | 428 | | 26,0 | | 31,0 | | 42,0 | | 39,0 | | 46,0 | | | | | | | | | | | | |

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| 200 | -2,0 | + 1,5/-2,5 | |
| 250 | | | |
| 300 | -2,5 | + 2,0/- 3,0 | |
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| 500 | | | |
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| | | 6 | 6 | 9 | 9 | 12 | 12 | 15 | 6 | 6 | 9 | 9 | 12 | 15 | (6; 9; 12; 15) | (3; 6; 9; 12) | (; 16) | | | | | | | | |
| 100 | 127 | 171 | | 175 | | 182 | 179 | | 179 | — | 184 | 22 | 24 | | 27,5 | 26 | | 26 | — | 28,5 | 150 | 140; 150 | 220; 240 | 180 | |
| | | | | 179 | — | | 179 | | 179 | — | 184 | | 26 | | | — | 27 | — | — | — | 173 | | | | |
| 125 | 150 | 195 | — | 200 | — | — | 204 | — | — | — | 22,5 | — | 25 | — | — | 27 | — | — | — | — | 173 | 140; 150 | 220; 240 | 180 | |
| 150 | 173 | 219 | | 225 | | 236 | 231 | | 231 | — | 240 | 23 | 26 | | 31,5 | 29 | | 29 | — | 33,5 | 196 | 150 | 220; 230' 240 | 220 | |
| | | | | 231 | — | | 231 | | — | 240 | 29 | | | 29 | | — | 33,5 | 196 | 150 | | | | | | |
| 200 | 229 | 277 | | 287 | | 296 | 297 | | 307 | 302 | 24 | 29 | | 33,5 | 34 | | 39 | 36,5 | | 252 | 150 | 220; 230' 240 | 220 | | |
| | | | | 307 | — | | 307 | | | | | | 39 | | | 39 | — | 39 | — | 36,5 | 252 | | | | |
| 250 | 279 | 329 | — | 341 | — | — | 353 | — | 365 | — | 25 | — | 31 | — | — | 37 | — | 43 | — | 302 | 150 | 220; 230' 240 | — | | |
| 300 | 329 | 383 | | 397 | | 410 | 411 | | 425 | 418 | 27 | 34 | | 40,5 | 41 | | 48 | 44,5 | | 352 | 160 | 220; | 240 | 220 | |
| | | | | 425 | — | | 425 | | | | | | 48 | | | 48 | — | 48 | — | 44,5 | 352 | | | | |
| 350 | 379 | — | 435 | — | 449 | — | — | 463 | — | 477 | — | — | 28 | — | 35 | — | — | 42 | — | 49 | — | 402 | — | — | |
| 400 | 433 | 501 | | 517 | | 530 | 533 | | 549 | 542 | 34 | 42 | | 48,5 | 50 | | 58 | 54,5 | | 456 | 160 | 220; | 240 | 220 | |
| | | | | 549 | — | | 549 | | | | | | 58 | | | 58 | — | 58 | — | 54,5 | 456 | | | | |
| 500 | 534 | 610 | — | 626 | 647 | 642 | 658 | 663 | 38 | — | 46 | — | 56,5 | — | 54 | — | 62 | — | 64,5 | 557 | — | — | — | | |

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| <i>D</i> , мм | | | | | |
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| | | | | | |
| 100 | 118 | 116 | 4508 | | |
| 125 | — | 141 | — | | |
| 150 | | 161 | 3920 | — | |
| 200 | 213 | — | 3136 | | |
| | 222 | | | | |
| 250 | 266 | 259 | 3626 | 3600 | |
| | 274 | | 3724 | | |
| 300 | 309 | — | 4116 | — | |
| | 320 | | | | |
| 350 | 358 | | 4508 | | |
| 400 | 402 | 394 | 4900 | 5100 | |
| | 407 | — | | — | |
| | 419 | | | | |
| | 427 | | 5900 | | |
| 500 | 474 | 503 | 5390 | 6100 | |
| | 508 | | 5880 | | |
| | 514 | — | 6116 | — | |

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| <i>D_y</i> , мм | | | | |
|------------------------------|-----|-----|------|------|
| | | | | |
| 100 | 118 | 116 | 1764 | 1800 |
| 125 | — | 141 | — | 2900 |
| 150 | | 161 | 3920 | 3900 |
| | — | 150 | . | . |

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| 100—125 | 2,4 | 3,6 | 4,8 | 4,5 | — | 5,8 |
| 150—200 | 2,1 | 3,1 | 4,2 | 3,7 | 5,2 | 6,0 |
| 250—500 | 1,8 | 2,7 | 3,6 | 3,2 | 4,5 | 5,3 |

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|---------|----|------|-------|----|--------|-----------|
| | 6; | 9; 6 | 12; 9 | 10 | 15; 12 | 16 |
| 100 | 8 | 11 | 13 | 12 | — | 16 |
| 150 | 8 | 11 | 15 | 12 | | 19 |
| 200 | 8 | 12 | 17 | 13 | 25 | 30 |
| 250 | 8 | 13 | 19 | — | 25 | — |
| 300 | 9 | 14 | 22 | 16 | 30 | 34 |
| 350 | 11 | 16 | 25 | — | 35 | — |
| 400 | 15 | 18 | 29 | 21 | 39 | 45 |
| 500 | 16 | 22 | 34 | 25 | 39 | 45 |

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| | 6; | 9; 6 | 12; 9 | 10 | 15; 12 | 16 |
| 100 | 4,0 | 4,5 | 5,0 | 5,0 | — | 6,0 |
| 125 | 6,4 | 7,3 | 8,4 | — | — | — |
| 150 | 9,2 | 11,0 | 12,2 | 12,0 | — | 14,5 |

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| 100 | 118 | 116 | 6,1 | 1,4 | 6,0 | 1,5 |
| 125 | — | 141 | — | — | 8,1 | 1,8 |
| 150 | 161 | | 9,4 | 2,3 | 9,3 | 2,5 |
| 200 | 213 | — | 18,0 | 5,1 | — | — |
| | 222 | | 17,0 | 4,1 | | |
| 250 | 266 | 259 | 25,0 | 6,4 | 22,0 | — |
| | 274 | | 22,5 | 5,3 | | 4,6 |
| 300 | 309 | — | 32,2 | 7,6 | — | — |
| | 320 | | 32,4 | 6,5 | | |
| 350 | 358 | | 40,7 | 9,6 | | |
| 400 | 402 | 394 | 45,0 | 10,1 | 43,7 | 9,2 |
| | 407 | | 55,8 | 11,5 | — | — |
| | 419 | | 50,2 | 11,7 | | |
| | 427 | | 62,0 | — | | |
| 500 | 474 | 503 | 71,3 | 16,7 | 78,0 | 17,1 |
| | 508 | | 86,0 | 18,0 | | |
| | 514 | — | 74,9 | 16,3 | — | — |

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| | | 6 | 6 | 9 | 9 | 10 | 12 | 12 | 15 | 16 |
| 100 | 7,8 | 9,3 | 9,2 | 10,6 | 11,7 | 10,4 | | | 12,5 | |
| 125 | 9,0 | — | 10,5 | — | 12,0 | — | — | — | — | — |
| 150 | 12,9 | 15,5 | 15,2 | 18,3 | 20,3 | 17,9 | | | 22,5 | |
| 200 | 22,1 | 27,0 | 26,4 | 31,9 | 33,3 | 31,2 | 32,5 | 36,2 | 38,3 | |
| 250 | 28,4 | 36,6 | 35,9 | 42,0 | — | 41,1 | 43,7 | 47,3 | — | |
| 300 | 40,2 | 50,5 | 49,4 | 58,7 | 62,7 | 57,9 | 61,3 | 69,4 | 72,4 | |
| 350 | — | 50,9 | — | 63,7 | — | — | 76,5 | — | 87,5 | — |
| 400 | 68,8 | 86,4 | 84,7 | 100,8 | 106,9 | 100,6 | 105,6 | 114,8 | 125,7 | |
| 500 | 104,6 | 101,6 | 130,0 | 127,3 | 152,3 | 162,8 | 151,2 | 159,6 | 173,6 | 193,8 |

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| | 6 | 9 | 12 | 15 | | 6 | 9 | | | 16 |
| 100 | 3,5 | 3,8 | 4,5 | — | 3,6 | 5,4 | 5,9 | 5,6 | — | 5,8 |
| 150 | 4,6 | 5,2 | 5,6 | — | 4,9 | 7,3 | 8,8 | 8,1 | — | 8,7 |
| 200 | 6,9 | 8,2 | 9,0 | 9,5 | 7,4 | 11,7 | 14,0 | 11,4 | 16,4 | 12,4 |
| 250 | 8,7 | 10,6 | 11,5 | 12,5 | 9,3 | 15,0 | 18,3 | — | 21,7 | — |
| 300 | 11,1 | 13,8 | 15,5 | 17,0 | 11,8 | 19,3 | 23,7 | 24,1 | 28,4 | 26,5 |
| 350 | 14,7 | 18,0 | 20,0 | 22,0 | — | — | — | — | — | — |
| 400 | 20,1 | 21,8 | 25,0 | 29,0 | 21,6 | 31,6 | 39,4 | 34,6 | 46,5 | 38,9 |
| 500 | 27,7 | 32,8 | 34,0 | 36,0 | 29,6 | 43,5 | 51,8 | 55,4 | 60,3 | 63,2 |

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| | 1 | | IP | |
| | | | | |
| 100 | 2,0 | 2,7 | 4,0 | 5,3 |
| 150 — 200 | 1,75 | 2,2 | 3,5 | 4,3 |
| 250 — 500 | 1,50 | 1,9 | 3,0 | 3,8 |

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| | | | | | | | | | | | | | | | |
| 100 | 118 | 116 | 100 | 100 | 9 | 8 | 2950 3950 | 3950 | ±2,5 | ±2,5 | ±1,5 | ±1,5 | -50,0 | | |
| 125 | — | 141 | — | 123 | — | 9 | — | 3950 | — | ±2,5 | — | ±1,5 | — | -50,0 | |
| 150 | 161 | 161 | 141 | 143 | 10 | | 2950 3950 5000 | 3950 | ±4,0 | ±2,5 | ±2,5 | ±1,5 | -50,0 | | |
| 200 | 210 | — | 186 | — | 12 | 11 | 5000 | — | ±3,0 | — | ±2,5 | — | -50,0 | — | |
| | 213 | | 191 | | — | | 3950 5000 | | ±4,0 | | | | | | |
| | 222 | | 200 | | | | — | | — | | | | | | |
| 250 | 266 | 259 | 238 | 235 | 14 | 12 | 3950 5000 | 3950 5000 | ±4,0 | ±4,0 | ±4,0 | ±2,5 | -50,0 | -50,0 | |
| | 274 | | 248 | | 13 | | — | — | — | — | — | — | — | — | |
| 300 | 304 | — | 274 | — | 15 | 15 | 5000 | — | ±3,0 | — | ±2,5 | — | -50,0 | — | |
| | 309 | | 279 | | 15 | | 3950 5000 | | ±4,5 | | | | | | |
| | 320 | | 292 | | 14 | | — | | — | | | | | | |
| 350 | 358 | — | 326 | — | 16 | — | 3950 5000 | — | ±4,5 | — | ±2,5 | — | -50,0 | — | |
| 400 | 402 | 394 | 368 | 360 | 17 | 17 | 3950 5000 | 3950 5000 | ±4,5 | ±4,5 | ±2,5 | ±2,5 | -50,0 | -50,0 | |
| | 407 | — | 373 | — | 17 | 21 | 3950 5000 | — | ±4,5 | ±2,5 | — | — | -50,0 | — | |
| | | | 365 | | 21 | | | | ±3,0 | | | | | | |
| | 409 | — | 373 | — | 18 | 18 | 5000 | — | ±4,5 | ±2,5 | — | — | -50,0 | — | |
| | 419 | | 385 | | 17 | | 3950 5000 | | ±5,0 | | | | | | |
| 500 | 427 | — | 377 | — | 25 | 22 | — | — | — | ±3,0 | ±2,5 | — | -50,0 | — | |
| | 474 | | 503 | | 430 | | 455 | 24 | 3950 5000 | 3950 5000 | ±5,0 | ±5,0 | ±2,5 | -50,0 | — |
| | 504 | | — | | 460 | | — | — | 5000 | — | ±3,5 | — | — | — | — |
| | 508 | | 503 | | 456 | | 455 | 26 | 24 | 3950 5000 | ±5,0 | ±5,0 | ±2,5 | -50,0 | -50,0 |
| | 514 | | — | | 466 | | — | 24 | — | — | — | — | — | — | — |

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| | | | | | | | | | | | | | | |
| 100 | 140 | — | 160 | — | 10 | — | 150 190 | — | +1,5 -1,0 | — | ±1,5 | — | ±3,0 ±5,0 | — |
| 125 | — | 165 | — | 185 | — | 10 | — | 150 | — | +1,5 -1,0 | — | ±1,5 | — | ±3,0 |
| 150 | 188 | — | 212 | — | 12 | — | 190 | — | +2,0 | — | ±2,0 | — | ±5,0 | — |
| | 189 | | 213 | | | | 150 | | ±4,0 | | | | ±3,0 | |
| 200 | 221 | — | 249 | — | 14 | — | 150 | — | ±4,0 | — | ±2,0 | — | ±3,0 | — |
| | 234 | | 264 | | 15 | | 240 | | | | | | ±5,0 | |
| | 236 | | 264 | | 14 | | 150 | | | | | | ±3,0 | |
| | 236 | | 272 | | 18 | | 160 | | | | | | ±3,0 | |
| | 244 | | 272 | | 14 | | 150 | | | | | | ±3,0 | |
| 250 | 290 | — | 328 | — | 19 | — | 160 | — | ±4,5 | — | ±2,5 | — | ±3,0 | — |
| | 296 | 286 | 326 | 316 | 15 | 15 | 150 | 150 | | ±4,0 | | ±1,5 | ±3,0 | ±3,0 |
| 300 | 320 | — | 354 | — | 17 | — | 240 | — | ±4,5 | — | ±2,5 | — | ±5,0 | — |
| | 324 | | 356 | | 16 | | 150 | | | | | | ±3,0 | |
| | 324 | | 362 | | 19 | | 160 | | | | | | ±3,0 | |
| | 334 | | 366 | | 16 | | 150 | | | | | | ±3,0 | |
| | 352 | | 384 | | | | | | | | | | ±3,0 | |
| 350 | 386 | — | 422 | — | 18 | — | 180 | — | ±4,5 | — | ±2,5 | — | ±4,0 | — |
| 400 | 418 | — | 458 | — | 20 | — | 240 | — | ±4,5 | — | ±2,5 | — | ±5,0 | — |
| | 422 | | 458 | | 18 | | 160 | | | | | | ±4,0 | |
| | 432 | | 476 | | 22 | | 180 | | | | | | ±4,0 | |
| | 440 | | 476 | | 18 | | 160 | | | | | | ±4,0 | |
| | 454 | | 492 | | 19 | | 180 | | | | | | ±4,0 | |
| 500 | 520 | — | 570 | — | 25 | — | 240 | — | ±4,5 | — | ±2,5 | — | ±5,0 | — |
| | 525 | 534 | 575 | 582 | 25 | 24 | 160 180 | 180 | | ±4,5 | | ±1,5 | ±4,0 | ±3,0 |
| | 533 | — | 591 | — | 29 | — | 160 | — | | — | | — | — | — |

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