

$\alpha 0 = \text{area of Mars} \pm 1 \text{ mm}$

$\alpha 0 \rightarrow \alpha 58$

10,103.852,741,903,025 km

α (alpha minor)

0-58

MARS

14,289.005,579,819,843 km

equatorial radius : 3,396.2 km

polar radius : 3,376.2 km

calculated area : 144,374,008.206,730,34 km²

rectangle with an area equal to Mars and a ratio of $1:\sqrt{2}$:

width : 10,103.852,741,903,025 km

height : 14,289.005,579,819,843 km

This series is printed in the format $\alpha 52$ (150 × 212 mm),
the first format that can be affixed on an A4 format.

10,103,852,741 mm

α8

α10

α11

α9

α6

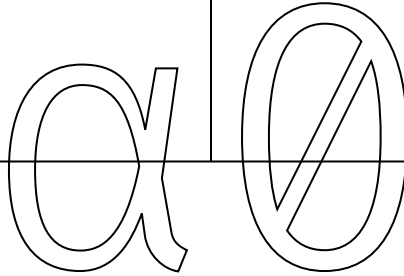
α7

α4

α5

α2

α3



14,289,005,579 mm

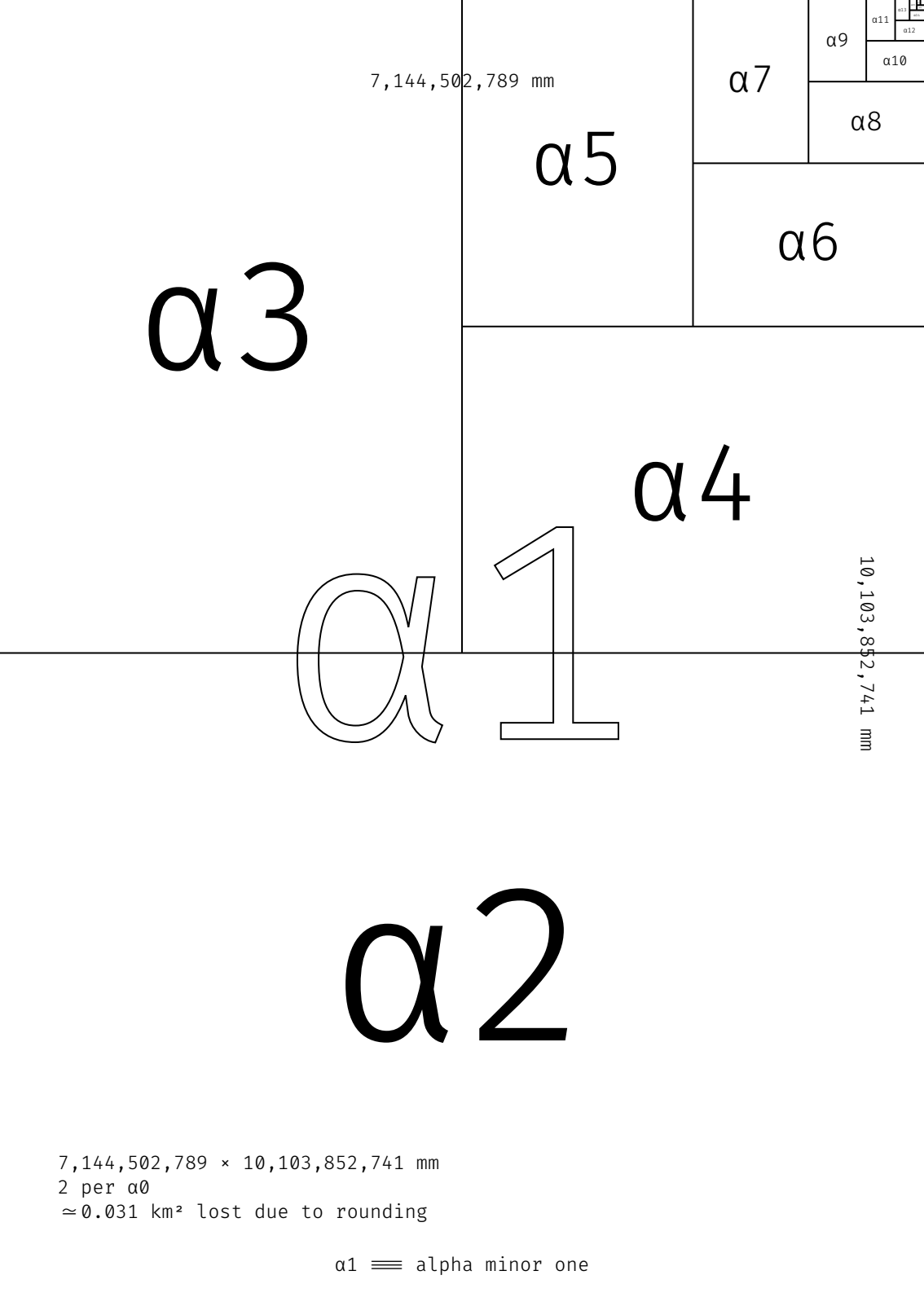
α1

10,103,852,741 × 14,289,005,579 mm

1 per α0

≈ 0.021 km² lost due to rounding

α0 ≡ alpha minor zero



7,144,502,789 mm

$\alpha 3$

$\alpha 5$

$\alpha 7$

$\alpha 8$

$\alpha 6$

$\alpha 4$

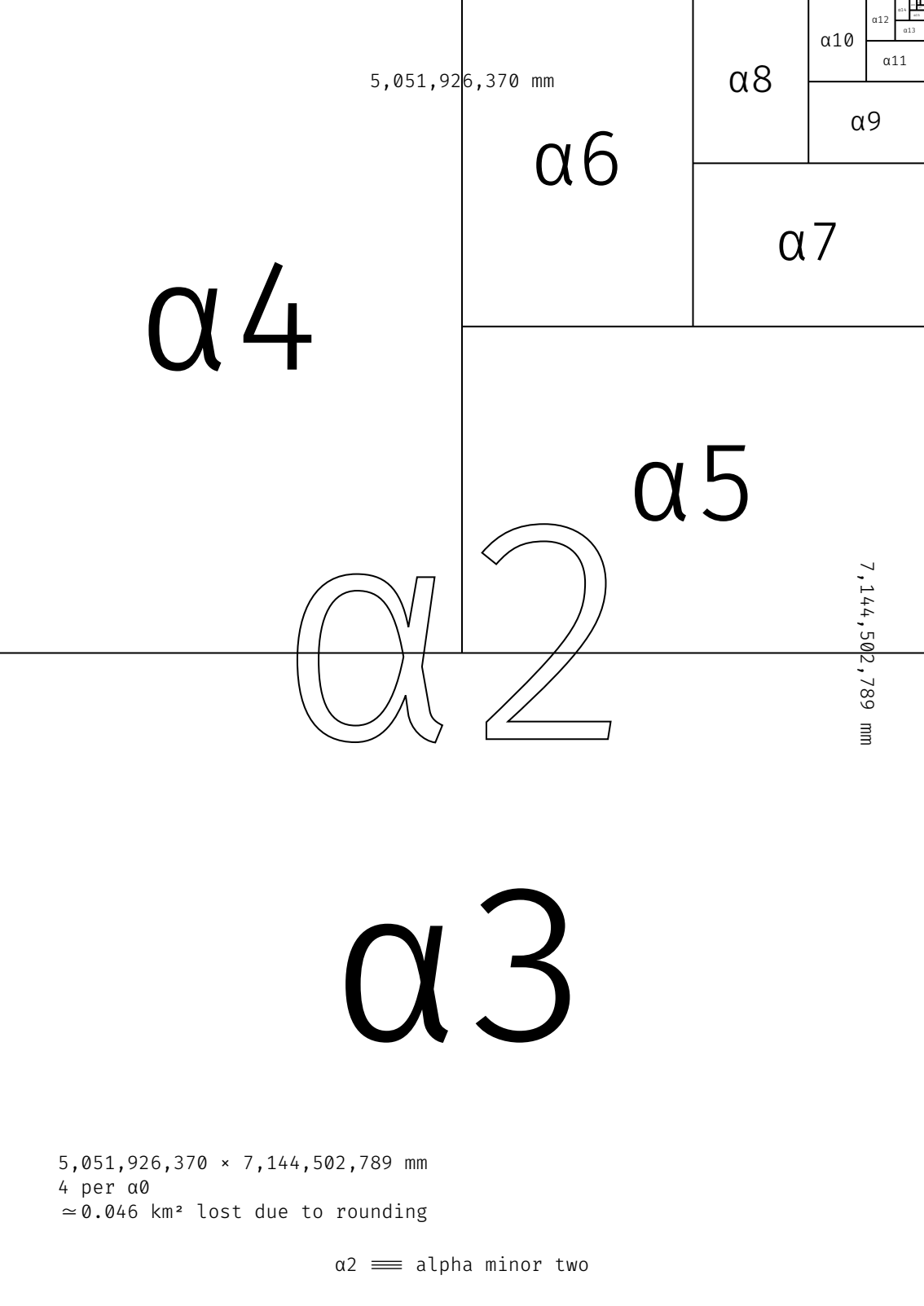
$\alpha 1$

10,103,852,741 mm

$\alpha 2$

7,144,502,789 × 10,103,852,741 mm
 2 per $\alpha 0$
 ≈ 0.031 km² lost due to rounding

$\alpha 1 \equiv$ alpha minor one



5,051,926,370 mm

$\alpha 4$

$\alpha 6$

$\alpha 8$

$\alpha 10$

$\alpha 12$

$\alpha 13$

$\alpha 11$

$\alpha 9$

$\alpha 7$

$\alpha 5$

$\alpha 2$

7,144,502,789 mm

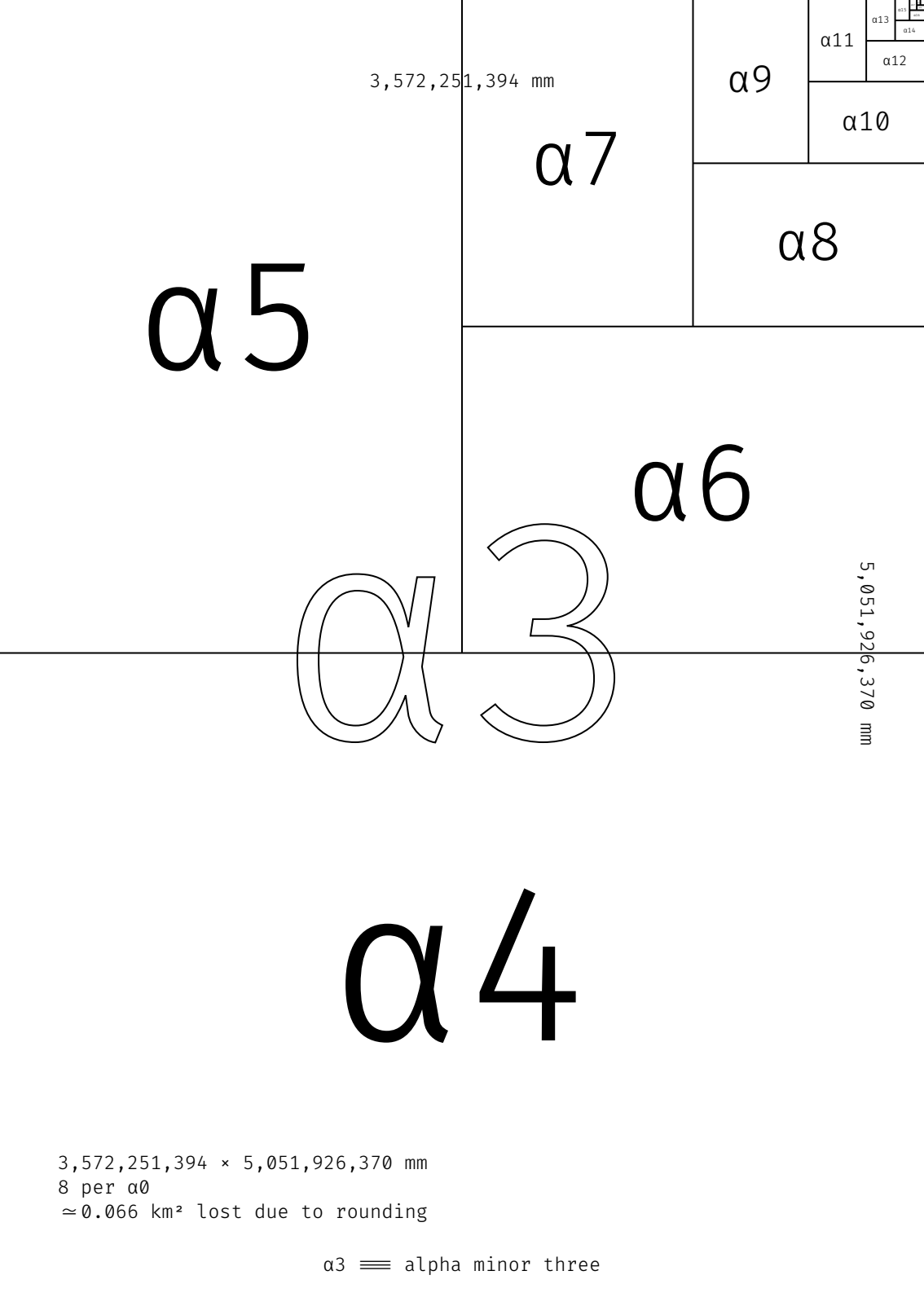
$\alpha 3$

5,051,926,370 × 7,144,502,789 mm

4 per $\alpha 0$

≈ 0.046 km² lost due to rounding

$\alpha 2 \equiv$ alpha minor two



3,572,251,394 mm

$\alpha 5$

$\alpha 7$

$\alpha 9$

$\alpha 11$

$\alpha 12$

$\alpha 10$

$\alpha 8$

$\alpha 6$

$\alpha 3$

5,051,926,370 mm

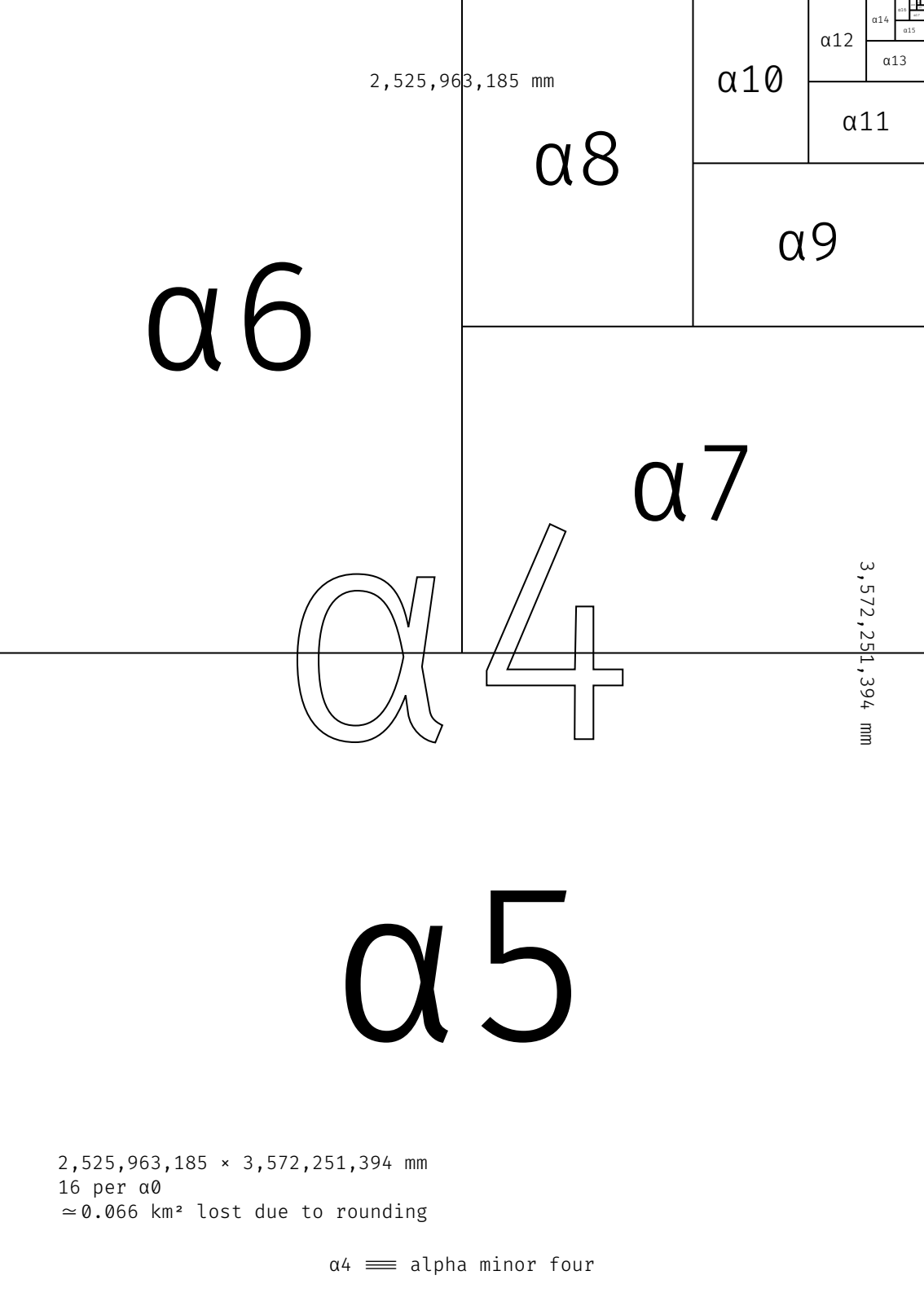
$\alpha 4$

3,572,251,394 × 5,051,926,370 mm

8 per $\alpha 0$

≈ 0.066 km² lost due to rounding

$\alpha 3 \equiv$ alpha minor three



2,525,963,185 mm

alpha 12

alpha 14
alpha 15

alpha 13

alpha 10

alpha 11

alpha 8

alpha 9

alpha 6

alpha 7

alpha 4

3,572,251,394 mm

alpha 5

2,525,963,185 x 3,572,251,394 mm

16 per alpha 0

approx 0.066 km² lost due to rounding

alpha 4 ≡ alpha minor four

1,786,125,697 mm

α11

α13

α15

α16

α14

α12

α9

α10

α7

α8

α5

2,525,963,185 mm

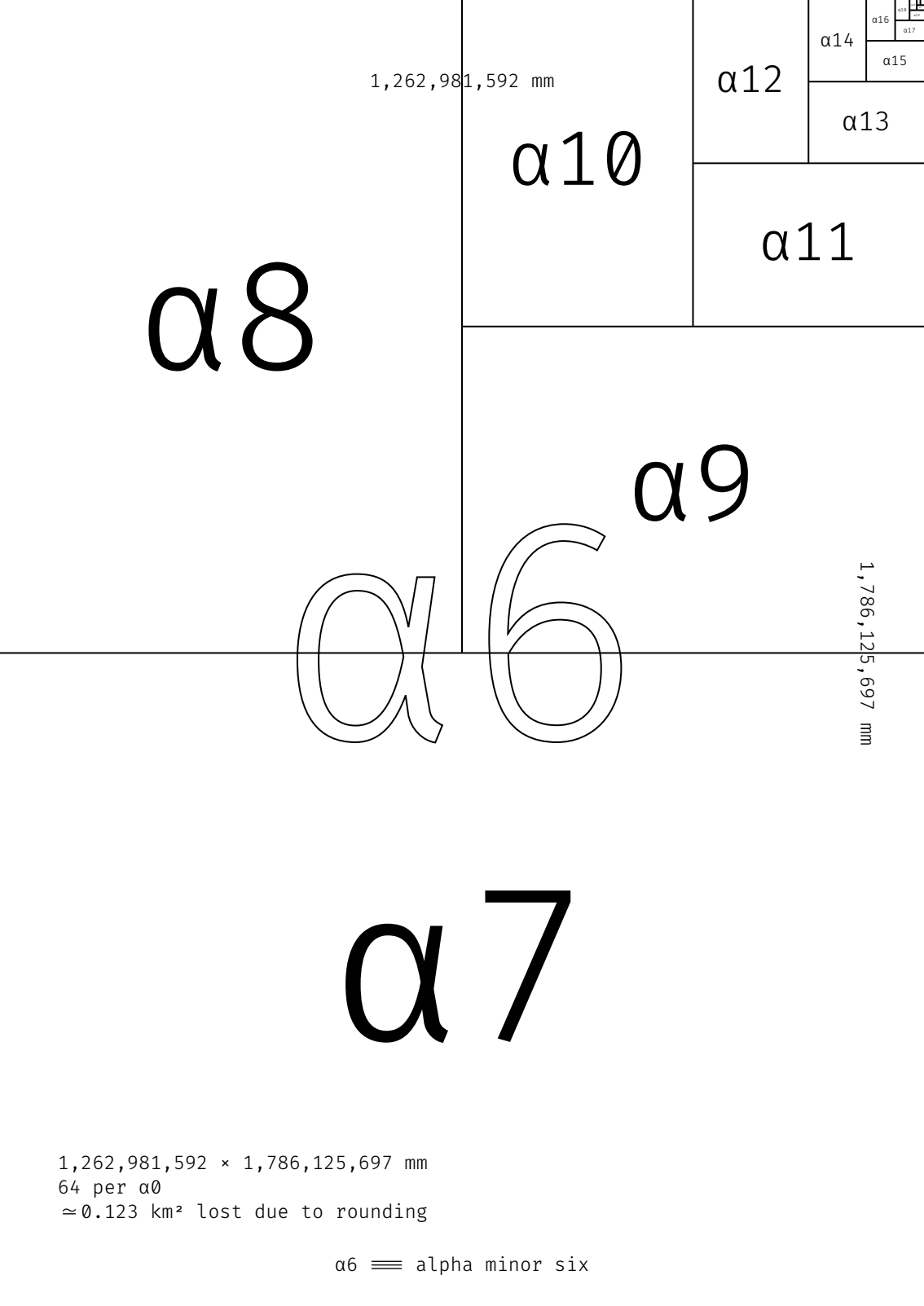
α6

1,786,125,697 × 2,525,963,185 mm

32 per α0

≈ 0.066 km² lost due to rounding

α5 ≡ alpha minor five



1,262,981,592 mm

α12

α14

α16

α17

α15

α13

α10

α11

α8

α9

α6

1,786,125,697 mm

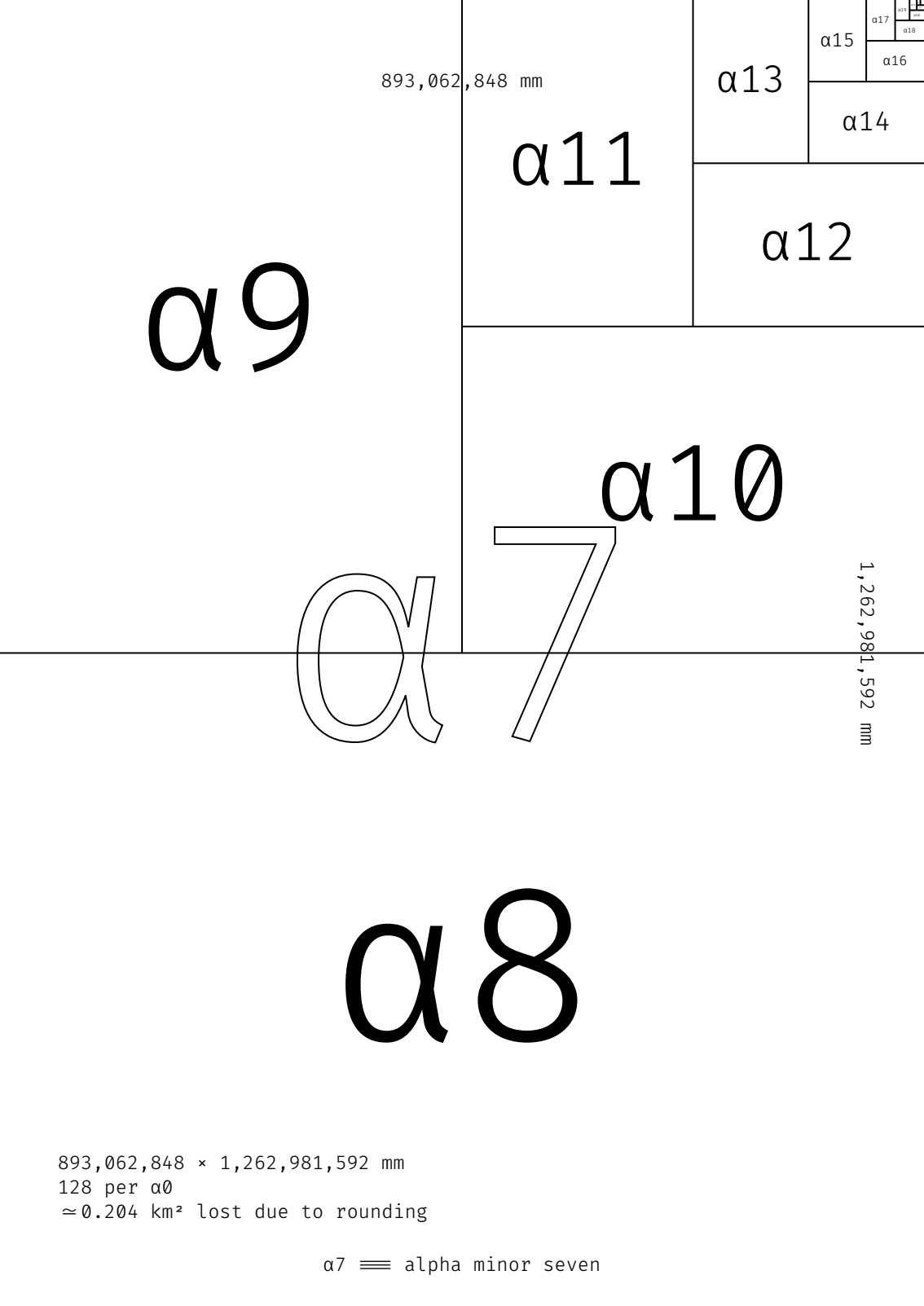
α7

1,262,981,592 × 1,786,125,697 mm

64 per α0

≈ 0.123 km² lost due to rounding

α6 ≡ alpha minor six



893,062,848 mm

$\alpha 15$

$\alpha 17$

$\alpha 18$

$\alpha 16$

$\alpha 13$

$\alpha 14$

$\alpha 11$

$\alpha 12$

$\alpha 9$

$\alpha 10$

$\alpha 7$

$\alpha 7$

1,262,981,592 mm

$\alpha 8$

893,062,848 × 1,262,981,592 mm
128 per $\alpha 0$
 $\approx 0.204 \text{ km}^2$ lost due to rounding

$\alpha 7 \equiv$ alpha minor seven

α10

631,490,796 mm

α12

α14

α16

α17

α15

α13

α11

α8

893,062,848 mm

α9

631,490,796 × 893,062,848 mm

256 per α0

≈ 0.204 km² lost due to rounding

α8 ≡ alpha minor eight

α19
α20

α17

α18

α15

α16

446,531,424 mm

α13

α14

α11

α12

α9

631,490,796 mm

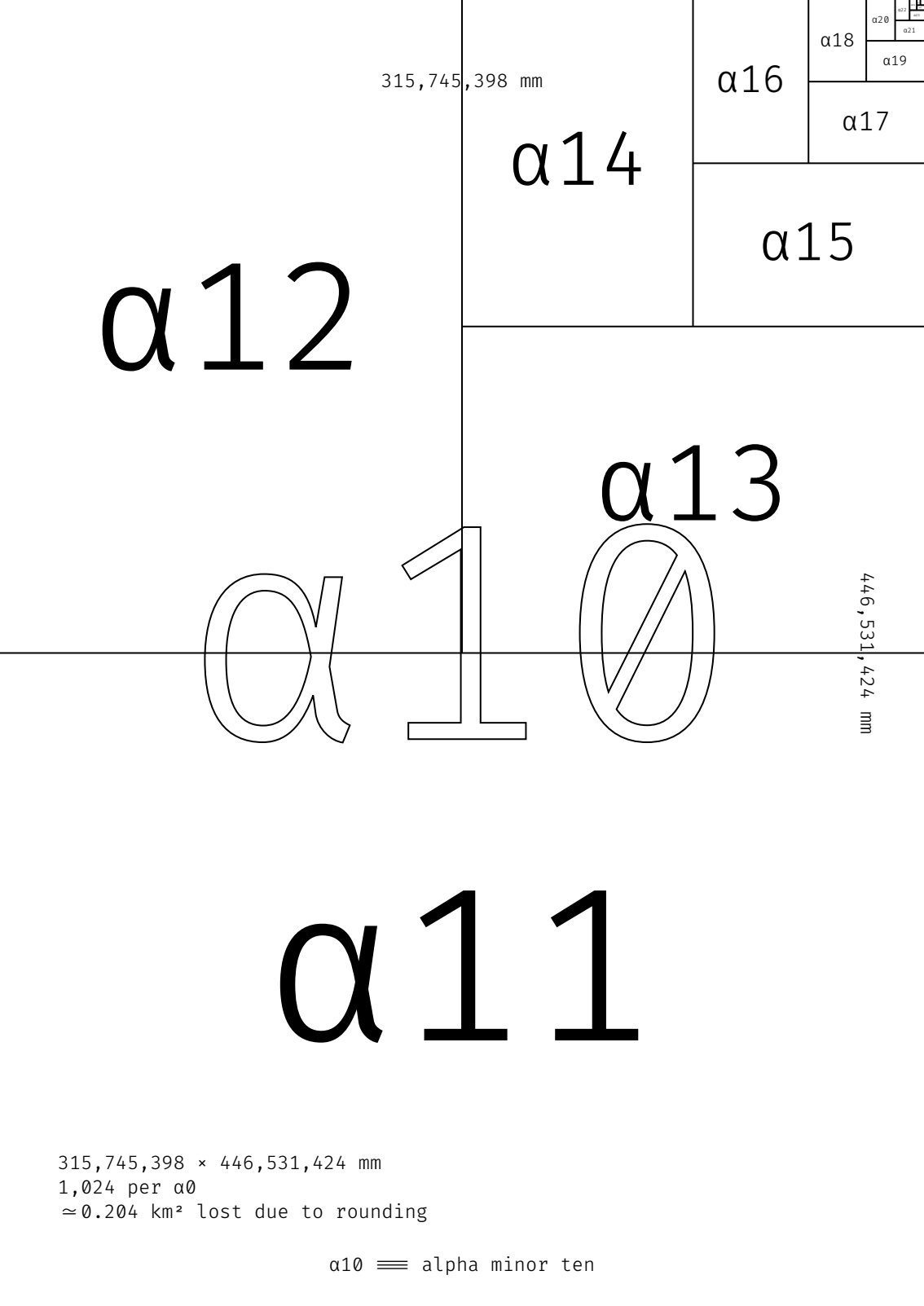
α10

446,531,424 × 631,490,796 mm

512 per α0

≈ 0.204 km² lost due to rounding

α9 ≡ alpha minor nine



315,745,398 mm

$\alpha 18$

$\alpha 20$

$\alpha 21$

$\alpha 19$

$\alpha 16$

$\alpha 17$

$\alpha 14$

$\alpha 15$

$\alpha 12$

$\alpha 13$

$\alpha 10$

446,531,424 mm

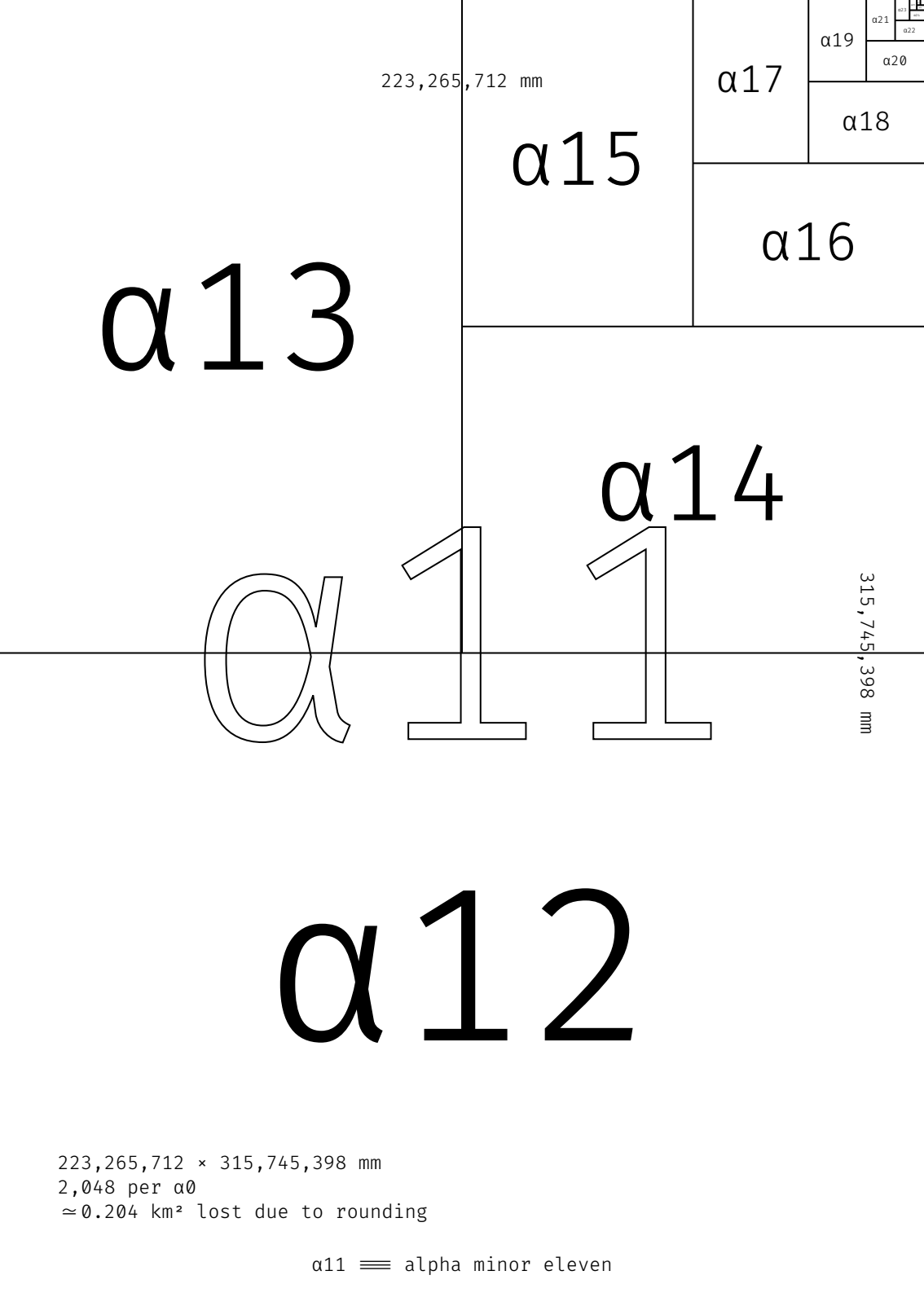
$\alpha 11$

315,745,398 × 446,531,424 mm

1,024 per $\alpha 0$

≈ 0.204 km² lost due to rounding

$\alpha 10 \equiv$ alpha minor ten



223,265,712 mm

α_{19}

α_{21}

α_{22}

α_{20}

α_{17}

α_{18}

α_{15}

α_{16}

α_{13}

α_{14}

α_{11}

315,745,398 mm

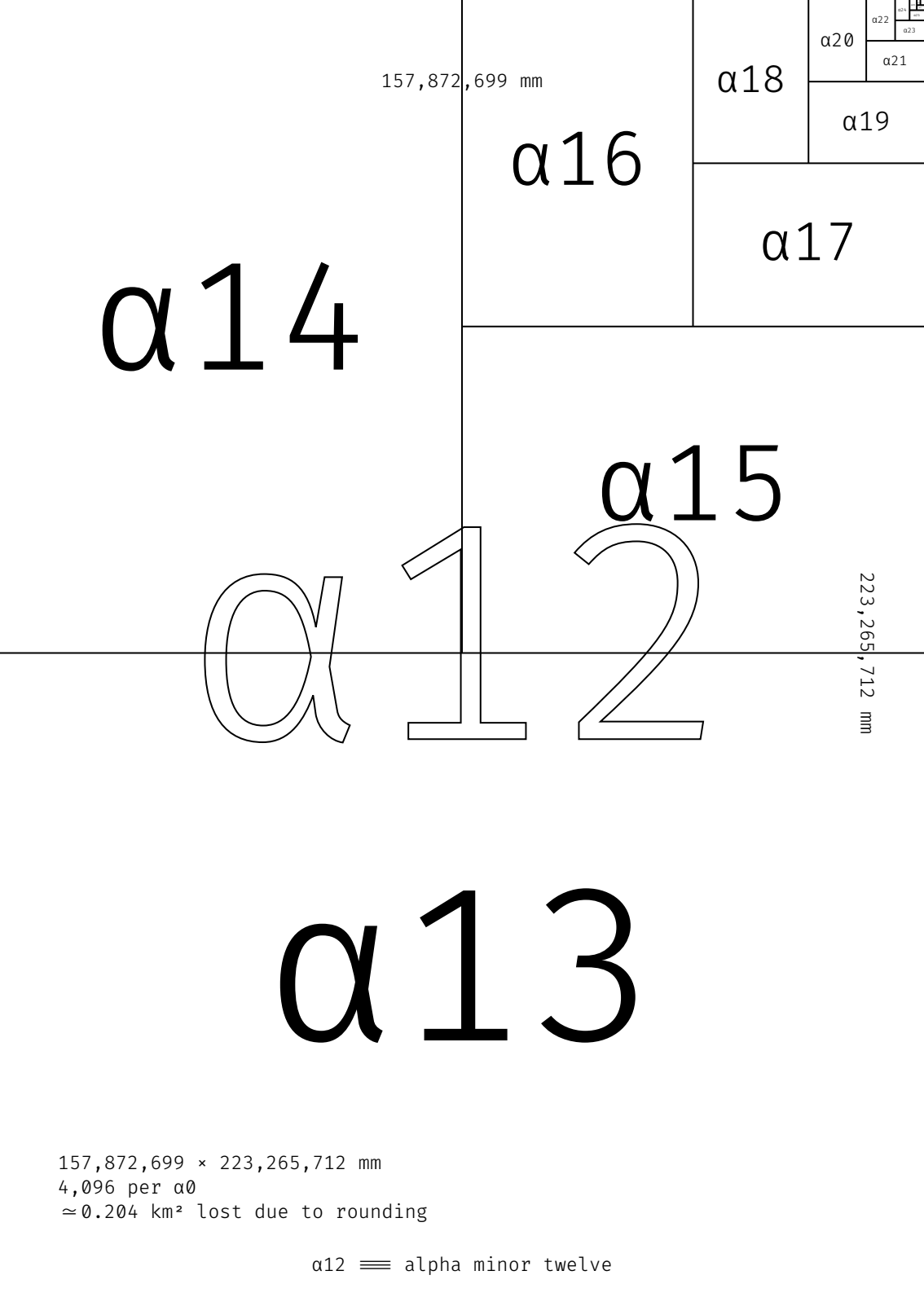
α_{12}

223,265,712 × 315,745,398 mm

2,048 per α_0

≈ 0.204 km² lost due to rounding

$\alpha_{11} \equiv$ alpha minor eleven



157,872,699 mm

$\alpha 20$

$\alpha 22$

$\alpha 23$

$\alpha 21$

$\alpha 18$

$\alpha 19$

$\alpha 16$

$\alpha 17$

$\alpha 14$

$\alpha 15$

$\alpha 12$

223,265,712 mm

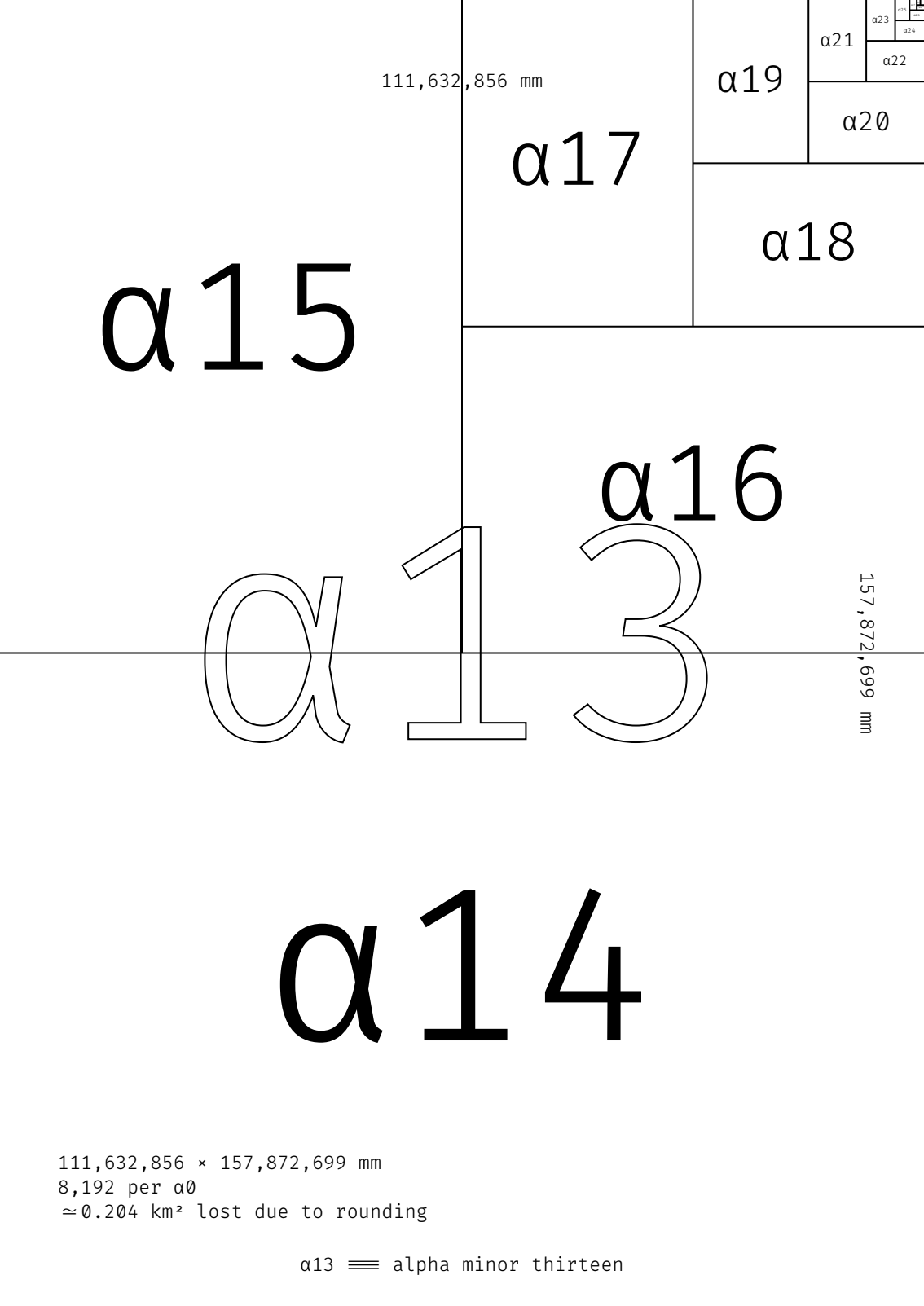
$\alpha 13$

157,872,699 × 223,265,712 mm

4,096 per $\alpha 0$

≈ 0.204 km² lost due to rounding

$\alpha 12 \equiv$ alpha minor twelve



111,632,856 mm

$\alpha 19$

$\alpha 21$

$\alpha 23$

$\alpha 24$

$\alpha 22$

$\alpha 20$

$\alpha 17$

$\alpha 18$

$\alpha 15$

$\alpha 16$

$\alpha 13$

157,872,699 mm

$\alpha 14$

111,632,856 × 157,872,699 mm

8,192 per $\alpha 0$

≈ 0.204 km² lost due to rounding

$\alpha 13 \equiv$ alpha minor thirteen

α24
α25

α22

α23

78,936,349 mm

α20

α21

α18

α19

α16

α17

α14

111,632,856 mm

α15

78,936,349 × 111,632,856 mm

16,384 per α0

≈ 1.118 km² lost due to rounding

α14 ≡ alpha minor fourteen

α25
α26

α23

α24

α21

α22

55,816,428 mm

α19

α20

α17

α18

α15

78,936,349 mm

α16

55,816,428 × 78,936,349 mm

32,768 per α0

≈ 1.118 km² lost due to rounding

α15 ≡ alpha minor fifteen

α26
α27

α24

α25

39,468,174 mm

α22

α23

α20

α21

α18

α19

α16

55,816,428 mm

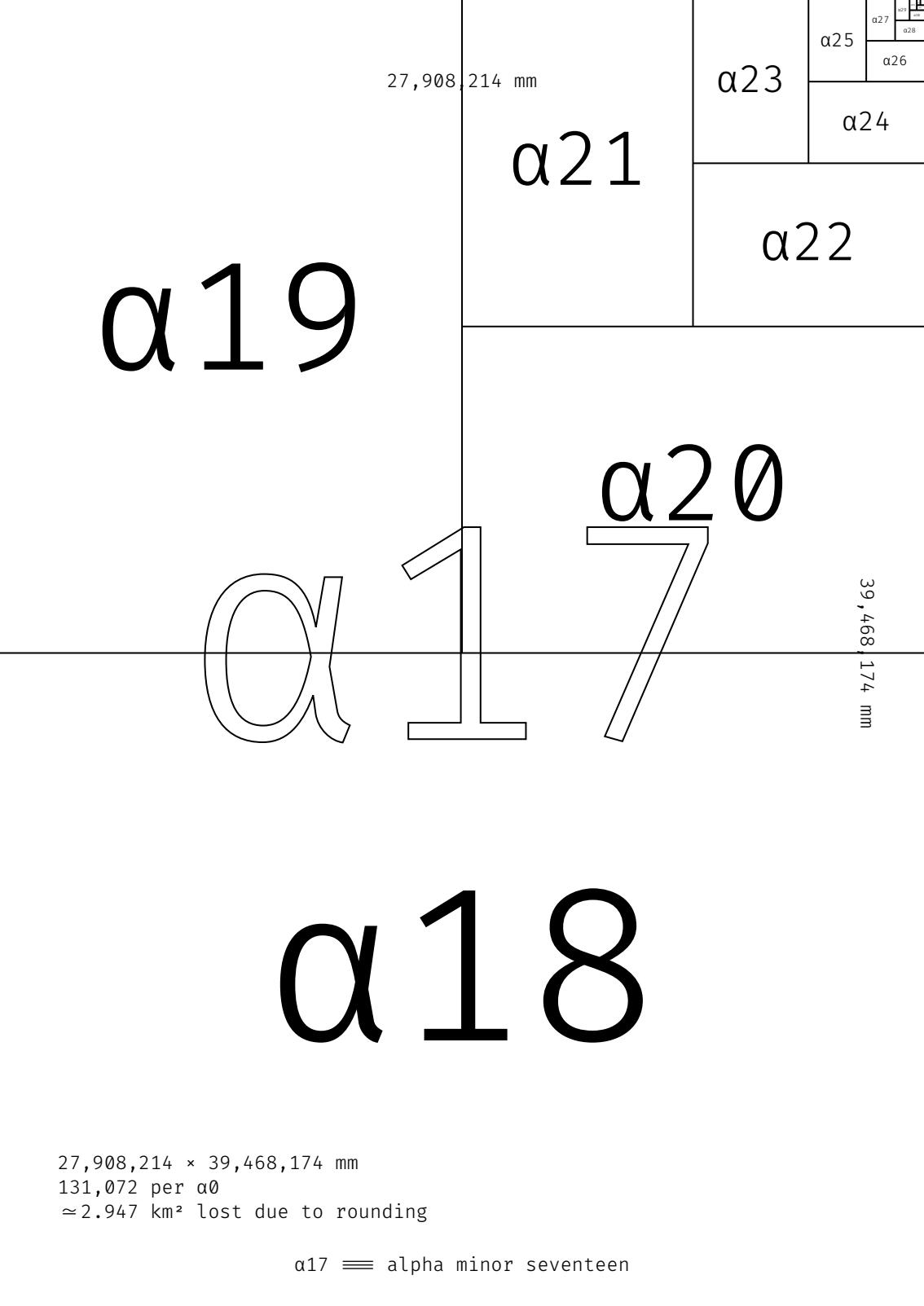
α17

39,468,174 × 55,816,428 mm

65,536 per α0

≈ 2.947 km² lost due to rounding

α16 ≡ alpha minor sixteen



27,908,214 mm

alpha 25

alpha 27

alpha 28

alpha 26

alpha 23

alpha 24

alpha 21

alpha 22

alpha 19

alpha 20

alpha 17

39,468,174 mm

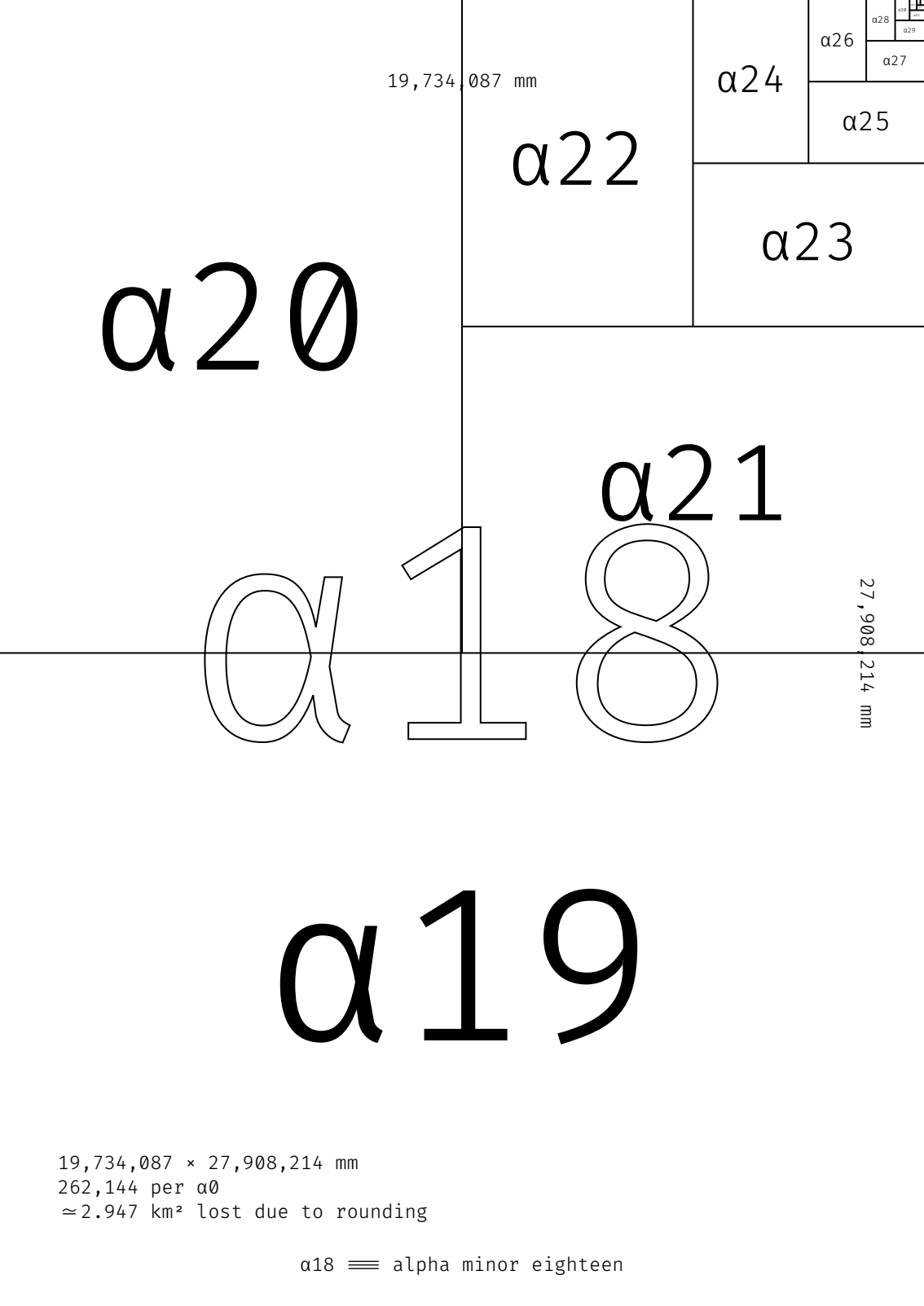
alpha 18

27,908,214 x 39,468,174 mm

131,072 per alpha 0

approx 2.947 km² lost due to rounding

alpha 17 ≡ alpha minor seventeen



19,734,087 mm

α24

α26

α27

α28

α29

α25

α22

α23

α20

α21

α18

27,908,214 mm

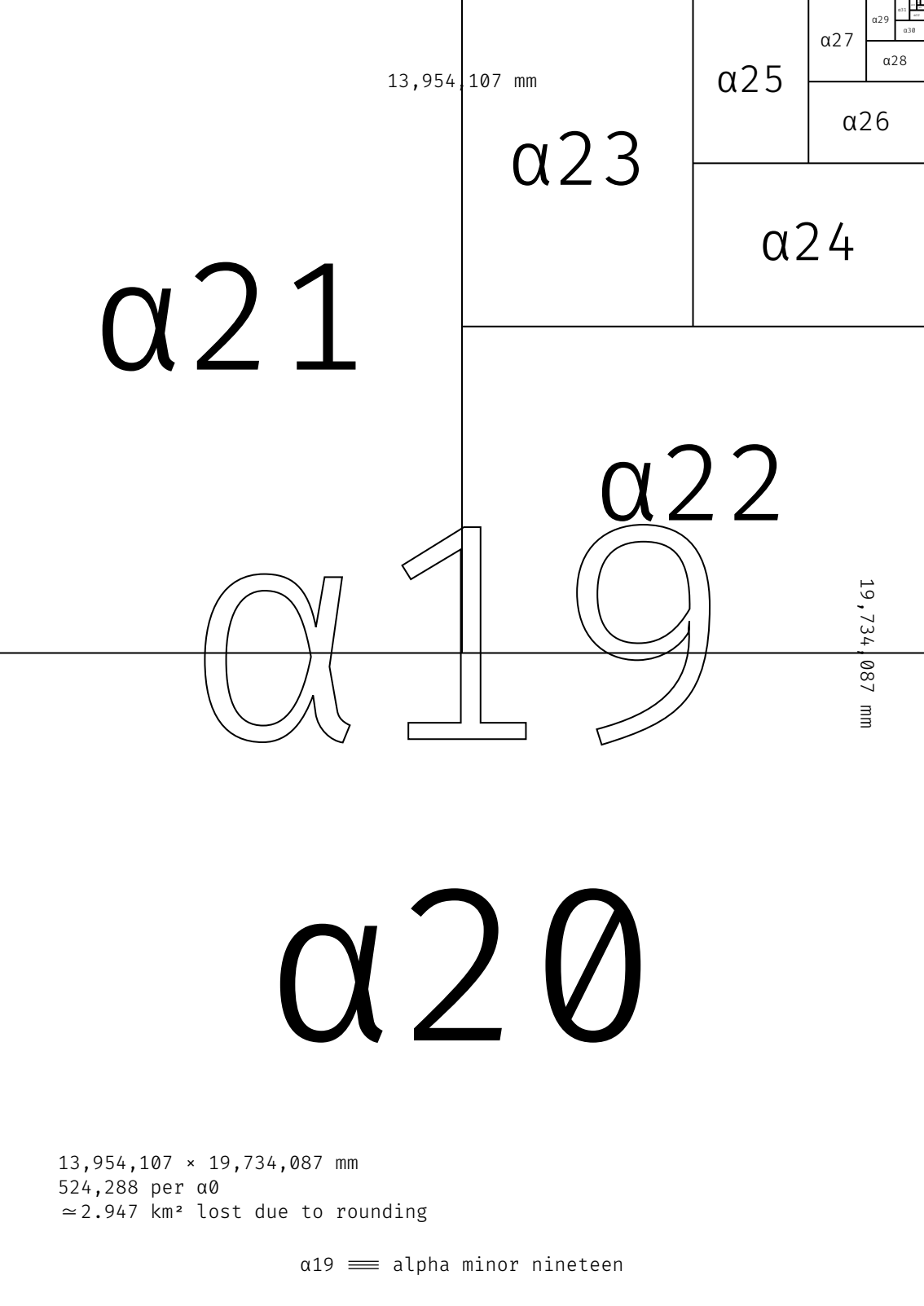
α19

19,734,087 × 27,908,214 mm

262,144 per α0

≈ 2.947 km² lost due to rounding

α18 ≡ alpha minor eighteen



13,954,107 mm

$\alpha 25$

$\alpha 27$

$\alpha 29$

$\alpha 30$

$\alpha 28$

$\alpha 26$

$\alpha 23$

$\alpha 24$

$\alpha 21$

$\alpha 22$

$\alpha 19$

19,734,087 mm

$\alpha 20$

13,954,107 × 19,734,087 mm

524,288 per $\alpha 0$

≈ 2.947 km² lost due to rounding

$\alpha 19 \equiv$ alpha minor nineteen

α30
α31

α28

α29

α26

α27

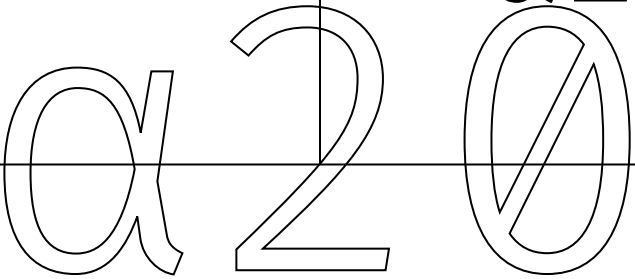
9,867,043 mm

α24

α25

α22

α23

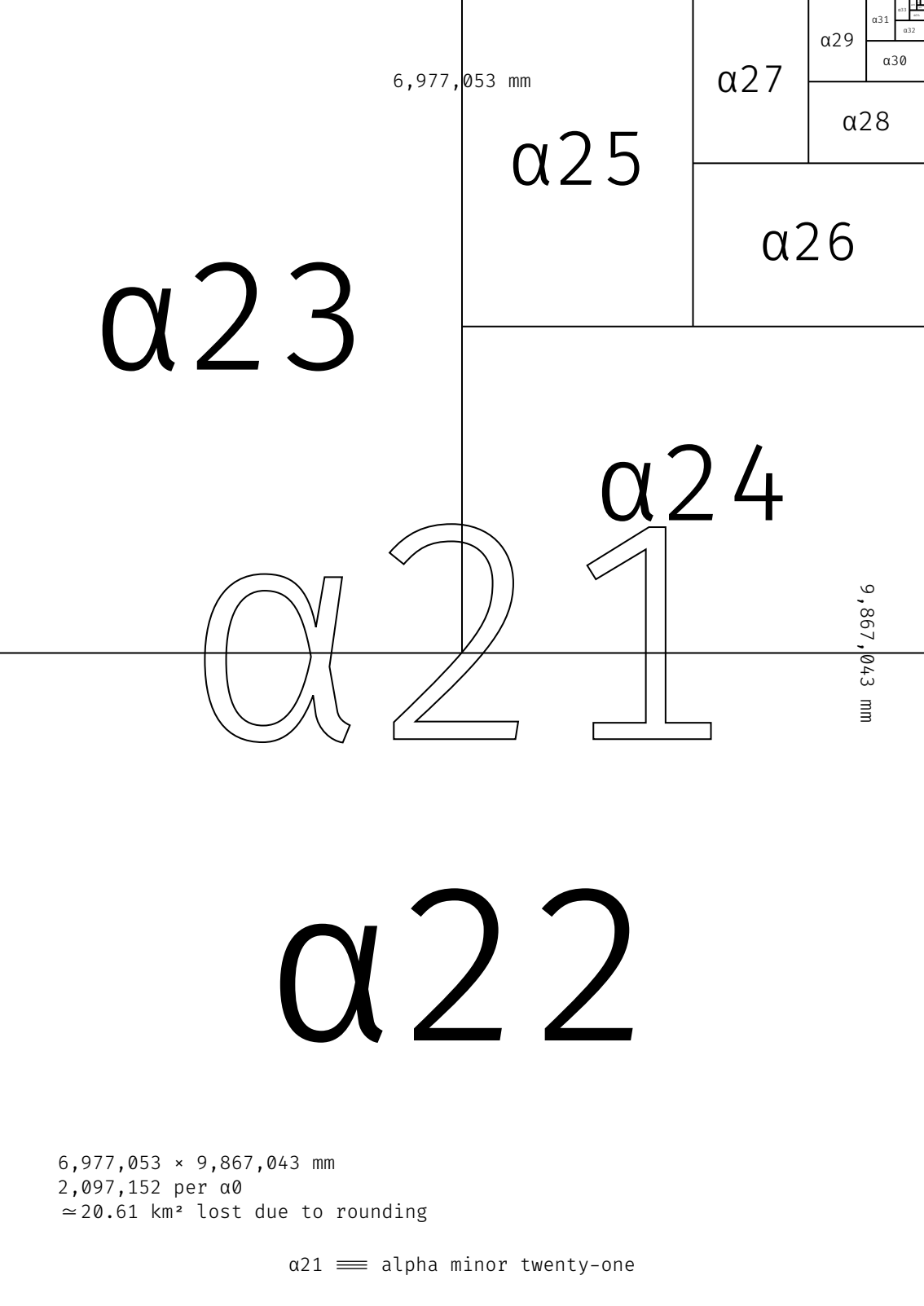


13,954,107 mm

α21

9,867,043 × 13,954,107 mm
1,048,576 per α0
≈ 10.263 km² lost due to rounding

α20 ≡ alpha minor twenty



6,977,053 mm

α27

α29

α31
α32

α30

α28

α25

α26

α23

α24

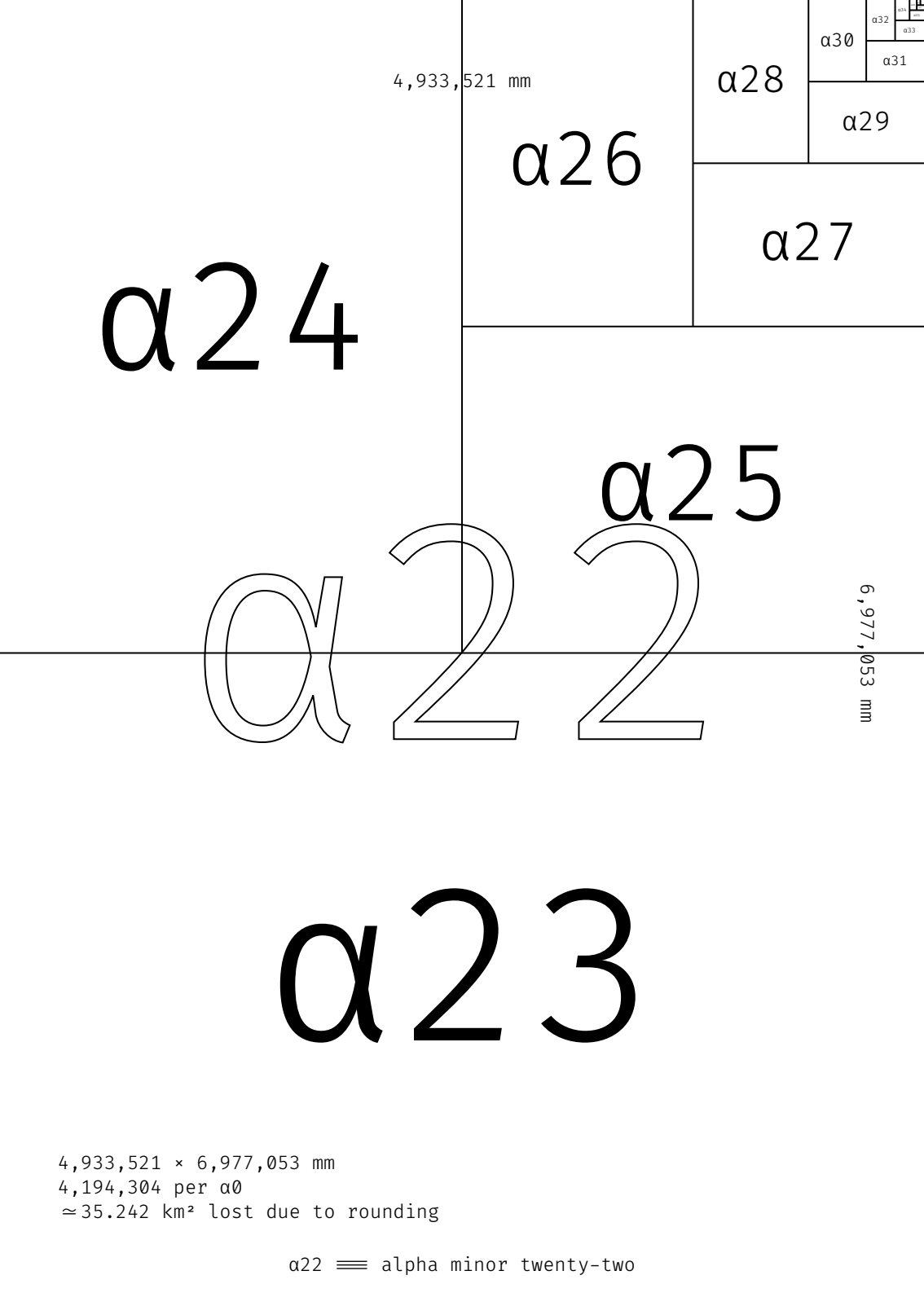
α21

9,867,043 mm

α22

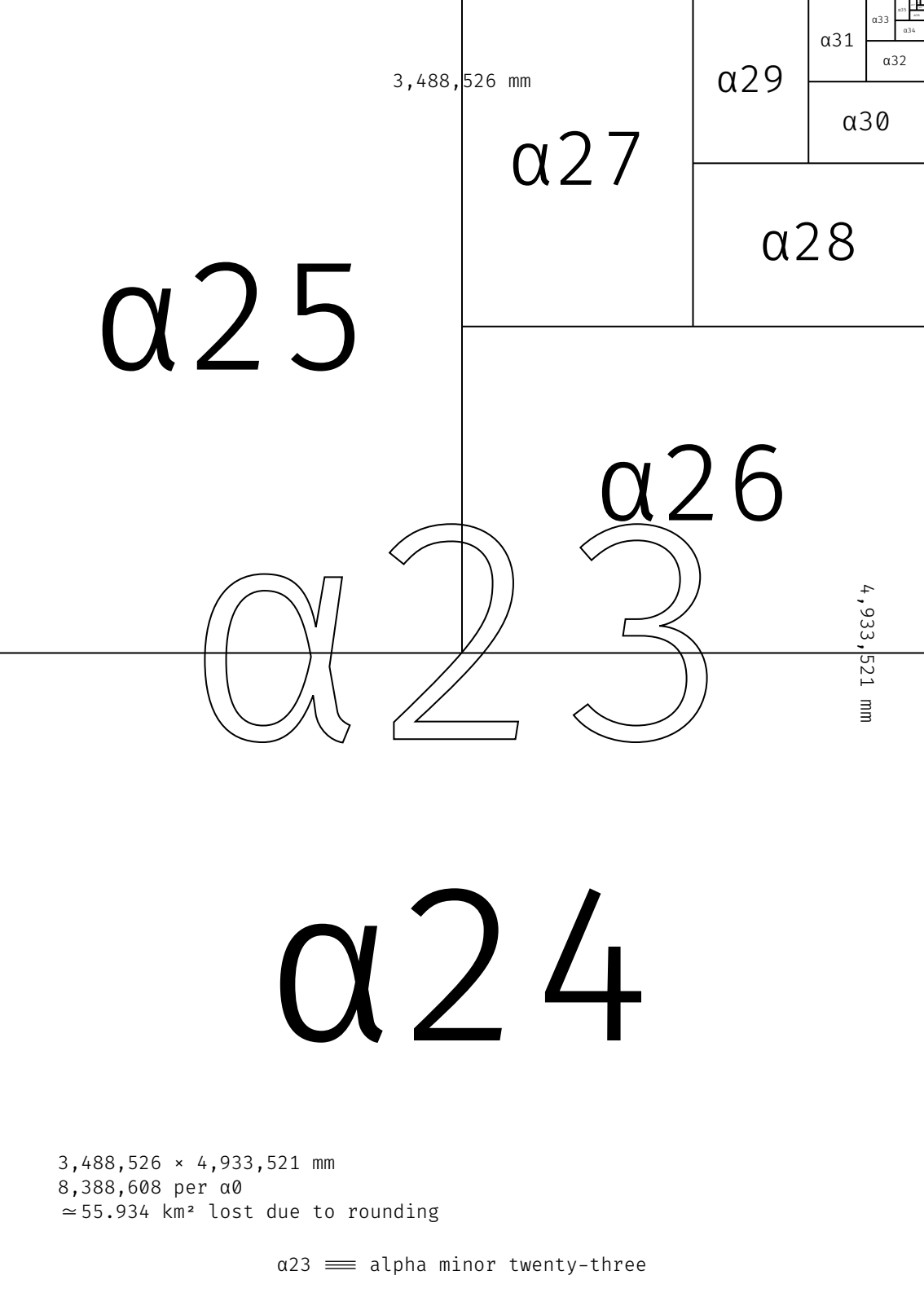
6,977,053 × 9,867,043 mm
 2,097,152 per α0
 ≈ 20.61 km² lost due to rounding

α21 ≡ alpha minor twenty-one



4,933,521 × 6,977,053 mm
4,194,304 per $\alpha 0$
 $\approx 35.242 \text{ km}^2$ lost due to rounding

$\alpha 22 \equiv$ alpha minor twenty-two



3,488,526 mm

$\alpha 29$

$\alpha 31$

$\alpha 33$

$\alpha 34$

$\alpha 32$

$\alpha 30$

$\alpha 27$

$\alpha 28$

$\alpha 25$

$\alpha 26$

$\alpha 23$

4,933,521 mm

$\alpha 24$

3,488,526 × 4,933,521 mm

8,388,608 per $\alpha 0$

≈ 55.934 km² lost due to rounding

$\alpha 23 \equiv$ alpha minor twenty-three

α26

2,466,760 mm

α28

α30

α32

α34

α35

α33

α31

α29

α27

α24

3,488,526 mm

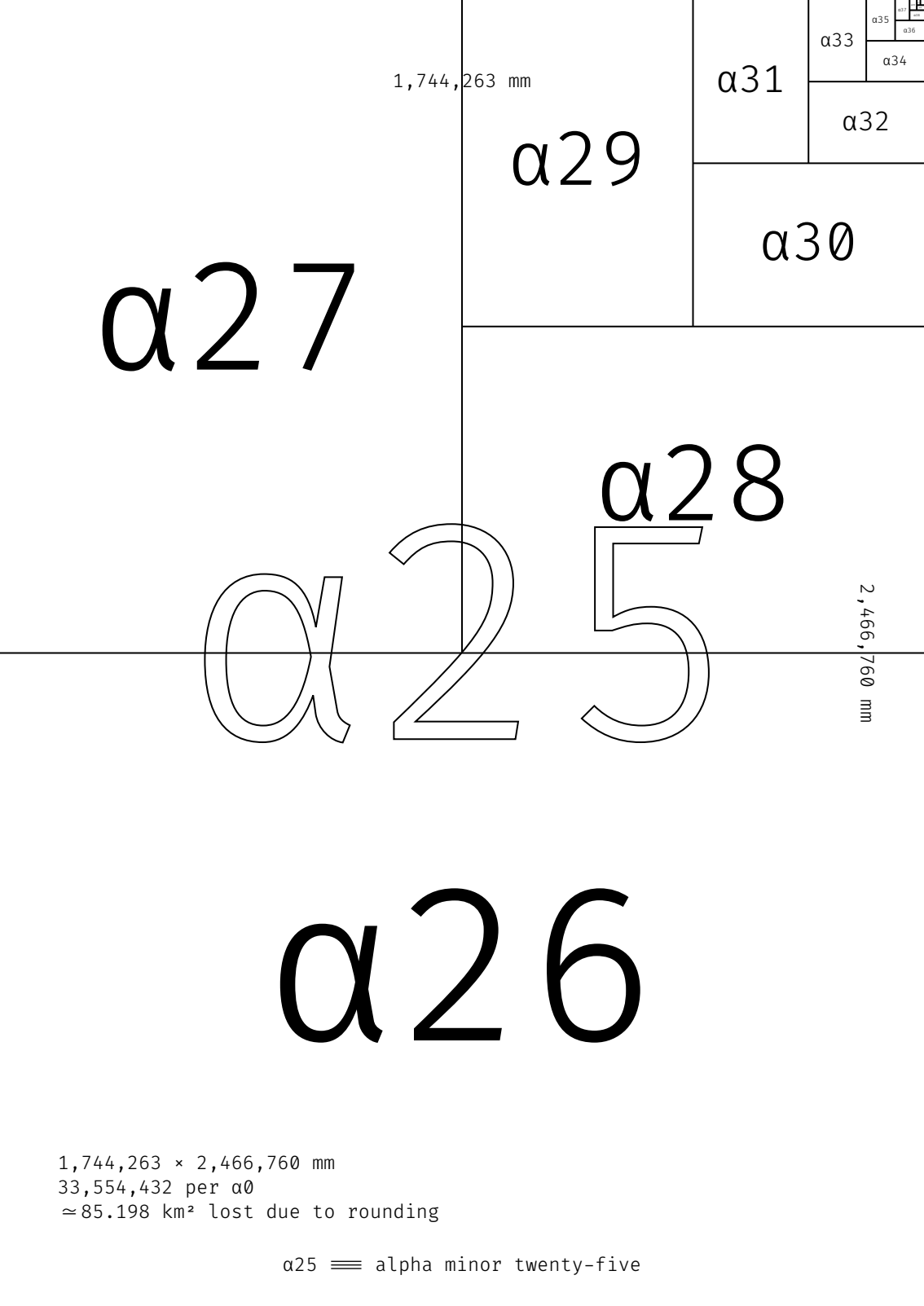
α25

2,466,760 × 3,488,526 mm

16,777,216 per α0

≈ 85.198 km² lost due to rounding

α24 ≡ alpha minor twenty-four



1,744,263 mm

alpha 33

alpha 35
alpha 36
alpha 37

alpha 34

alpha 31

alpha 32

alpha 29

alpha 30

alpha 27

alpha 28

alpha 25

2,466,760 mm

alpha 26

1,744,263 × 2,466,760 mm

33,554,432 per alpha 0

≈ 85.198 km² lost due to rounding

alpha 25 ≡ alpha minor twenty-five

α28

1,233,380 mm

α30

α32

α34

α36

α37

α35

α33

α31

α29

α26

1,744,263 mm

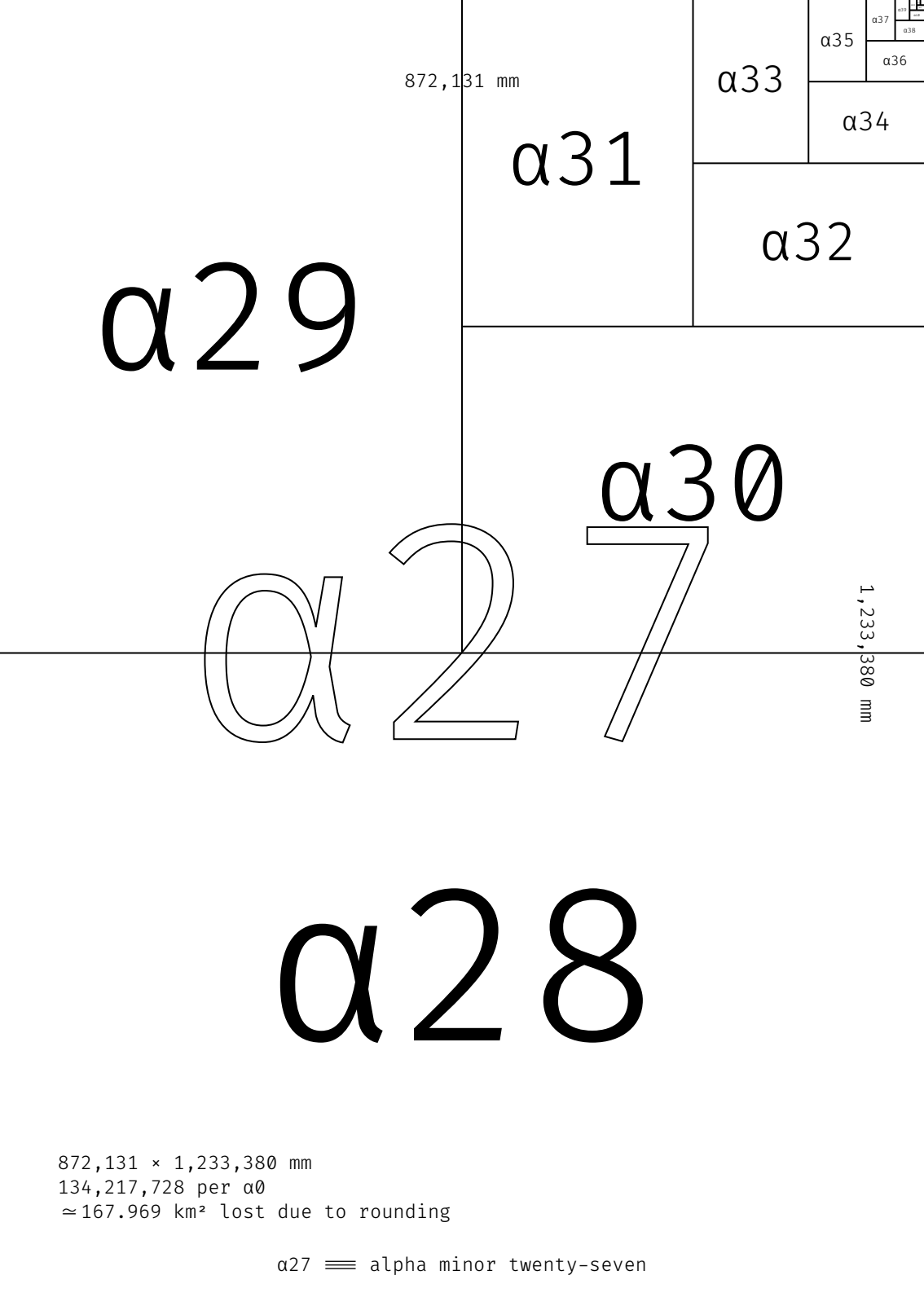
α27

1,233,380 × 1,744,263 mm

67,108,864 per α0

≈ 85.198 km² lost due to rounding

α26 ≡ alpha minor twenty-six



872,131 mm

α35

α37
α38

α36

α33

α34

α31

α32

α29

α30

α27

1,233,380 mm

α28

872,131 × 1,233,380 mm

134,217,728 per α0

≈ 167.969 km² lost due to rounding

α27 ≡ alpha minor twenty-seven

α30

616,690 mm

α32

α34

α36

α38

α39

α37

α35

α33

α31

α28

872,131 mm

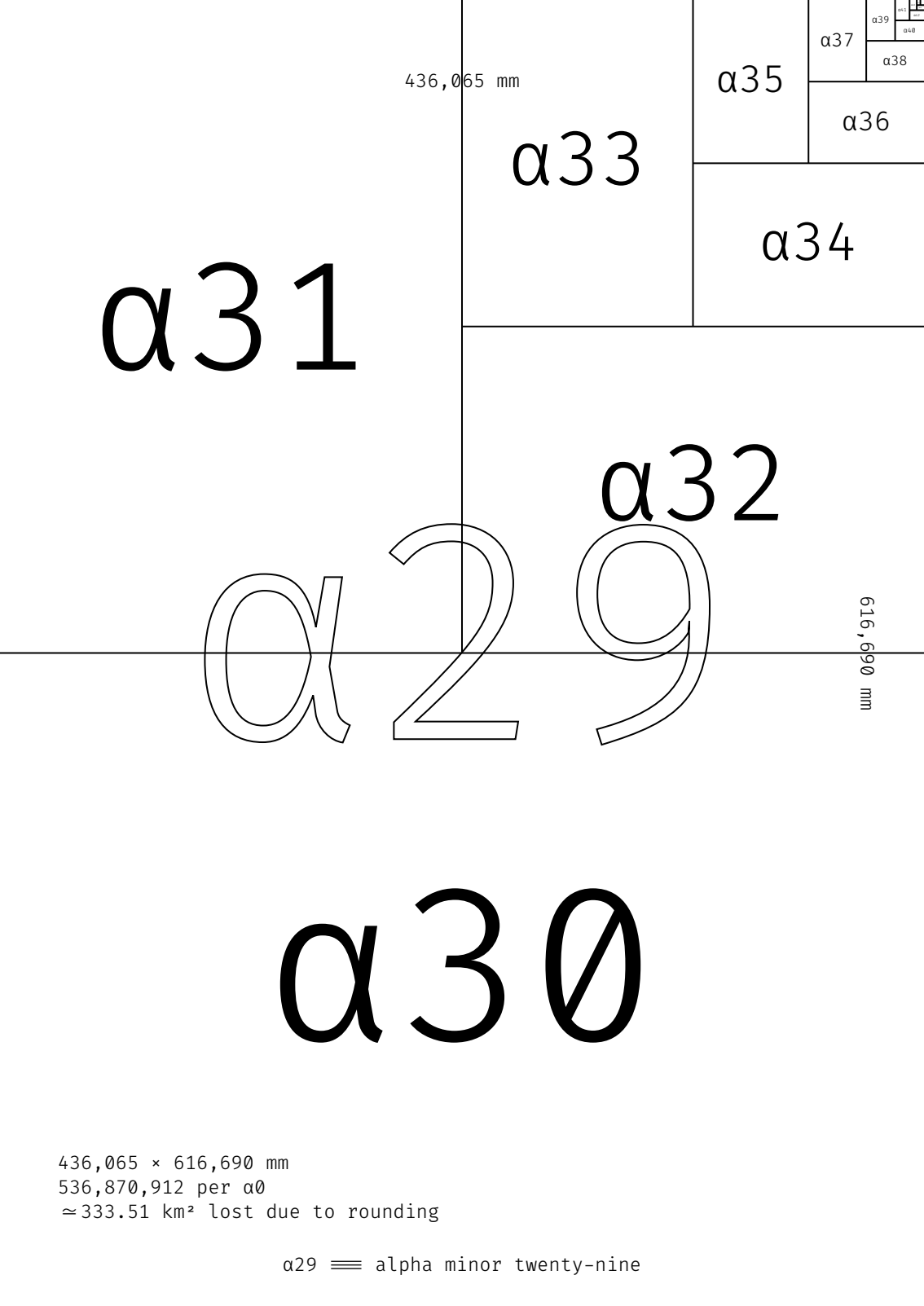
α29

616,690 × 872,131 mm

268,435,456 per α0

≈ 167.969 km² lost due to rounding

α28 ≡ alpha minor twenty-eight



436,065 mm

α35

α37

α39

α38

α36

α33

α34

α31

α32

α29

616,690 mm

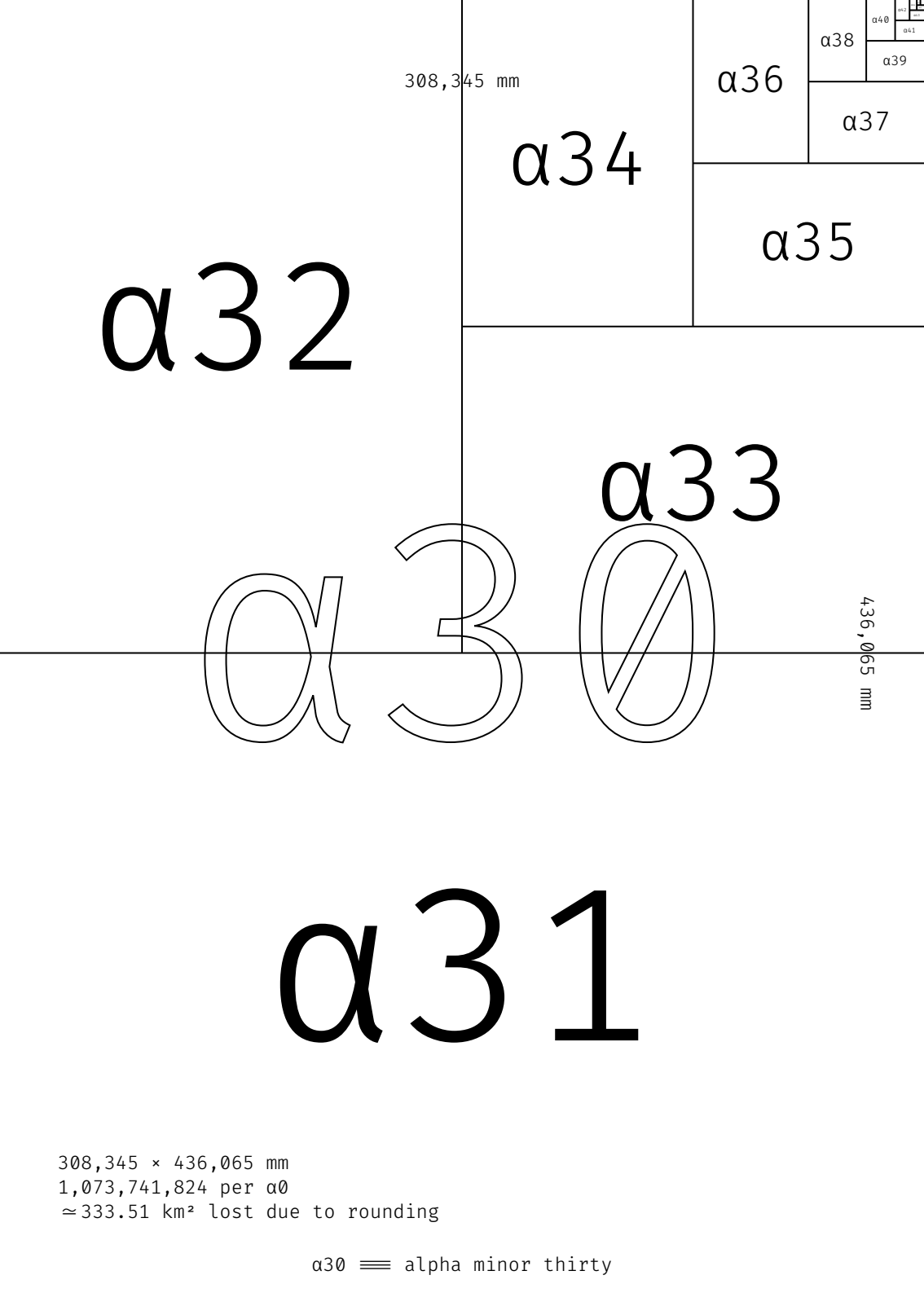
α30

436,065 × 616,690 mm

536,870,912 per α0

≈ 333.51 km² lost due to rounding

α29 ≡ alpha minor twenty-nine



308,345 mm

α38

α40
α41

α39

α36

α37

α34

α35

α32

α33

α30

436,065 mm

α31

308,345 × 436,065 mm

1,073,741,824 per α0

≈ 333.51 km² lost due to rounding

α30 ≡ alpha minor thirty

218,032 mm

α37

α39

α41

α42

α40

α38

α35

α36

α33

α34

α33 1

308,345 mm

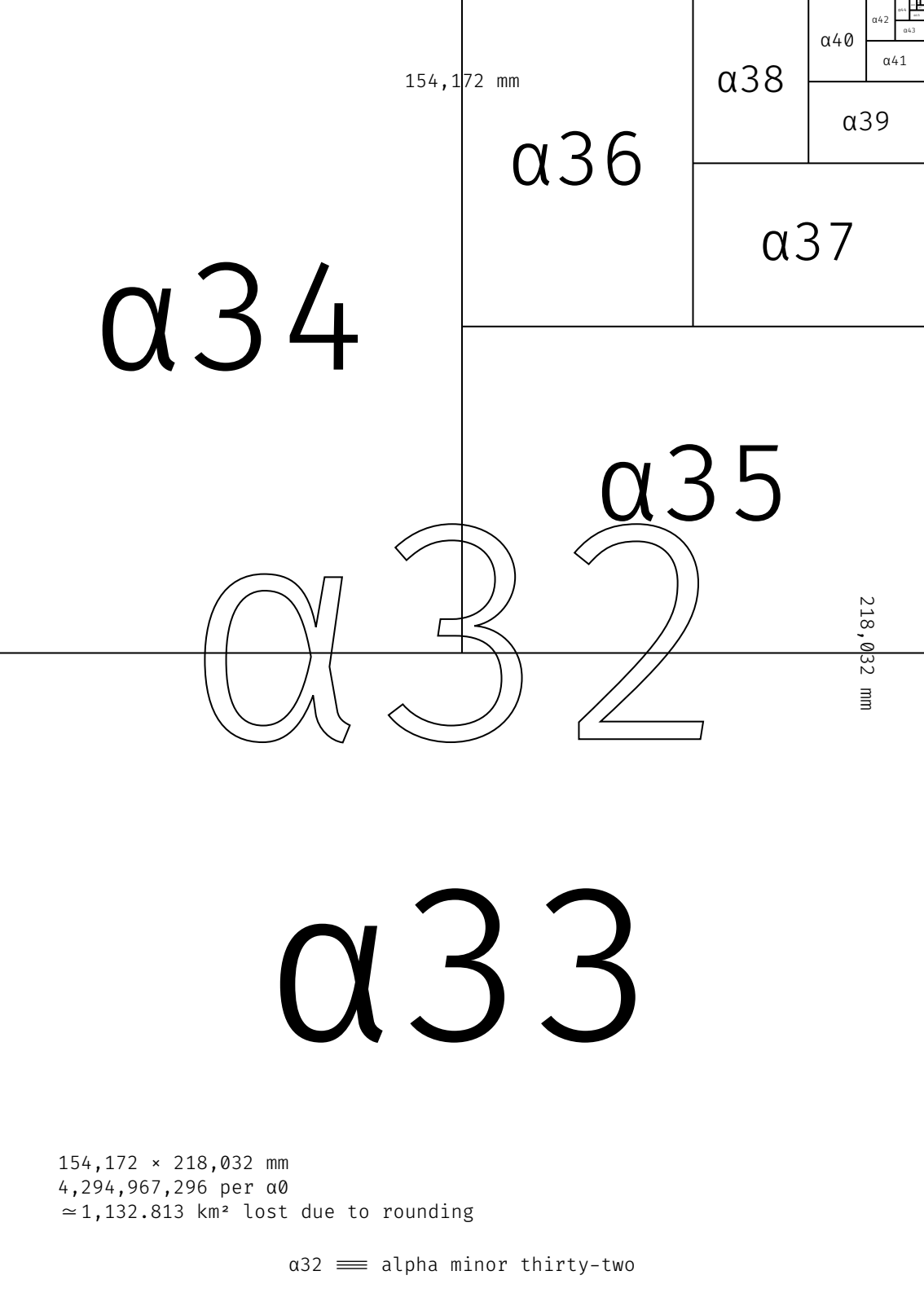
α32

218,032 × 308,345 mm

2,147,483,648 per α0

≈ 664.593 km² lost due to rounding

α31 ≡ alpha minor thirty-one



154,172 mm

alpha 40

alpha 42

alpha 43

alpha 41

alpha 38

alpha 39

alpha 36

alpha 37

alpha 34

alpha 35

alpha 33 2

218,032 mm

alpha 33

154,172 × 218,032 mm

4,294,967,296 per alpha 0

≈ 1,132.813 km² lost due to rounding

alpha 32 ≡ alpha minor thirty-two

109,016 mm

α39

α41

α42

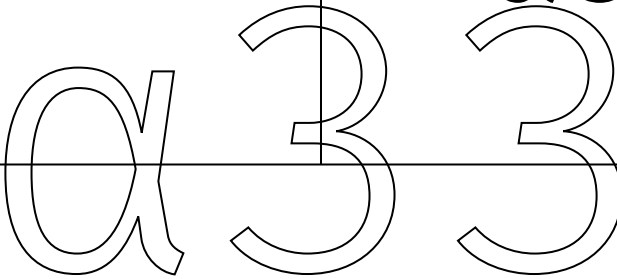
α40

α37

α38

α35

α36



154,172 mm

α34

109,016 × 154,172 mm

8,589,934,592 per α0

≈ 1,132.813 km² lost due to rounding

α33 ≡ alpha minor thirty-three

α36

77,086 mm

α38

α40

α42

α44

α45

α43

α41

α39

α37

α33 4

109,016 mm

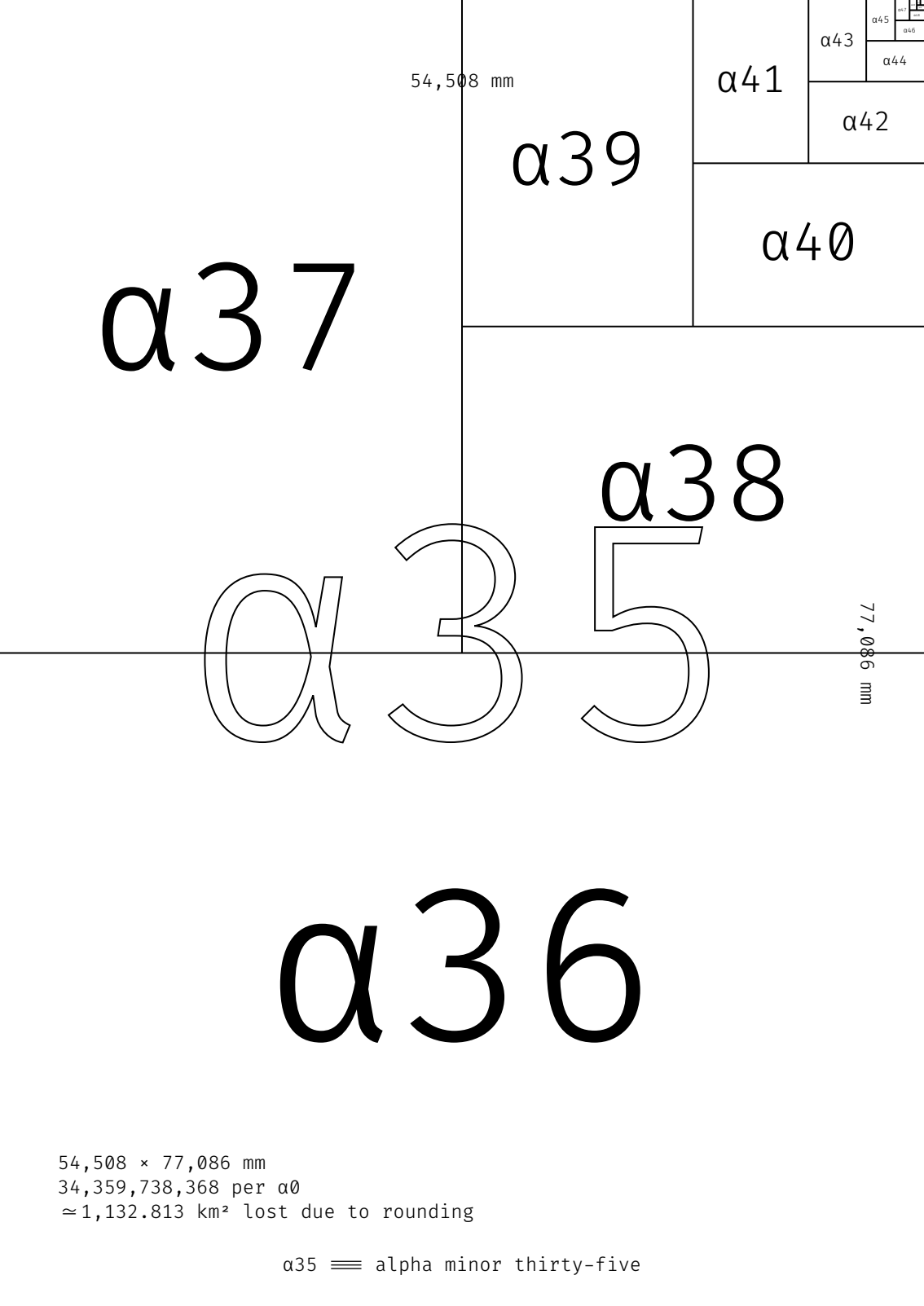
α35

77,086 × 109,016 mm

17,179,869,184 per α0

≈ 1,132.813 km² lost due to rounding

α34 ≡ alpha minor thirty-four



54,508 mm

$\alpha 41$

$\alpha 43$

$\alpha 45$

$\alpha 46$

$\alpha 44$

$\alpha 42$

$\alpha 39$

$\alpha 40$

$\alpha 37$

$\alpha 38$

$\alpha 35$

77,086 mm

$\alpha 36$

54,508 × 77,086 mm

34,359,738,368 per $\alpha 0$

≈ 1,132.813 km² lost due to rounding

$\alpha 35 \equiv$ alpha minor thirty-five

α38

38,543 mm

α40

α42

α44

α46

α47

α45

α43

α41

α39

α336

54,508 mm

α37

38,543 × 54,508 mm

68,719,476,736 per α0

≈ 1,132.813 km² lost due to rounding

α36 ≡ alpha minor thirty-six

α39

27,254 mm

α41

α43

α45

α47
α48

α46

α44

α42

α40

α33 7

38,543 mm

α38

27,254 × 38,543 mm

137,438,953,472 per α0

≈ 1,132.813 km² lost due to rounding

α37 ≡ alpha minor thirty-seven

α40

19,271 mm

α42

α44

α46

α48

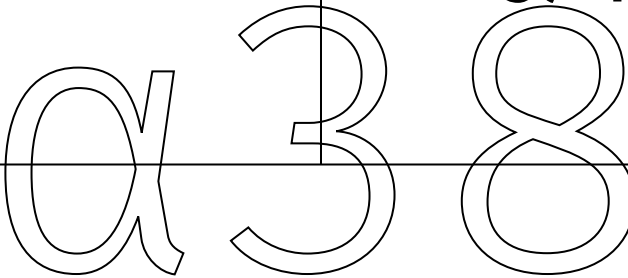
α49

α47

α45

α43

α41



27,254 mm

α39

19,271 × 27,254 mm

274,877,906,944 per α0

≈ 4,878.575 km² lost due to rounding

α38 ≡ alpha minor thirty-eight

α41

13,627 mm

α43

α45

α47

α49

α50

α48

α46

α44

α42

α39

19,271 mm

α40

13,627 × 19,271 mm

549,755,813,888 per α0

≈ 4,878.575 km² lost due to rounding

α39 ≡ alpha minor thirty-nine

α50
α51

α48

α49

9,635 mm

α46

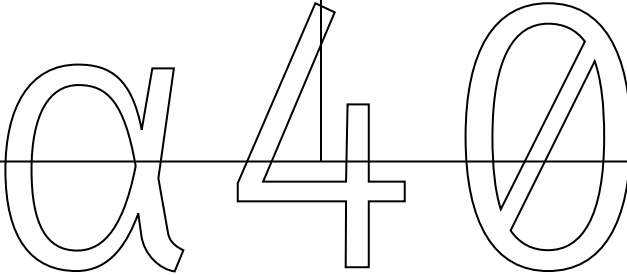
α47

α44

α45

α42

α43



13,627 mm

α41

9,635 × 13,627 mm

1,099,511,627,776 per α0

≈ 12,370.097 km² lost due to rounding

α40 ≡ alpha minor forty

α43

6,813 mm

α45

α47

α49

α51

α52

α50

α48

α46

α44

α441

9,635 mm

α42

6,813 × 9,635 mm

2,199,023,255,552 per α0

≈ 22,963.892 km² lost due to rounding

α41 ≡ alpha minor forty-one

α44

4,817 mm

α46

α48

α50

α52
α53

α51

α49

α47

α45

α44 2

6,813 mm

α43

4,817 × 6,813 mm

4,398,046,511,104 per α0

≈ 37,945.837 km² lost due to rounding

α42 ≡ alpha minor forty-two

α45

3,406 mm

α47

α49

α51

α53

α54

α52

α50

α48

α46

α44 3

4,817 mm

α44

3,406 × 4,817 mm

8,796,093,022,208 per α0

≈ 59,131.227 km² lost due to rounding

α43 ≡ alpha minor forty-three

α46

2,408 mm

α48

α50

α52

α54

α55

α53

α51

α49

α47

α

4

4

3,406 mm

α45

2,408 × 3,406 mm

17,592,186,044,416 per α0

≈ 89,090.72 km² lost due to rounding

α44 ≡ alpha minor forty-four

α47

1,703 mm

α49

α51

α53

α55

α56

α54

α52

α50

α48

α445

2,408 mm

α46

1,703 × 2,408 mm

35,184,372,088,832 per α0

≈ 89,090.72 km² lost due to rounding

α45 ≡ alpha minor forty-five

α48

1,204 mm

α50

α52

α54

α56

α57

α55

α53

α51

α49

α46

1,703 mm

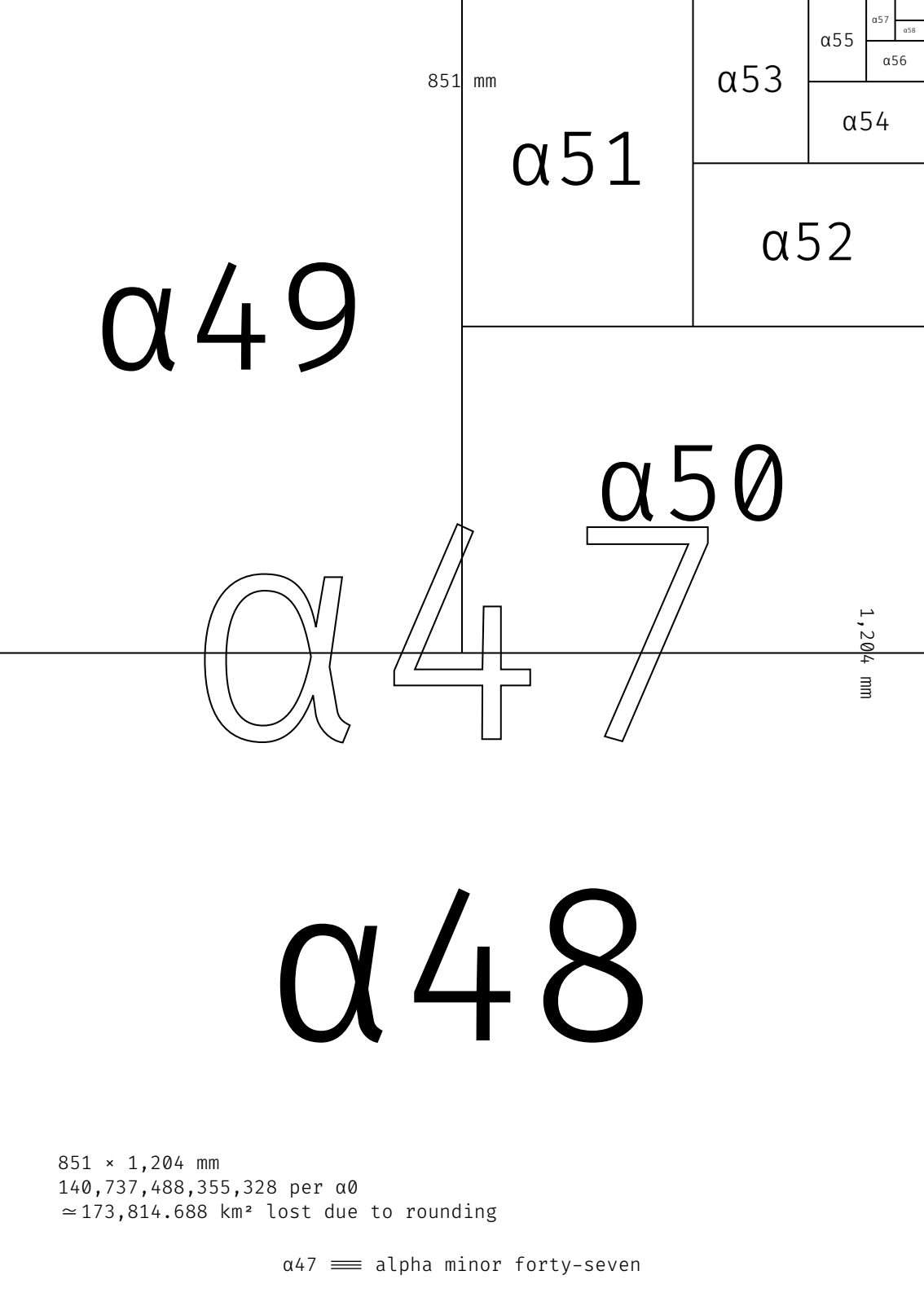
α47

1,204 × 1,703 mm

70,368,744,177,664 per α0

≈ 89,090.72 km² lost due to rounding

α46 ≡ alpha minor forty-six



851 mm

α55

α57

α58

α56

α53

α54

α51

α52

α49

α50

α

4

7

1,204 mm

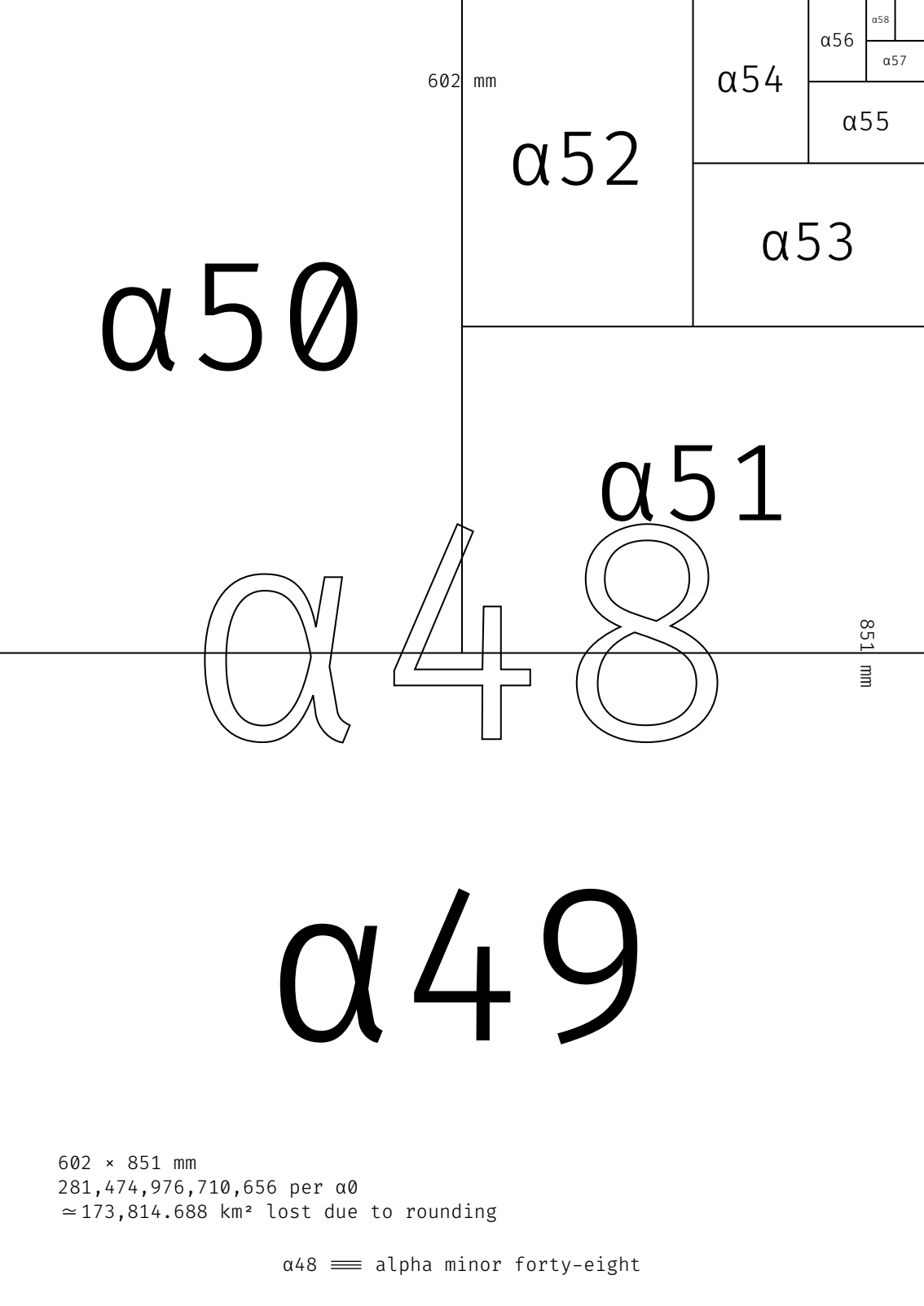
α48

851 × 1,204 mm

140,737,488,355,328 per α0

≈ 173,814.688 km² lost due to rounding

α47 ≡ alpha minor forty-seven



α50

602 mm

α52

α54

α56

α58

α57

α55

α53

α51

α48

851 mm

α49

602 × 851 mm

281,474,976,710,656 per α0

≈ 173,814.688 km² lost due to rounding

α48 ≡ alpha minor forty-eight

α51

425 mm

α53

α55

α57

α58

α56

α54

α52

α49

602 mm

α50

425 × 602 mm

562,949,953,421,312 per α0

≈ 343,262.624 km² lost due to rounding

α49 ≡ alpha minor forty-nine

α52

301 mm

α54

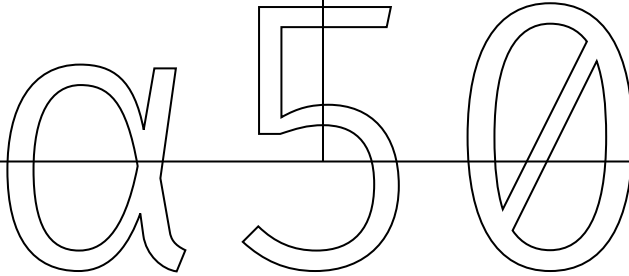
α56

α58

α57

α55

α53



425 mm

α51

301 × 425 mm

1,125,899,906,842,624 per α0

≈ 343,262.624 km² lost due to rounding

α50 ≡ alpha minor fifty

α53

212 mm

α55

α57

α58

α56

α54

α51

301 mm

α52

212 × 301 mm

2,251,799,813,685,248 per α0

≈ 682,158.496 km² lost due to rounding

α51 ≡ alpha minor fifty-one

α54

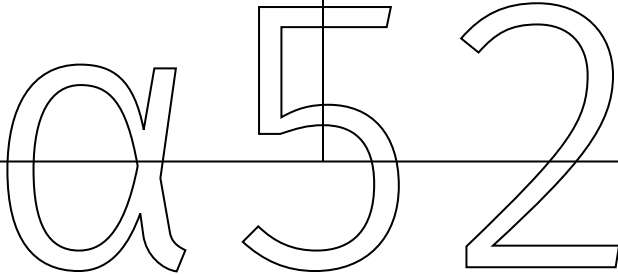
150 mm

α56

α58

α57

α55



212 mm

α53

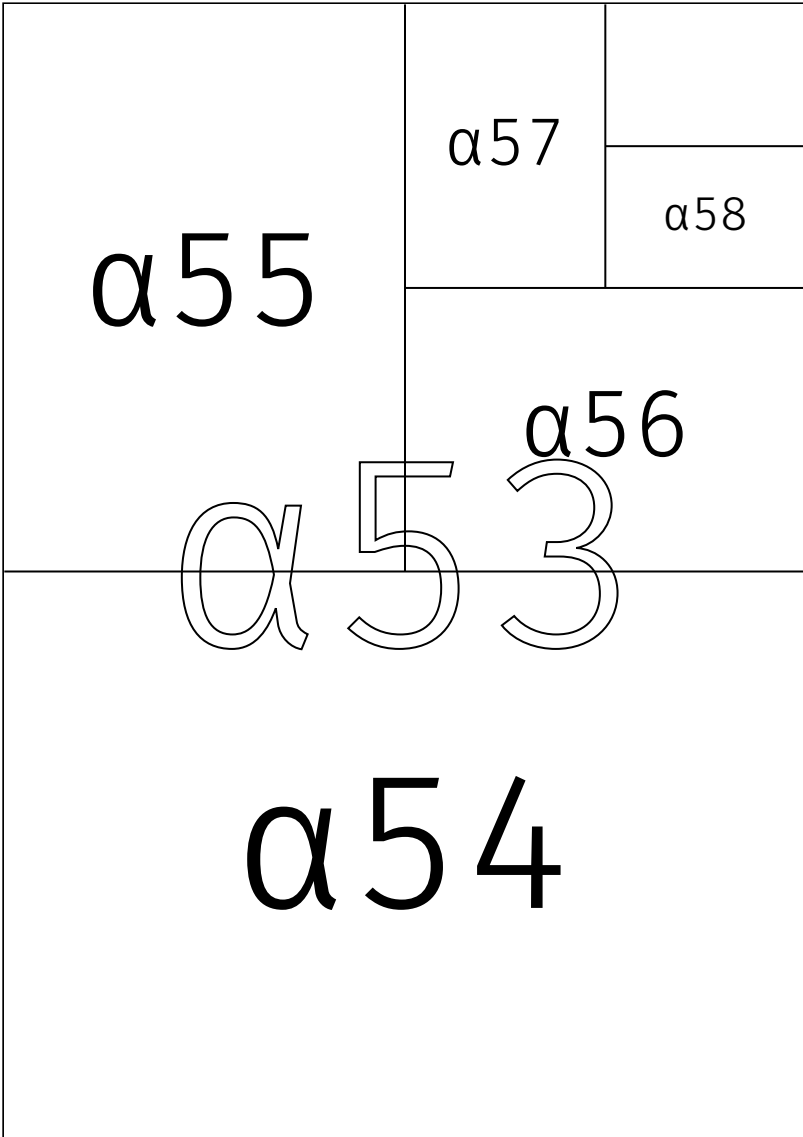
150 × 212 mm

4,503,599,627,370,496 per α0

≈ 1,159,540.056 km² lost due to rounding

α52 ≡ alpha minor fifty-two

106 mm



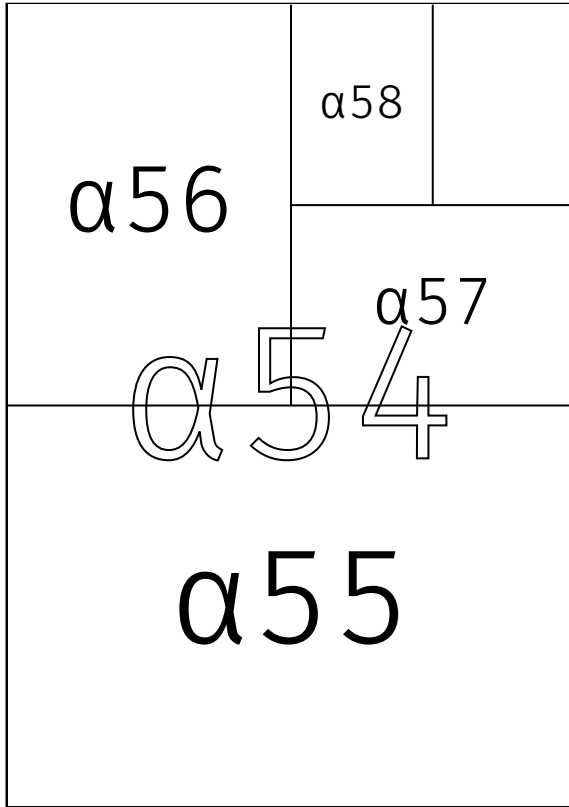
106 × 150 mm

9,007,199,254,740,992 per α0

≈ 1,159,540.056 km² lost due to rounding

α53 ≡ alpha minor fifty-three

75 mm



106 mm

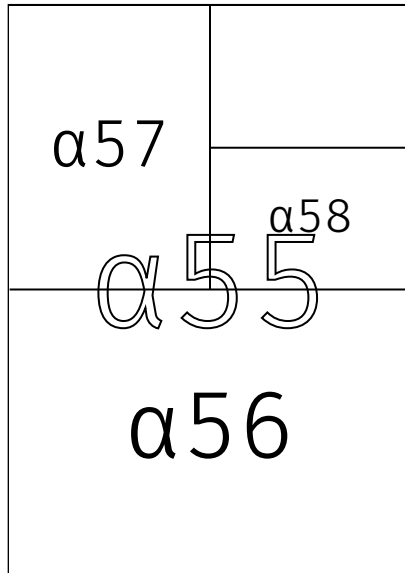
75 × 106 mm

18,014,398,509,481,984 per $\alpha 0$

$\approx 1,159,540.056 \text{ km}^2$ lost due to rounding

$\alpha 54 \equiv$ alpha minor fifty-four

53 mm



75 mm

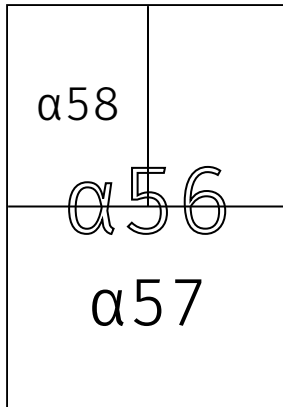
53 × 75 mm

36,028,797,018,963,968 per $\alpha 0$

$\approx 1,159,540.056 \text{ km}^2$ lost due to rounding

$\alpha 55 \equiv$ alpha minor fifty-five

37 mm



53 mm

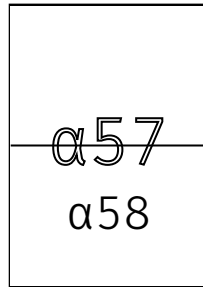
37 × 53 mm

72,057,594,037,927,936 per α0

≈ 3,069,066.298 km² lost due to rounding

α56 ≡ alpha minor fifty-six

26 mm



37 mm

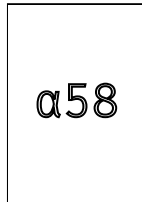
26 × 37 mm

144,115,188,075,855,872 per α0

≈ 5,735,197.278 km² lost due to rounding

α57 ≡ alpha minor fifty-seven

18 mm



26 mm

18 × 26 mm

288,230,376,151,711,744 per α0

≈ 9,482,192.168 km² lost due to rounding

α58 ≡ alpha minor fifty-eight