

StairDesigner

Graham

graham01v02

Scale : 1/20

Multi-Flight Stair

Risers : 16

Floor Height : 128 7/8"

Riser Height

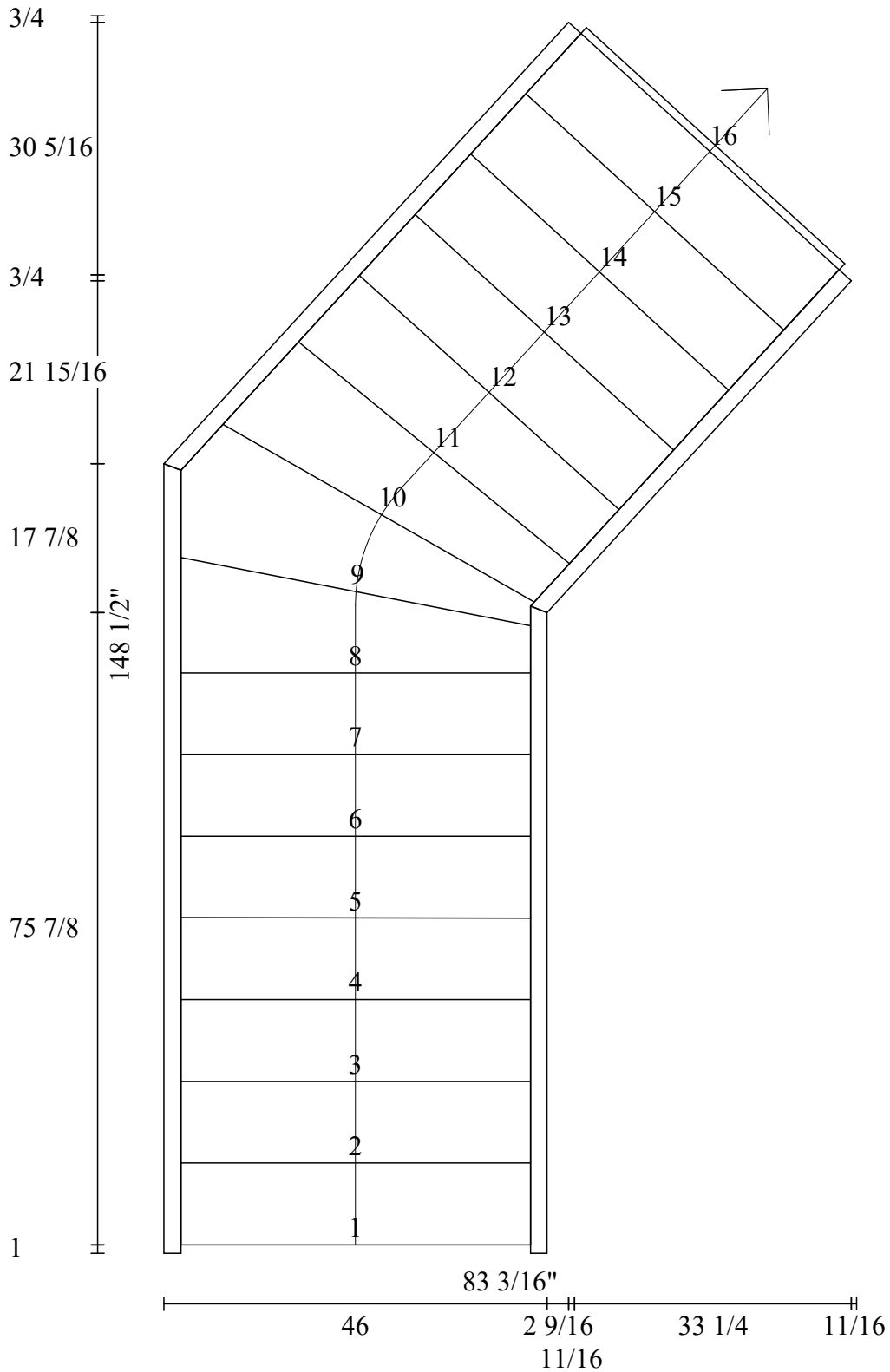
: 8 1/16"

Tread Width

: 9 13/16"

Stair Rule

: 25 15/16"



StairDesigner
Step : 1

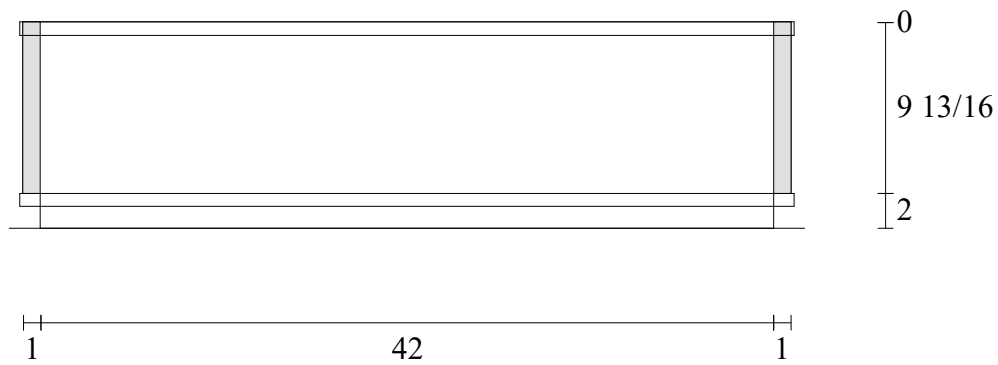
Graham

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Scale : 1/11

Step : 44 x 11 13/16

Riser

Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : 0.00



StairDesigner
Step : 2

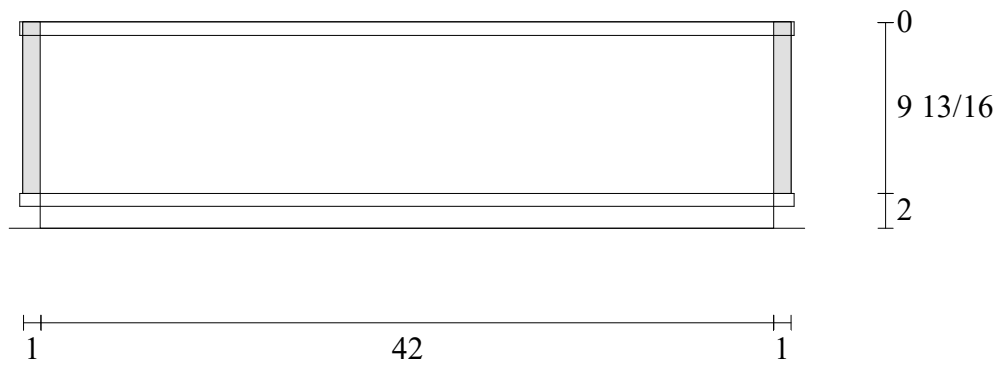
Graham

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Scale : 1/11

Step : 44 x 11 13/16

Riser

Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : 0.00



StairDesigner
Step : 3

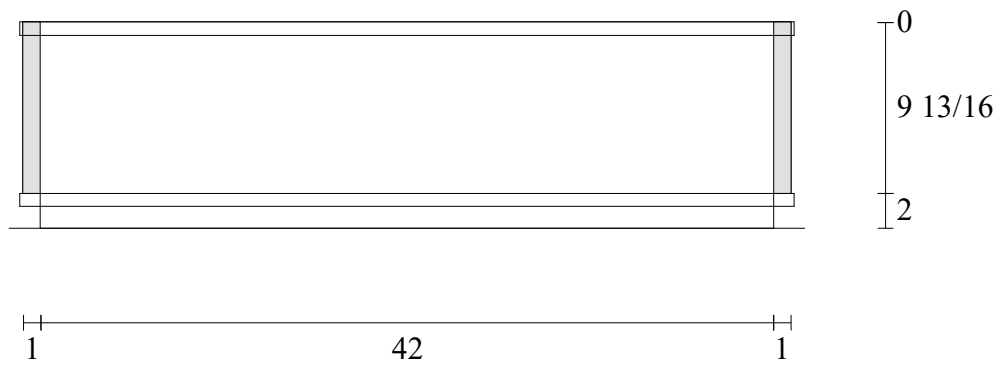
Graham

graham01v02
Scale : 1/11

Step : 44 x 11 13/16

Riser

Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : 0.01



StairDesigner
Step : 4

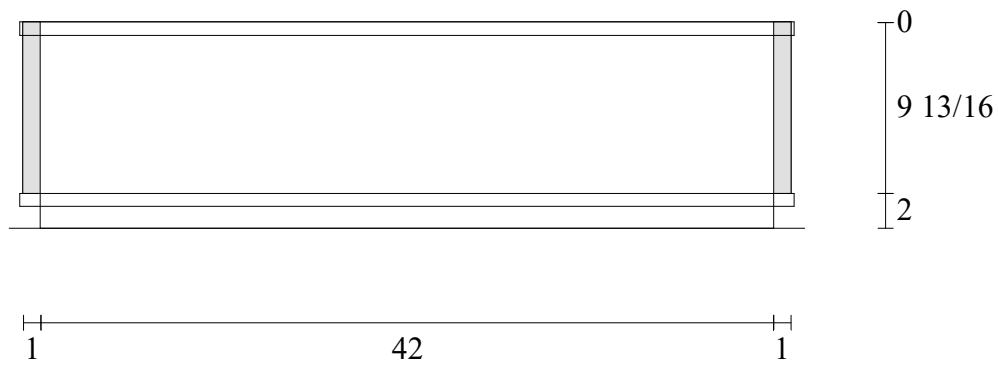
Graham

graham01v02
Scale : 1/11

Step : 44 x 11 13/16

Riser

Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : 0.01



StairDesigner
Step : 5

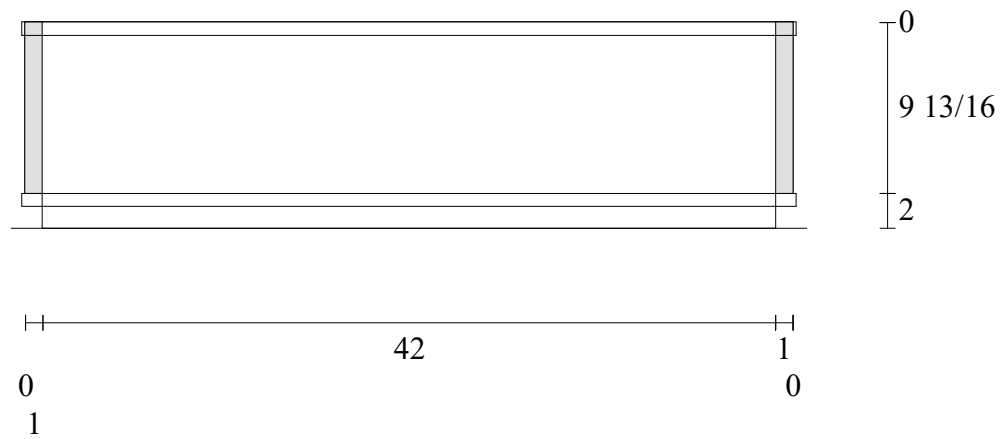
Graham

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Scale : 1/11

Step : 44 x 11 13/16

Riser

Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : 0.01



StairDesigner
Step : 6

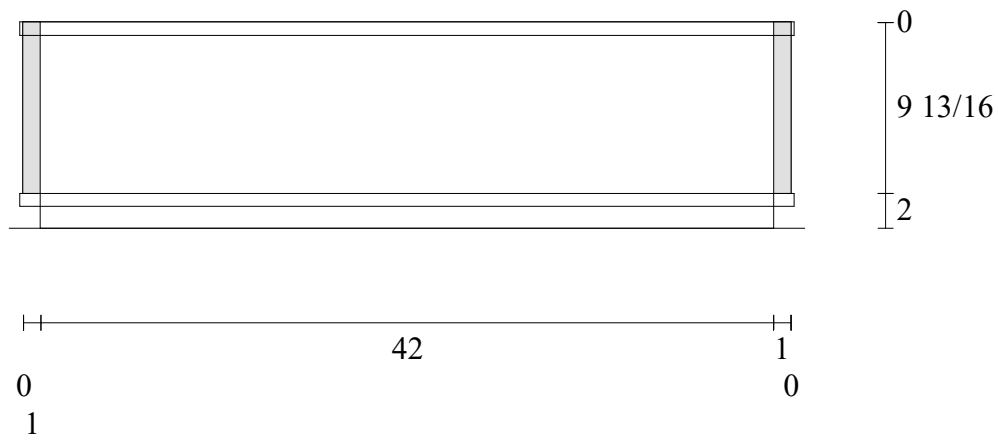
Graham

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Scale : 1/11

Step : 44 x 11 13/16

Riser

Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : 0.02



StairDesigner
Step : 7

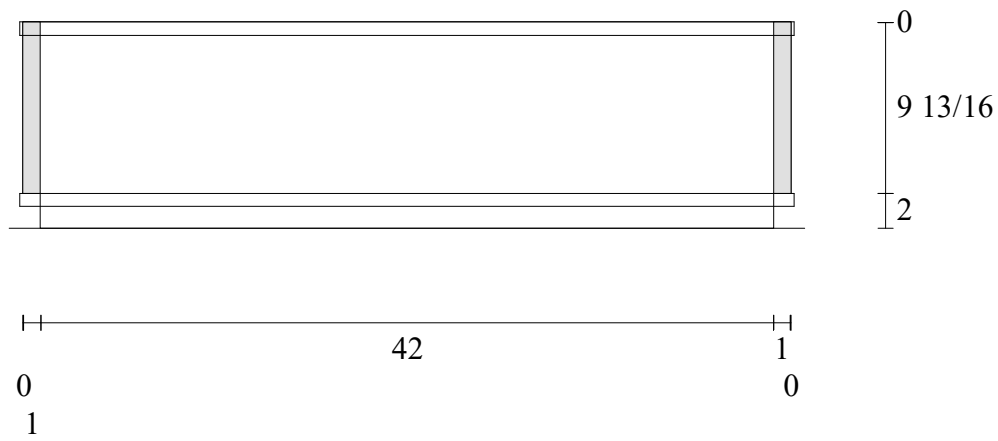
Graham

graham01v02
Scale : 1/11

Step : 44 x 11 13/16

Riser

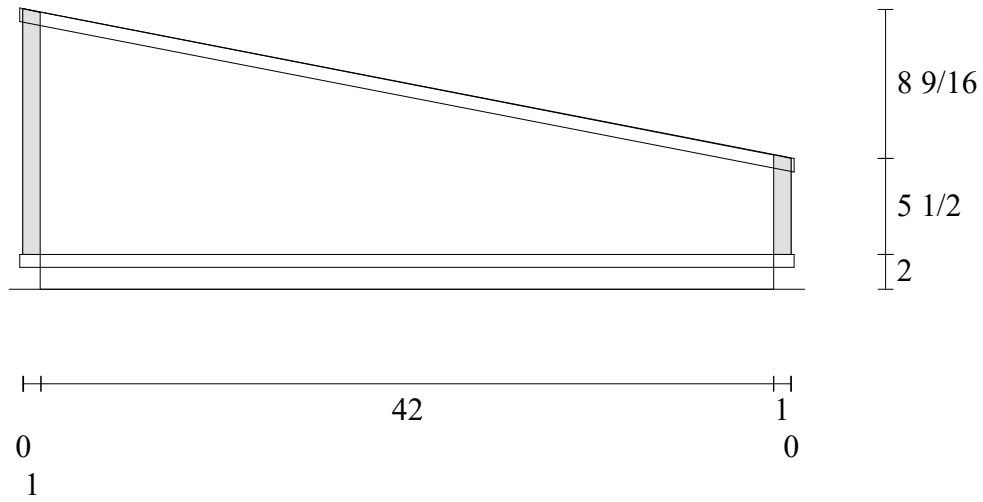
Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : 0.02



Step : 44 x 16 1/16

Riser

Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : 0.03



StairDesigner
Step : 9

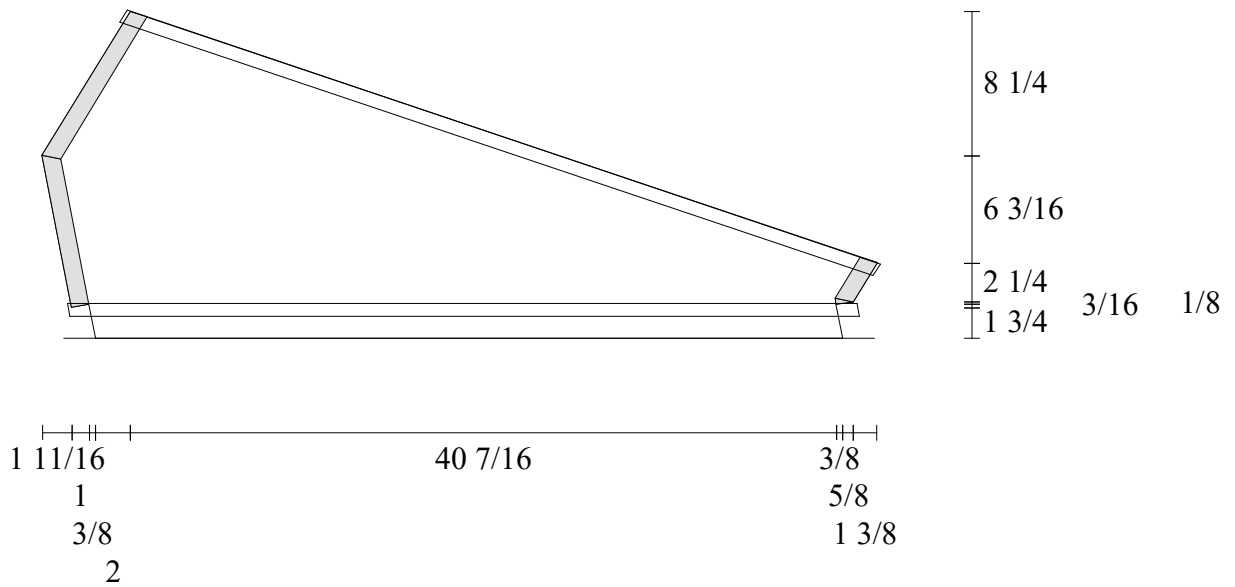
Graham

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Scale : 1/11

Step : $47 \frac{13}{16} \times 18 \frac{11}{16}$

Riser

Width : $45 \frac{3}{8}$ Height : $6 \frac{1}{16}$ Thickness : $\frac{3}{4}$ Angle : 11.02



StairDesigner
Step : 10

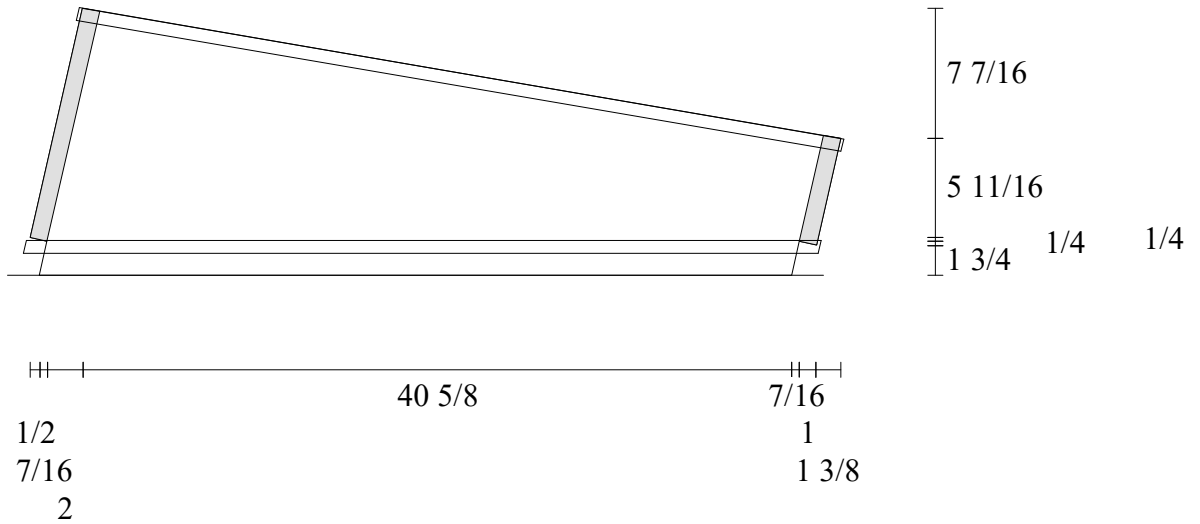
Graham

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Scale : 1/11

Step : 46 $\frac{7}{16}$ x 15 $\frac{5}{16}$

Riser

Width : 45 $\frac{11}{16}$ Height : 6 $\frac{1}{16}$ Thickness : $\frac{3}{4}$ Angle : -12.87



StairDesigner
Step : 11

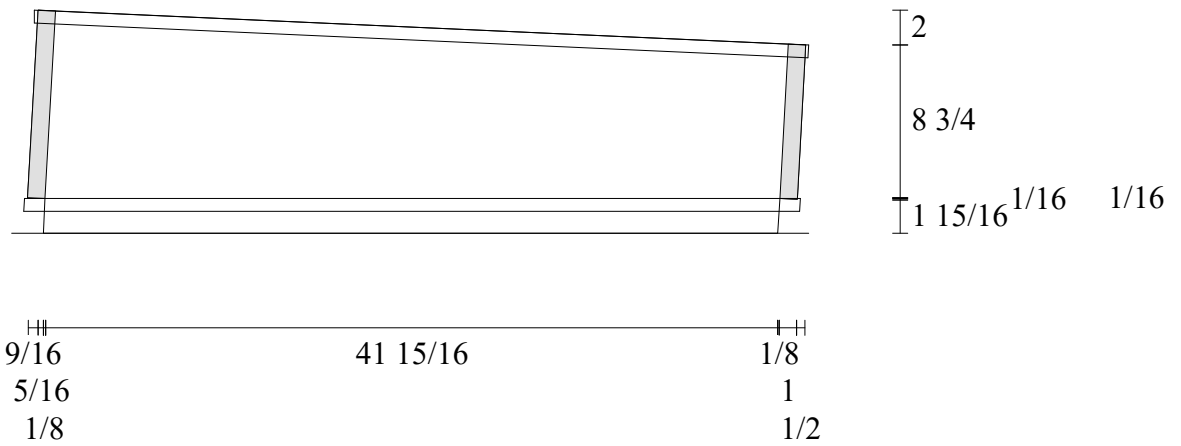
Graham

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Scale : 1/11

Step : 44 $9/16$ x $12\ 13/16$

Riser

Width : $44\ 1/2$ Height : $6\ 1/16$ Thickness : $3/4$ Angle : -3.14



StairDesigner
Step : 12

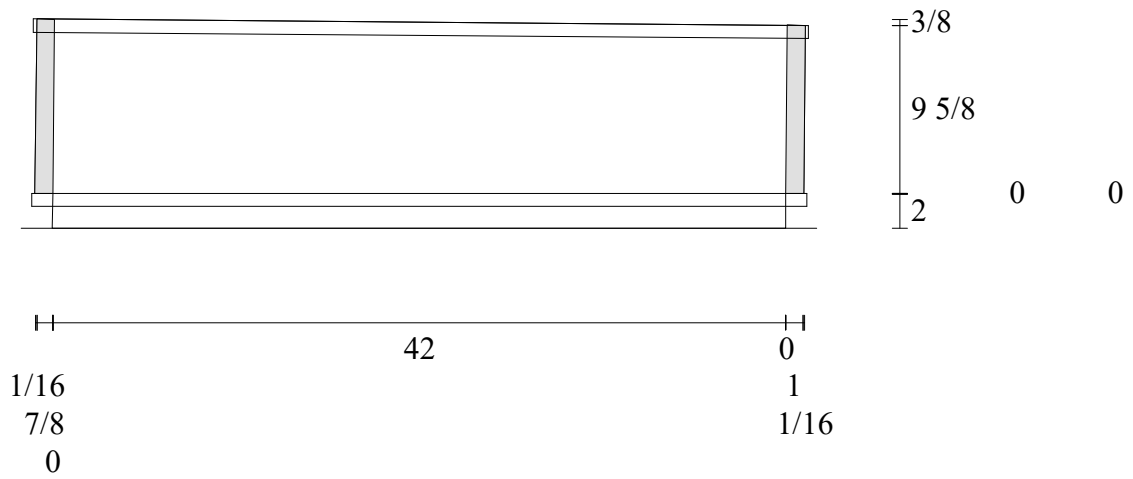
Graham

graham01v02
Scale : 1/11

Step : 44 $\frac{1}{16}$ x 12

Riser

Width : 44 $\frac{3}{8}$ Height : 6 $\frac{1}{16}$ Thickness : $\frac{3}{4}$ Angle : -0.53



StairDesigner
Step : 13

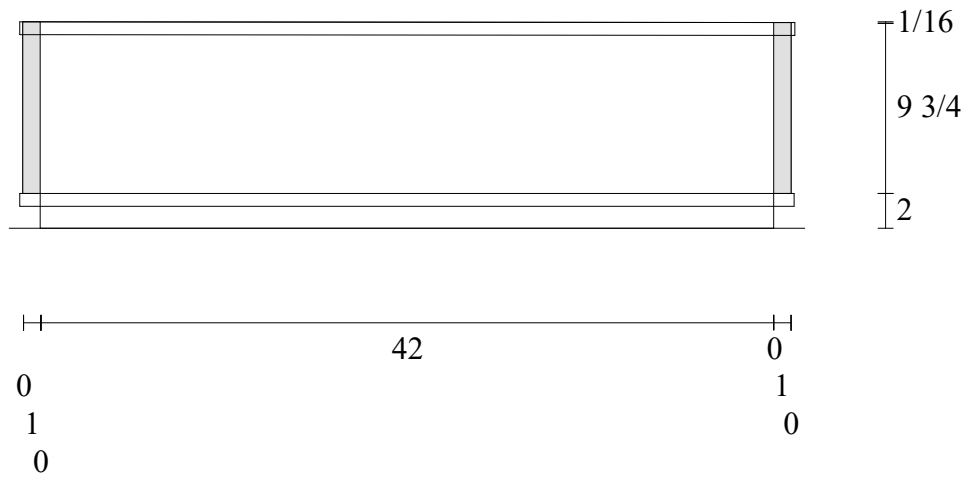
Graham

graham01v02
Scale : 1/11

Step : 44 x 11 13/16

Riser

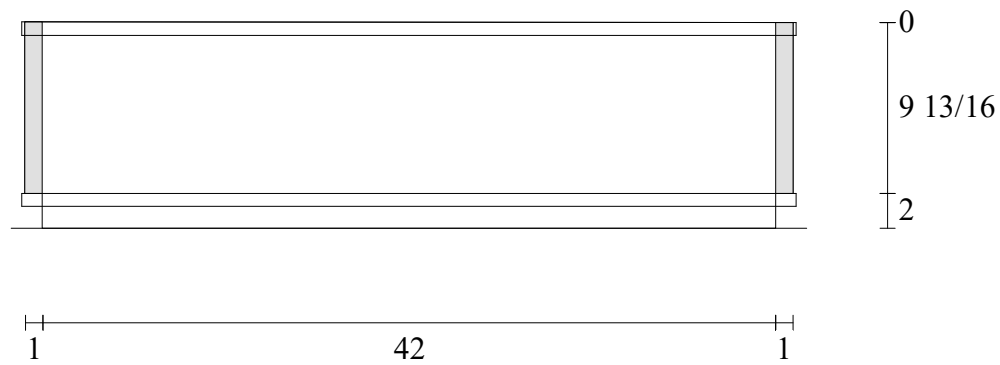
Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : -0.07



Step : 44 x 11 13/16

Riser

Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : -0.00



StairDesigner
Step : 15

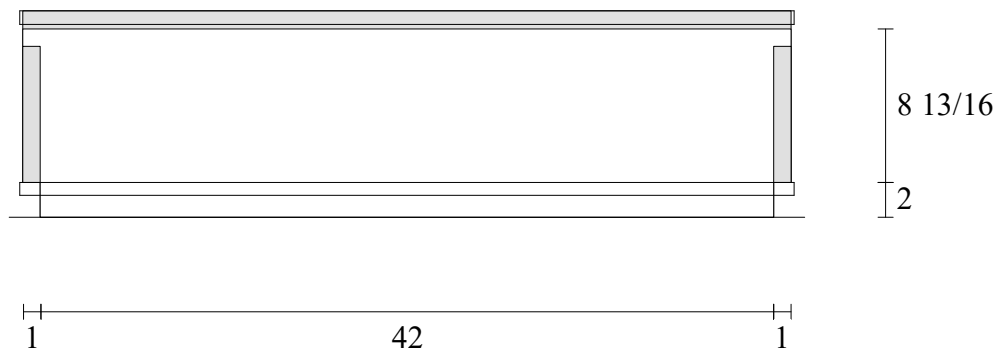
Graham

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Scale : 1/11

Step : 44 x 10 13/16

Riser

Width : 44 3/8 Height : 6 1/16 Thickness : 3/4 Angle : -0.00



StairDesigner
Step : 16

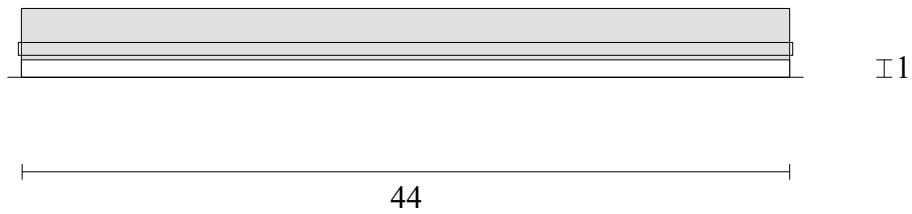
Graham

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Scale : 1/11

Landing Step

Riser

Width : $44 \frac{3}{8}$ Height : $6 \frac{1}{16}$ Thickness : $\frac{3}{4}$ Angle : 0.00

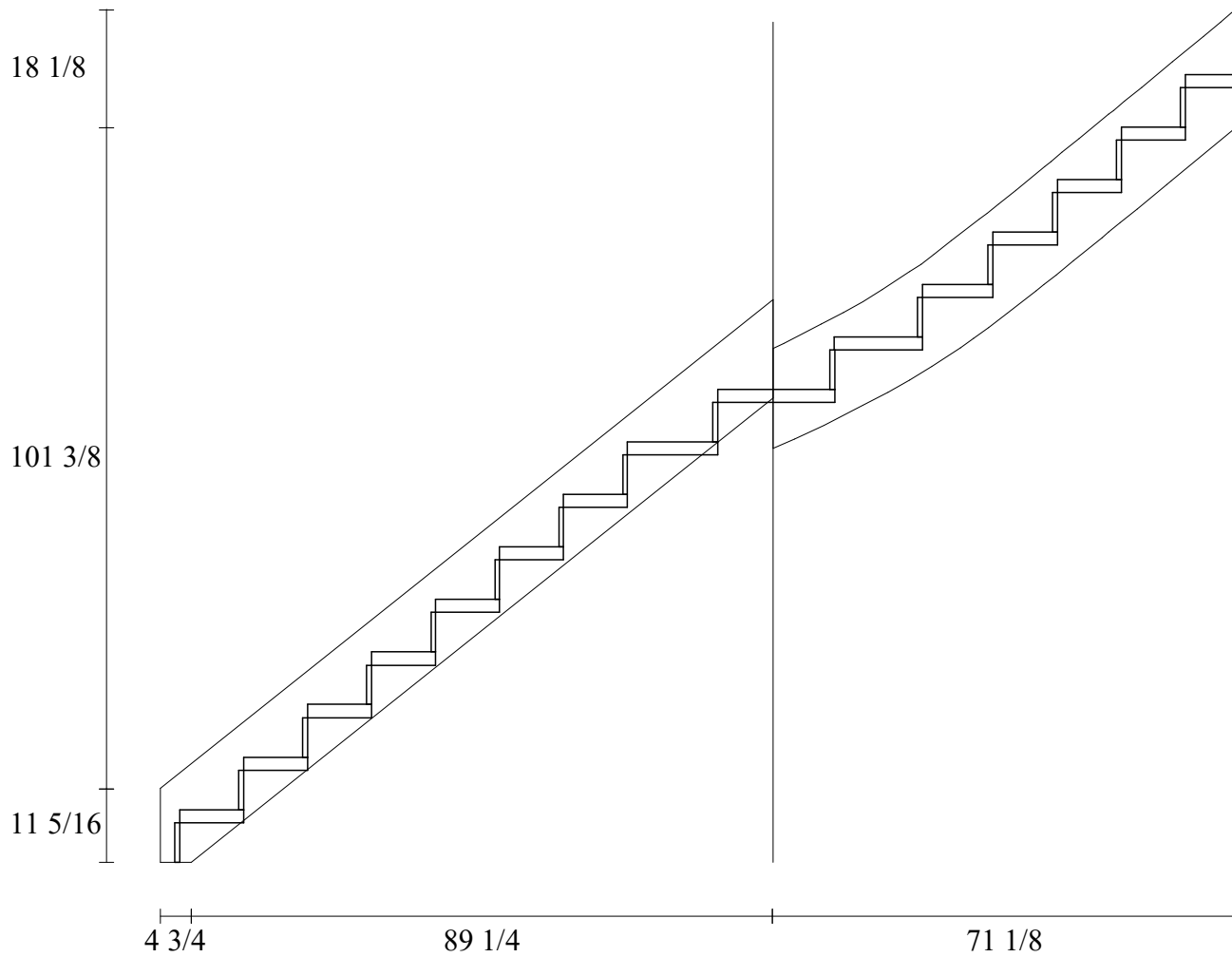


StairDesigner
Left Stringboard

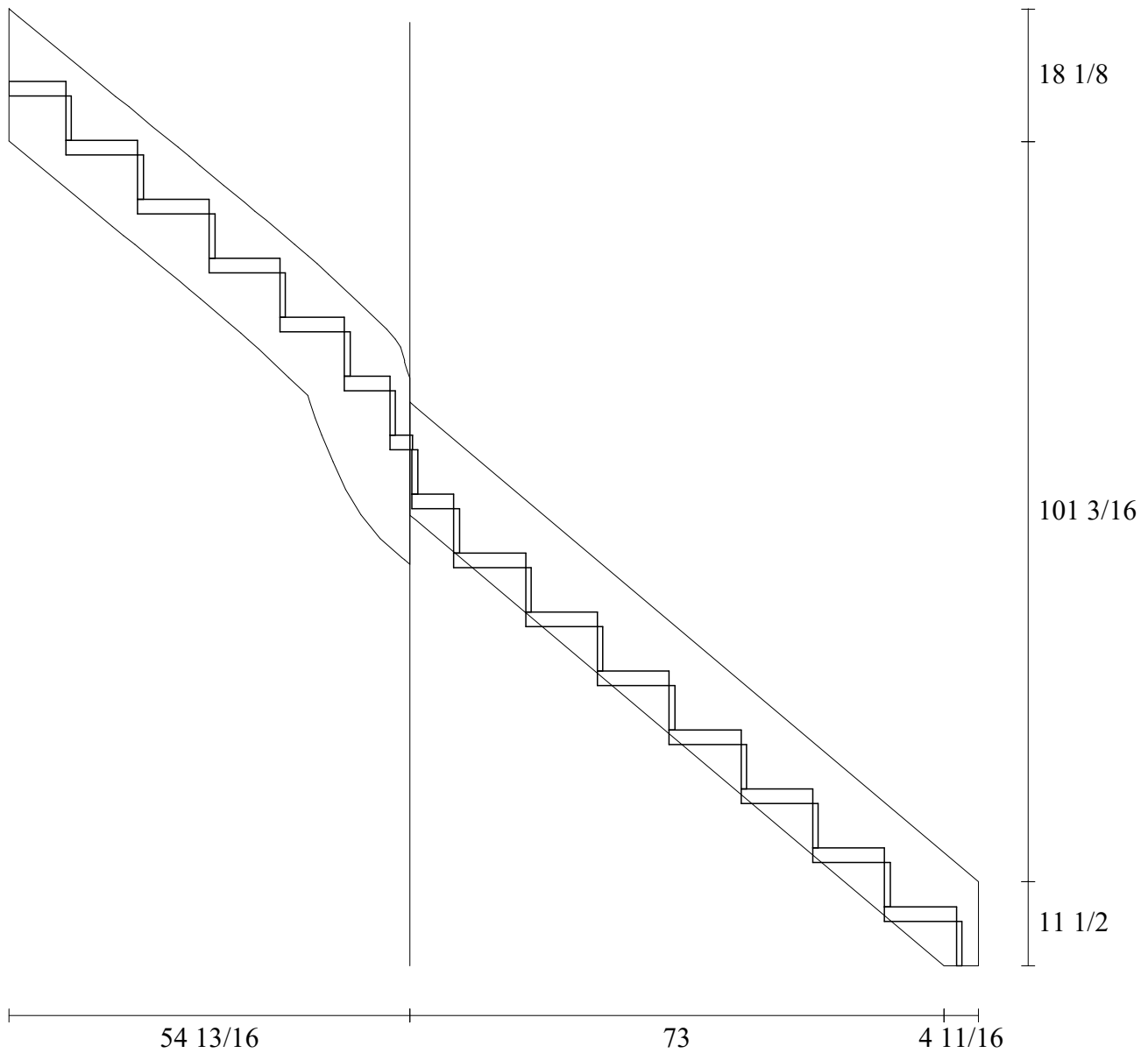
Graham

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Scale : 1/28

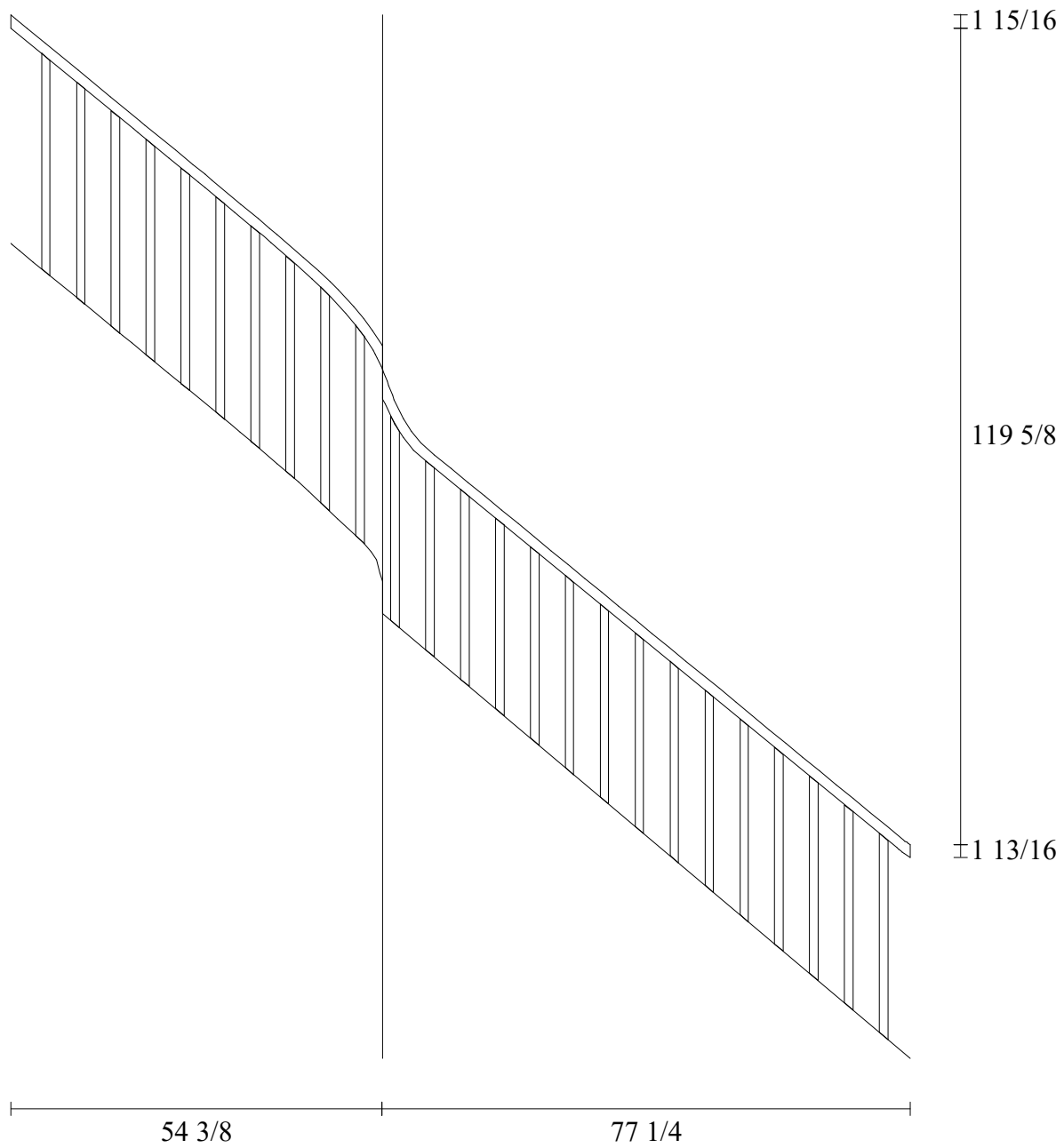
Dimensions : 210 x 22 1/8 (33.8°)



Dimensions : $186 \frac{1}{16} \times 21 \frac{9}{16}$ (43.1°)



Dimensions : 180 7/16 x 9 3/16 (44.2°)



StairDesigner
Banister : 1-3

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Banister : 1

Flight : 1

Position : $3 \frac{7}{8}$

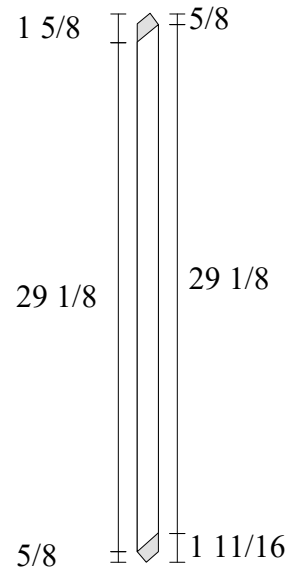
Height from Ground Level : $14 \frac{1}{4}$

Angle : 39.39 / 40.14

Height : $31 \frac{7}{16}$

Length : $1 \frac{1}{4}$

Width : $1 \frac{1}{4}$



Banister : 2

Flight : 1

Position : 9

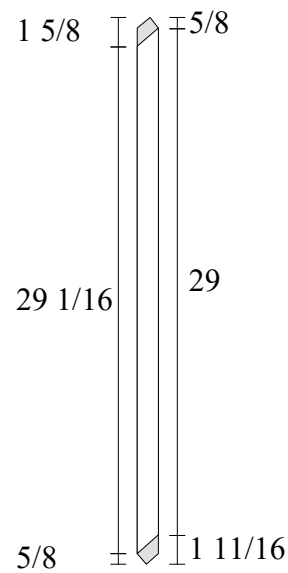
Height from Ground Level : $18 \frac{9}{16}$

Angle : 39.39 / 40.14

Height : $31 \frac{5}{16}$

Length : $1 \frac{1}{4}$

Width : $1 \frac{1}{4}$



Banister : 3

Flight : 1

Position : $14 \frac{1}{16}$

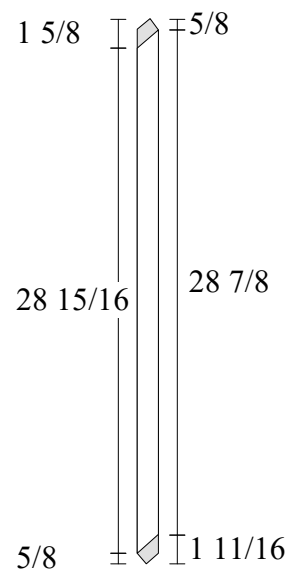
Height from Ground Level : $22 \frac{7}{8}$

Angle : 39.39 / 40.14

Height : $31 \frac{3}{16}$

Length : $1 \frac{1}{4}$

Width : $1 \frac{1}{4}$



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Banister : 4-6

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Banister : 4

Flight : 1

Position : 19 3/16

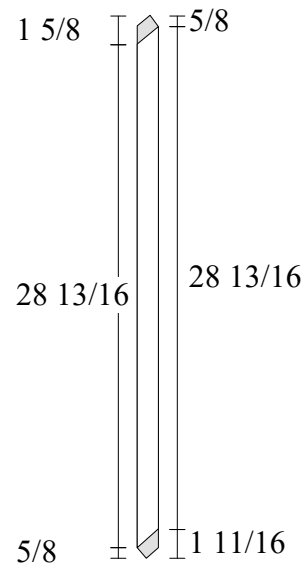
Height from Ground Level : 27 3/16

Angle : 39.39 / 40.14

Height : 31 1/16

Length : 1 1/4

Width : 1 1/4



Banister : 5

Flight : 1

Position : 24 5/16

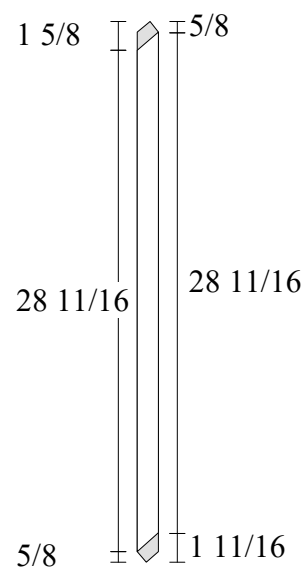
Height from Ground Level : 31 1/2

Angle : 39.39 / 40.14

Height : 31

Length : 1 1/4

Width : 1 1/4



Banister : 6

Flight : 1

Position : 29 7/16

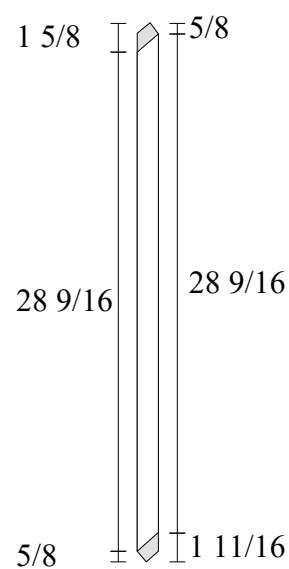
Height from Ground Level : 35 13/16

Angle : 39.39 / 40.14

Height : 30 7/8

Length : 1 1/4

Width : 1 1/4



StairDesigner
Banister : 7-9

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Banister : 7

Flight : 1

Position : 34 9/16

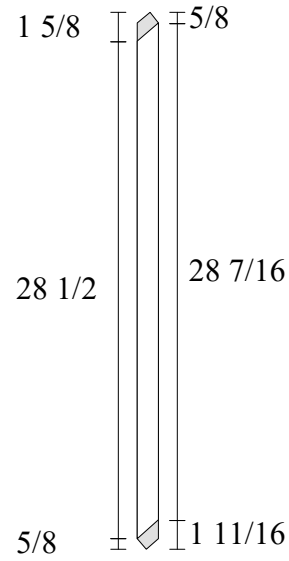
Height from Ground Level : 40 1/8

Angle : 39.39 / 40.14

Height : 30 3/4

Length : 1 1/4

Width : 1 1/4



Banister : 8

Flight : 1

Position : 39 5/8

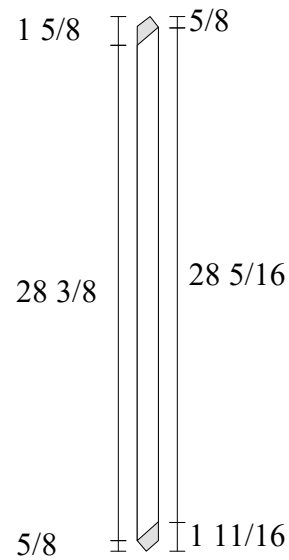
Height from Ground Level : 44 7/16

Angle : 39.39 / 40.14

Height : 30 5/8

Length : 1 1/4

Width : 1 1/4



Banister : 9

Flight : 1

Position : 44 3/4

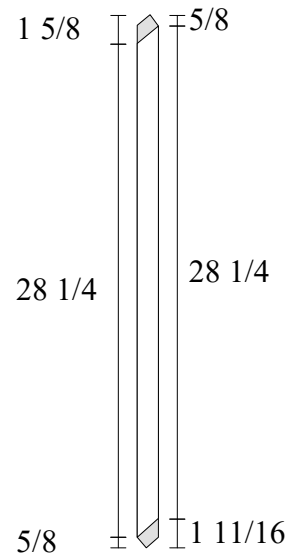
Height from Ground Level : 48 3/4

Angle : 39.39 / 40.14

Height : 30 1/2

Length : 1 1/4

Width : 1 1/4



StairDesigner
Banister : 10-12

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Banister : 10

Flight : 1

Position : $49 \frac{7}{8}$

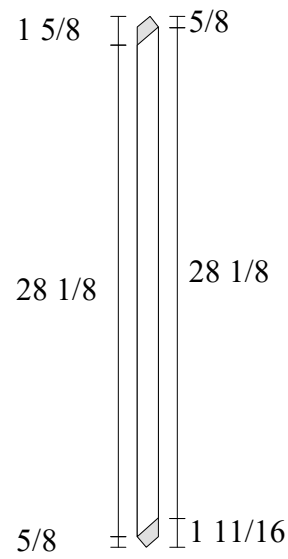
Height from Ground Level : 53

Angle : 39.39 / 40.14

Height : $30 \frac{7}{16}$

Length : $1 \frac{1}{4}$

Width : $1 \frac{1}{4}$



Banister : 11

Flight : 1

Position : 55

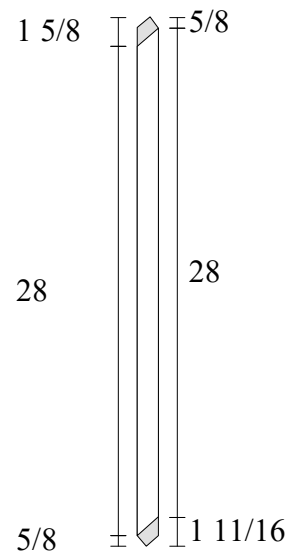
Height from Ground Level : $57 \frac{5}{16}$

Angle : 39.39 / 40.14

Height : $30 \frac{5}{16}$

Length : $1 \frac{1}{4}$

Width : $1 \frac{1}{4}$



Banister : 12

Flight : 1

Position : $60 \frac{1}{8}$

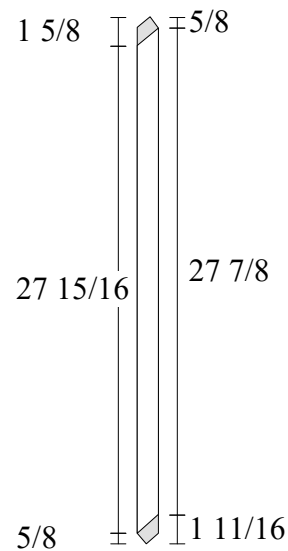
Height from Ground Level : $61 \frac{5}{8}$

Angle : 39.39 / 40.14

Height : $30 \frac{3}{16}$

Length : $1 \frac{1}{4}$

Width : $1 \frac{1}{4}$



StairDesigner
Banister : 13-15

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Banister : 13

Flight : 1

Position : $65 \frac{3}{16}$

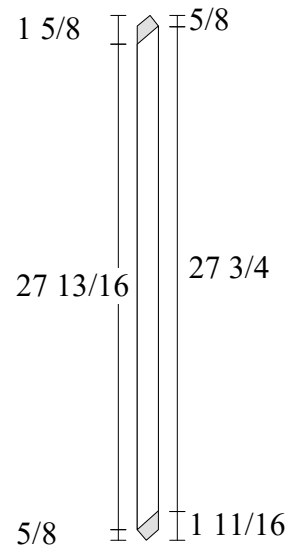
Height from Ground Level : $65 \frac{15}{16}$

Angle : 39.39 / 40.14

Height : $30 \frac{1}{16}$

Length : $1 \frac{1}{4}$

Width : $1 \frac{1}{4}$



Banister : 14

Flight : 1

Position : $70 \frac{5}{16}$

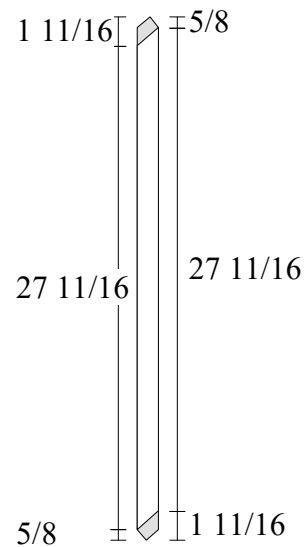
Height from Ground Level : $70 \frac{1}{4}$

Angle : 39.39 / 40.14

Height : 30

Length : $1 \frac{1}{4}$

Width : $1 \frac{1}{4}$



Banister : 15

Flight : 1

Position : $75 \frac{7}{16}$

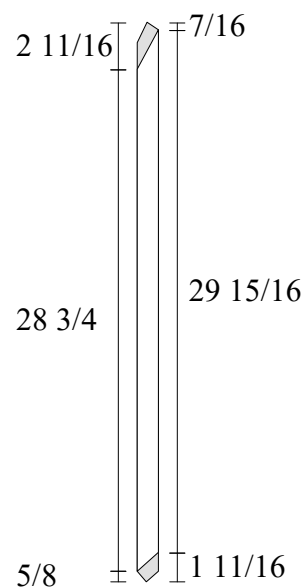
Height from Ground Level : $74 \frac{9}{16}$

Angle : 57.52 / 40.14

Height : $32 \frac{1}{16}$

Length : $1 \frac{1}{4}$

Width : $1 \frac{1}{4}$



StairDesigner
Banister : 16-18

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Banister : 16

Flight : 2

Position : 3 1/4

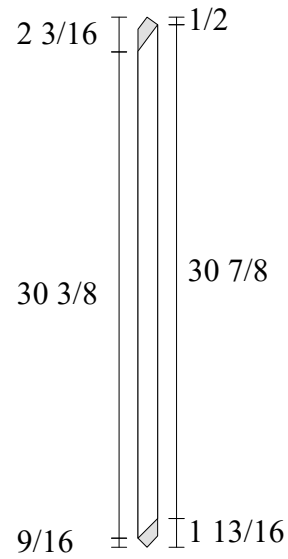
Height from Ground Level : 86 13/16

Angle : 53.27 / 43.47

Height : 33 1/8

Length : 1 1/4

Width : 1 1/4



Banister : 17

Flight : 2

Position : 8 3/8

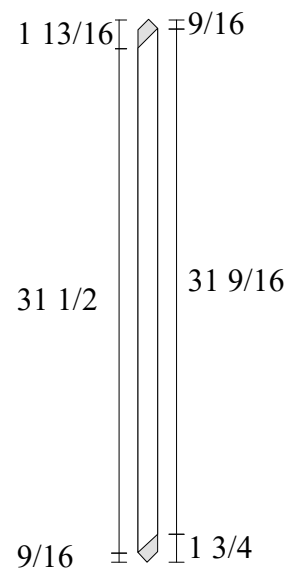
Height from Ground Level : 91 11/16

Angle : 45.29 / 43.16

Height : 33 15/16

Length : 1 1/4

Width : 1 1/4



Banister : 18

Flight : 2

Position : 13 1/2

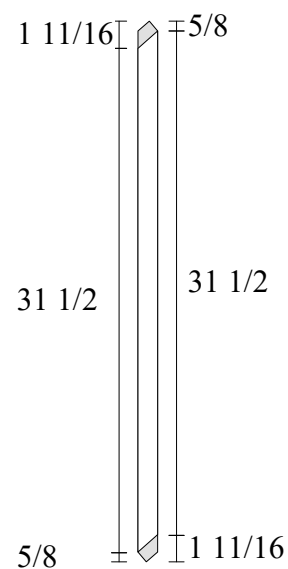
Height from Ground Level : 96 7/16

Angle : 41.11 / 41.90

Height : 33 13/16

Length : 1 1/4

Width : 1 1/4



StairDesigner
Banister : 19-21

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Banister : 19

Flight : 2

Position : 18 5/8

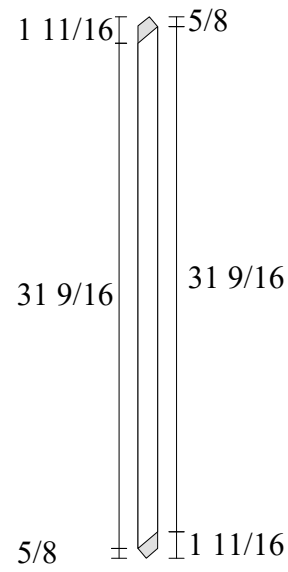
Height from Ground Level : 100 13/16

Angle : 40.00 / 40.16

Height : 33 7/8

Length : 1 1/4

Width : 1 1/4



Banister : 20

Flight : 2

Position : 23 3/4

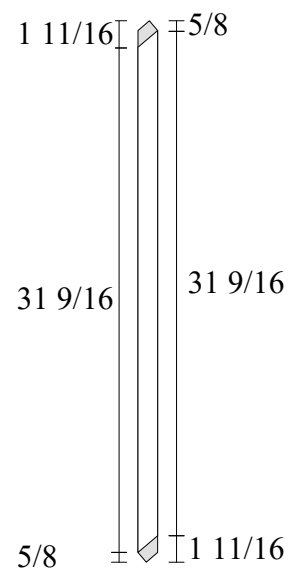
Height from Ground Level : 105 1/16

Angle : 39.69 / 39.55

Height : 33 13/16

Length : 1 1/4

Width : 1 1/4



Banister : 21

Flight : 2

Position : 28 13/16

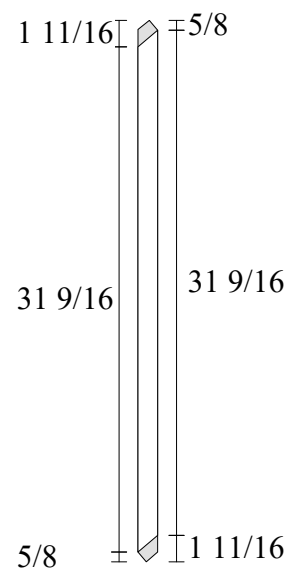
Height from Ground Level : 109 5/16

Angle : 39.46 / 39.49

Height : 33 13/16

Length : 1 1/4

Width : 1 1/4



StairDesigner
Banister : 22-24

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Banister : 22

Flight : 2

Position : 33 15/16

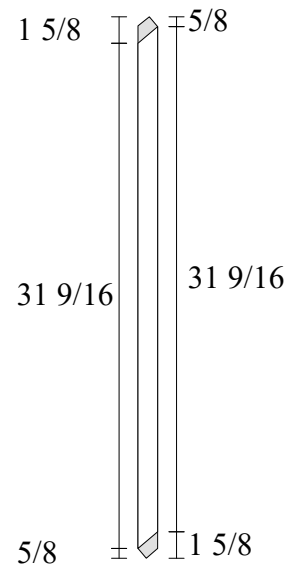
Height from Ground Level : 113 1/2

Angle : 39.45 / 39.43

Height : 33 13/16

Length : 1 1/4

Width : 1 1/4



Banister : 23

Flight : 2

Position : 39 1/16

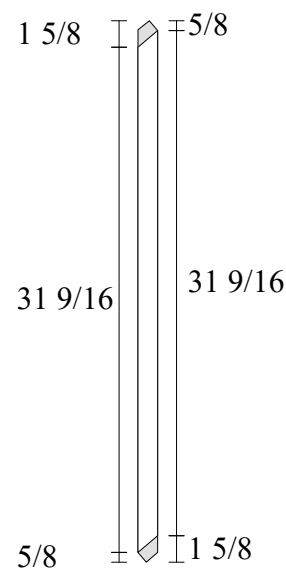
Height from Ground Level : 117 11/16

Angle : 39.41

Height : 33 13/16

Length : 1 1/4

Width : 1 1/4



Banister : 24

Flight : 2

Position : 44 3/16

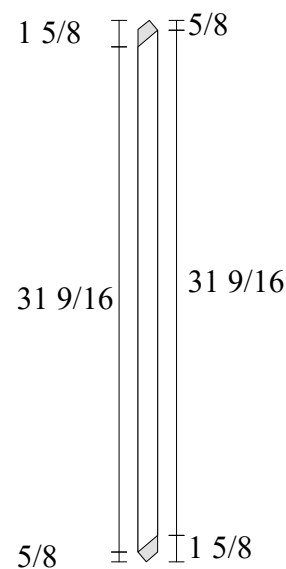
Height from Ground Level : 121 7/8

Angle : 39.41

Height : 33 13/16

Length : 1 1/4

Width : 1 1/4



StairDesigner
Banister : 25

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Banister : 25

Flight : 2

Position : 49 5/16

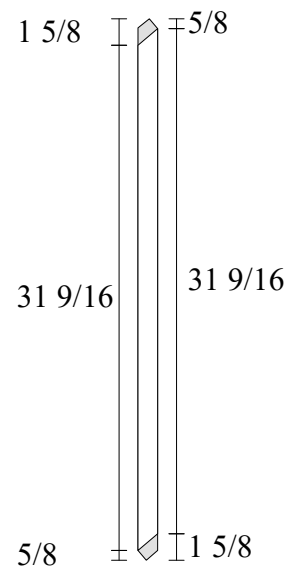
Height from Ground Level : 126 1/8

Angle : 39.41

Height : 33 13/16

Length : 1 1/4

Width : 1 1/4



Piece	Dimensions	Cutting List Volume	Real Volume
Step 1	44 x 11 13/16 x 2	1039.61 cubic in	1031.49 cubic in
Step 2	44 x 11 13/16 x 2	1039.62 cubic in	1031.49 cubic in
Step 3	44 x 11 13/16 x 2	1039.64 cubic in	1031.49 cubic in
Step 4	44 x 11 13/16 x 2	1039.65 cubic in	1031.49 cubic in
Step 5	44 x 11 13/16 x 2	1039.67 cubic in	1031.49 cubic in
Step 6	44 x 11 13/16 x 2	1039.68 cubic in	1031.49 cubic in
Step 7	44 x 11 13/16 x 2	1039.70 cubic in	1031.49 cubic in
Step 8	44 x 16 1/16 x 2	1413.33 cubic in	1028.88 cubic in
Step 9	47 13/16 x 18 11/16 x 2	1789.79 cubic in	1095.09 cubic in
Step 10	46 7/16 x 15 5/16 x 2	1420.33 cubic in	1036.44 cubic in
Step 11	44 9/16 x 12 13/16 x 2	1139.09 cubic in	1030.62 cubic in
Step 12	44 1/16 x 12 x 2	1056.45 cubic in	1030.61 cubic in
Step 13	44 x 11 13/16 x 2	1040.97 cubic in	1030.61 cubic in
Step 14	44 x 11 13/16 x 2	1038.78 cubic in	1030.61 cubic in
Step 15	44 x 10 13/16 x 2	950.61 cubic in	942.61 cubic in
Step 16	44 x 1 x 2	88.00 cubic in	88.00 cubic in
Riser 1	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 2	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 3	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 4	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 5	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 6	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 7	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 8	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 9	45 3/8 x 6 1/16 x 3/4	205.96 cubic in	205.29 cubic in
Riser 10	45 11/16 x 6 1/16 x 3/4	207.48 cubic in	206.70 cubic in
Riser 11	44 1/2 x 6 1/16 x 3/4	202.00 cubic in	201.81 cubic in
Riser 12	44 3/8 x 6 1/16 x 3/4	201.55 cubic in	201.52 cubic in
Riser 13	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 14	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 15	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Riser 16	44 3/8 x 6 1/16 x 3/4	201.51 cubic in	201.51 cubic in
Right Stringboard 1	109 x 11 13/16 x 2	2575.23 cubic in	2369.55 cubic in
Right Stringboard 2	92 15/16 x 20 3/16 x 2	3749.97 cubic in	2217.89 cubic in
Left Stringboard 1	127 15/16 x 12 5/16 x 2	3145.95 cubic in	2834.48 cubic in
Left Stringboard 2	97 3/4 x 17 1/4 x 2	3377.39 cubic in	2466.41 cubic in
Right Handrail 1	107 1/8 x 6 1/2 x 4	2798.50 cubic in	624.22 cubic in
Right Handrail 2	77 1/4 x 5 1/8 x 4	1575.24 cubic in	442.88 cubic in
Banister 1	1 1/4 x 1 1/4 x 31 7/16	49.11 cubic in	48.15 cubic in
Banister 2	1 1/4 x 1 1/4 x 31 5/16	48.93 cubic in	47.97 cubic in
Banister 3	1 1/4 x 1 1/4 x 31 3/16	48.76 cubic in	47.80 cubic in
Banister 4	1 1/4 x 1 1/4 x 31 1/16	48.58 cubic in	47.62 cubic in
Banister 5	1 1/4 x 1 1/4 x 31	48.40 cubic in	47.44 cubic in
Banister 6	1 1/4 x 1 1/4 x 30 7/8	48.22 cubic in	47.26 cubic in
Banister 7	1 1/4 x 1 1/4 x 30 3/4	48.05 cubic in	47.09 cubic in
Banister 8	1 1/4 x 1 1/4 x 30 5/8	47.87 cubic in	46.91 cubic in
Banister 9	1 1/4 x 1 1/4 x 30 1/2	47.69 cubic in	46.73 cubic in
Banister 10	1 1/4 x 1 1/4 x 30 7/16	47.52 cubic in	46.56 cubic in
Banister 11	1 1/4 x 1 1/4 x 30 5/16	47.34 cubic in	46.38 cubic in
Banister 12	1 1/4 x 1 1/4 x 30 3/16	47.16 cubic in	46.20 cubic in
Banister 13	1 1/4 x 1 1/4 x 30 1/16	46.99 cubic in	46.03 cubic in

Piece	Dimensions	Cutting List Volume	Real Volume
Banister 14	1 1/4 x 1 1/4 x 30	46.84 cubic in	45.87 cubic in
Banister 15	1 1/4 x 1 1/4 x 32 1/16	50.06 cubic in	48.98 cubic in
Banister 16	1 1/4 x 1 1/4 x 33 1/8	51.78 cubic in	50.78 cubic in
Banister 17	1 1/4 x 1 1/4 x 33 15/16	52.99 cubic in	52.02 cubic in
Banister 18	1 1/4 x 1 1/4 x 33 13/16	52.81 cubic in	51.85 cubic in
Banister 19	1 1/4 x 1 1/4 x 33 7/8	52.89 cubic in	51.93 cubic in
Banister 20	1 1/4 x 1 1/4 x 33 13/16	52.86 cubic in	51.90 cubic in
Banister 21	1 1/4 x 1 1/4 x 33 13/16	52.88 cubic in	51.92 cubic in
Banister 22	1 1/4 x 1 1/4 x 33 13/16	52.88 cubic in	51.92 cubic in
Banister 23	1 1/4 x 1 1/4 x 33 13/16	52.88 cubic in	51.92 cubic in
Banister 24	1 1/4 x 1 1/4 x 33 13/16	52.88 cubic in	51.92 cubic in
Banister 25	1 1/4 x 1 1/4 x 33 13/16	52.88 cubic in	51.92 cubic in

Piece	Cutting List Volume	Real Volume	Weight	Cost
Steps	17214.93 cubic in	15533.88 cubic in		
Risers	3235.08 cubic in	3233.41 cubic in		
Stringboards	12848.53 cubic in	9888.32 cubic in		
Handrails	4373.74 cubic in	1067.11 cubic in		
Banisters	1249.24 cubic in	1225.06 cubic in		
Total	38921.52 cubic in	30947.79 cubic in		