

Multi-Flight Stair

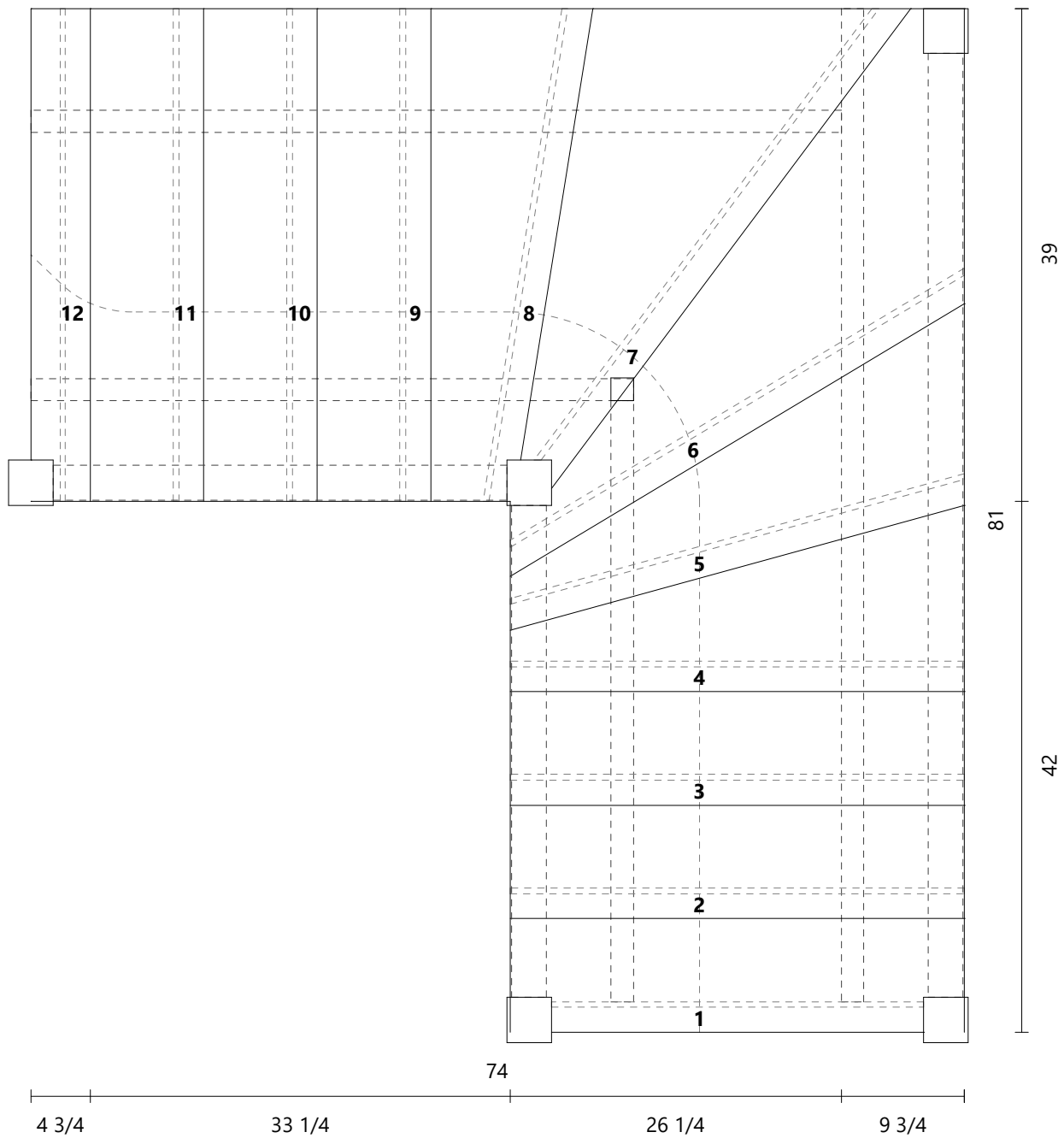
Risers 12

Floor Height 89"

Riser Height 7 1/2"

Tread Width 9"

Stair Rule 23 3/4"

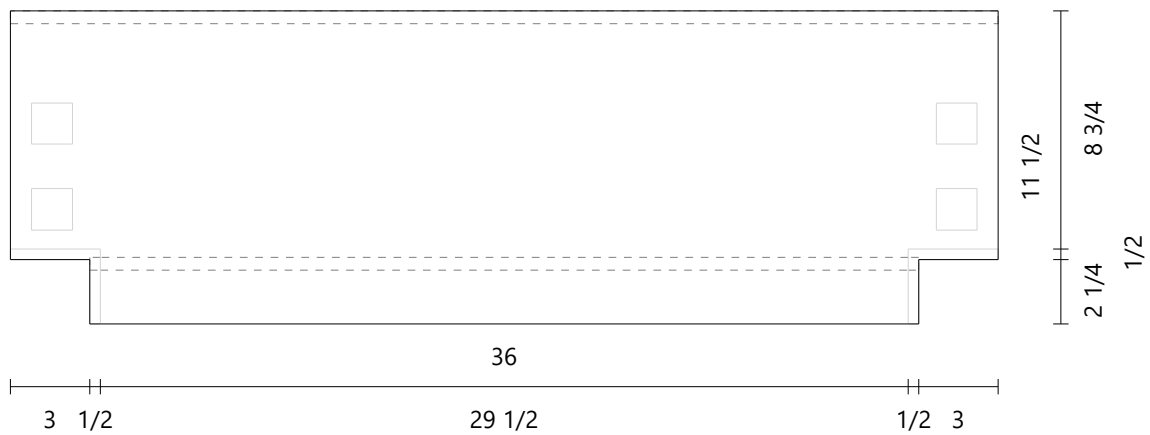


Step

Material beech/hetre
Dimensions 36" × 11 1/2"
Thickness 1 3/4"

Riser

Material beech/hetre
Dimensions 30 1/4" × 2"
Thickness 1/2"
Angle 0°

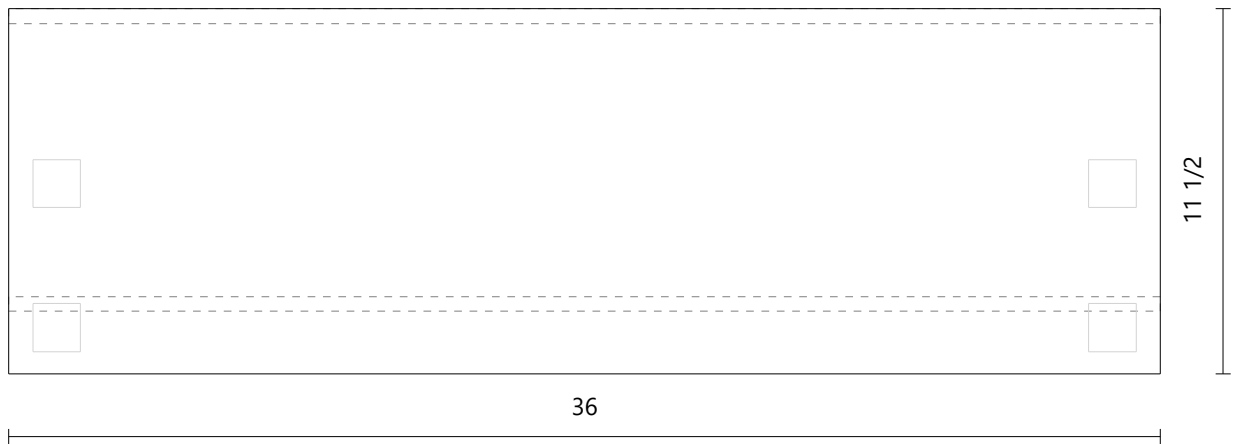


Step

Material beech/hetre
Dimensions 36" × 11 1/2"
Thickness 1 3/4"

Riser

Material beech/hetre
Dimensions 36" × 2"
Thickness 1/2"
Angle 0°

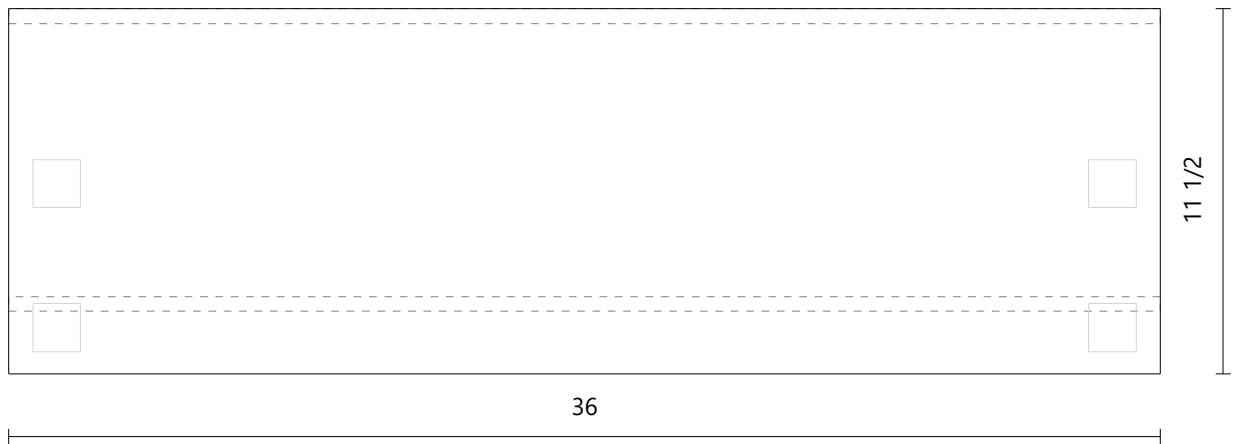


Step

Material beech/hetre
Dimensions 36" × 11 1/2"
Thickness 1 3/4"

Riser

Material beech/hetre
Dimensions 36" × 2"
Thickness 1/2"
Angle 0°

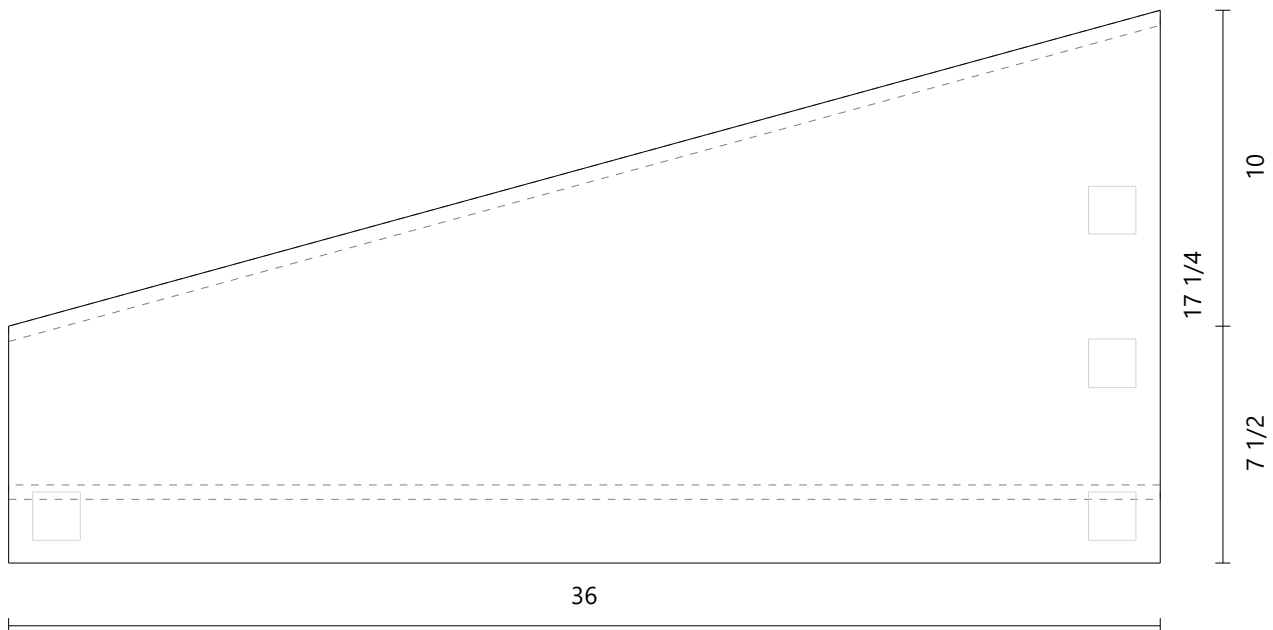


Step

Material beech/hetre
Dimensions 36" × 17 1/4"
Thickness 1 3/4"

Riser

Material beech/hetre
Dimensions 36" × 2"
Thickness 1/2"
Angle 0°

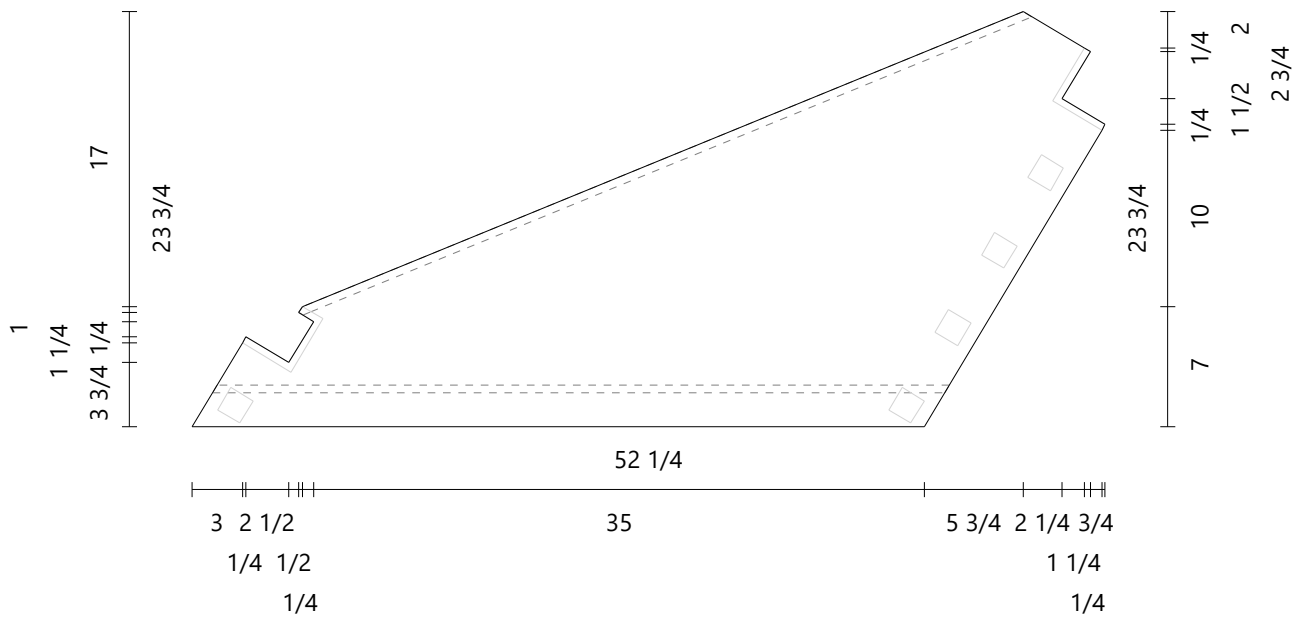


Step

Material beech/hetre
Dimensions $52 \frac{1}{4}" \times 23 \frac{3}{4}"$
Thickness $1 \frac{3}{4}"$

Riser

Material beech/hetre
Dimensions $42 \frac{1}{4}" \times 2"$
Thickness $\frac{1}{2}"$
Angle -30.91°

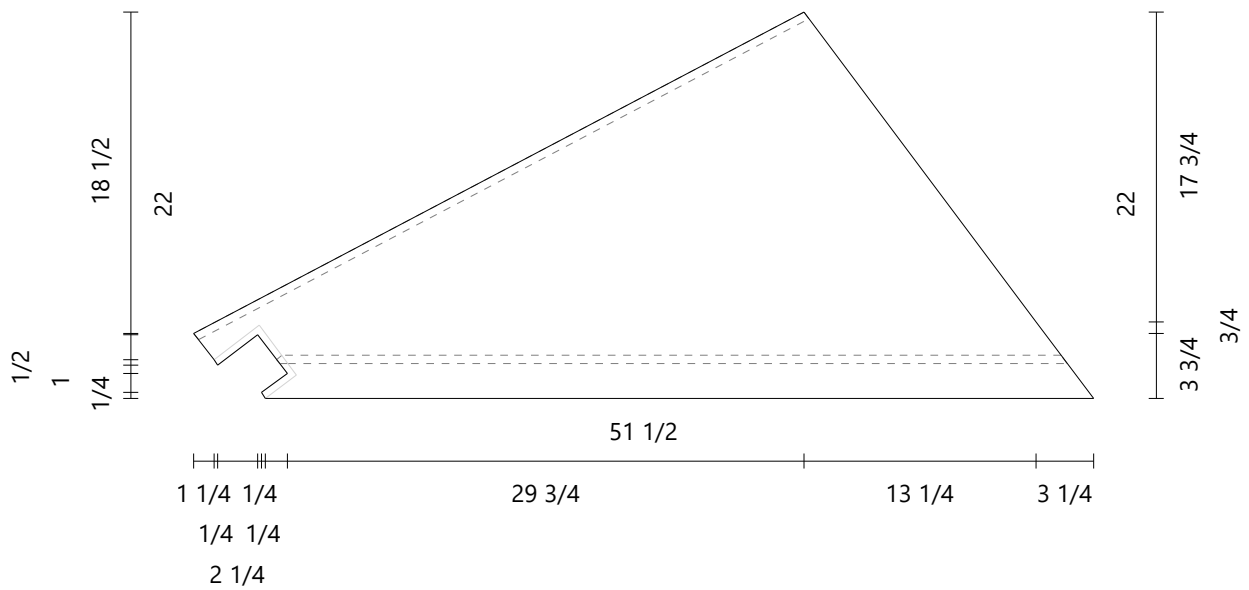


Step

Material beech/hetre
Dimensions 51 1/2" × 22"
Thickness 1 3/4"

Riser

Material beech/hetre
Dimensions 45 1/4" × 2"
Thickness 1/2"
Angle Right: 36.85°

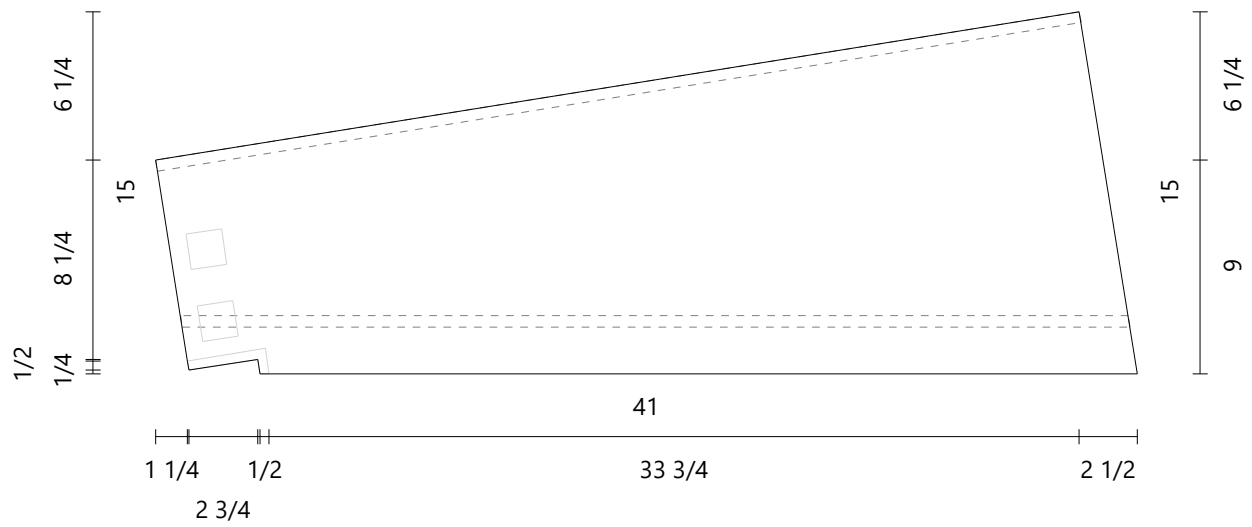


Step

Material beech/hetre
Dimensions 41" x 15"
Thickness 1 3/4"

Riser

Material beech/hetre
Dimensions 39 1/2" x 2"
Thickness 1/2"
Angle 9.12°

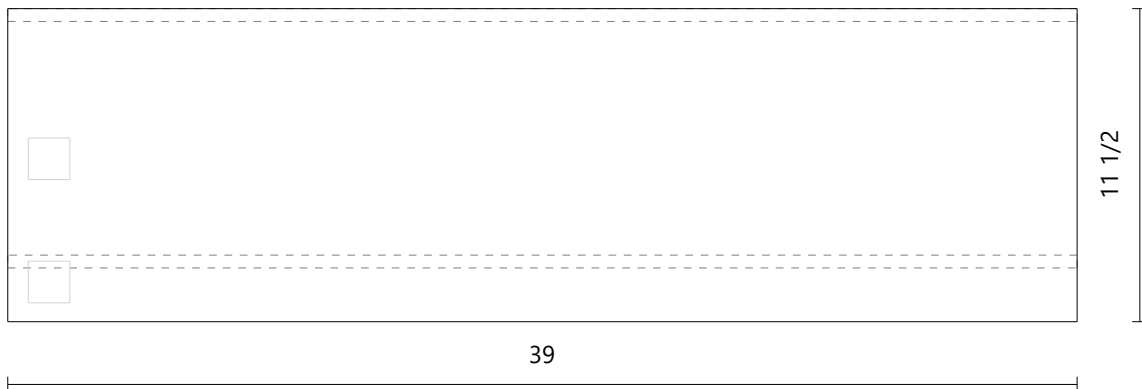


Step

Material beech/hetre
Dimensions 39" × 11 1/2"
Thickness 1 3/4"

Riser

Material beech/hetre
Dimensions 39" × 2"
Thickness 1/2"
Angle 0°

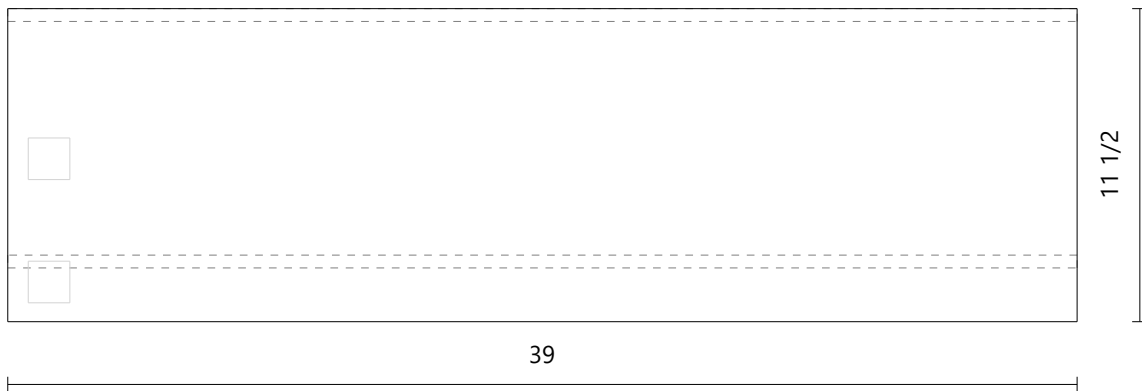


Step

Material beech/hetre
Dimensions 39" × 11 1/2"
Thickness 1 3/4"

Riser

Material beech/hetre
Dimensions 39" × 2"
Thickness 1/2"
Angle 0°

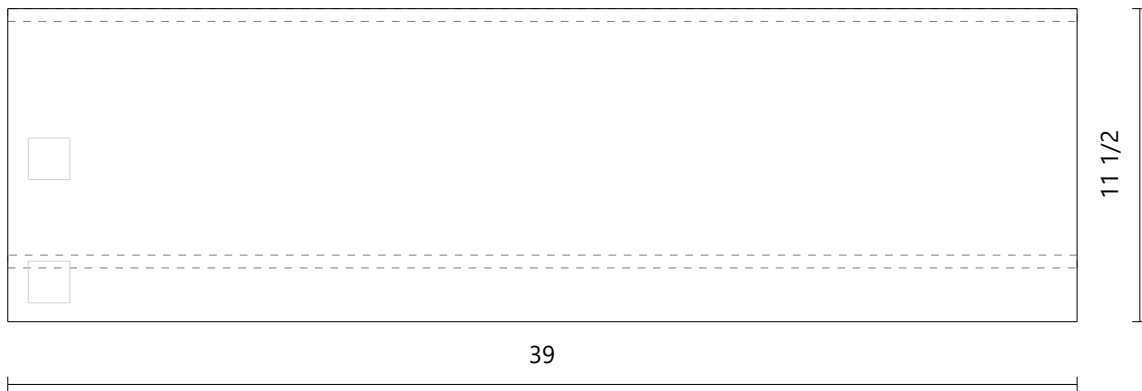


Step

Material beech/hetre
Dimensions 39" × 11 1/2"
Thickness 1 3/4"

Riser

Material beech/hetre
Dimensions 39" × 2"
Thickness 1/2"
Angle 0°

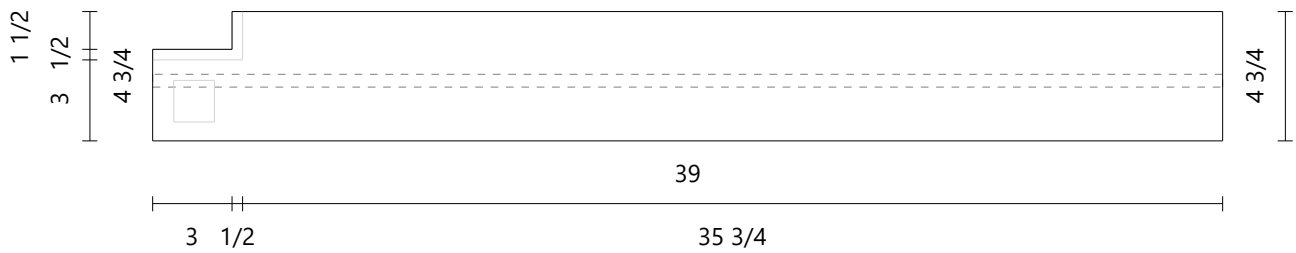


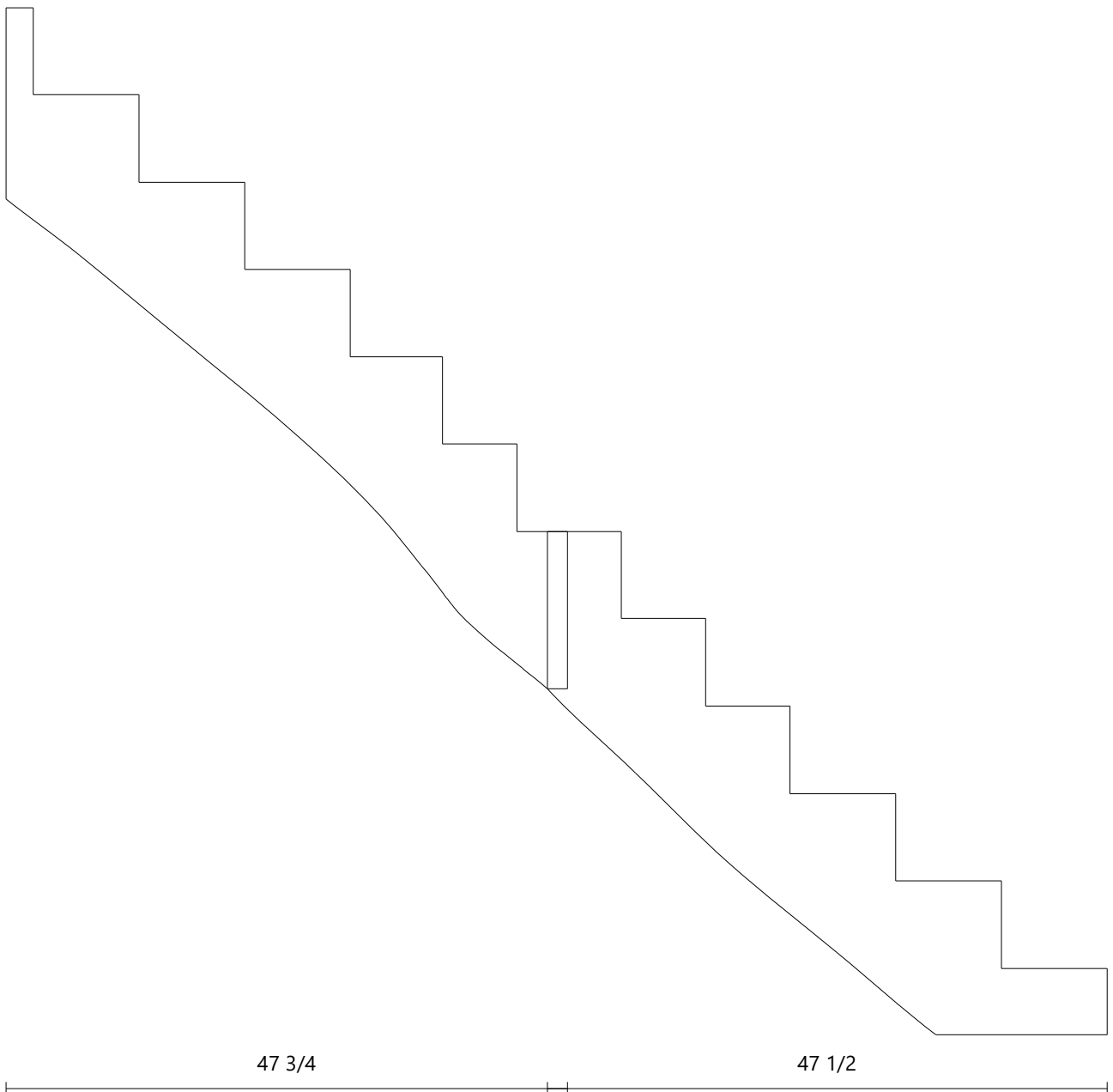
Step

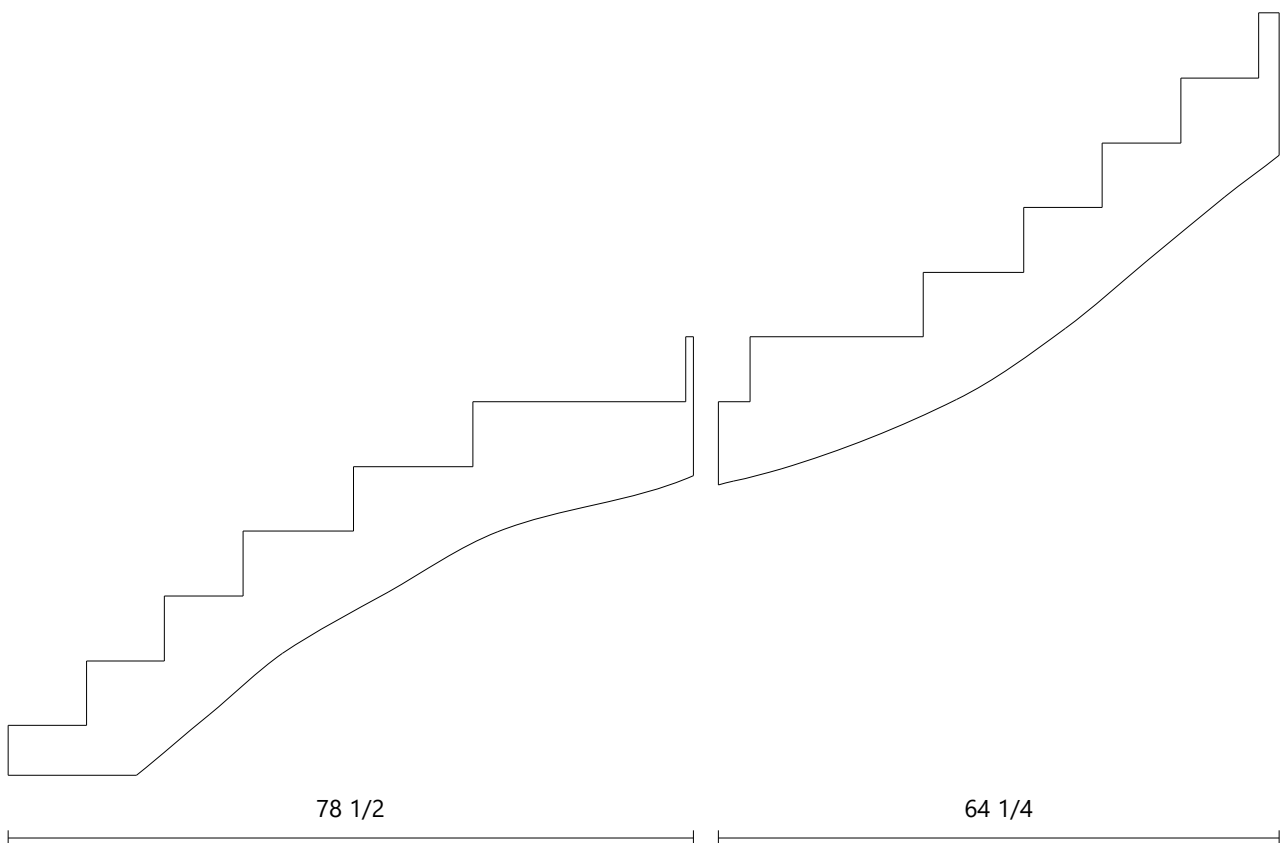
Material beech/hetre
Dimensions 39" × 4 3/4"
Thickness 1 3/4"

Riser

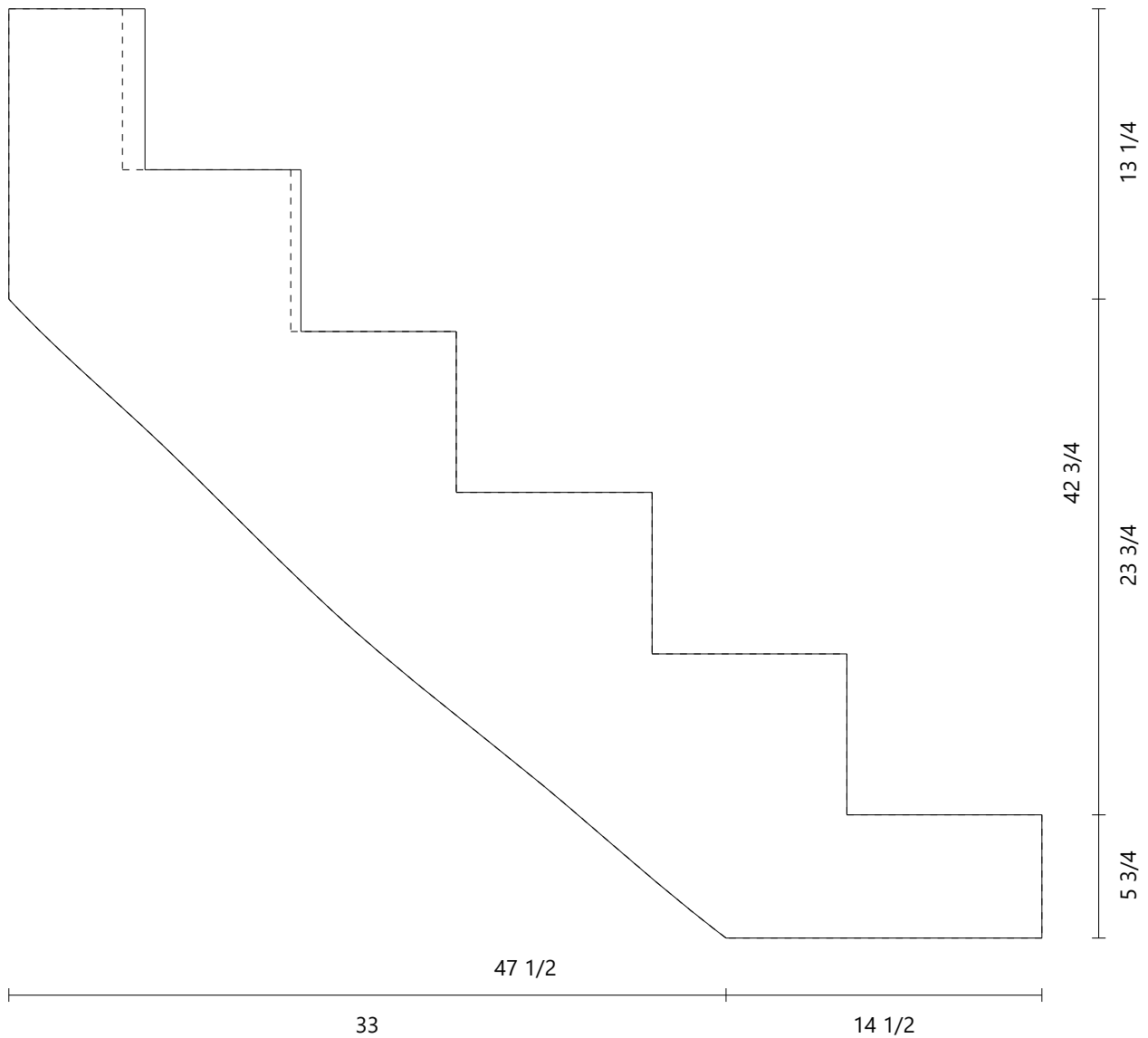
Material beech/hetre
Dimensions 39" × 2"
Thickness 1/2"
Angle 0°



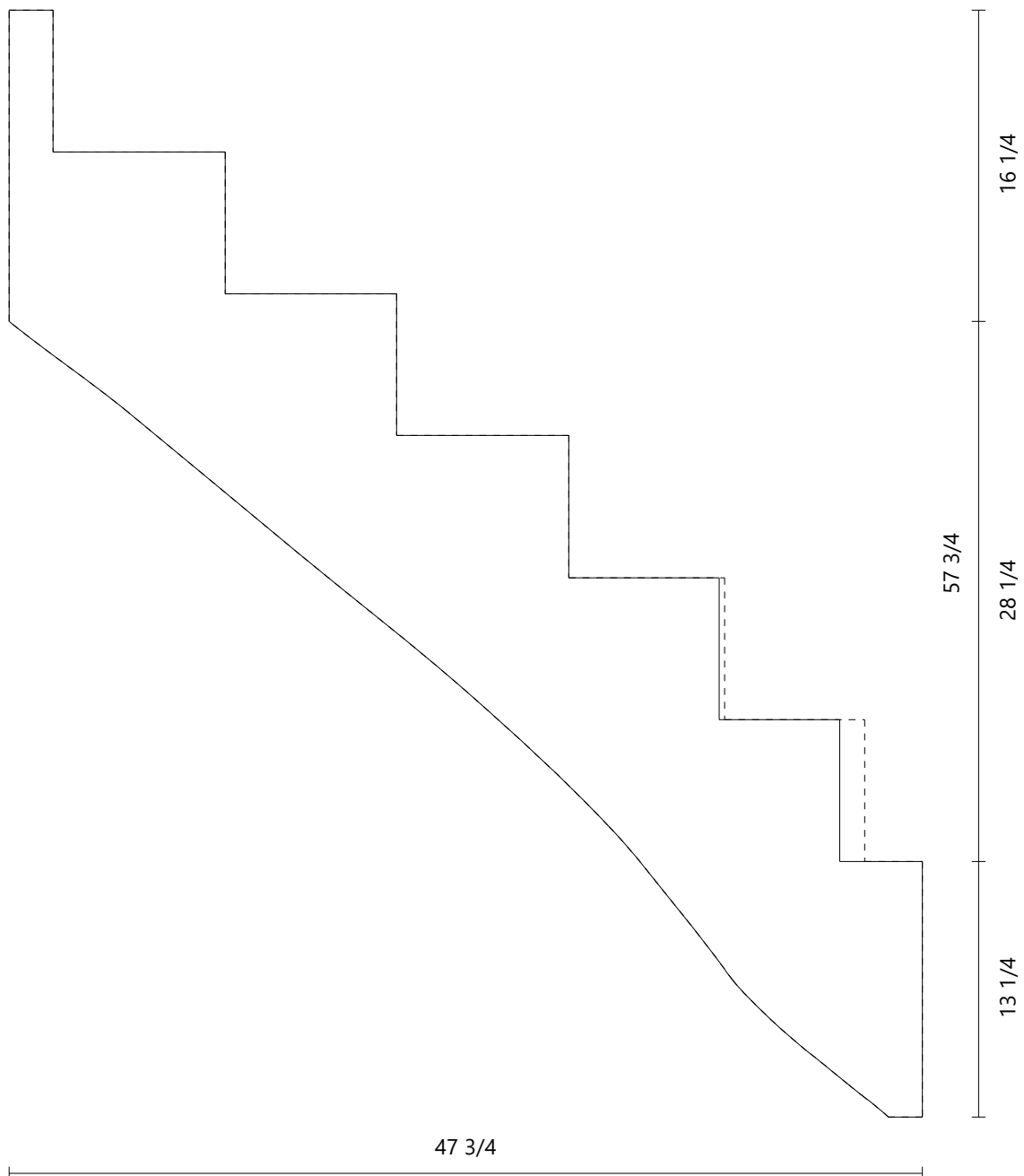




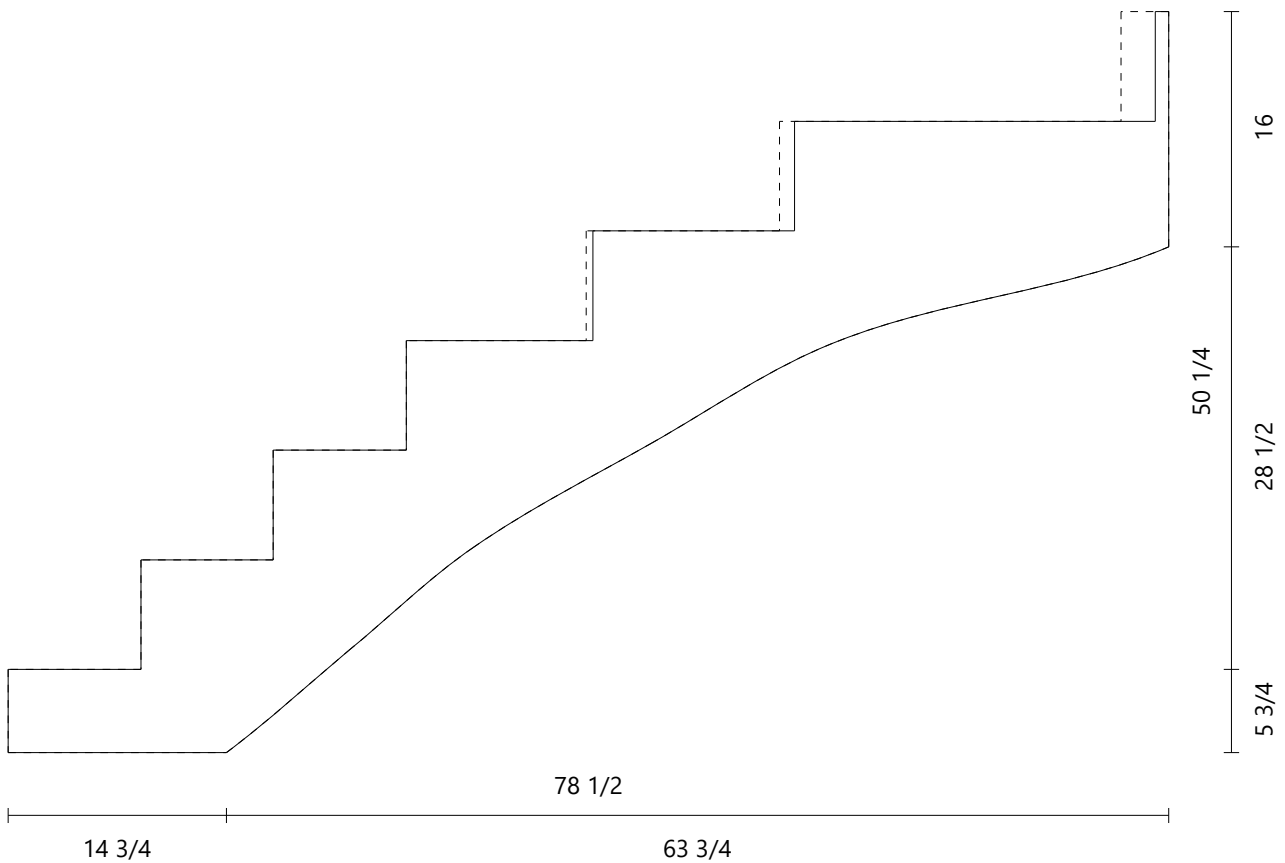
Material beech/hetre
Dimensions 64" × 14 3/4"
Thickness 1 3/4"



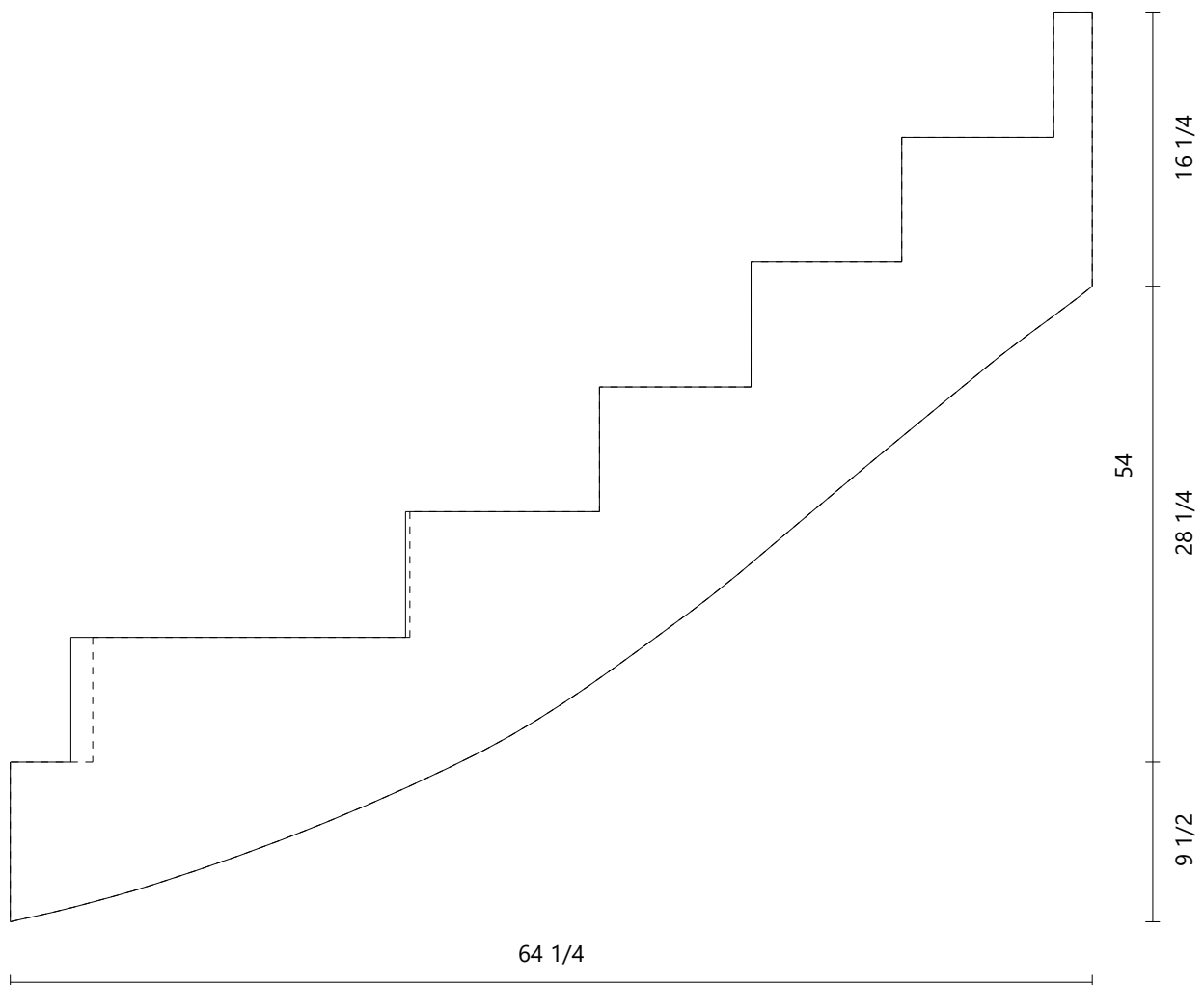
Material beech/hetre
Dimensions $74 \frac{1}{4}" \times 15 \frac{1}{2}"$
Thickness $1 \frac{3}{4}"$

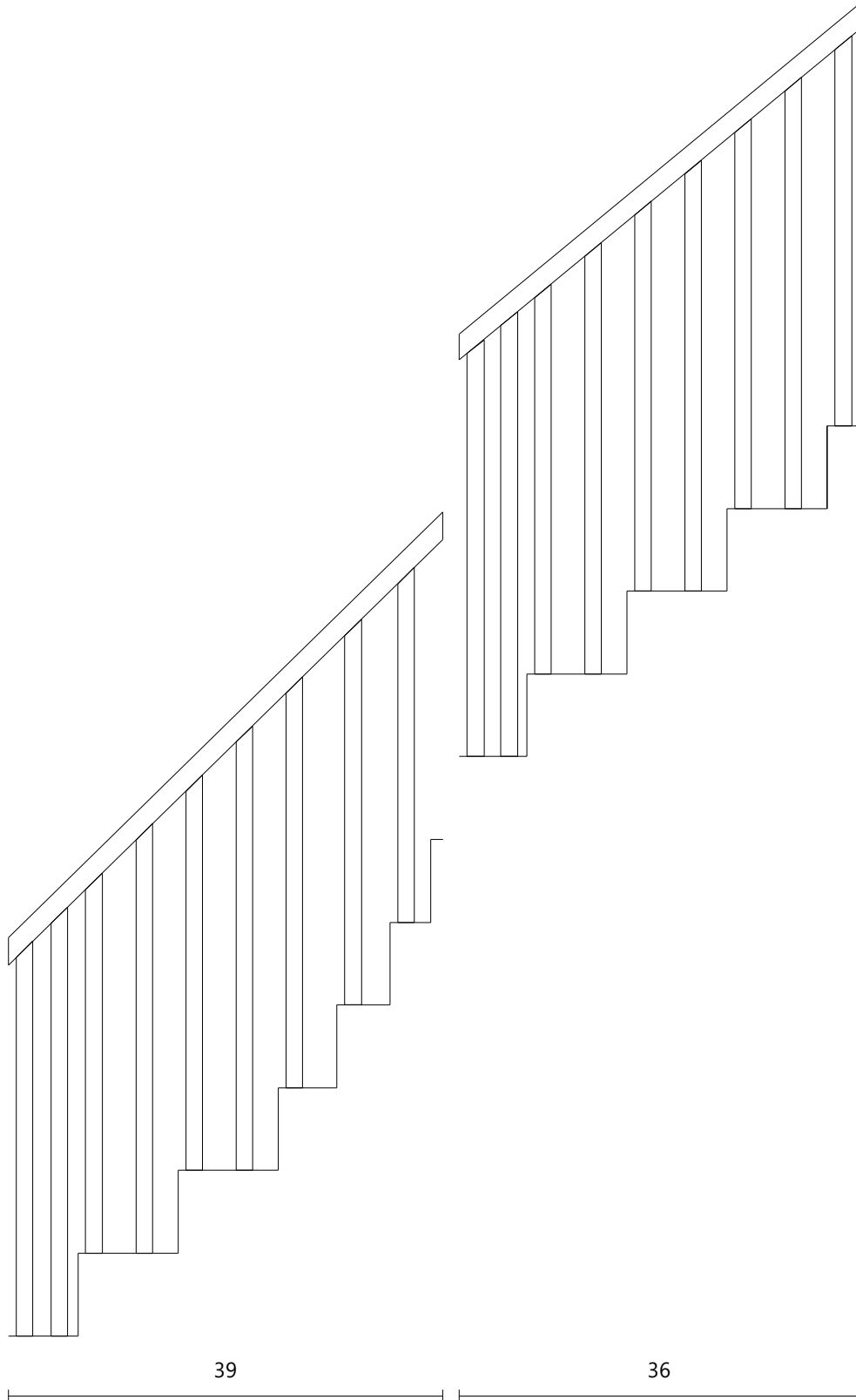


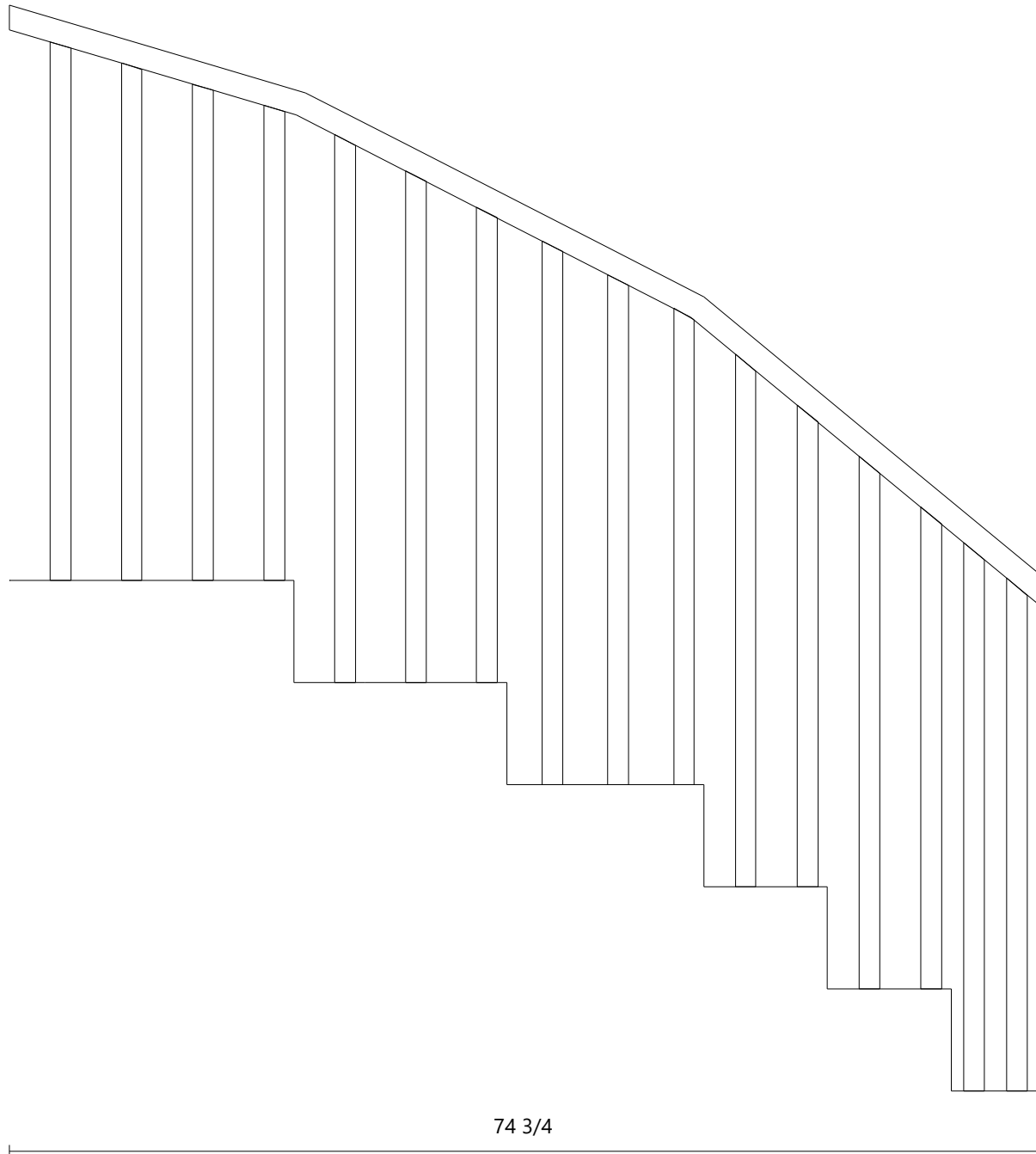
Material beech/hetre
Dimensions 93" × 20"
Thickness 1 3/4"



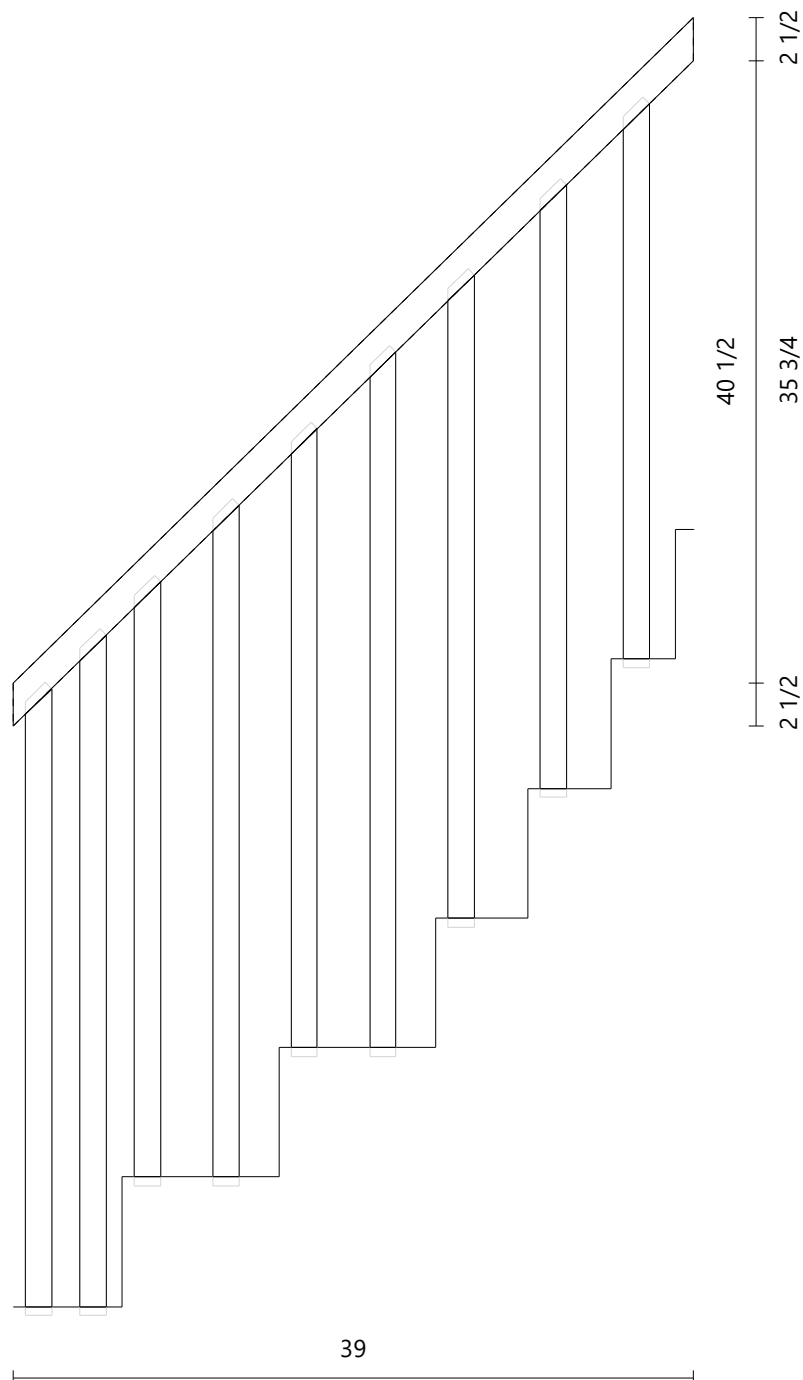
Material beech/hetre
Dimensions $83 \frac{1}{4}" \times 19"$
Thickness $1 \frac{3}{4}"$



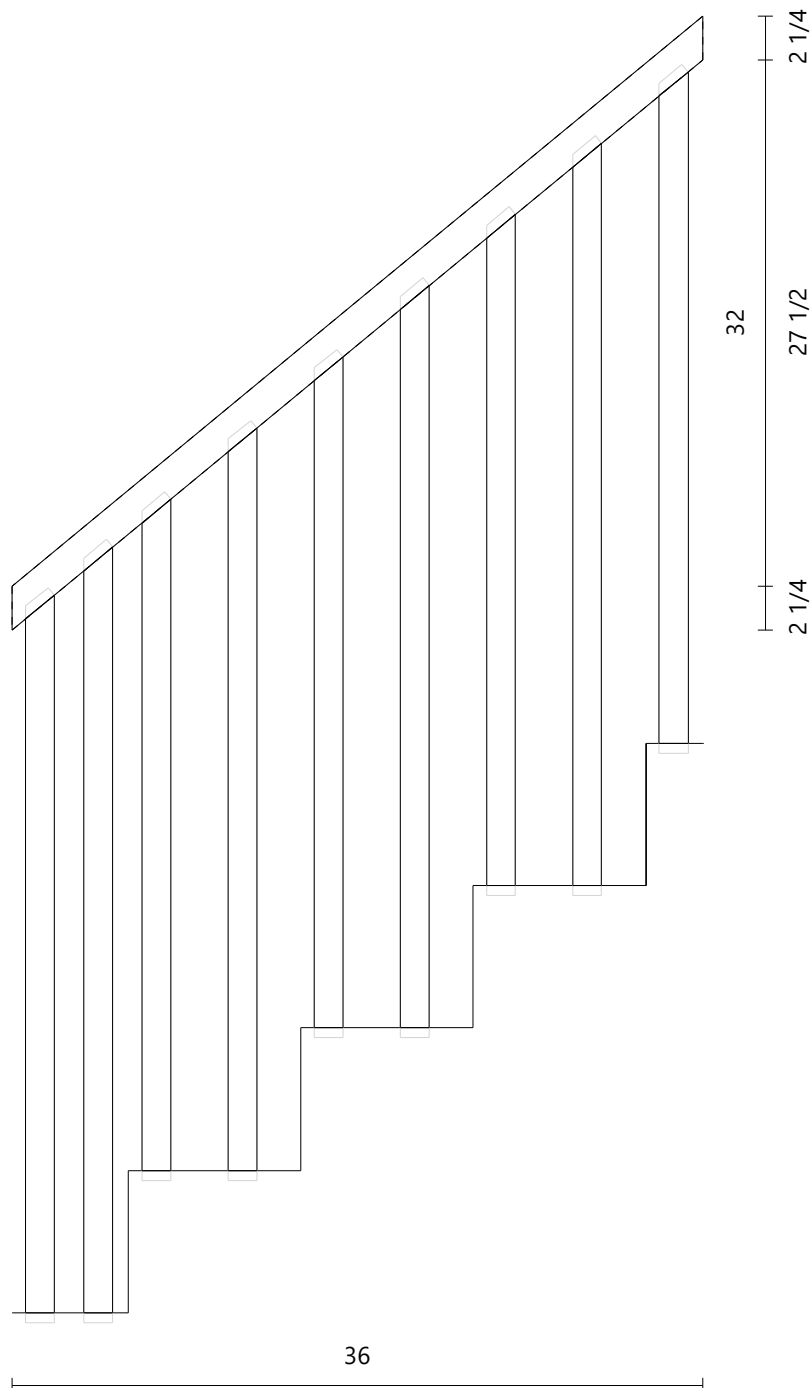




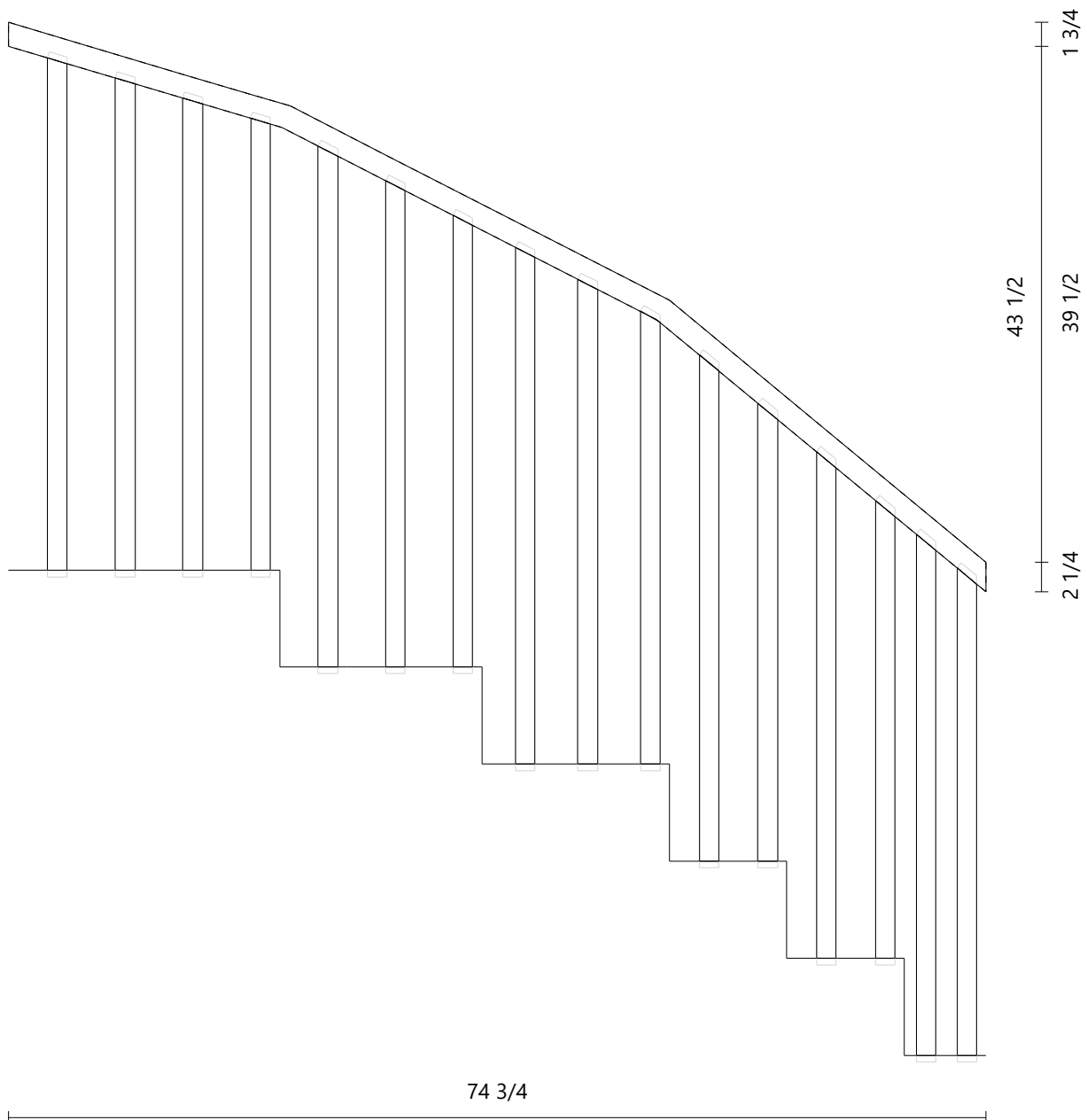
Material beech/hetre
Dimensions $56 \frac{1}{4}" \times 1 \frac{3}{4}"$
Thickness $2 \frac{3}{4}"$



Material beech/hetre
Dimensions 48" × 1 3/4"
Thickness 2 3/4"



Material beech/hetre
Dimensions $86\frac{1}{2}" \times 7\frac{3}{4}"$
Thickness $2\frac{3}{4}"$



End Newel Post

Left Side

Flight: 1

Top View

Material
Dimensions
Height

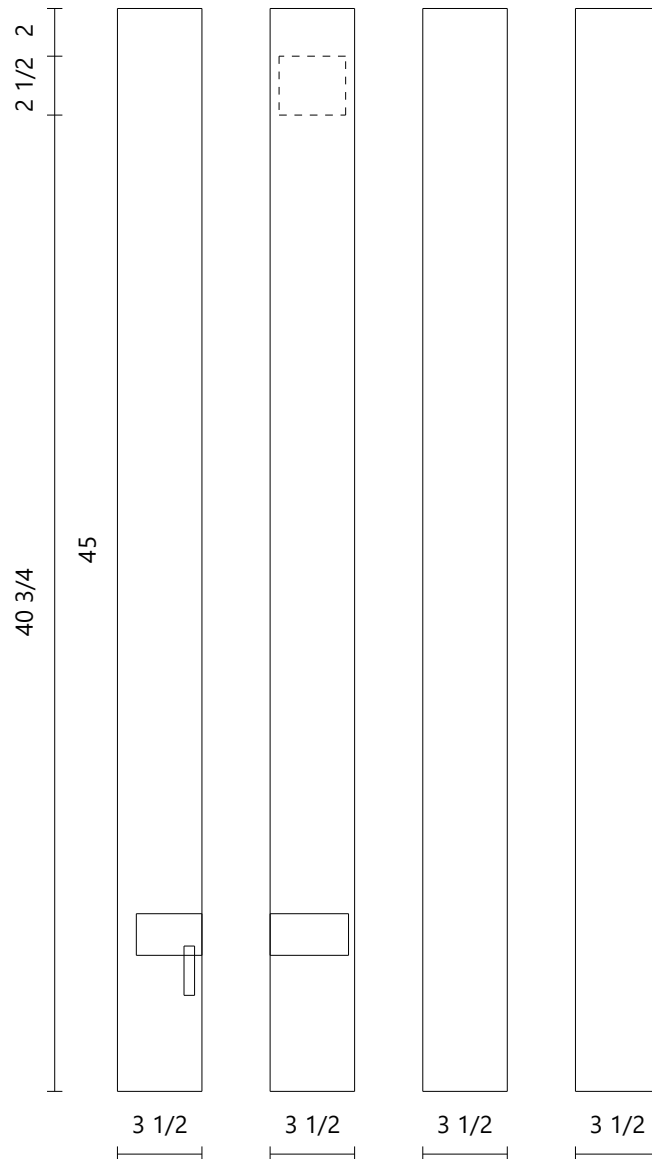
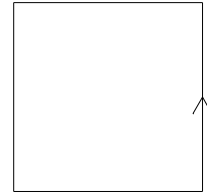
beech/hetre
 $3\frac{1}{2}" \times 3\frac{1}{2}"$
45"

Step #1

Height: $7\frac{1}{2}"$

Face 2

Left Handrail #1



Corner Newel Post

Left Side

Flights: 1-2

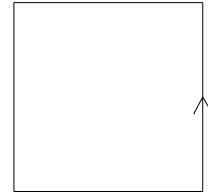
Top View

Material
Dimensions
Height

beech/hetre
 $3\frac{1}{2}" \times 3\frac{1}{2}"$
 $58\frac{1}{2}"$

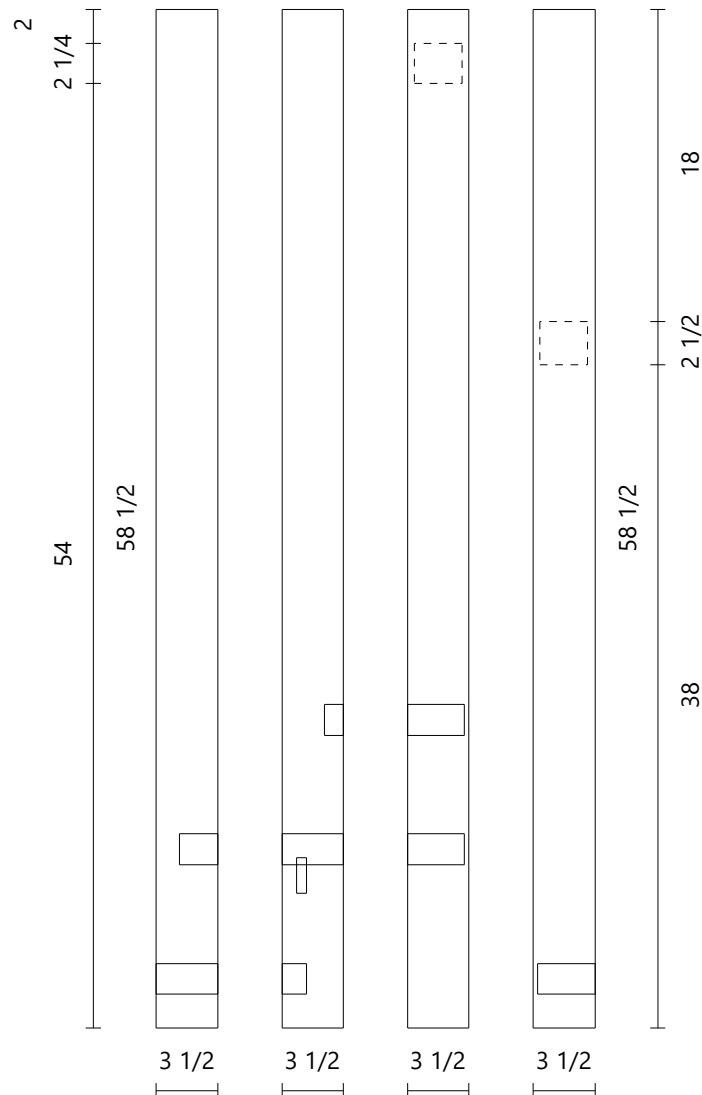
Step #6
Step #7
Step #8

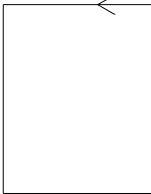
Height: $3\frac{3}{4}"$
Height: $11\frac{1}{4}"$
Height: $18\frac{1}{2}"$

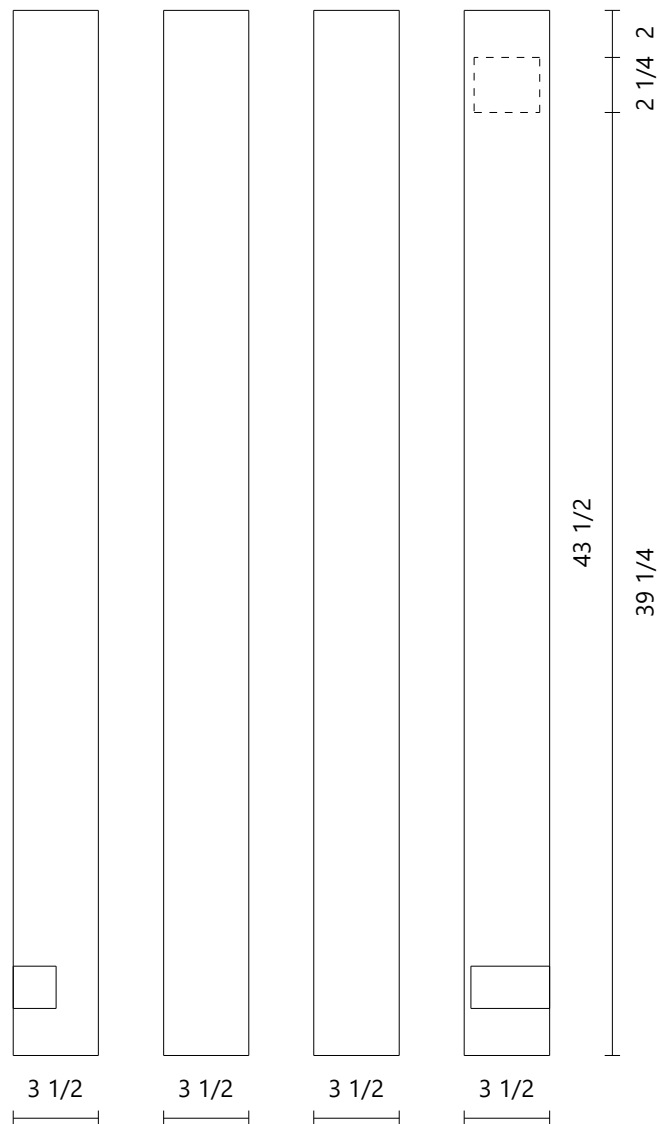


Face 3
Face 4

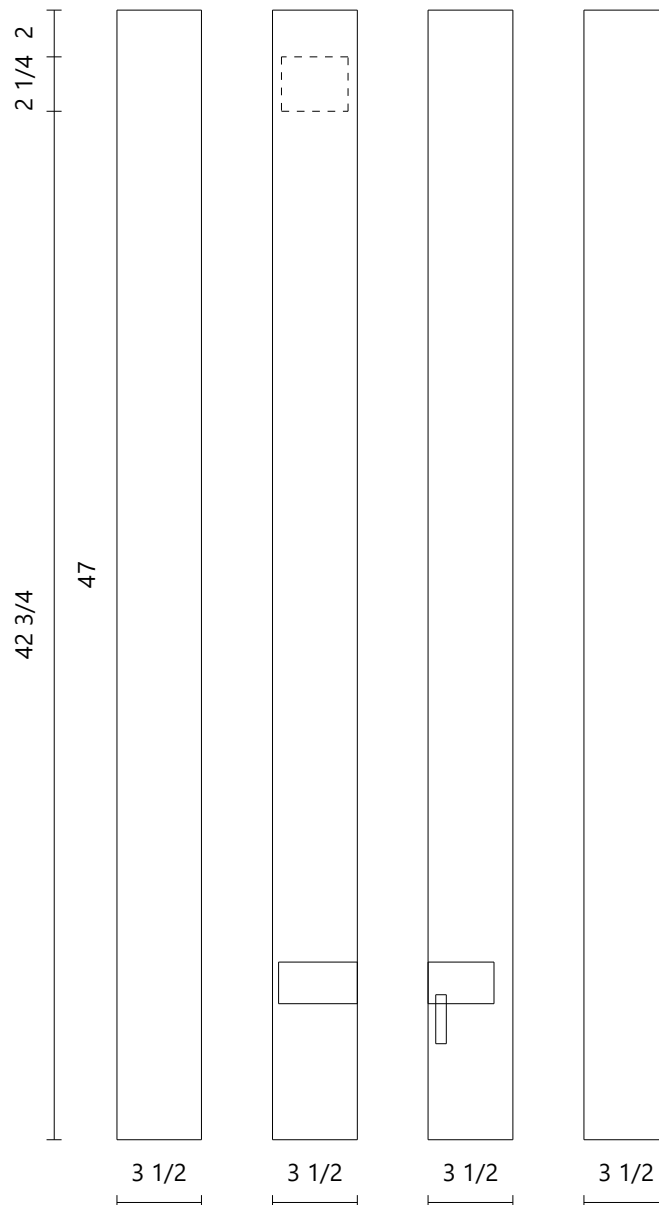
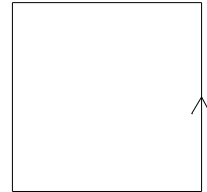
Left Handrail #2
Left Handrail #1



End Newel Post	Left Side	Landing: 1	Top View
Material	beech/hetre		
Dimensions	3 1/2" x 3 1/2"		
Height	43 1/2"		
Step #12	Height: 3 3/4"		
Face 4	Left Handrail #2		



End Newel Post	Right Side	Flight: 1	Top View
Material	beech/hetre		
Dimensions	3 1/2" × 3 1/2"		
Height	47"		
Step #1	Height: 7 1/2"		
Face 2	Right Handrail #1		



Intermediate Newel Post

Right Side

Flights: 1-2

Top View

Material
Dimensions
Height

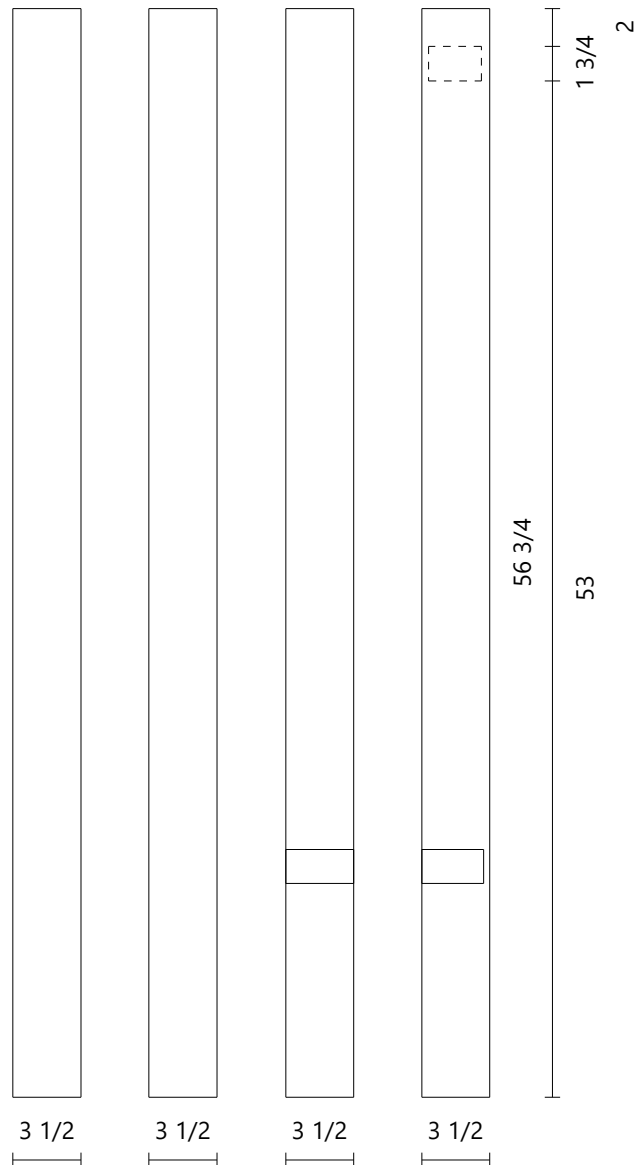
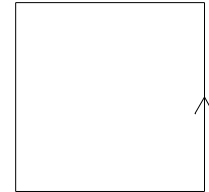
beech/hetre
 $3\frac{1}{2}" \times 3\frac{1}{2}"$
 $56\frac{3}{4}"$

Step #6

Height: 13"

Face 4

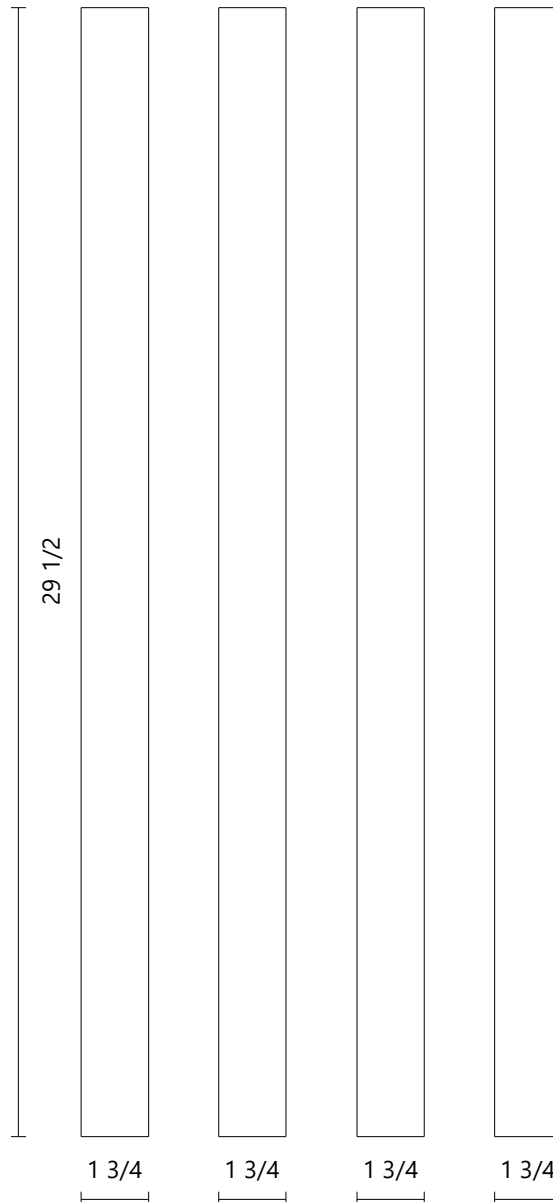
Right Handrail #1



Daniel Michaels

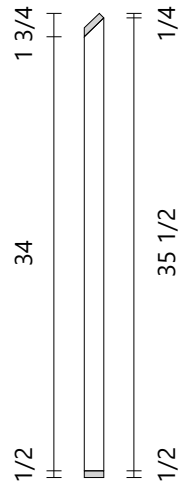
Intermediate Newel Post Right Side Flight: 1

Material black-iron
Dimensions $1\frac{3}{4}" \times 1\frac{3}{4}"$
Height $29\frac{1}{2}"$



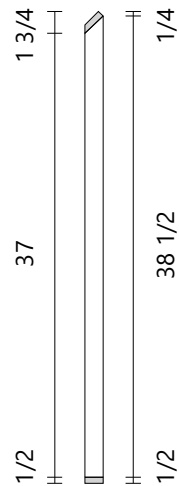
Banister #1

Left Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 36 1/4"



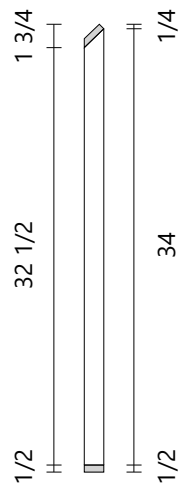
Banister #2

Left Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 39 1/4"



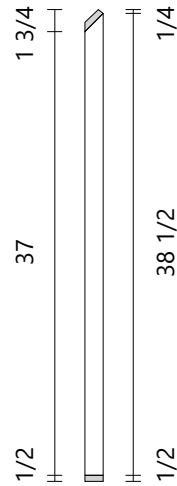
Banister #3

Left Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 35"



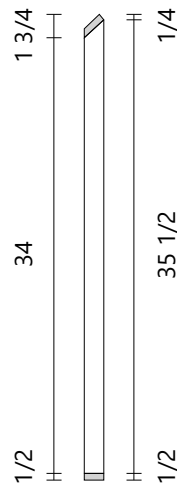
Banister #4

Left Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 39 1/4"



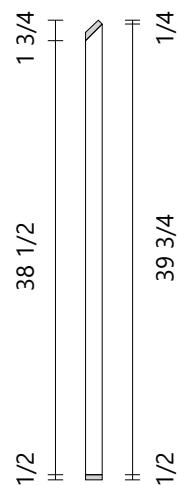
Banister #5

Left Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 36 1/4"



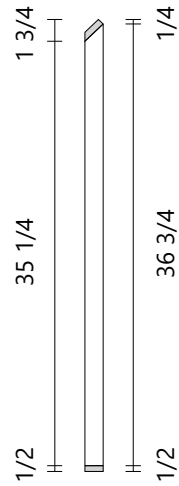
Banister #6

Left Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 40 3/4"



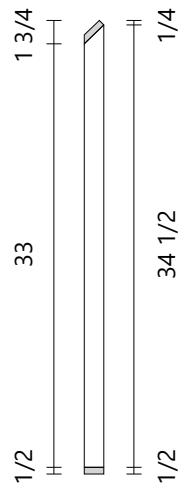
Banister #7

Left Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 37 3/4"



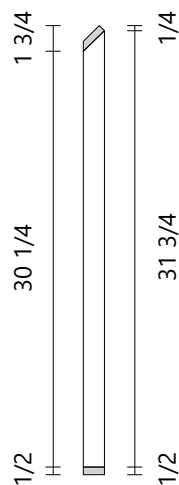
Banister #8

Left Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 35 1/2"



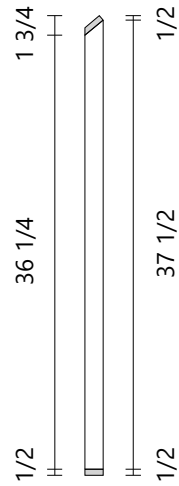
Banister #9

Left Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 32 3/4"



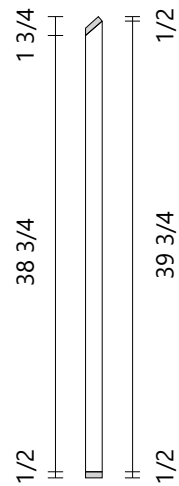
Banister #10

Left Side
Flight #2
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 38 1/4"



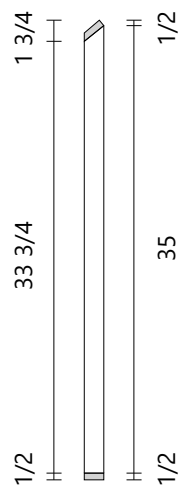
Banister #11

Left Side
Flight #2
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 40 3/4"



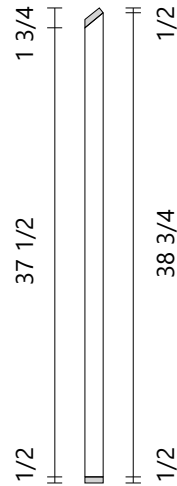
Banister #12

Left Side
Flight #2
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 35 3/4"



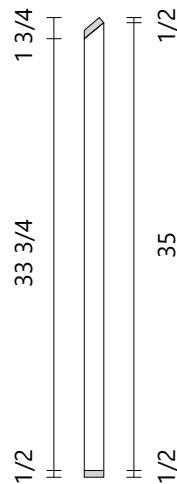
Banister #13

Left Side
Flight #2
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 39 1/2"



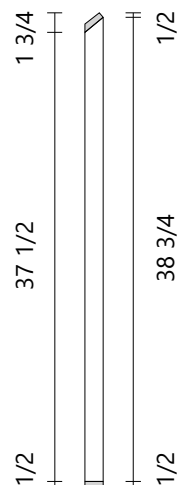
Banister #14

Left Side
Flight #2
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 35 3/4"



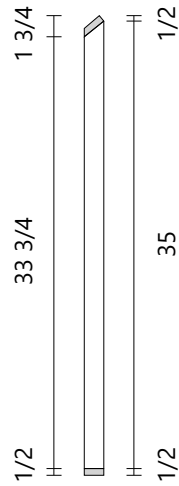
Banister #15

Left Side
Flight #2
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 39 1/2"



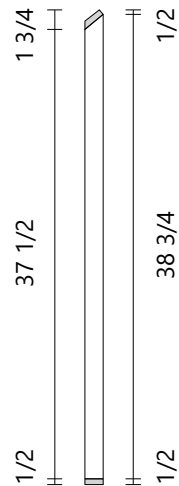
Banister #16

Left Side
Flight #2
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 35 3/4"



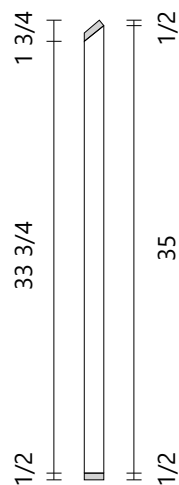
Banister #17

Left Side
Flight #2
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 39 1/2"



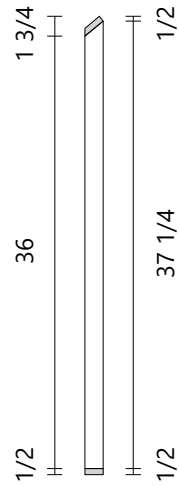
Banister #18

Left Side
Flight #2
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 35 3/4"



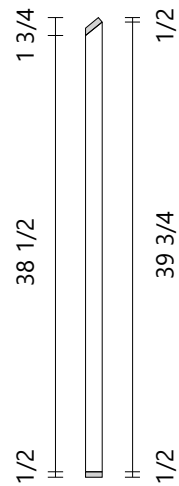
Banister #19

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 38 1/4"



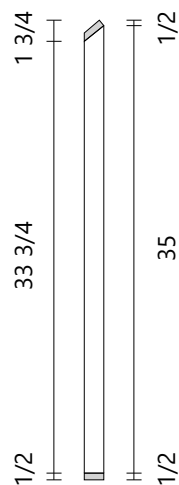
Banister #20

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 40 3/4"



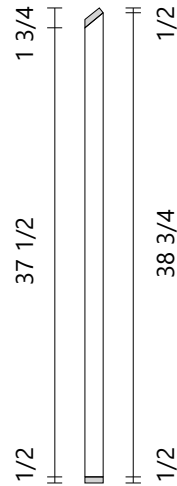
Banister #21

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 36"



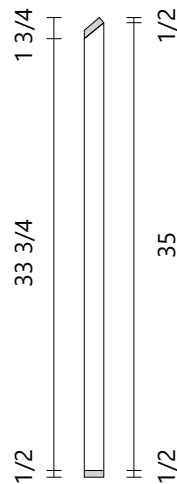
Banister #22

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 39 1/2"



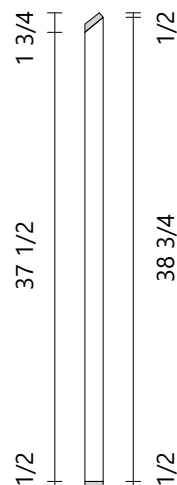
Banister #23

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 36"



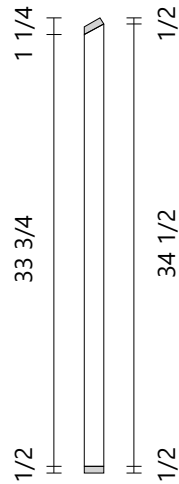
Banister #24

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 39 1/2"



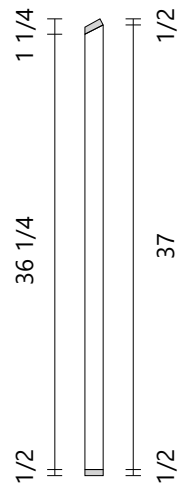
Banister #25

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 35 1/2"



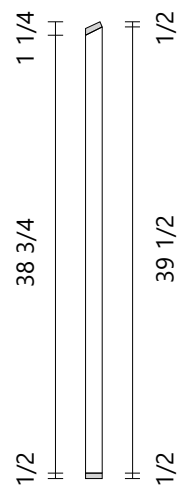
Banister #26

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 38"



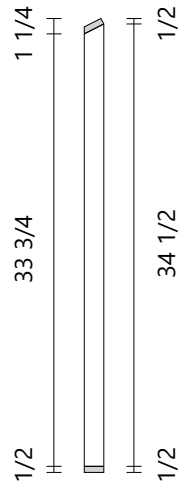
Banister #27

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 40 1/2"



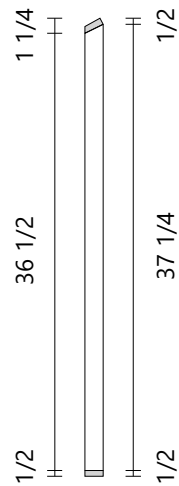
Banister #28

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 35 1/2"



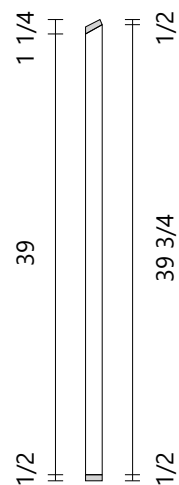
Banister #29

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 38 1/4"



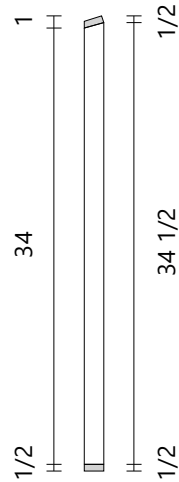
Banister #30

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 40 3/4"



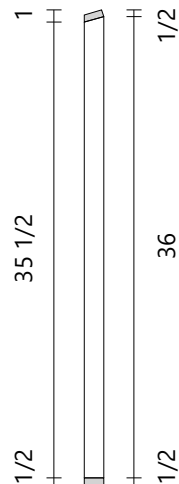
Banister #31

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 35 1/2"



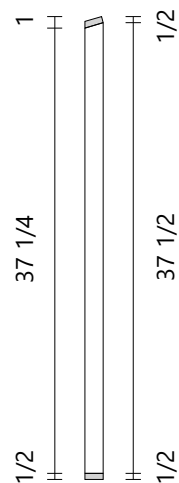
Banister #32

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 37"



Banister #33

Right Side
Flight #1
Material beech/hetre
Section Rectangular
Length 1 1/2"
Width 1 1/2"
Height 38 1/2"



Banister #34

Right Side

Flight #1

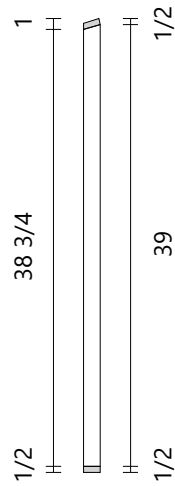
Material beech/hetre

Section Rectangular

Length 1 1/2"

Width 1 1/2"

Height 40"



Part	Material	Dimensions	Cutting List Volume	Real Volume
Step #1	beech/hetre	36 × 11 1/2 × 1 3/4	0.01 m ³	0.01 m ³
Step #2	beech/hetre	36 × 11 1/2 × 1 3/4	0.01 m ³	0.01 m ³
Step #3	beech/hetre	36 × 11 1/2 × 1 3/4	0.01 m ³	0.01 m ³
Step #4	beech/hetre	36 × 17 1/4 × 1 3/4	0.02 m ³	0.01 m ³
Step #5	beech/hetre	42 1/4 × 18 × 1 3/4	0.02 m ³	0.01 m ³
Step #6	beech/hetre	52 1/4 × 23 3/4 × 1 3/4	0.04 m ³	0.02 m ³
Step #7	beech/hetre	51 1/2 × 22 × 1 3/4	0.03 m ³	0.02 m ³
Step #8	beech/hetre	41 × 15 × 1 3/4	0.02 m ³	0.01 m ³
Step #9	beech/hetre	39 × 11 1/2 × 1 3/4	0.01 m ³	0.01 m ³
Step #10	beech/hetre	39 × 11 1/2 × 1 3/4	0.01 m ³	0.01 m ³
Step #11	beech/hetre	39 × 11 1/2 × 1 3/4	0.01 m ³	0.01 m ³
Step #12	beech/hetre	39 × 4 3/4 × 1 3/4	0.01 m ³	0.01 m ³
Riser #1	beech/hetre	30 1/4 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #2	beech/hetre	36 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #3	beech/hetre	36 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #4	beech/hetre	36 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #5	beech/hetre	37 1/2 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #6	beech/hetre	42 1/4 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #7	beech/hetre	45 1/4 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #8	beech/hetre	39 1/2 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #9	beech/hetre	39 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #10	beech/hetre	39 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #11	beech/hetre	39 × 2 × 1/2	0.00 m ³	0.00 m ³
Riser #12	beech/hetre	39 × 2 × 1/2	0.00 m ³	0.00 m ³
Left Cut String #1	beech/hetre	64 × 14 3/4 × 1 3/4	0.03 m ³	0.02 m ³
Left Cut String #2	beech/hetre	74 1/4 × 15 1/2 × 1 3/4	0.03 m ³	0.02 m ³
Right Cut String #1	beech/hetre	93 × 20 × 1 3/4	0.05 m ³	0.03 m ³
Right Cut String #2	beech/hetre	83 1/4 × 19 × 1 3/4	0.05 m ³	0.02 m ³
Left Handrail #1	beech/hetre	56 1/4 × 1 3/4 × 2 3/4	0.00 m ³	0.00 m ³
Left Handrail #2	beech/hetre	48 × 1 3/4 × 2 3/4	0.00 m ³	0.00 m ³
Right Handrail #1	beech/hetre	86 1/2 × 7 3/4 × 2 3/4	0.03 m ³	0.01 m ³
Newel Post #1	beech/hetre	3 1/2 × 3 1/2 × 45	0.01 m ³	0.01 m ³
Newel Post #2	beech/hetre	3 1/2 × 3 1/2 × 58 1/2	0.01 m ³	0.01 m ³
Newel Post #3	beech/hetre	3 1/2 × 3 1/2 × 43 1/2	0.01 m ³	0.01 m ³
Newel Post #4	beech/hetre	3 1/2 × 3 1/2 × 47	0.01 m ³	0.01 m ³
Newel Post #5	beech/hetre	3 1/2 × 3 1/2 × 56 3/4	0.01 m ³	0.01 m ³
Newel Post #6	black-iron	1 3/4 × 1 3/4 × 29 1/2	0.00 m ³	0.00 m ³
Banister #1	beech/hetre	1 1/2 × 1 1/2 × 36 1/4	0.00 m ³	0.00 m ³
Banister #2	beech/hetre	1 1/2 × 1 1/2 × 39 1/4	0.00 m ³	0.00 m ³
Banister #3	beech/hetre	1 1/2 × 1 1/2 × 35	0.00 m ³	0.00 m ³
Banister #4	beech/hetre	1 1/2 × 1 1/2 × 39 1/4	0.00 m ³	0.00 m ³
Banister #5	beech/hetre	1 1/2 × 1 1/2 × 36 1/4	0.00 m ³	0.00 m ³
Banister #6	beech/hetre	1 1/2 × 1 1/2 × 40 3/4	0.00 m ³	0.00 m ³
Banister #7	beech/hetre	1 1/2 × 1 1/2 × 37 3/4	0.00 m ³	0.00 m ³
Banister #8	beech/hetre	1 1/2 × 1 1/2 × 35 1/2	0.00 m ³	0.00 m ³
Banister #9	beech/hetre	1 1/2 × 1 1/2 × 32 3/4	0.00 m ³	0.00 m ³
Banister #10	beech/hetre	1 1/2 × 1 1/2 × 38 1/4	0.00 m ³	0.00 m ³
Banister #11	beech/hetre	1 1/2 × 1 1/2 × 40 3/4	0.00 m ³	0.00 m ³
Banister #12	beech/hetre	1 1/2 × 1 1/2 × 35 3/4	0.00 m ³	0.00 m ³

Part	Material	Dimensions	Cutting List Volume	Real Volume
Banister #13	beech/hetre	1 1/2 × 1 1/2 × 39 1/2	0.00 m ³	0.00 m ³
Banister #14	beech/hetre	1 1/2 × 1 1/2 × 35 3/4	0.00 m ³	0.00 m ³
Banister #15	beech/hetre	1 1/2 × 1 1/2 × 39 1/2	0.00 m ³	0.00 m ³
Banister #16	beech/hetre	1 1/2 × 1 1/2 × 35 3/4	0.00 m ³	0.00 m ³
Banister #17	beech/hetre	1 1/2 × 1 1/2 × 39 1/2	0.00 m ³	0.00 m ³
Banister #18	beech/hetre	1 1/2 × 1 1/2 × 35 3/4	0.00 m ³	0.00 m ³
Banister #19	beech/hetre	1 1/2 × 1 1/2 × 38 1/4	0.00 m ³	0.00 m ³
Banister #20	beech/hetre	1 1/2 × 1 1/2 × 40 3/4	0.00 m ³	0.00 m ³
Banister #21	beech/hetre	1 1/2 × 1 1/2 × 36	0.00 m ³	0.00 m ³
Banister #22	beech/hetre	1 1/2 × 1 1/2 × 39 1/2	0.00 m ³	0.00 m ³
Banister #23	beech/hetre	1 1/2 × 1 1/2 × 36	0.00 m ³	0.00 m ³
Banister #24	beech/hetre	1 1/2 × 1 1/2 × 39 1/2	0.00 m ³	0.00 m ³
Banister #25	beech/hetre	1 1/2 × 1 1/2 × 35 1/2	0.00 m ³	0.00 m ³
Banister #26	beech/hetre	1 1/2 × 1 1/2 × 38	0.00 m ³	0.00 m ³
Banister #27	beech/hetre	1 1/2 × 1 1/2 × 40 1/2	0.00 m ³	0.00 m ³
Banister #28	beech/hetre	1 1/2 × 1 1/2 × 35 1/2	0.00 m ³	0.00 m ³
Banister #29	beech/hetre	1 1/2 × 1 1/2 × 38 1/4	0.00 m ³	0.00 m ³
Banister #30	beech/hetre	1 1/2 × 1 1/2 × 40 3/4	0.00 m ³	0.00 m ³
Banister #31	beech/hetre	1 1/2 × 1 1/2 × 35 1/2	0.00 m ³	0.00 m ³
Banister #32	beech/hetre	1 1/2 × 1 1/2 × 37	0.00 m ³	0.00 m ³
Banister #33	beech/hetre	1 1/2 × 1 1/2 × 38 1/2	0.00 m ³	0.00 m ³
Banister #34	beech/hetre	1 1/2 × 1 1/2 × 40	0.00 m ³	0.00 m ³

Material	Cutting List Volume	Real Volume	Weight	Price
Steps				
beech/hetre	0.20 m ³	0.15 m ³	106.90 kg	1.075,08 €
Risers				
beech/hetre	0.01 m ³	0.01 m ³	4.83 kg	36,82 €
Lateral Cut Strings				
beech/hetre	0.16 m ³	0.09 m ³	61.68 kg	832,42 €
Handrails				
beech/hetre	0.04 m ³	0.01 m ³	10.29 kg	200,32 €
Newel Posts				
beech/hetre	0.05 m ³	0.05 m ³	35.61 kg	270,92 €
black-iron	0.00 m ³	0.00 m ³	7.38 kg	0,15 €
Banisters				
beech/hetre	0.05 m ³	0.05 m ³	32.32 kg	248,45 €
Total	0.51 m³	0.36 m³	259.01 kg	2.664,16 €