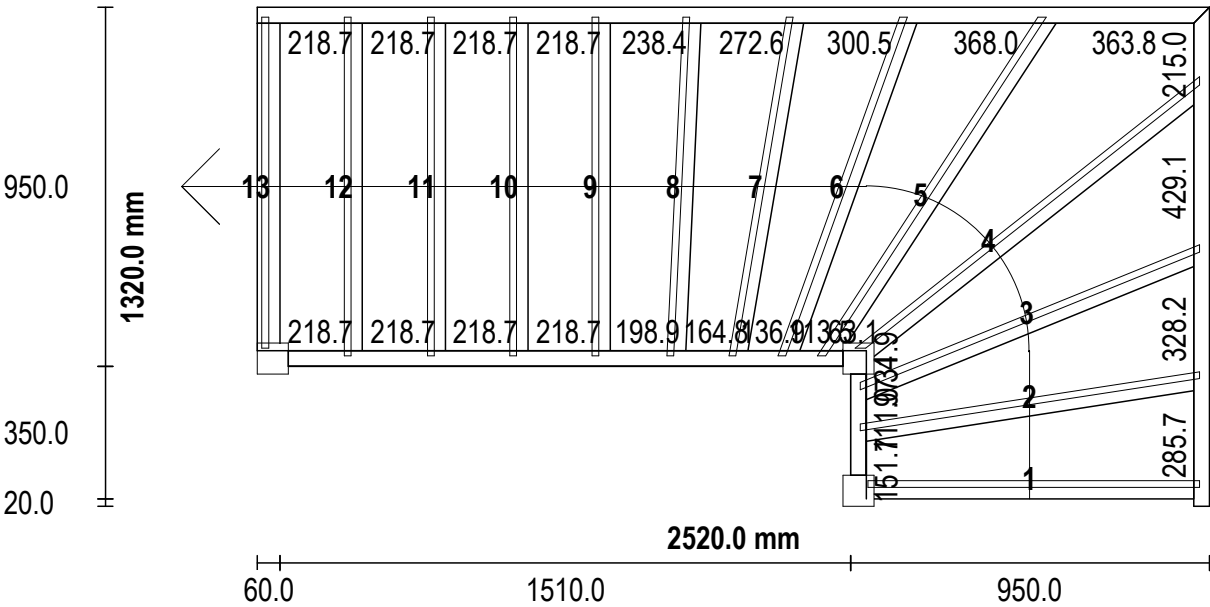


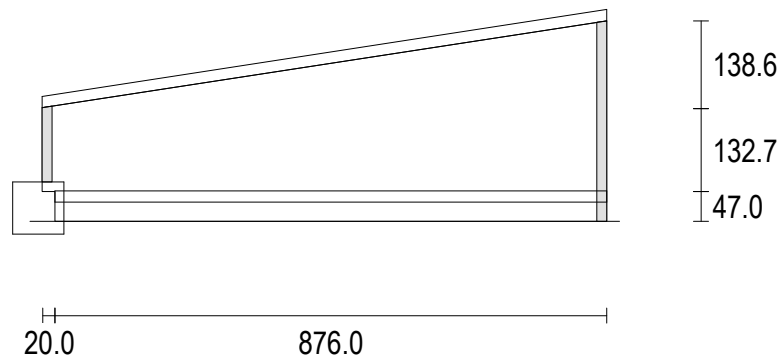
Multi-Flight Stair		Riser Height	: 201.2 mm
Risers	: 13	Tread Width	: 218.7 mm
Floor Height	: 2615.0 mm	Stair Rule	: 621.1 mm



Step : 896.0 x 318.3

Riser

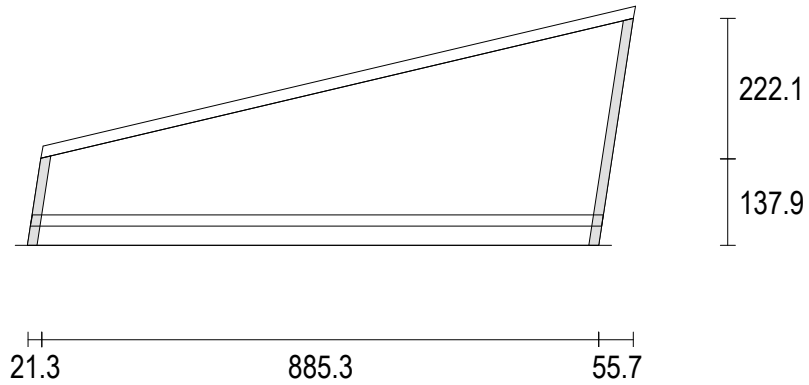
Width : 876.0 Height : 169.2 Thickness : 18.0 Angle : -0.00



Step : 962.4 x 360.0

Riser

Width : 909.4 Height : 211.2 Thickness : 18.0 Angle : -8.79



StairDesigner  
Step : 3

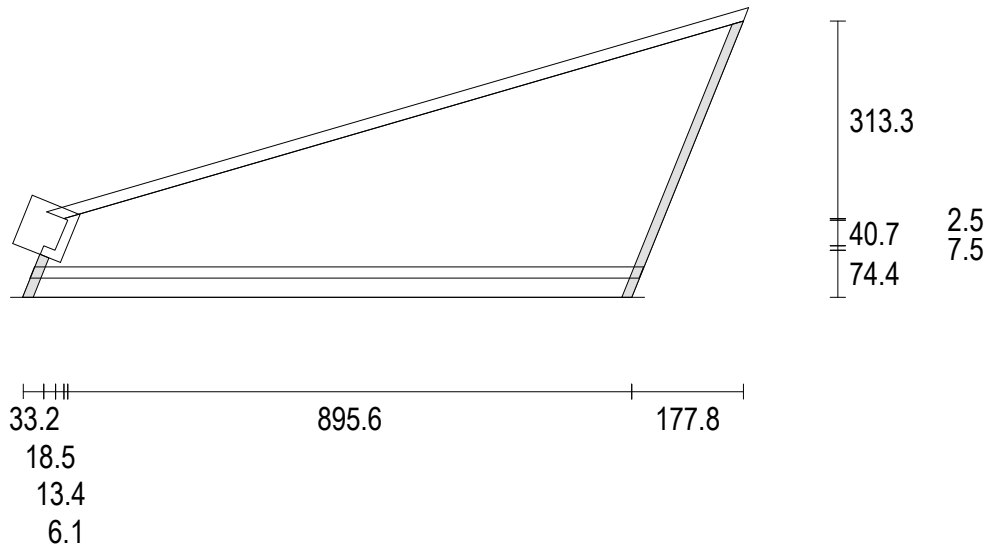
**Vidar Tvedten**

vidar01v02  
Scale : 1/12

Step : 1144.7 x 438.4

Riser

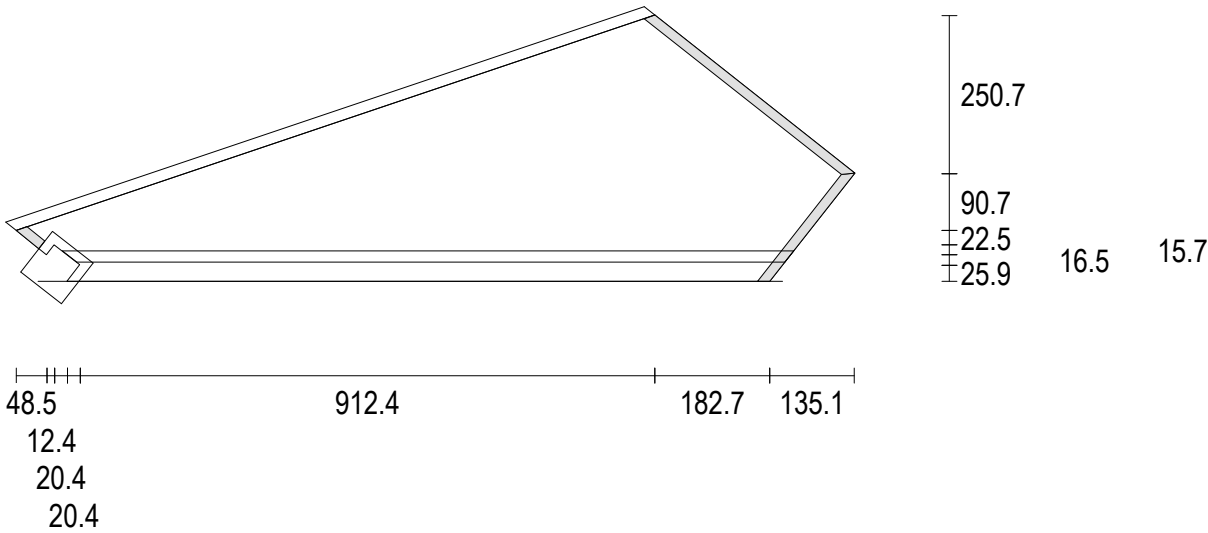
Width : 974.2 Height : 211.2 Thickness : 18.0 Angle : -22.07



Step : 1332.0 x 422.0

Riser

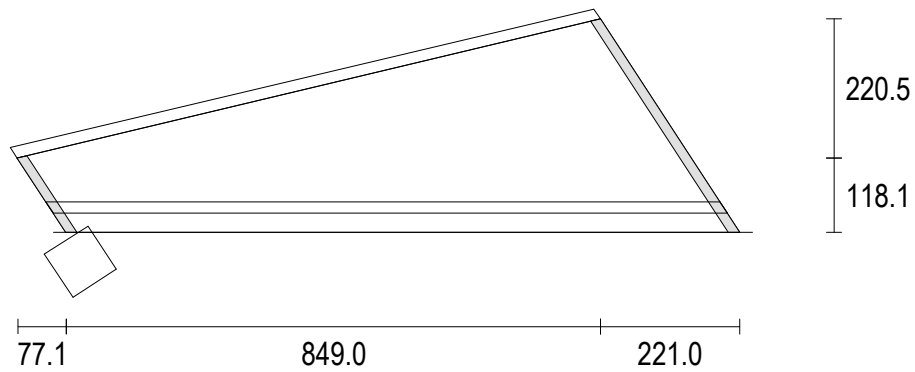
Width : 1161.0 Height : 211.2 Thickness : 18.0 Angle R:-38.26 ; L:51.74



Step : 1147.1 x 338.6

Riser

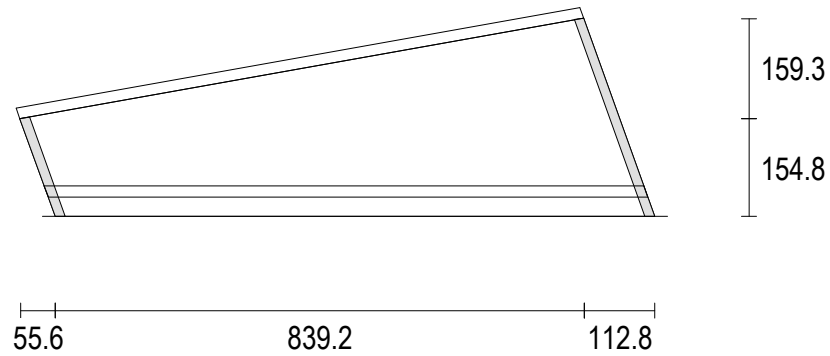
Width : 1081.8 Height : 211.2 Thickness : 18.0 Angle : 33.14



Step : 1007.6 x 314.1

Riser

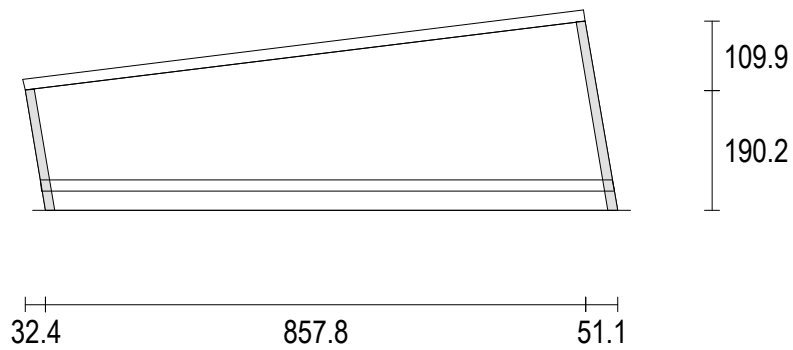
Width : 958.5 Height : 211.2 Thickness : 18.0 Angle : 19.75



Step : 941.2 x 300.2

Riser

Width : 911.9 Height : 211.2 Thickness : 18.0 Angle : 9.65

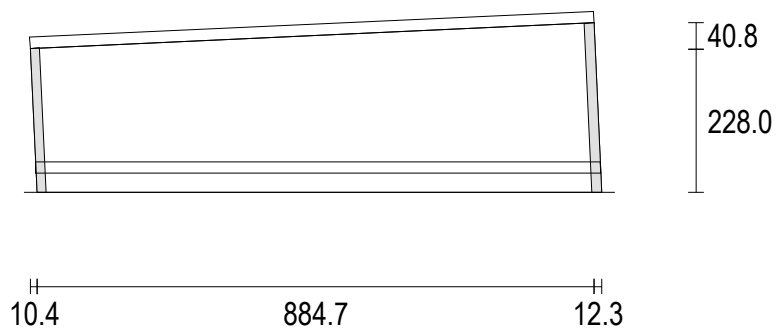




Step : 907.3 x 268.8

Riser

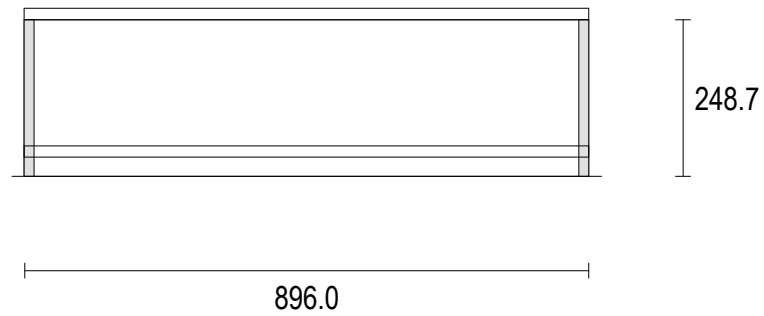
Width : 897.8 Height : 211.2 Thickness : 18.0 Angle : 2.61



Step : 896.0 x 248.7

Riser

Width : 896.0 Height : 211.2 Thickness : 18.0 Angle : 0.00



StairDesigner  
Step : 10

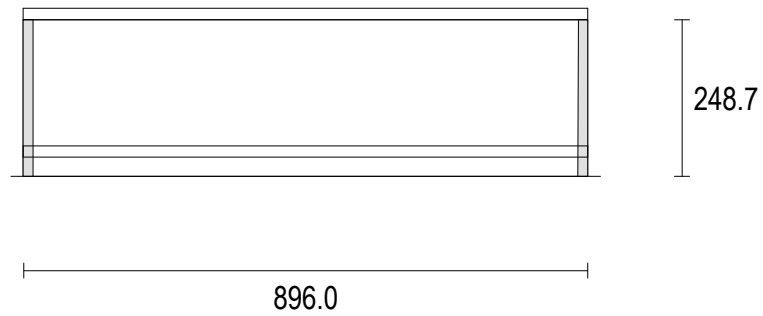
**Vidar Tvedten**

vidar01v02  
Scale : 1/12

Step : 896.0 x 248.7

Riser

Width : 896.0 Height : 211.2 Thickness : 18.0 Angle : 0.00



StairDesigner  
Step : 11

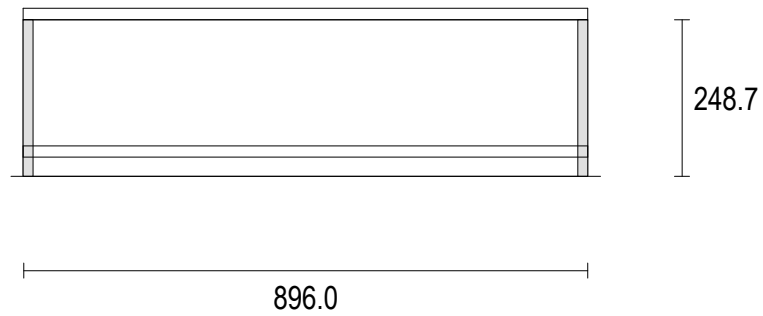
**Vidar Tvedten**

vidar01v02  
Scale : 1/12

Step : 896.0 x 248.7

Riser

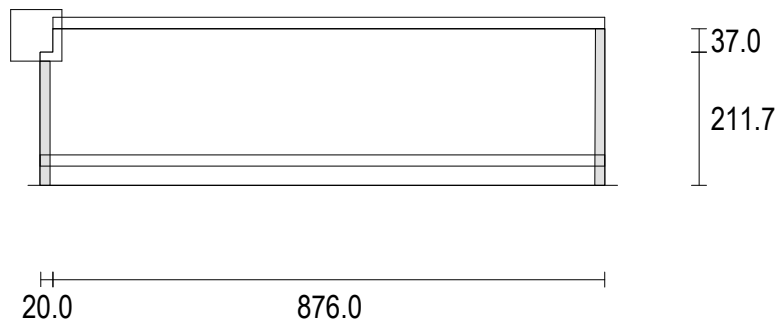
Width : 896.0 Height : 211.2 Thickness : 18.0 Angle : 0.00



Step : 896.0 x 248.7

Riser

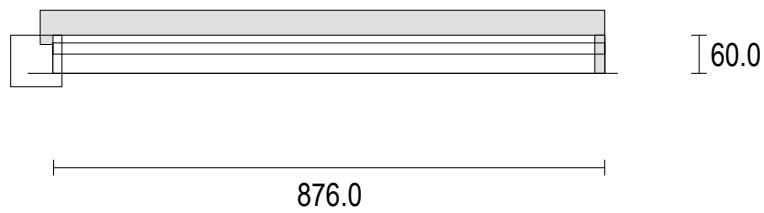
Width : 896.0 Height : 211.2 Thickness : 18.0 Angle : 0.00



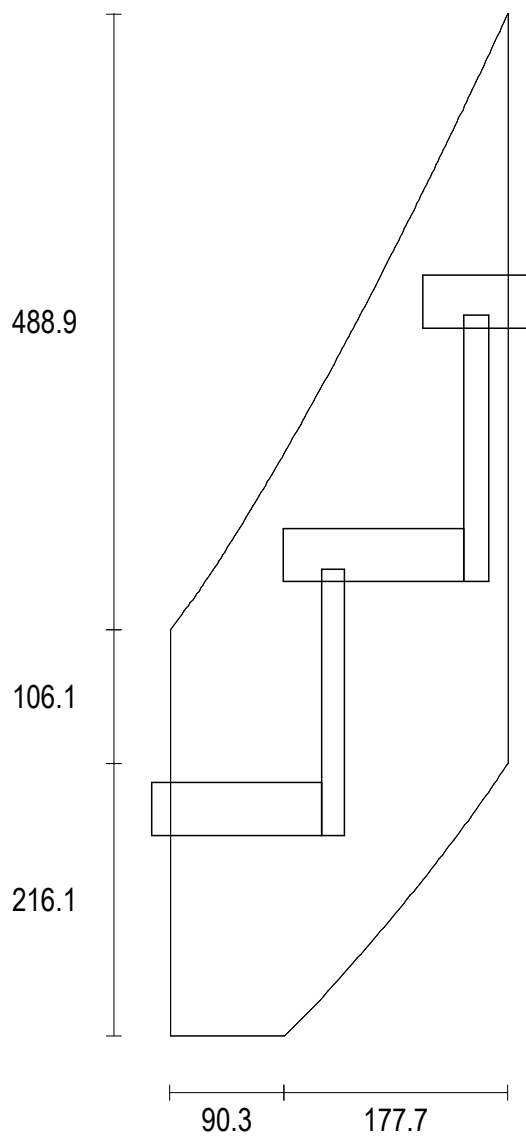
Landing Step

Riser

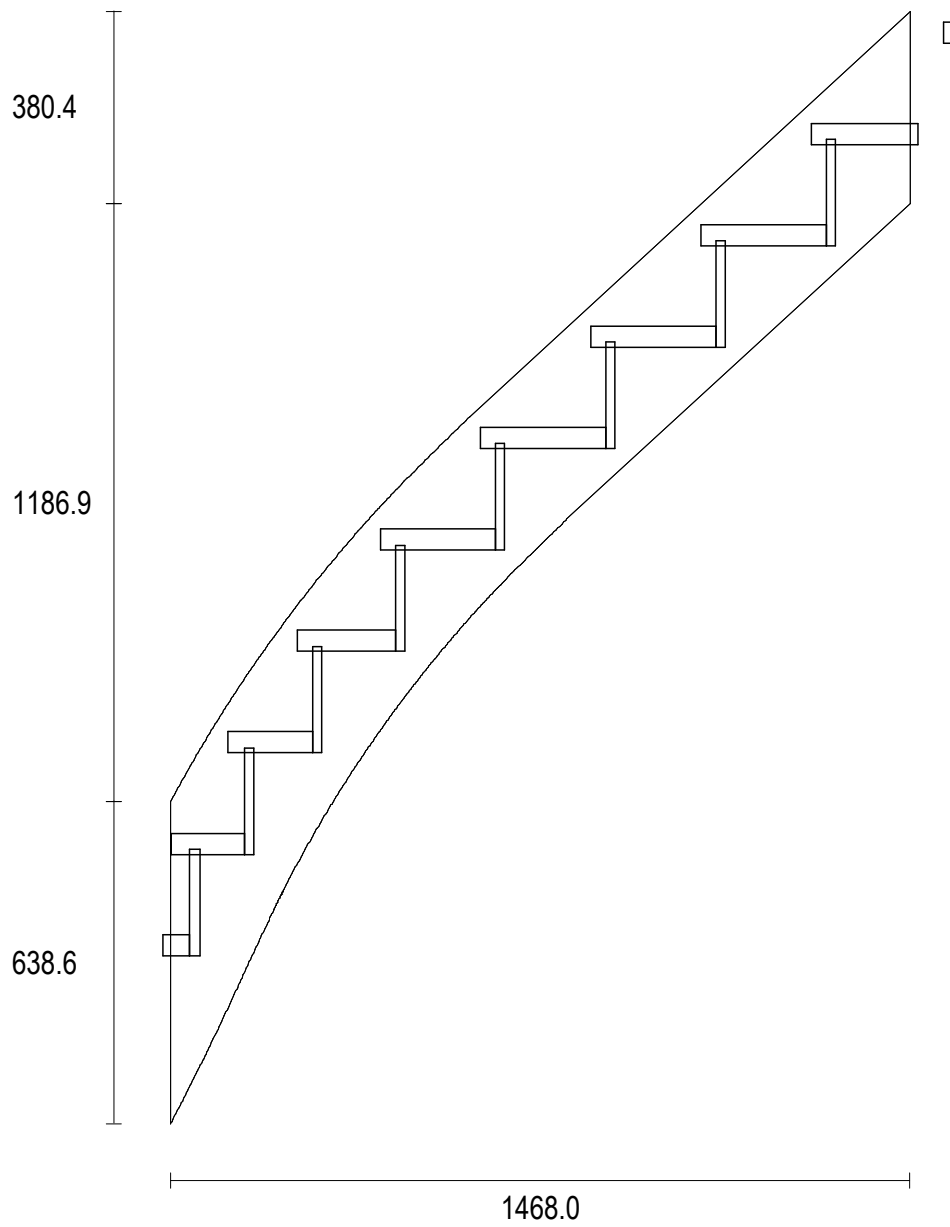
Width : 876.0 Height : 211.2 Thickness : 18.0 Angle : 0.00



Dimensions : 811.1 x 268.0 (90.0°)

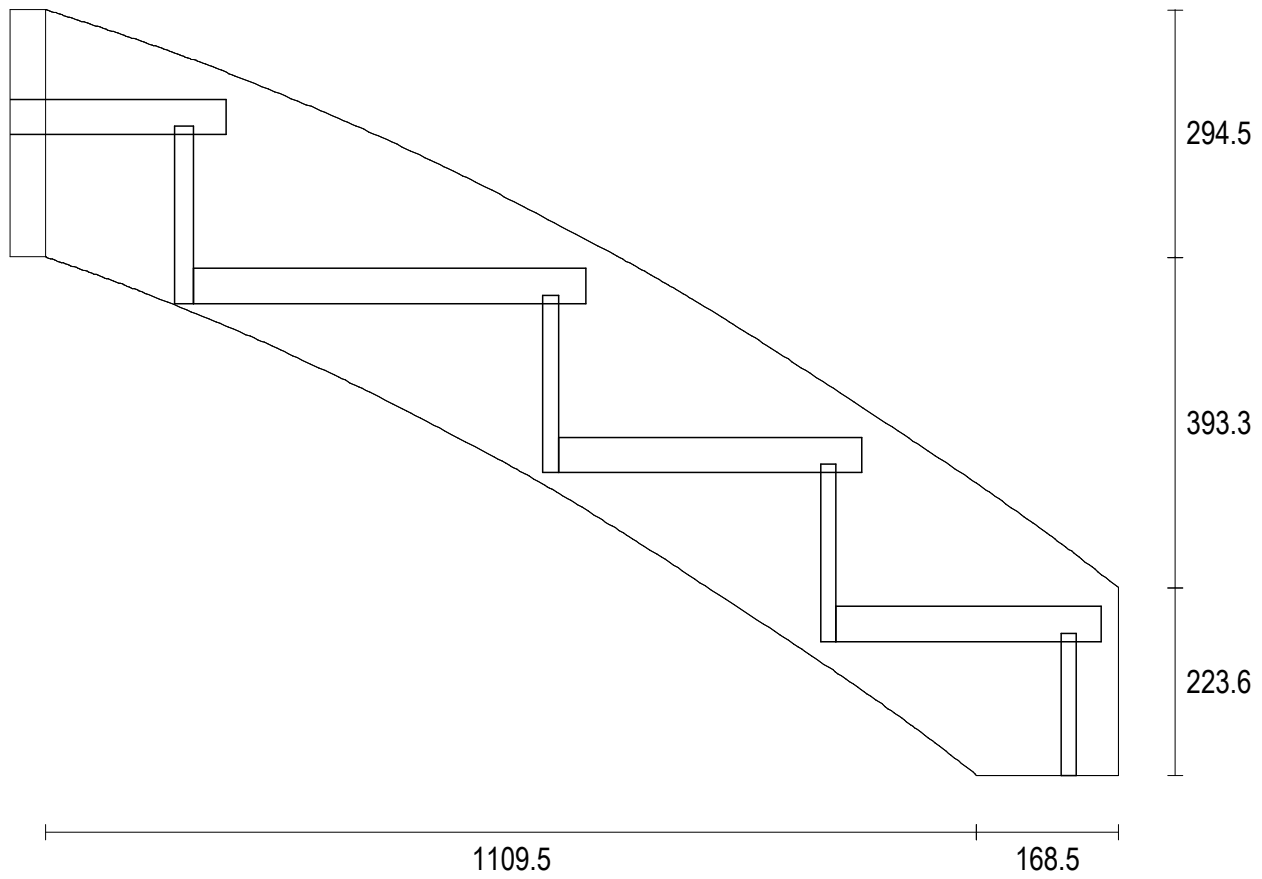


Dimensions : 2639.0 x 449.1 (51.2°)

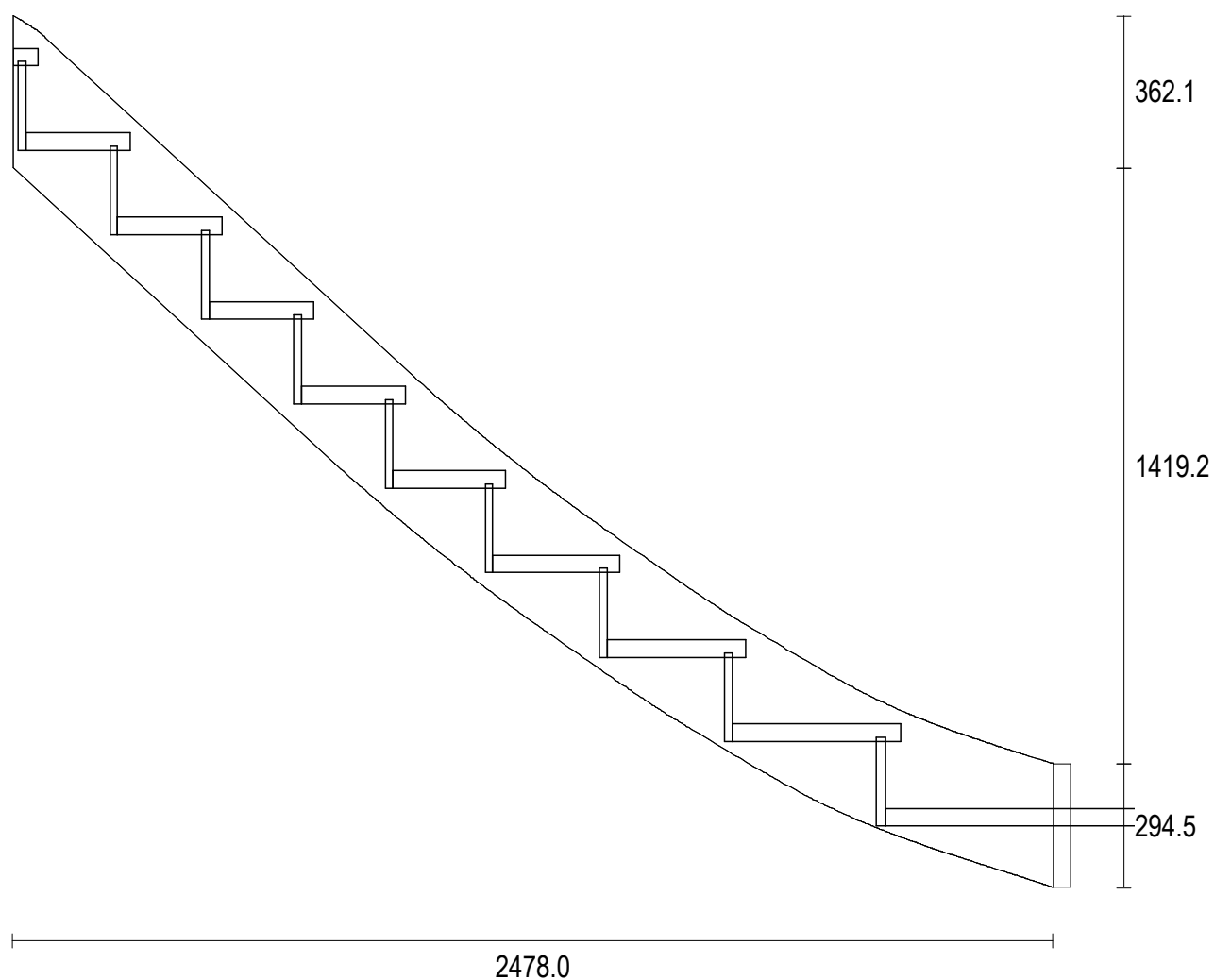




Dimensions : 1593.9 x 342.3 (28.2°)



Dimensions : 3256.3 x 466.1 (35.3°)



StairDesigner  
Newel Post : 1

**Vidar Tvedten**

vidar01v02  
Scale : 1/16

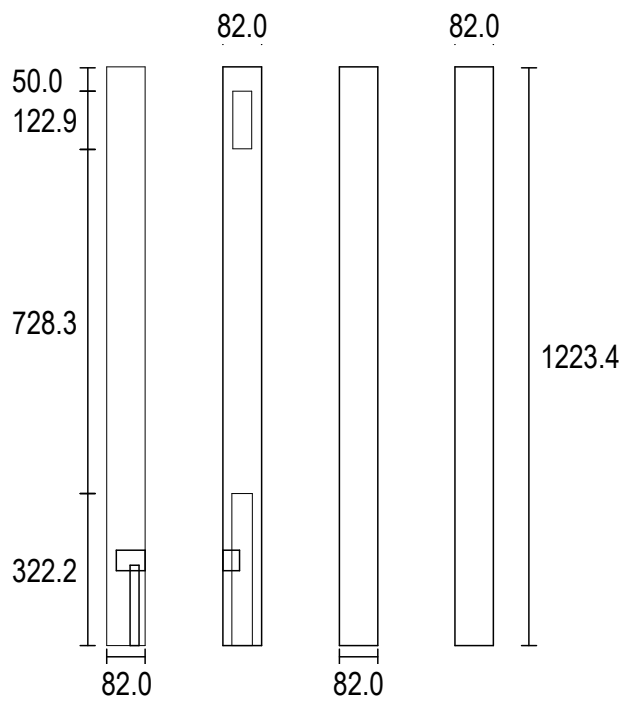
Extremity Newel Post Left Stringboard Flight : 1

Top View

Height : 1223.4

Step 1 Height : 201.2

Front 2 : Stringboard : 0.00 / 52.96 Handrail : 48.57 / 50.88



StairDesigner  
Newel Post : 2

**Vidar Tvedten**

vidar01v02  
Scale : 1/16

Corner Newel Post Left Stringboard Flight : 1-2

Top View

Height : 1953.5

Angle : 90.00

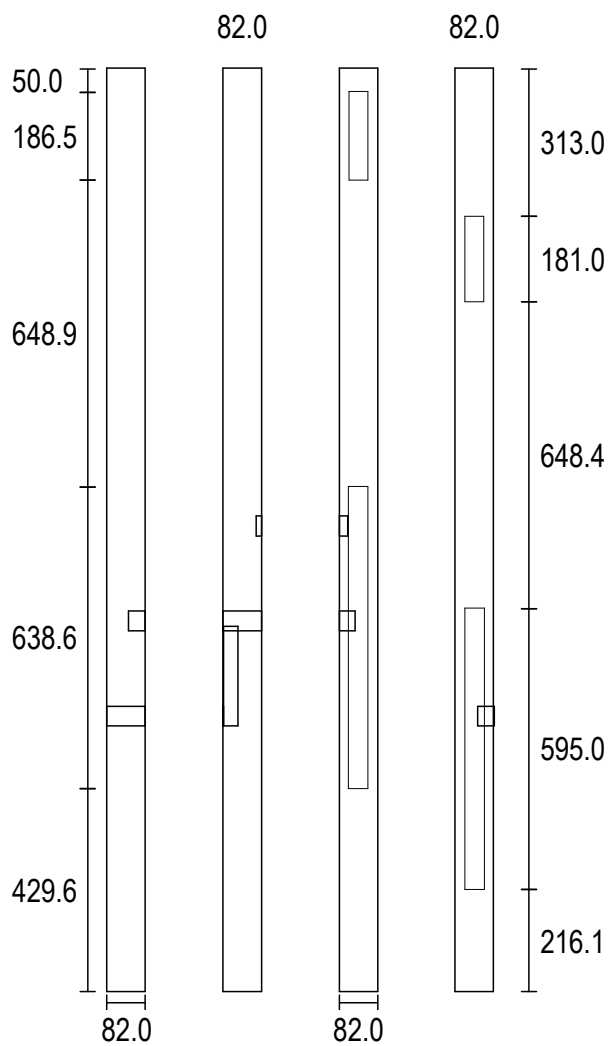
Step 3 Height : 603.5

Step 4 Height : 804.6

Step 5 Height : 1005.8

Front 3 : Stringboard : 62.07 / 61.75 Handrail : 65.07 / 63.06

Front 4 : Stringboard : 56.44 / 65.13 Handrail : 62.84 / 64.57



StairDesigner  
Newel Post : 3

**Vidar Tvedten**

vidar01v02  
Scale : 1/16

Extremity Newel Post Left Stringboard Flight : 2

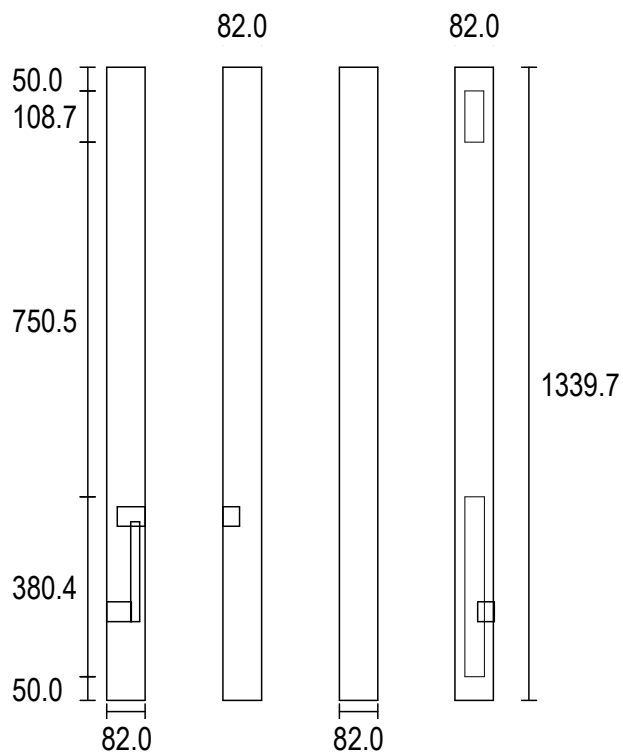
Top View

Height : 1339.7

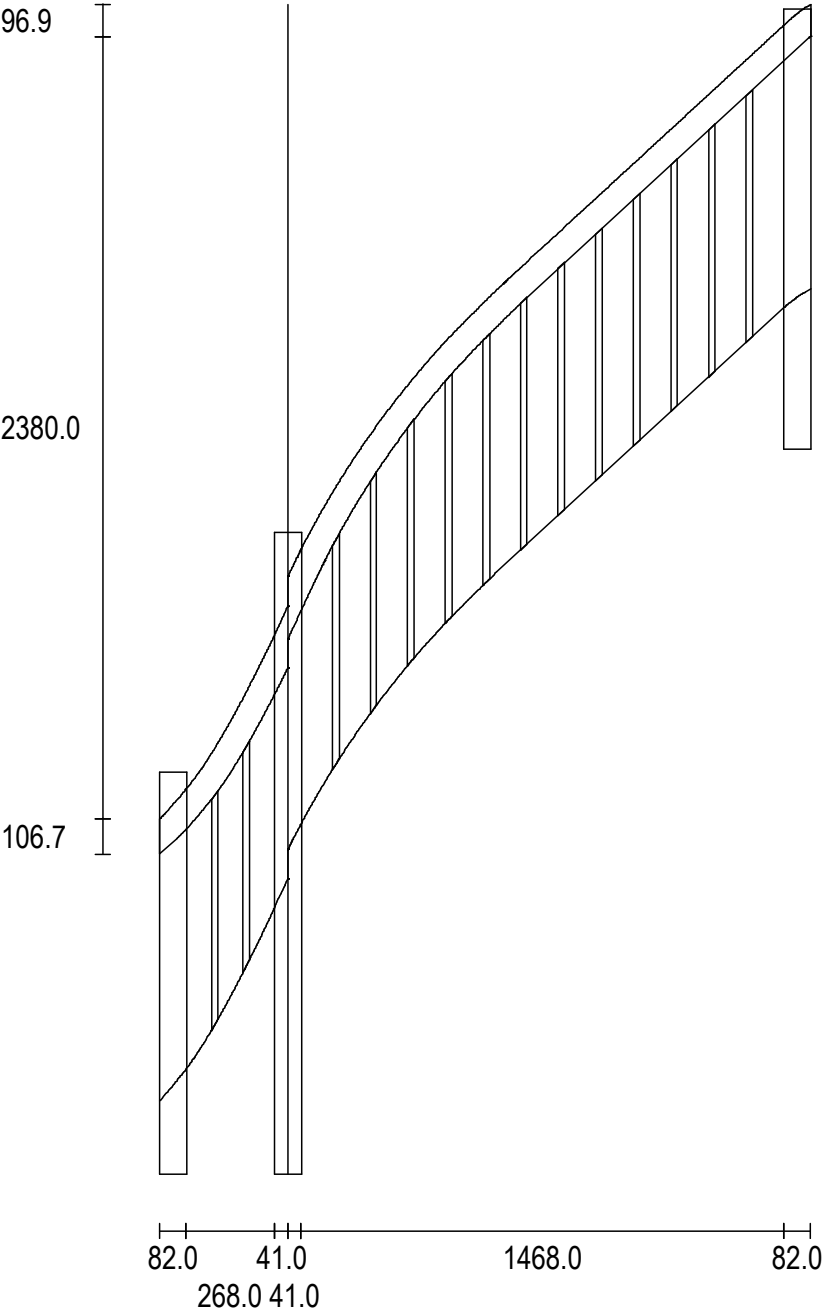
Step 12 Height : 208.8

Step 13 Height : 409.9

Front 4 : Stringboard : 42.61 Handrail : 42.61



Dimensions : 3256.0 x 309.2 (51.8°)



StairDesigner  
Banister : 1-3

Vidar Tvedten

vidar01v02

Banister : 1

Flight : 1

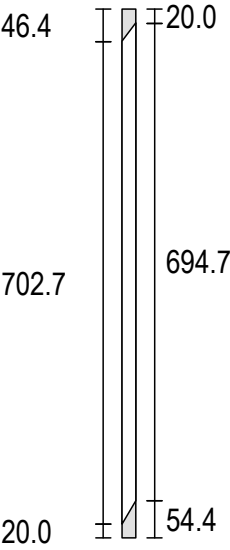
Position : 168.0

Height from Ground Level : 437.8

Angle : 52.96 / 59.82

Height : 769.0

Shaft Diameter : 20.0



Banister : 2

Flight : 1

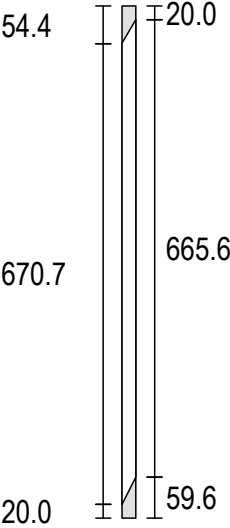
Position : 264.0

Height from Ground Level : 613.3

Angle : 59.90 / 63.19

Height : 745.1

Shaft Diameter : 20.0



Banister : 3

Flight : 2

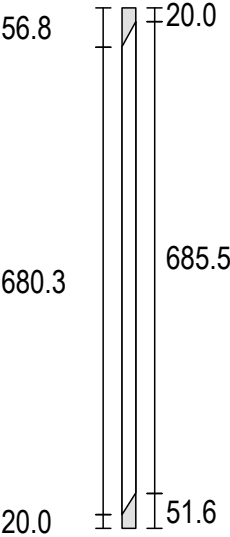
Position : 145.5

Height from Ground Level : 1231.2

Angle : 61.46 / 57.65

Height : 757.1

Shaft Diameter : 20.0



StairDesigner  
Banister : 4-6

Vidar Tvedten

vidar01v02

Banister : 4

Flight : 2

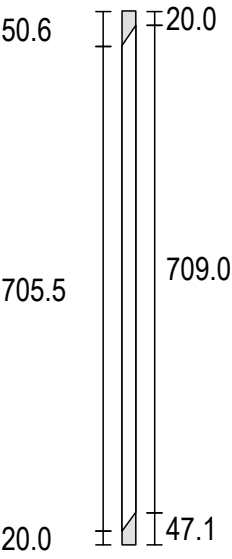
Position : 259.9

Height from Ground Level : 1400.8

Angle : 56.81 / 53.56

Height : 776.1

Shaft Diameter : 20.0



Banister : 5

Flight : 2

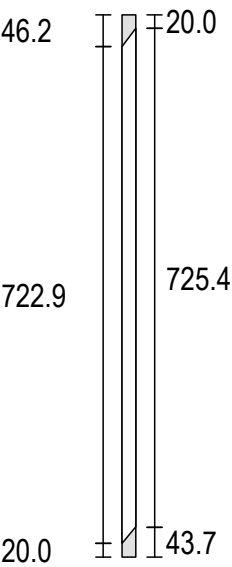
Position : 374.4

Height from Ground Level : 1547.6

Angle : 52.68 / 49.90

Height : 789.1

Shaft Diameter : 20.0



Banister : 6

Flight : 2

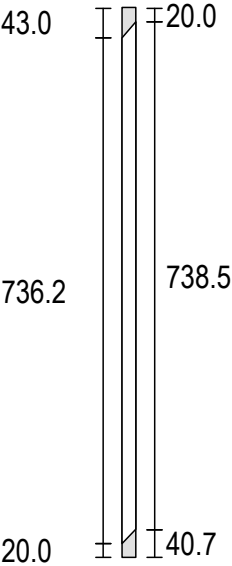
Position : 488.8

Height from Ground Level : 1676.3

Angle : 48.93 / 45.93

Height : 799.2

Shaft Diameter : 20.0



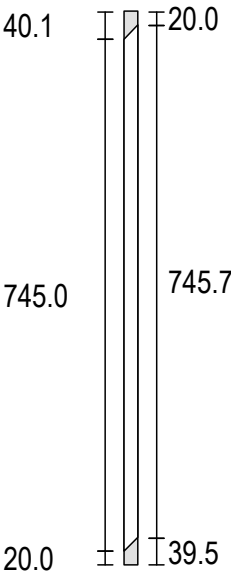


StairDesigner  
Banister : 7-9

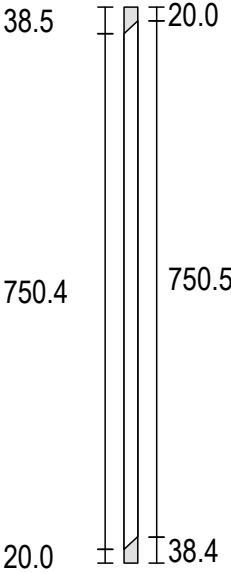
Vidar Tvedten

vidar01v02

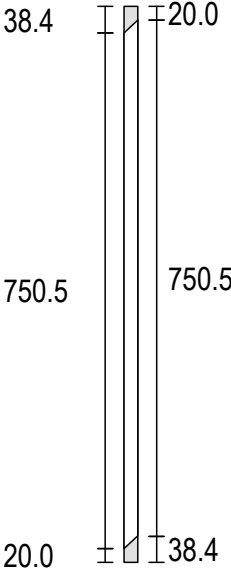
Banister : 7  
Flight : 2  
Position : 603.3  
Height from Ground Level : 1791.1  
Angle : 45.18 / 44.19  
Height : 805.2  
Shaft Diameter : 20.0



Banister : 8  
Flight : 2  
Position : 717.8  
Height from Ground Level : 1898.5  
Angle : 42.61  
Height : 808.9  
Shaft Diameter : 20.0



Banister : 9  
Flight : 2  
Position : 832.2  
Height from Ground Level : 2003.8  
Angle : 42.61  
Height : 808.9  
Shaft Diameter : 20.0

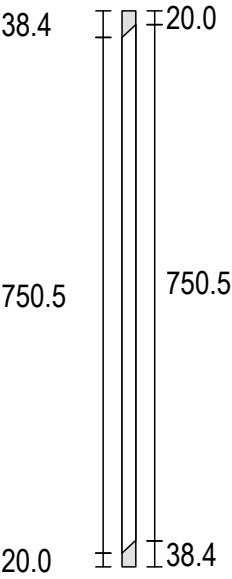


StairDesigner  
Banister : 10-12

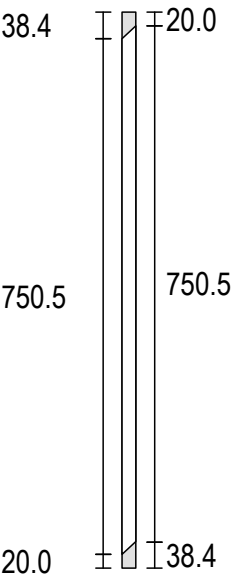
Vidar Tvedten

vidar01v02

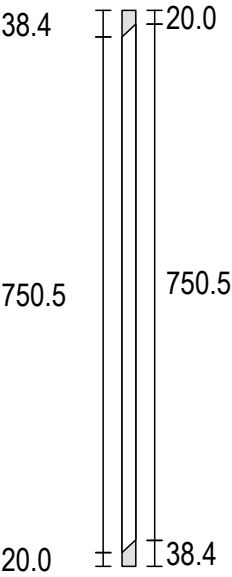
Banister : 10  
Flight : 2  
Position : 946.7  
Height from Ground Level : 2109.1  
Angle : 42.61  
Height : 808.9  
Shaft Diameter : 20.0



Banister : 11  
Flight : 2  
Position : 1061.2  
Height from Ground Level : 2214.4  
Angle : 42.61  
Height : 808.9  
Shaft Diameter : 20.0



Banister : 12  
Flight : 2  
Position : 1175.6  
Height from Ground Level : 2319.7  
Angle : 42.61  
Height : 808.9  
Shaft Diameter : 20.0

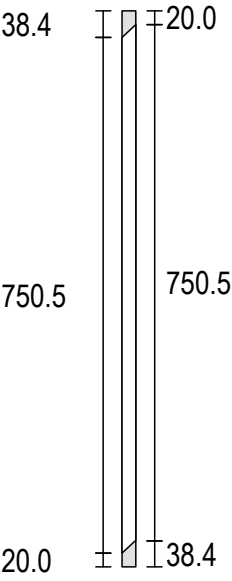


StairDesigner  
Banister : 13-14

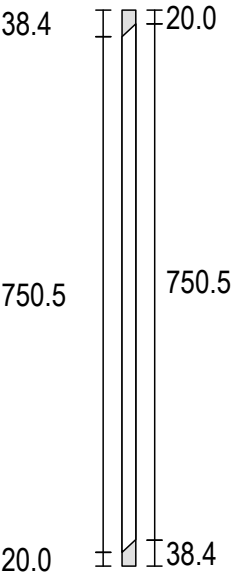
Vidar Tvedten

vidar01v02

Banister : 13  
Flight : 2  
Position : 1290.1  
Height from Ground Level : 2424.9  
Angle : 42.61  
Height : 808.9  
Shaft Diameter : 20.0



Banister : 14  
Flight : 2  
Position : 1404.5  
Height from Ground Level : 2530.2  
Angle : 42.61  
Height : 808.9  
Shaft Diameter : 20.0



Piece	Dimensions	Cutting List Volume	Real Volume
Step 1	896.0 x 318.3 x 42.0	0.0120 m <sup>3</sup>	0.0093 m <sup>3</sup>
Step 2	962.4 x 360.0 x 42.0	0.0146 m <sup>3</sup>	0.0095 m <sup>3</sup>
Step 3	1144.7 x 438.4 x 42.0	0.0211 m <sup>3</sup>	0.0113 m <sup>3</sup>
Step 4	1332.0 x 422.0 x 42.0	0.0236 m <sup>3</sup>	0.0140 m <sup>3</sup>
Step 5	1147.1 x 338.6 x 42.0	0.0163 m <sup>3</sup>	0.0103 m <sup>3</sup>
Step 6	1007.6 x 314.1 x 42.0	0.0133 m <sup>3</sup>	0.0094 m <sup>3</sup>
Step 7	941.2 x 300.2 x 42.0	0.0119 m <sup>3</sup>	0.0094 m <sup>3</sup>
Step 8	907.3 x 268.8 x 42.0	0.0102 m <sup>3</sup>	0.0094 m <sup>3</sup>
Step 9	896.0 x 248.7 x 42.0	0.0094 m <sup>3</sup>	0.0094 m <sup>3</sup>
Step 10	896.0 x 248.7 x 42.0	0.0094 m <sup>3</sup>	0.0094 m <sup>3</sup>
Step 11	896.0 x 248.7 x 42.0	0.0094 m <sup>3</sup>	0.0094 m <sup>3</sup>
Step 12	896.0 x 248.7 x 42.0	0.0094 m <sup>3</sup>	0.0093 m <sup>3</sup>
Step 13	876.0 x 60.0 x 42.0	0.0022 m <sup>3</sup>	0.0022 m <sup>3</sup>
Riser 1	876.0 x 169.2 x 18.0	0.0027 m <sup>3</sup>	0.0027 m <sup>3</sup>
Riser 2	909.4 x 211.2 x 18.0	0.0035 m <sup>3</sup>	0.0034 m <sup>3</sup>
Riser 3	974.2 x 211.2 x 18.0	0.0037 m <sup>3</sup>	0.0037 m <sup>3</sup>
Riser 4	1161.0 x 211.2 x 18.0	0.0044 m <sup>3</sup>	0.0043 m <sup>3</sup>
Riser 5	1081.8 x 211.2 x 18.0	0.0041 m <sup>3</sup>	0.0041 m <sup>3</sup>
Riser 6	958.5 x 211.2 x 18.0	0.0036 m <sup>3</sup>	0.0036 m <sup>3</sup>
Riser 7	911.9 x 211.2 x 18.0	0.0035 m <sup>3</sup>	0.0035 m <sup>3</sup>
Riser 8	897.8 x 211.2 x 18.0	0.0034 m <sup>3</sup>	0.0034 m <sup>3</sup>
Riser 9	896.0 x 211.2 x 18.0	0.0034 m <sup>3</sup>	0.0034 m <sup>3</sup>
Riser 10	896.0 x 211.2 x 18.0	0.0034 m <sup>3</sup>	0.0034 m <sup>3</sup>
Riser 11	896.0 x 211.2 x 18.0	0.0034 m <sup>3</sup>	0.0034 m <sup>3</sup>
Riser 12	896.0 x 211.2 x 18.0	0.0034 m <sup>3</sup>	0.0034 m <sup>3</sup>
Riser 13	876.0 x 211.2 x 18.0	0.0033 m <sup>3</sup>	0.0033 m <sup>3</sup>
Right Stringboard 1	1593.9 x 342.3 x 42.0	0.0229 m <sup>3</sup>	0.0171 m <sup>3</sup>
Right Stringboard 2	3256.3 x 466.1 x 42.0	0.0637 m <sup>3</sup>	0.0363 m <sup>3</sup>
Left Stringboard 1	811.1 x 268.0 x 42.0	0.0091 m <sup>3</sup>	0.0054 m <sup>3</sup>
Left Stringboard 2	2639.0 x 449.1 x 42.0	0.0498 m <sup>3</sup>	0.0267 m <sup>3</sup>
Left Handrail 1	645.1 x 94.3 x 40.0	0.0024 m <sup>3</sup>	0.0016 m <sup>3</sup>
Left Handrail 2	2304.4 x 210.7 x 40.0	0.0194 m <sup>3</sup>	0.0071 m <sup>3</sup>
Newel Post 1	82.0 x 82.0 x 1223.4	0.0082 m <sup>3</sup>	0.0082 m <sup>3</sup>
Newel Post 2	82.0 x 82.0 x 1953.5	0.0131 m <sup>3</sup>	0.0131 m <sup>3</sup>
Newel Post 3	82.0 x 82.0 x 1339.7	0.0090 m <sup>3</sup>	0.0090 m <sup>3</sup>
Banister 1	20.1 x 20.0 x 769.0	0.0003 m <sup>3</sup>	0.0002 m <sup>3</sup>
Banister 2	20.1 x 20.0 x 745.1	0.0003 m <sup>3</sup>	0.0002 m <sup>3</sup>
Banister 3	20.1 x 20.0 x 757.1	0.0003 m <sup>3</sup>	0.0002 m <sup>3</sup>
Banister 4	20.1 x 20.0 x 776.1	0.0003 m <sup>3</sup>	0.0002 m <sup>3</sup>
Banister 5	20.1 x 20.0 x 789.1	0.0003 m <sup>3</sup>	0.0002 m <sup>3</sup>
Banister 6	20.1 x 20.0 x 799.2	0.0003 m <sup>3</sup>	0.0003 m <sup>3</sup>
Banister 7	20.1 x 20.0 x 805.2	0.0003 m <sup>3</sup>	0.0003 m <sup>3</sup>
Banister 8	20.1 x 20.0 x 808.9	0.0003 m <sup>3</sup>	0.0003 m <sup>3</sup>
Banister 9	20.1 x 20.0 x 808.9	0.0003 m <sup>3</sup>	0.0003 m <sup>3</sup>
Banister 10	20.1 x 20.0 x 808.9	0.0003 m <sup>3</sup>	0.0003 m <sup>3</sup>
Banister 11	20.1 x 20.0 x 808.9	0.0003 m <sup>3</sup>	0.0003 m <sup>3</sup>
Banister 12	20.1 x 20.0 x 808.9	0.0003 m <sup>3</sup>	0.0003 m <sup>3</sup>
Banister 13	20.1 x 20.0 x 808.9	0.0003 m <sup>3</sup>	0.0003 m <sup>3</sup>
Banister 14	20.1 x 20.0 x 808.9	0.0003 m <sup>3</sup>	0.0003 m <sup>3</sup>

Piece	Dimensions	Cutting List Volume	Real Volume
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Piece	Cutting List Volume	Real Volume	Weight	Cost
Steps	0.1626 m <sup>3</sup>	0.1220 m <sup>3</sup>		
Risers	0.0458 m <sup>3</sup>	0.0456 m <sup>3</sup>		
Stringboards	0.1456 m <sup>3</sup>	0.0855 m <sup>3</sup>		
Handrails	0.0219 m <sup>3</sup>	0.0087 m <sup>3</sup>		
Newel Posts	0.0304 m <sup>3</sup>	0.0304 m <sup>3</sup>		
Banisters	0.0045 m <sup>3</sup>	0.0035 m <sup>3</sup>		
<b>Total</b>	<b>0.4106 m<sup>3</sup></b>	<b>0.2958 m<sup>3</sup></b>		