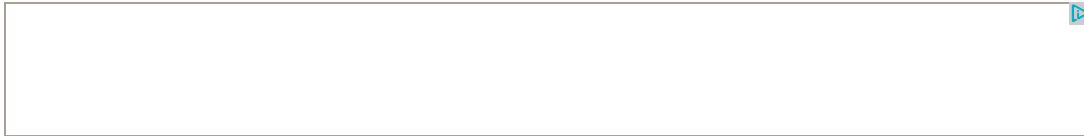


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**Spiral Stair Geometry Calculator****!** Geometric calculator only. Check local building codes.

Total Rise     
 Ideal Rise  Actual   
 Inside Radius     
 Tread Length     
 Rotation °   
 Tread Depth at   from inner  
 Widen Outer ☐   
 Draw Chords ☐  
 Draw Stringers ☐  
    
☒ Feet ☐ Inches

Total Rise **10'****20** Rises of **6"****19** Runs (treads) at **11~29/32"** inner ~ **15~7/8"** outerOutside Diameter **36'**Stair Angle Inner **26.7°** ~ Outer **20.7°**Rotation **80°**Inner Stringer Length **21'- 1~5/16"** from top of first rise to upper floorOuter Stringer Length **26'- 10~13/32"** from top of first rise to upper floorTread Depth **12"** from inner **12~25/32"**Angle at **12"** from inner **25.1°**Handrail Radius ~ Inner **16'- 11~5/32"** ~ Outer **20'- 6~7/8"**Rotation Inside Radius

Steps

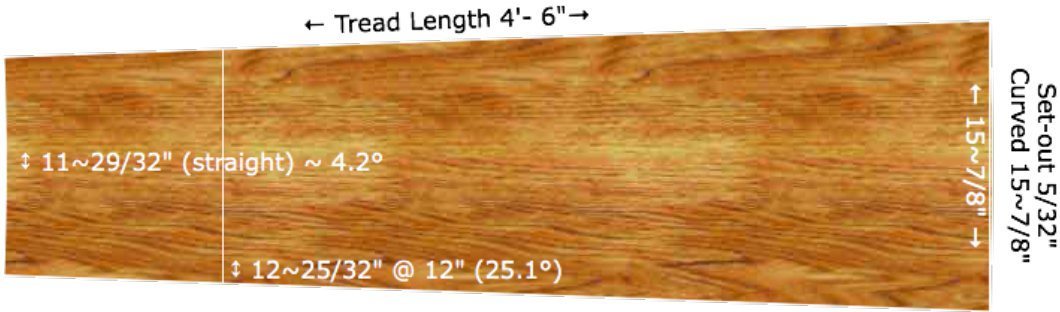
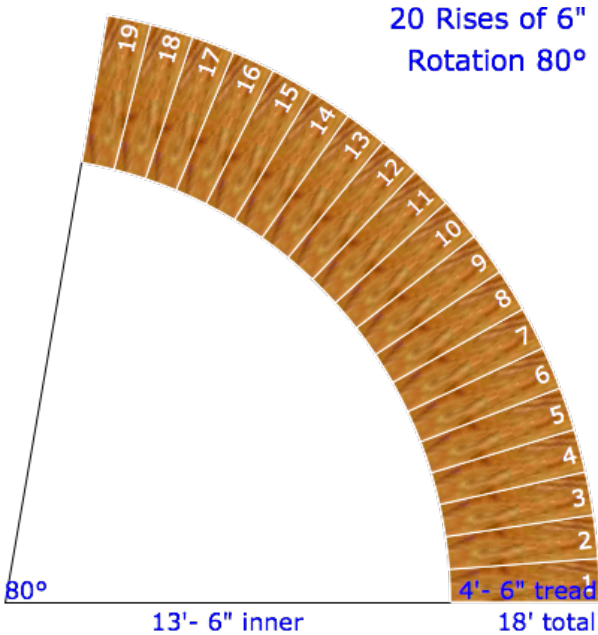
+

-

Lines ☐

Color ☐

Wood ☒



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Starter Kit

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Running Measurements explanation

- Inside Stringer** = tread points winding up and around INSIDE of stairs **from top of first rise to upper floor.**
- Outside Stringer** = tread points winding up and around OUTSIDE of stairs **from top of first rise to upper floor.**
- Inside Plumb** = tread points vertically (plumb).
- Inside Level** = tread points around INSIDE LEVEL, (or flat, as marked AROUND a circle on the floor.)

Running Measurements:

Inside Stringer	Outside Stringer	Inside Plumb	Inside Level
1'- 1~11/32"	1'- 4~31/32"	6"	11~29/32"
2'- 2~21/32"	2'- 9~15/16"	1'	1'- 11~13/16"

3'- 4"	4'- 2~29/32"	1'- 6"	2'- 11~23/32"
4'- 5~5/16"	5'- 7~7/8"	2'	3'- 11~5/8"
5'- 6~21/32"	7'- 27/32"	2'- 6"	4'- 11~17/32"
6'- 8"	8'- 5~13/16"	3'	5'- 11~7/16"
7'- 9~5/16"	9'- 10~25/32"	3'- 6"	6'- 11~11/32"
8'- 10~21/32"	11'- 3~3/4"	4'	7'- 11~1/4"
9'- 11~31/32"	12'- 8~23/32"	4'- 6"	8'- 11~5/32"
11'- 1~5/16"	14'- 1~11/16"	5'	9'- 11~1/16"
12'- 2~21/32"	15'- 6~21/32"	5'- 6"	10'- 10~31/32"
13'- 3~31/32"	16'- 11~5/8"	6'	11'- 10~7/8"
14'- 5~5/16"	18'- 4~19/32"	6'- 6"	12'- 10~3/4"
15'- 6~21/32"	19'- 9~9/16"	7'	13'- 10~21/32"
16'- 7~31/32"	21'- 2~17/32"	7'- 6"	14'- 10~9/16"
17'- 9~5/16"	22'- 7~1/2"	8'	15'- 10~15/32"
18'- 10~5/8"	24'- 15/32"	8'- 6"	16'- 10~3/8"
19'- 11~31/32"	25'- 5~7/16"	9'	17'- 10~9/32"
21'- 1~5/16"	26'- 10~13/32"	9'- 6"	18'- 10~3/16"

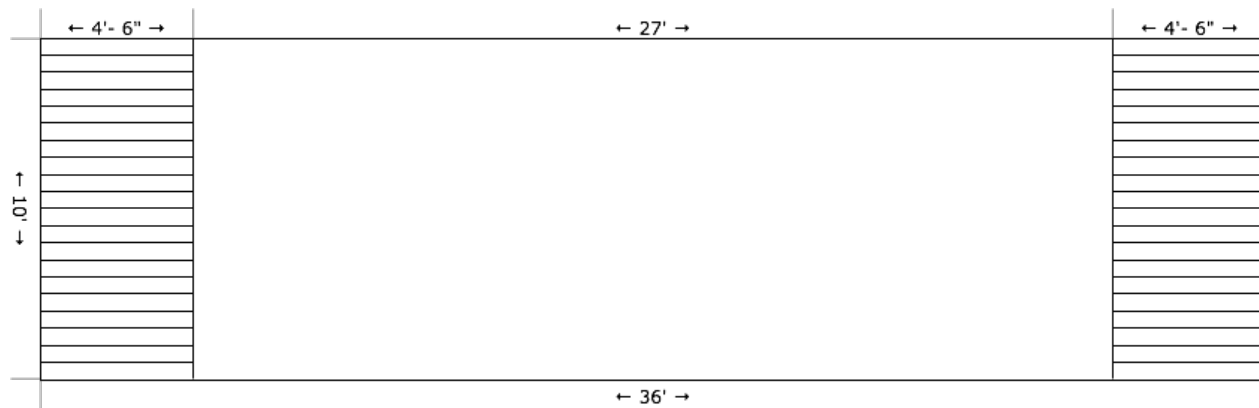
Mark-out

Mark-out

Mark-out

Mark-out

☛ Left click, release and drag to measure at scale inside diagram.



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Model Information

### Spiral Staircase Handrail True Radius Calculator

Enter actual rise of handrail for entered angle of rotation.

Flat Radius to Handrail

Angle of Rotation

Total Height for Rotation

**Calculate**

Handrail Rolling Radius **5'- 4~5/32"**Handrail Rise Angle **41.5°**Handrail Length **12'- 6~31/32"**

A handrail (or reo) at a flat radius of **3'** that rises a total height of **8'- 4"** in a rotation of **180°** has a true (rolling) radius of ~ **5'- 4~5/32"** and a length of **12'- 6~31/32"**

**! Be sure to follow local building regulations regarding all stair dimensions.**

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**ALWAYS CHECK WITH YOUR LOCAL BUILDING AUTHORITY BEFORE LAYING OUT OR BUILDING **ANYTHING****

**AND FOLLOW ALL LOCAL CODES. VERIFY ALL DIMENSIONS AND ANGLES BEFORE CONSTRUCTION.**

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