

Spiral Stairs-2014

ENDEMAN'S
IRONCRAFT
CUSTOM FABRICATION

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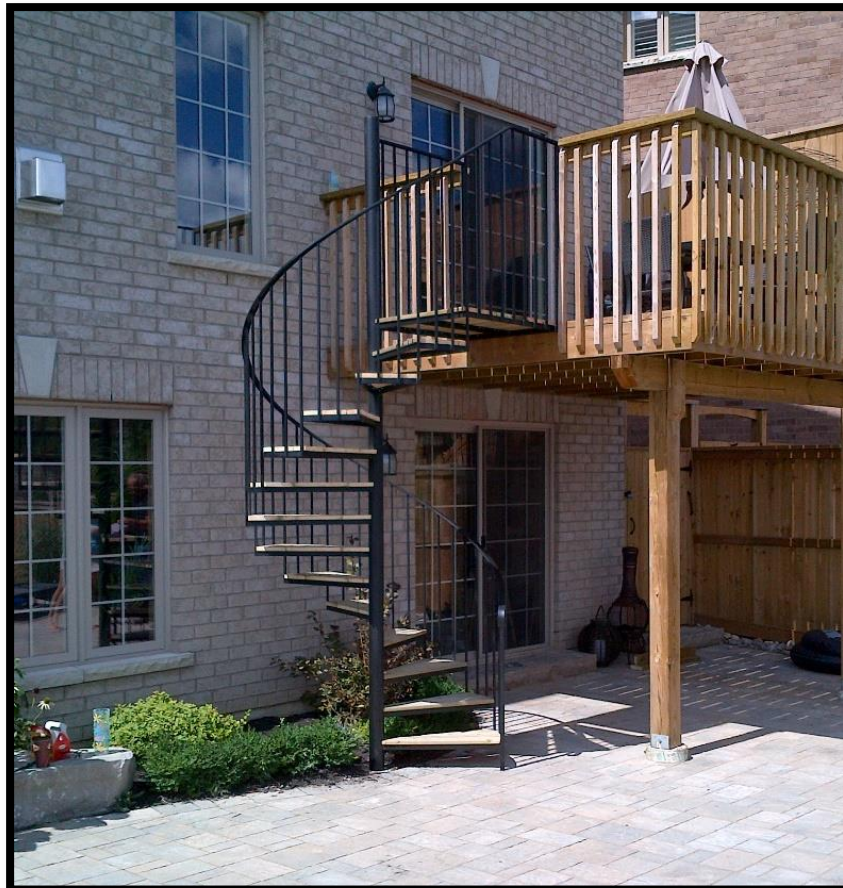
Our Stairs

Endeman's Ironcraft Ltd manufactures custom interior and exterior spiral staircases. Our stairs are made as a fully welded unit and not fabricated as a spiral stair kit.

Generally, our stairs are built between 4 foot diameter and 6 foot diameter with the most common being the 5 foot diameter.

For interior applications, we offer a painted coating whether it be black or a custom colour to match other details in your house. For an exterior application, we offer a painted coating or a hot dipped galvanized coating. Galvanizing is the more superior coating against rust. It comes in a grey colour and can be painted after weathering for approximately a year.

Please note that spiral stairs are not recognized by the Ontario Building Code. It is at the discretion of the homeowner to contact their building department about installing a spiral stair



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Accessories

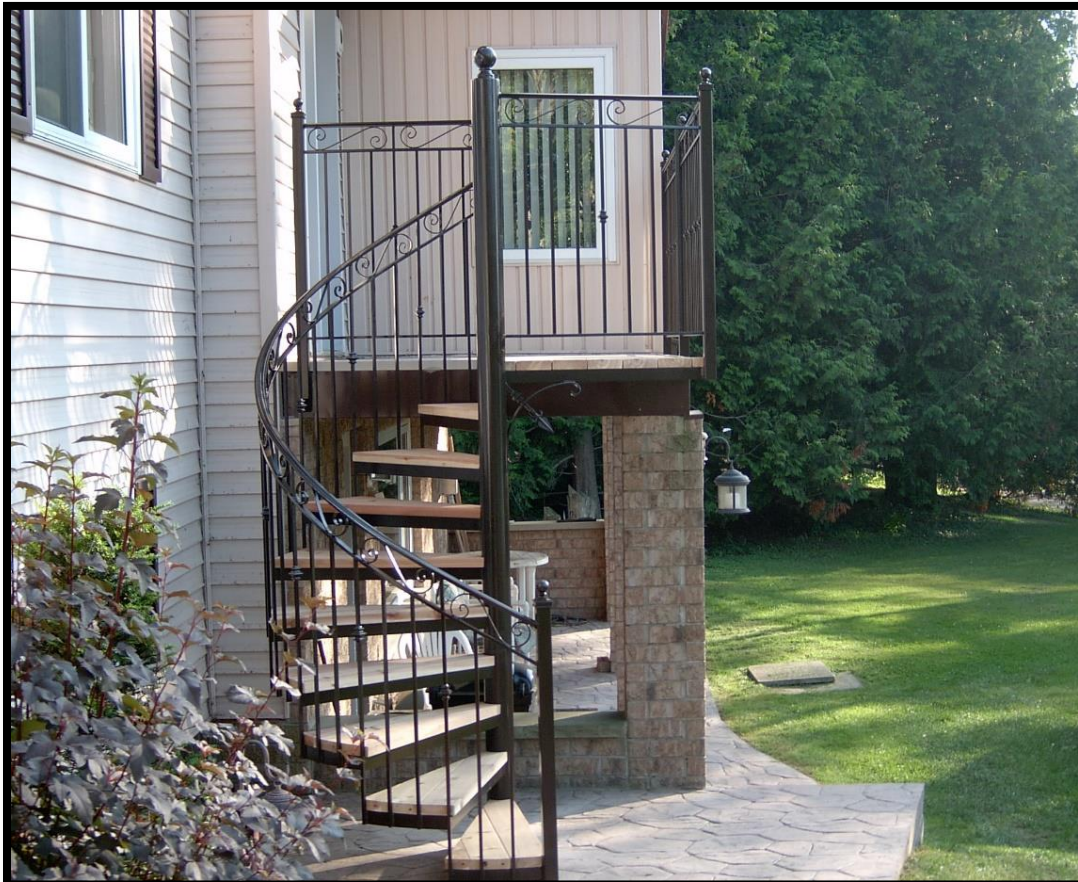
Our stairs are sold as a frame which includes the center column, landing, basic railings on the landing and stair, and tread frames. The tread frames come pre-drilled and ready to accept a tread. Some accessories we sell include:

For treads:

- Cedar or pressure treated
- Diamond plate with safety grip paint
- Bare or clear coated maple or oak
- Expanded metal (mesh)

And options to dress up the stair:

- Decorative railing pickets
- Newel Posts
- Decorative ball cap for the center column





Things To Think About

Accessibility: Can we get the stair to where you want it? Generally, the stair comes in one large unit generally (sometimes we can do 2 or 3 pieces) and may be difficult to enter a tight backyard or into a house. The stairs can spiral through a door/gate way depending on the door/gate opening size and the walls near it. Feel free to contact us if you have concerns.

Prepping: In an exterior application, you will need a small foundation for the stair such as a 10" round builders' tube filled with concrete reaching 4 feet below grade.

Installation: Installations are fairly simple. Ask us for a quick explanation on how to install the stair. We recommend having 4-6 people to help install the stair depending on the difficulty of carrying it into place. The stairs weigh about 375-450 pounds for a 4 or 5 foot diameter and reaching 550-700 pounds for a 6 foot diameter.

What We Need From You

In order for us to build your stair, we need the following information:

- Finished level lower height to top of finished upper level height
- Diameter you prefer as well as the size of opening in floor (if applicable)
- Rotation which works best as described below.
- Finish
- Existing railing height of adjacent railing (if applicable) as well as the opening in railings for entering the stairway (if applicable)
- Tread thickness (if applicable)

Spiral Stair Plan View Layout Options

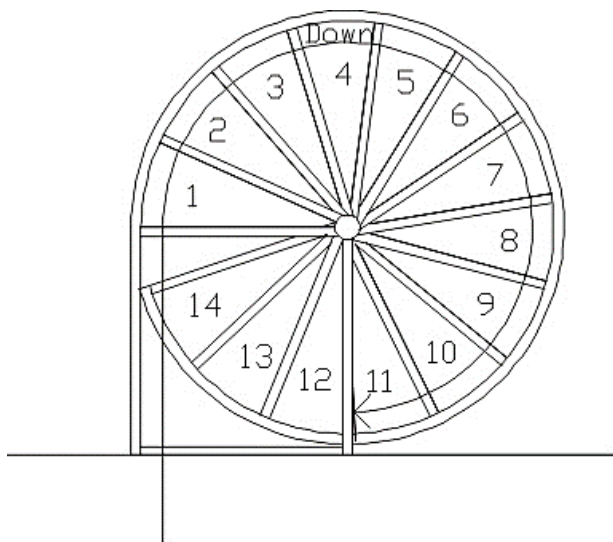
The amount of rotation in each spiral stair is mainly determined by the height provided. The higher the stair, the more treads you have and the farther around you climb. We can adjust how the stair rotates within our tread depth, riser height, and most of all, the landing. Below are listed heights with the number of treads required at each height range as well as plan view drawings to illustrate how far you rotate at that height.

The drawings on the next page are based off the most common stairs. All our stairs are custom and we will try our best to make one work to fit your needs. Please contact us if you have concerns that one of these layouts won't work for you.

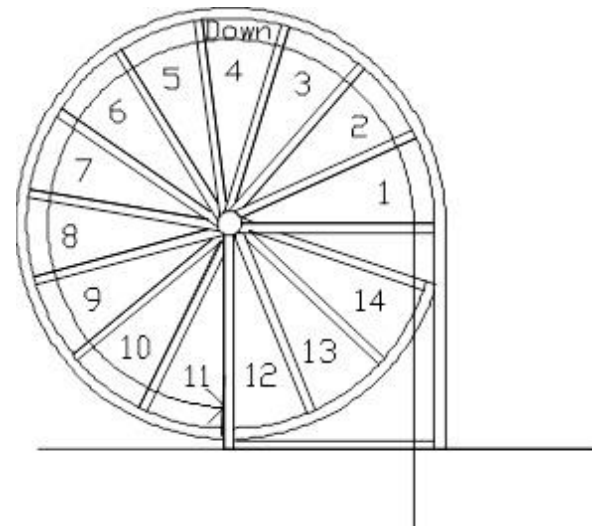
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Riser and Rotation Calculator

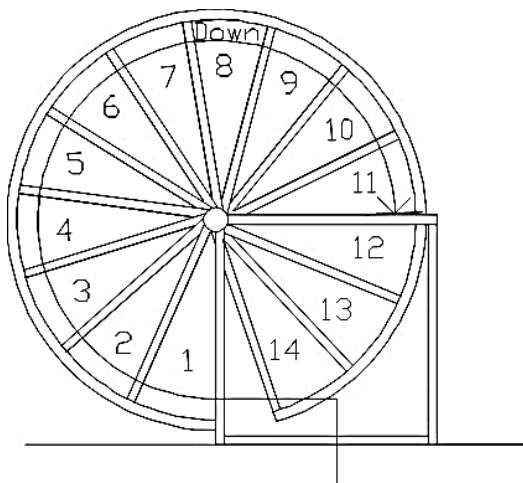
<i>Number of Treads</i>	<i>Height (finished level – finished level)</i>
11	90"-97.5"
12	96"-105 5/8"
13	104"-113 3/4"
14	112 1/2" - 120"
15	118 1/2" - 128"



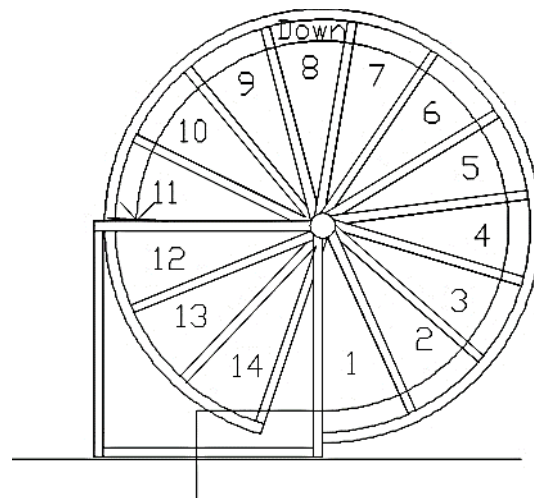
2. Walk straight onto the landing and carry on straight. Handrail on the left going down the stair



1 Walk straight onto the the landing and carry on straight. Handrail in the right going down the stair



3. Walk on to landing, turn to the left. Handrail on the left going down.



4. Walk onto the landing, turn to the right. Handrail on the right going down.