



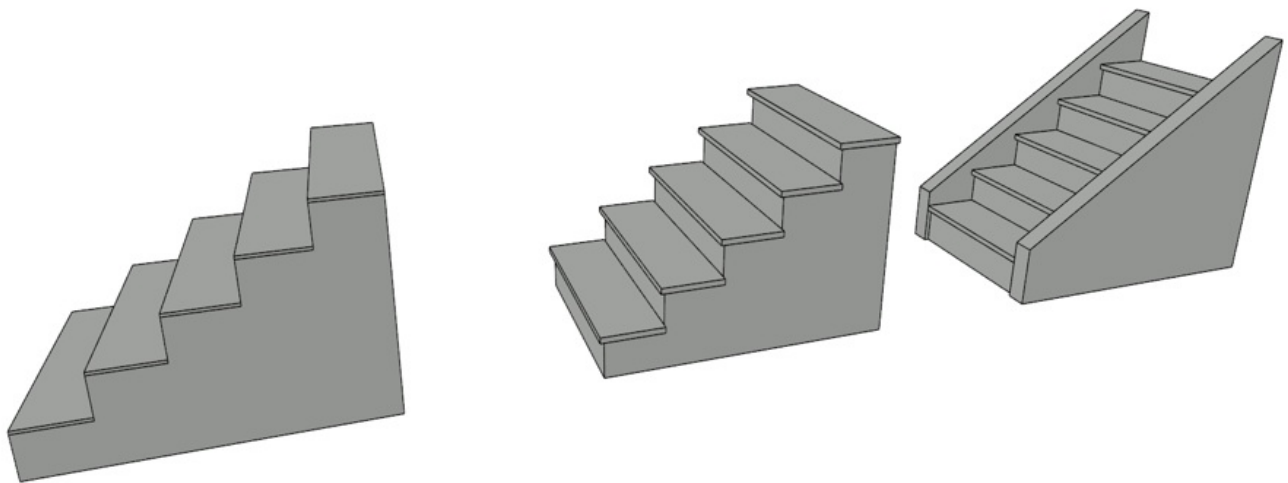
# Creating Solid Precast Concrete Stairs

Reference Number: **KB-03232**

Last Modified: **December 20, 2025**

## QUESTION

I need to create and use some solid precast concrete stairs for my design. How do I create these in Chief Architect?






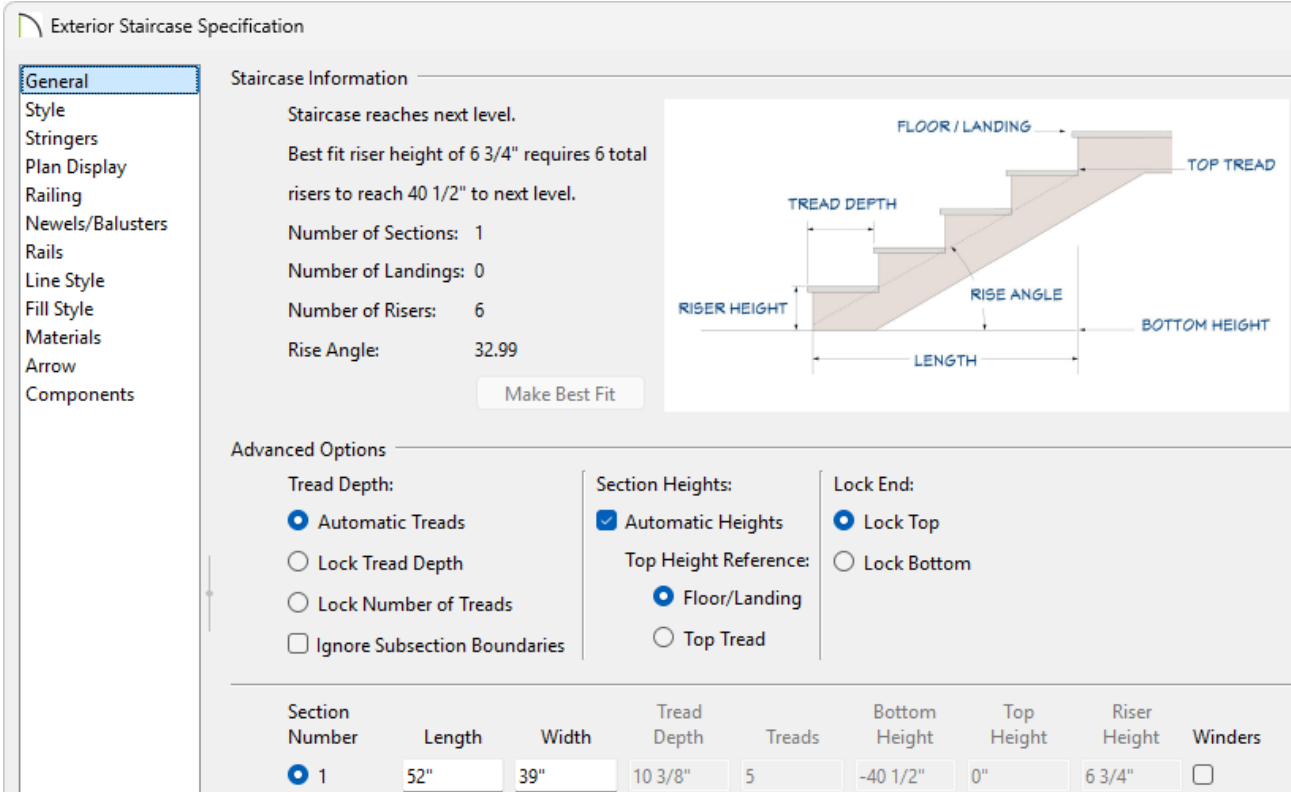
Chief Architect®

## ANSWER

Solid precast concrete stairs can be modeled using the Stair tool, which can then be added to your library browser for feature use.

# To create solid precast concrete stairs

1. Navigate to **Build> Stairs> Draw Stairs**  and click and drag to create a staircase.
2. Select your staircase using **Select Objects**  tool, then click on the **Open Object**  edit tool.
3. In the **Exterior Staircase Specification**, on the **GENERAL** panel:



The dialog box is titled "Exterior Staircase Specification". It has a left sidebar with a list of panels: General (selected), Style, Stringers, Plan Display, Railing, Newels/Balusters, Rails, Line Style, Fill Style, Materials, Arrow, and Components. The main area is divided into two sections: "Staircase Information" and "Advanced Options".

**Staircase Information:**

- Staircase reaches next level.
- Best fit riser height of 6 3/4" requires 6 total risers to reach 40 1/2" to next level.
- Number of Sections: 1
- Number of Landings: 0
- Number of Risers: 6
- Rise Angle: 32.99
- Make Best Fit button

**Advanced Options:**

- Tread Depth:**
  - ☒ Automatic Treads
  - ☐ Lock Tread Depth
  - ☐ Lock Number of Treads
  - ☐ Ignore Subsection Boundaries
- Section Heights:**
  - ☒ Automatic Heights
  - Top Height Reference:**
    - ☒ Floor/Landing
    - ☐ Top Tread
- Lock End:**
  - ☒ Lock Top
  - ☐ Lock Bottom

**Table:**

Section Number	Length	Width	Tread Depth	Treads	Bottom Height	Top Height	Riser Height	Winders
<input checked="" type="radio"/> 1	52"	39"	10 3/8"	5	-40 1/2"	0"	6 3/4"	<input type="checkbox"/>

- Adjust the **Length** and **Width** of the staircase.
- You can switch from **Automatic Treads** to either **Lock Tread Depth** or **Lock Number of Treads** to manually control your tread information.
- You can uncheck **Automatic Heights** to manually control your staircase **Bottom Height**, **Top Height**, and the **Riser Height**.

Take note of the Top/Bottom Height, as we will use this information on the **STRINGERS** panel.

It is recommended to keep Automatic Treads and Automatic Heights enabled until you have your stairs correctly positioned.

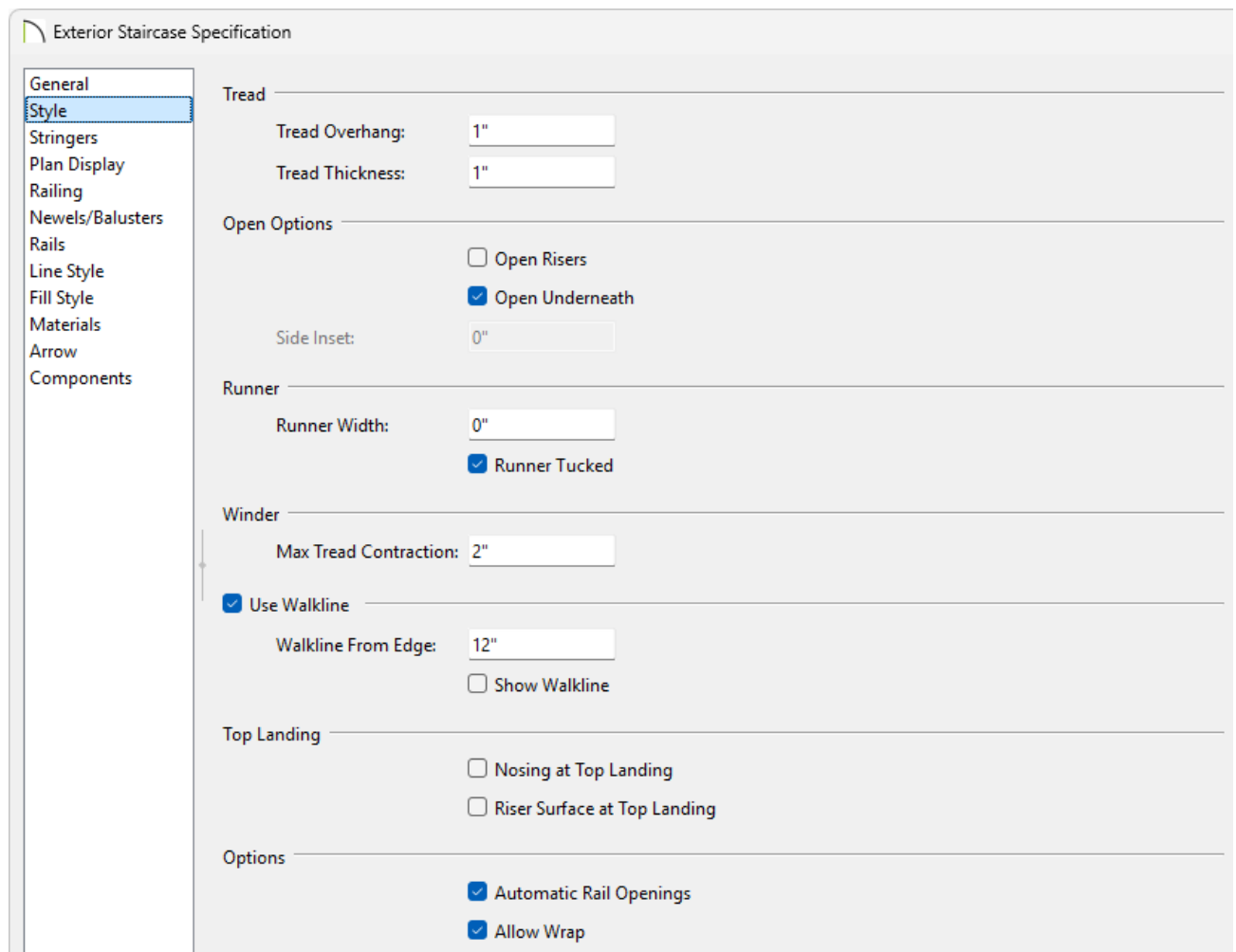
#### 4. On the **STYLE** panel:

The screenshot shows the 'Exterior Staircase Specification' dialog box with the 'Style' panel selected in the left-hand menu. The panel contains several sections for configuring the staircase's appearance and behavior:

- Tread**:
  - Tread Overhang: 1"
  - Tread Thickness: 1"
- Open Options**:
  - ☐ Open Risers
  - ☒ Open Underneath
  - Side Inset: 0"
- Runner**:
  - Runner Width: 0"
  - ☒ Runner Tucked
- Winder**:
  - Max Tread Contraction: 2"
  - ☒ Use Walkline
    - Walkline From Edge: 12"
    - ☐ Show Walkline
- Top Landing**:
  - ☐ Nosing at Top Landing
  - ☐ Riser Surface at Top Landing
- Options**:
  - ☒ Automatic Rail Openings
  - ☒ Allow Wrap

- Adjust the **Tread Overhang** and **Tread Thickness** to your liking.
- Uncheck the **Open Risers** and keep the **Open Underneath** checkbox checked.

#### 5. On the **STRINGERS** panel:



Exterior Staircase Specification

**General**

**Style**

Stringers

Plan Display

Railing

Newels/Balusters

Rails

Line Style

Fill Style

Materials

Arrow

Components

**Tread**

Tread Overhang: 1"

Tread Thickness: 1"

**Open Options**

☐ Open Risers

☒ Open Underneath

Side Inset: 0"

**Runner**

Runner Width: 0"

☒ Runner Tucked

**Winder**

Max Tread Contraction: 2"

☒ Use Walkline

Walkline From Edge: 12"

☐ Show Walkline

**Top Landing**

☐ Nosing at Top Landing

☐ Riser Surface at Top Landing

**Options**

☒ Automatic Rail Openings

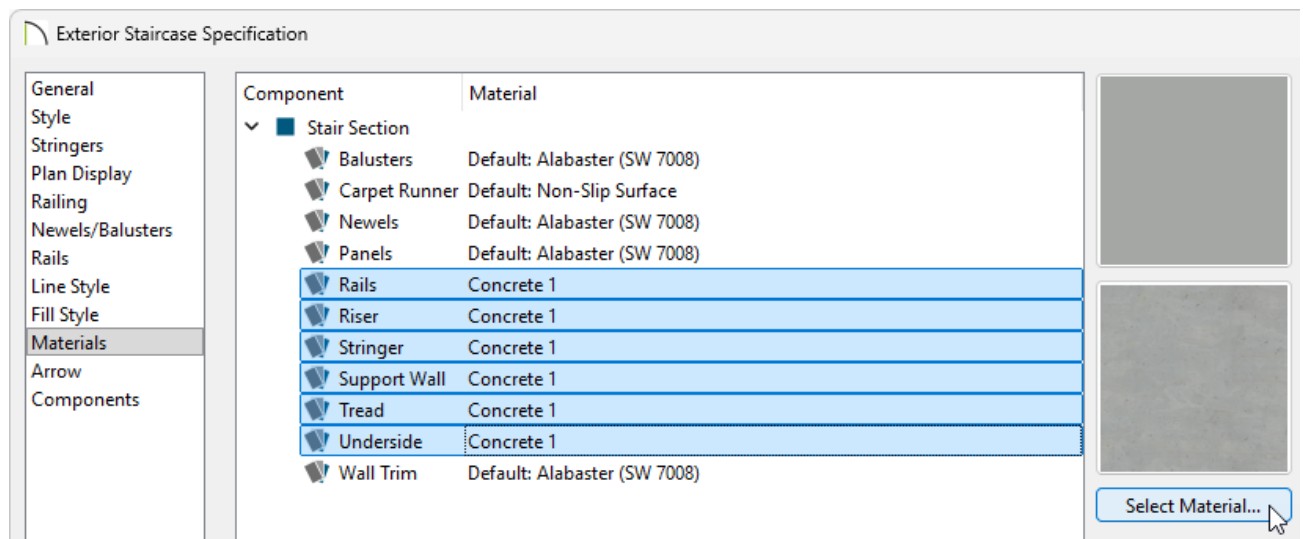
☒ Allow Wrap

- Set your **Stringer Style** to **Custom Stringers** and enable both the **Left** and **Right** stringers.
- Set your **Height Below** to the Top/Bottom Height value that is reported on the **GENERAL** panel.
- To have stringers that rise above the stairs, check the **Ext** checkbox and specify the extension value.
- Uncheck the **Trim Against Wall** checkbox.

6. On the **RAILING** panel, you can control the railing style or turn the railing off entirely.



7. On the **NEWELS/BALUSTERS** panel, you can customize your railing and adjust its offset to align it on your stringers.

8. On the **MATERIALS** panel:

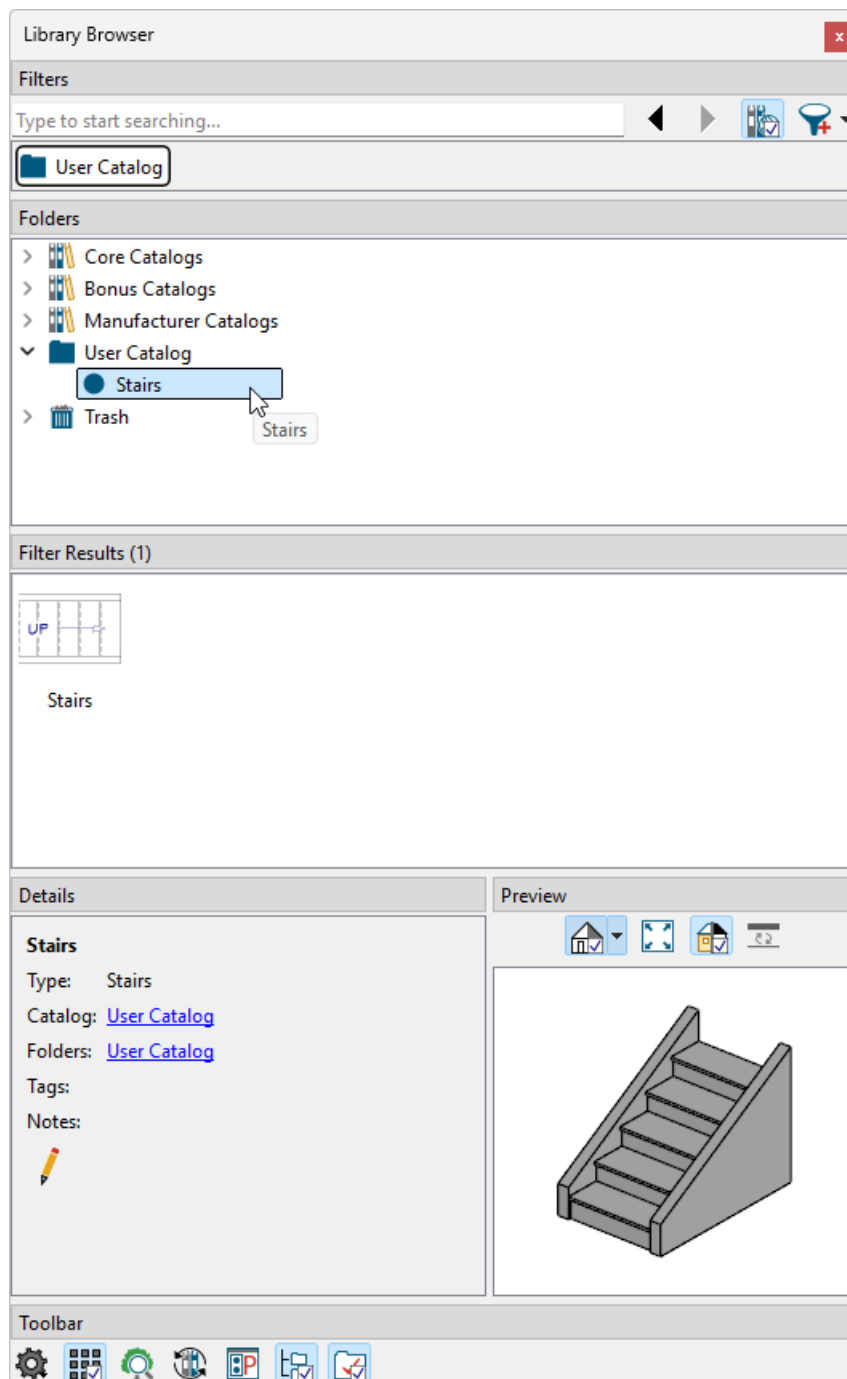


- While holding the Shift key on your keyboard, select the Riser list item and then select the Underside list item to group select multiple components.
- Click **Select Material** to open the **Select Material** dialog.
- Select an appropriate concrete material and click **OK**.

Concrete materials can be found by navigating to **Core Catalogs> Materials> Concrete**.

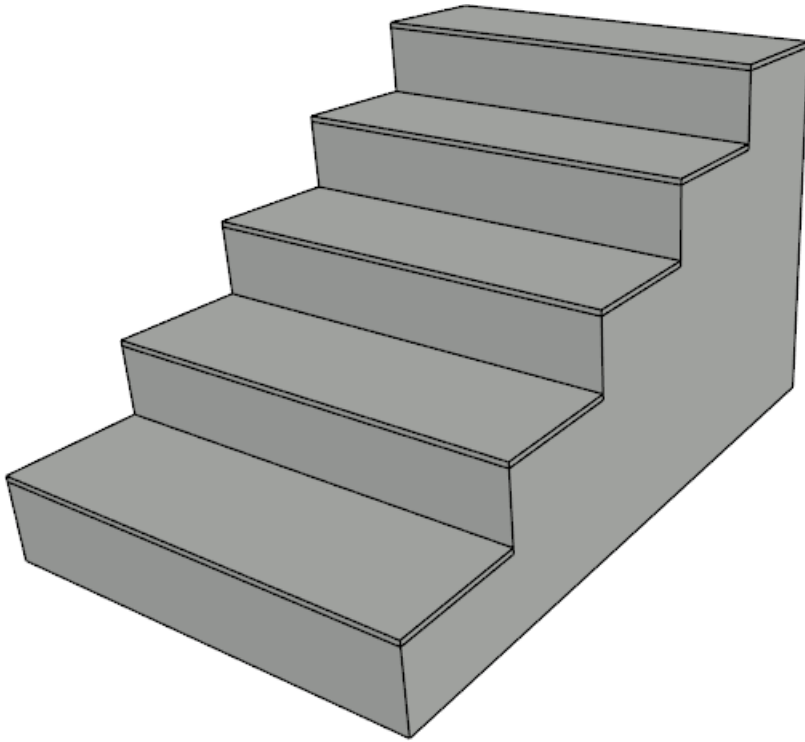
- Click **OK** to close the dialog and save your changes.
- Using the **Select Objects**  tool, click on your staircase to select it and use the **Add to Library** \* edit tool to add the staircase to your **User Catalog** for future use.

*\*Applies to Chief Architect Premier X16 and newer. Not Available in Home Designer.*

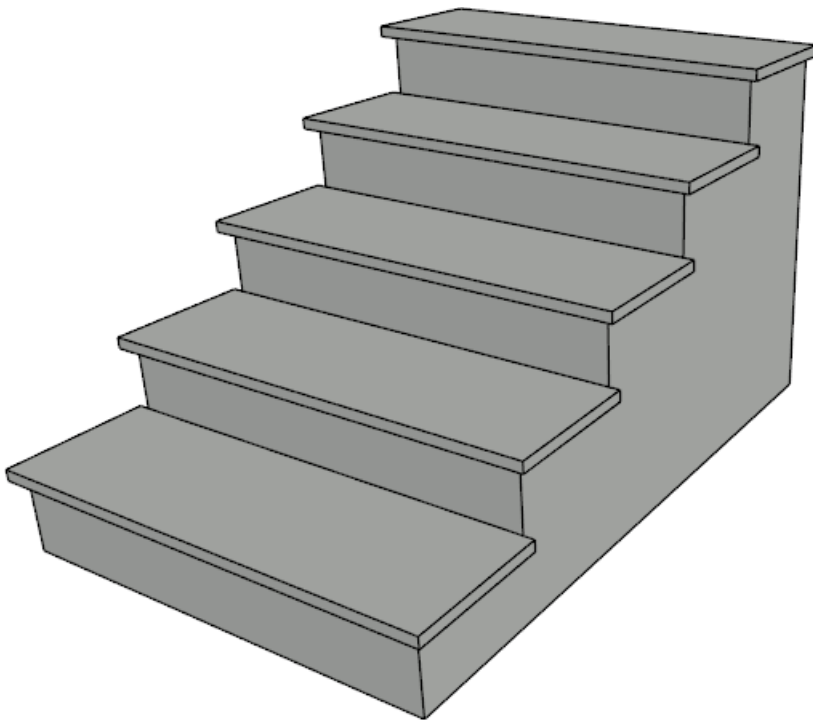


By changing the settings on these panels, you can create various different styles of stairs.

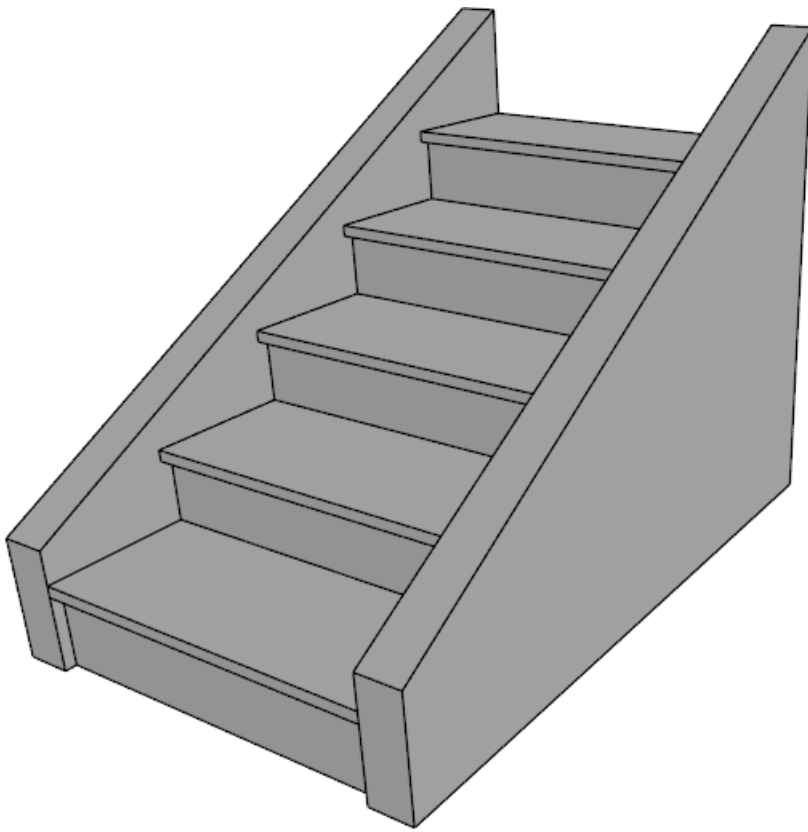
For example, this style of staircase was created by setting the Tread Overhang to 0".



The staircase shown below is using a 1" Tread Overhang and a 1" Tread Thickness.



The staircase shown below was created by using Custom Stringers and setting both the Left and Right Stringer to have a 3" Extension above the tread.



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#### Related Articles

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- [!\[\]\(1db6320223680ab4bd04b0d269ab6c8a\_img.jpg\) Creating Mitered or Wrap Around Stairs \(https://www.chiefarchitect.com/support/article/KB-00788/creating-mitered-or-wrap-around-stairs.html\)](https://www.chiefarchitect.com/support/article/KB-00788/creating-mitered-or-wrap-around-stairs.html)
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- [!\[\]\(10da5836d64f6bfda0e81f64eb06c09d\_img.jpg\) Customizing Stair Stringers \(/support/article/KB-03121/customizing-stair-stringers.html\)](/support/article/KB-03121/customizing-stair-stringers.html)
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- [!\[\]\(48ca033094687ae35179967b129920cd\_img.jpg\) Using the Flare and Curve Stairs Edit Tools \(/support/article/KB-00505/using-the-flare-and-curve-stairs-edit-tools.html\)](/support/article/KB-00505/using-the-flare-and-curve-stairs-edit-tools.html)