Creating Floor Platforms that Hang Inside Walls

Reference Number: **KB-00546** Last Modified: **February 21, 2025**

The information in this article applies to:



QUESTION

I would like my floor joists to be hung on the inside of my foundation stem walls or on the inside of my other framed walls. How can I accomplish this?



ANSWER

Available in both the Build Foundation and Wall Specification dialogs, the Hang Floor Platform settings can be utilized to hang a floor platform on the inside of your walls instead of bearing on top.

Note: Ledger boards can also be inset into walls using pony walls. To learn more about this process, please see <u>Video # 5205: Creating Floor Platforms that Hang Inside Walls</u>

(https://www.chiefarchitect.com/videos/watch/5202/creating-floor-platforms-that-hang-inside-walls.html).

To hang a 1st floor platform inside foundation walls using the Build Foundation dialog

1. With your 1st floor footprint established, navigate to **Build> Floor> Build Foundation** III from the menu.

2. On the FOUNDATION panel of the **Build Foundation** dialog that displays:

N Build Foundation ×				
Foundation Options	Automatically Rebuild Foundation			
- Prioris	Foundation Type	idation Type		
	Walls with Footings O Grade Beams on Piers O Monolithic Slab Hang 1st Floor Platform Inside Foundation Walls			
		\checkmark Show S Markers on Stepped Foundation Footings		
	Slab			
	Default Slab Footing Wall Type:	16" Concrete Stem Wall Edit Default Slab Footing		
	Slab Thickness:	4"		
	Slab at Top of Stem Wall			
	Stem Walls			
	Default Type:	8" Concrete Stem Wall Edit Default Foundation Wall		
	Minimum Height:	37 1/2" Including 1 1/2" Sill Plate		
	Basement Ceiling Height:	21 5/8"		

- Under Foundation Type, select the **Walls with Footings** option. This option must be specified to generate a hung floor platform inside foundation walls.
- Check the **Hang 1st Floor Platform Inside Foundation Walls** box. Checking this box will produce stem walls that will build up to the top of the floor platform of Floor 1.
- Specify any other desired settings, such as the **Slab Thickness** and **Minimum Height** for your Stem Walls, then click **OK**.
- 3. On Floor 0, which is the newly created foundation level, select any foundation walls that will serve as bearing walls and which you would like ledger boards for, then click the **Open Object** edit tool.

Multiple walls can be selected by holding down the Shift key, then clicking on each wall that will be part of the group selection. To learn more about group selecting objects, please see the <u>Related</u> <u>Articles</u> section below.

4. On the STRUCTURE panel of the **Wall Specification** dialog that displays, check the **Include Ledger** box to generate a ledger board in which the floor platform will be attached to, then click **OK**.

The ledger board properties are defined by the Rim Joist settings located in the Framing Defaults.

Note: An additional setting is available called "Subflooring to Wall Interior," which when checked, produces subflooring that builds to the inside surface of the wall. When unchecked, the subflooring builds over the top of the wall to the outside of its Main Layer. The wall's top height may be lowered to accommodate a sill plate.

Wall Specification		
General Structure Roof Foundation Wall Types Wall Cap	Default Wall Heights Default Wall Top Height Default Wall Bottom Height Platform Intersections	
Wall Covering Rail Style Newels/Balusters Rails	Invisible Walls and Railings: 🗹 Generate Betwo Ceiling Platform: 🔘 Automatic	Een Platforms Floor Platform:
Layer Materials Label Components	 Stop at Ceiling Above Balloon Through Ceiling Above Hang Floor Platform Above on Wall 	 Stop at Floor Below Balloon Through Floor Below
Object Information Schedule	Subflooring to Wall Interior	

5. Generate floor framing, then create a **Framing Overview** (m) or **Cross Section/Elevation** is view to see the results.



To hang a floor platform on the inside of walls using the Wall Specification dialog 1. Using the **Select Objects** tool, select the wall(s) you would like to hang the floor platform above on, then Multiple walls can be selected by holding down the Shift key, then clicking on each wall that will be part of the group selection. To learn more about group selecting objects, please see the <u>Related</u> <u>Articles (https://kb.chiefarchitect.com/admin/#Related)</u> section below.

2. On the STRUCTURE panel of the Wall Specification dialog:

Wall Specification		
General	Default Wall Heights	
Structure	🗹 Default Wall Top Height	
Roof Foundation	🗹 Default Wall Bottom Height	
Wall Types Wall Cap	Platform Intersections	
Wall Covering	Invisible Walls and Railings: 🗹 Generate Between Platforms	
Rail Style	Ceiling Platform:	Floor Platform:
Newels/Balusters Rails	O Automatic	 Automatic
Layer	O Stop at Ceiling Above	Stop at Floor Below
Materials Label	O Balloon Through Ceiling Above	O Balloon Through Floor Below
Components	R Hang Floor Platform Above on Wall	
Object Information	Subflooring to Wall Interior	
Schedule	🗌 Include Ledger	

- Select the Hang Floor Platform Above on Wall radio button under the Platform Intersections section.
- To produce subflooring that builds to the inside surface of the wall, check the **Subflooring to Wall Interior** box. When unchecked, the subflooring builds over the top of the wall to the outside of its Main Layer. The wall's top height may be lowered to accommodate a sill plate.
- To hang the platform from a ledger board attached to the wall, check the **Include Ledger** box. When unchecked, no ledger is created when platform framing is generated.
- Click **OK** to confirm the changes.
- 3. Generate floor framing, then create a **Framing Overview** (m) or **Cross Section/Elevation** to see the results.

Related Articles

Displaying Framing in a Cross Section/Elevation View (https://www.chiefarchitect.com/support/article/KB-00017/displaying-framing-in-a-cross-section-elevation-view.html)

Group Selecting Objects (/support/article/KB-00623/group-selecting-objects.html)

<u>Annually Drawing Framing Members (/support/article/KB-00727/manually-drawing-framing-members.html)</u>

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