Creating CBS Walls With a Tie Beam

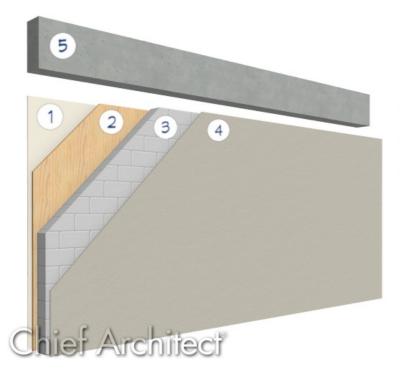
Reference Number: **KB-00495**Last Modified: **January 21, 2022**

The information in this article applies to:



QUESTION

I live in the Southeastern United States and regularly build CBS structures. How do I model a CBS wall that is block on the bottom and has a tie beam on top?



1	DRYWALL
2	FRAMING
3	CONCRETE BLOCKS
4	STUCCO
5	TIE BEAM

ANSWER

A CBS, or concrete, block and stucco wall with a tie beam on top can be modeled using pony walls. The bottom wall type typically has a stucco exterior, then a layer of eight inch concrete block, followed by a thin framing stud, and finally a layer of half-inch sheetrock. Along the top of this block wall is tie beam composed of a continuous pour of concrete all the way around the top of the structure.

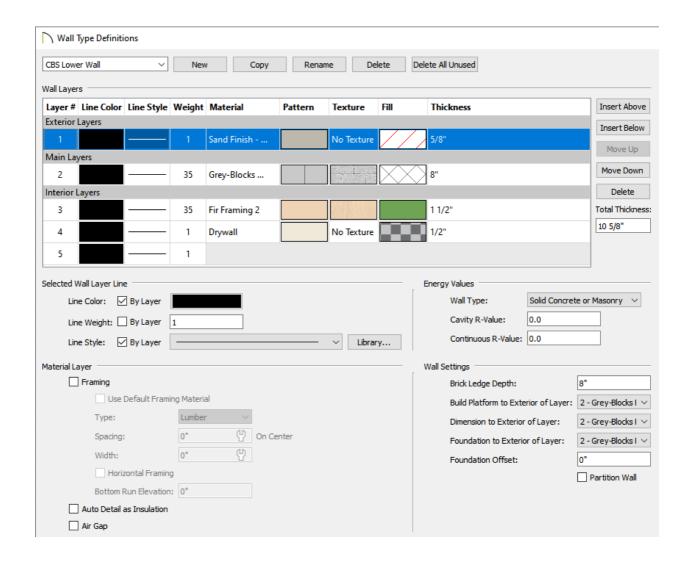
A pony wall can be used to model both of these walls in the same wall section.

To create a CBS wall

- 1. First, **Open** the Chief Architect plan in which you would like to add a CBS wall.
- 2. From the menu, navigate to **Build> Wall> Define Wall Types** to open the **Wall Type Definitions** dialog.
- 3. Create two new custom wall types one for the lower block wall and one for the tie beam, or upper wall.

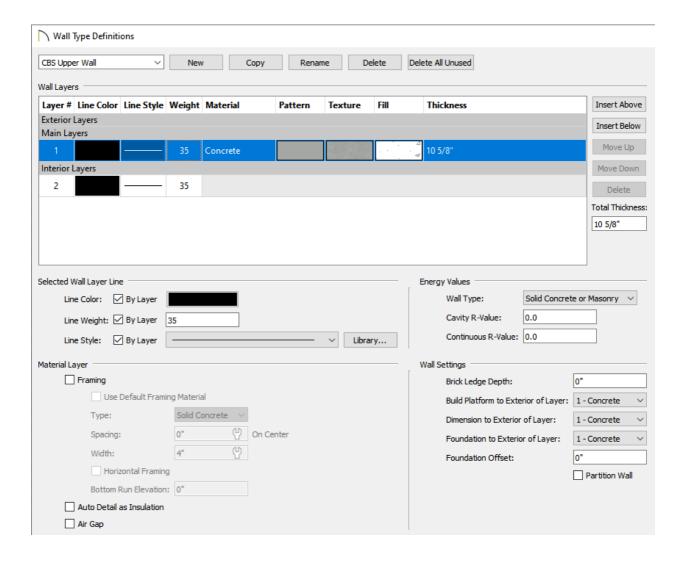
Please see the <u>Related Articles</u> section below for more information on creating new wall types.

A predefined CBS wall type option is available in most all template files. You can
Copy this wall type and name it CBS Lower Wall.

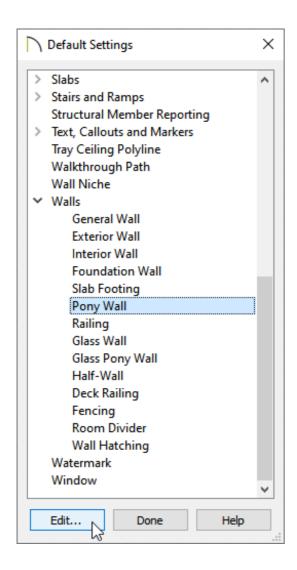


If you choose to modify a wall type that is already in use in your plan, all existing walls in the file that are using that wall type will update when you make changes to the wall type. This is why it's recommended to create a copy of an existing wall type.

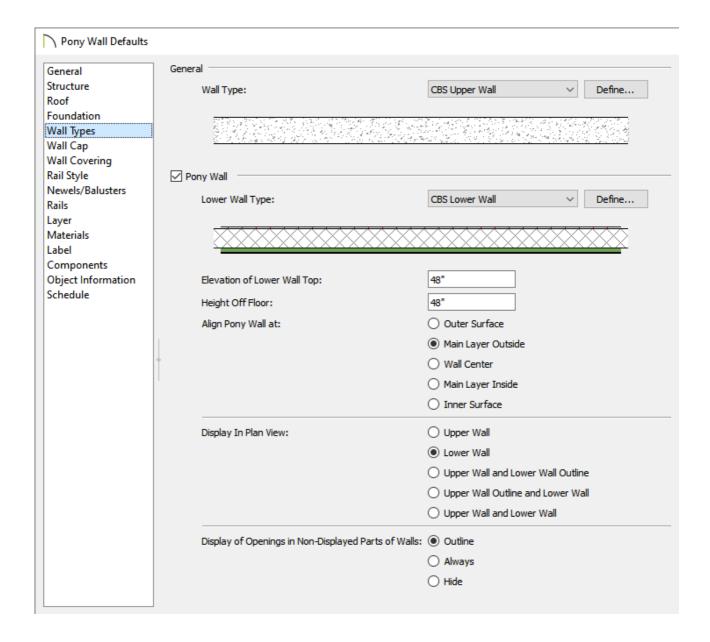
• You can also **Copy** a concrete wall type and name it **CBS Upper Wall**.



- o Typically, these two wall types will have the same Total Thickness.
- 4. Select **Edit> Default Settings** trom the menu, and in the **Default Settings** dialog that displays, expand the **Walls** category, click on **Pony Wall**, then click **Edit**.



5. On the Wall Types panel of the **Pony Wall Defaults** dialog that displays:



- Click the Wall Type drop-down menu and choose your CBS tie beam wall type from the list.
- Click the **Lower Wall Type** drop-down menu and choose your CBS block wall type from the list.
- Specify the desired **Height** of the Lower Wall.
- Specify the alignment and display settings to your liking.
- Click **OK** and **Done** to confirm the changes and close out of all of the dialog boxes.
- 6. Select **Build> Wall> Straight Pony Wall** from the menu, then click and drag to create a custom CBS wall.



Related Articles

■ Defining a New Wall Type (/support/article/KB-02944/defining-a-new-wall-type.html)

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