

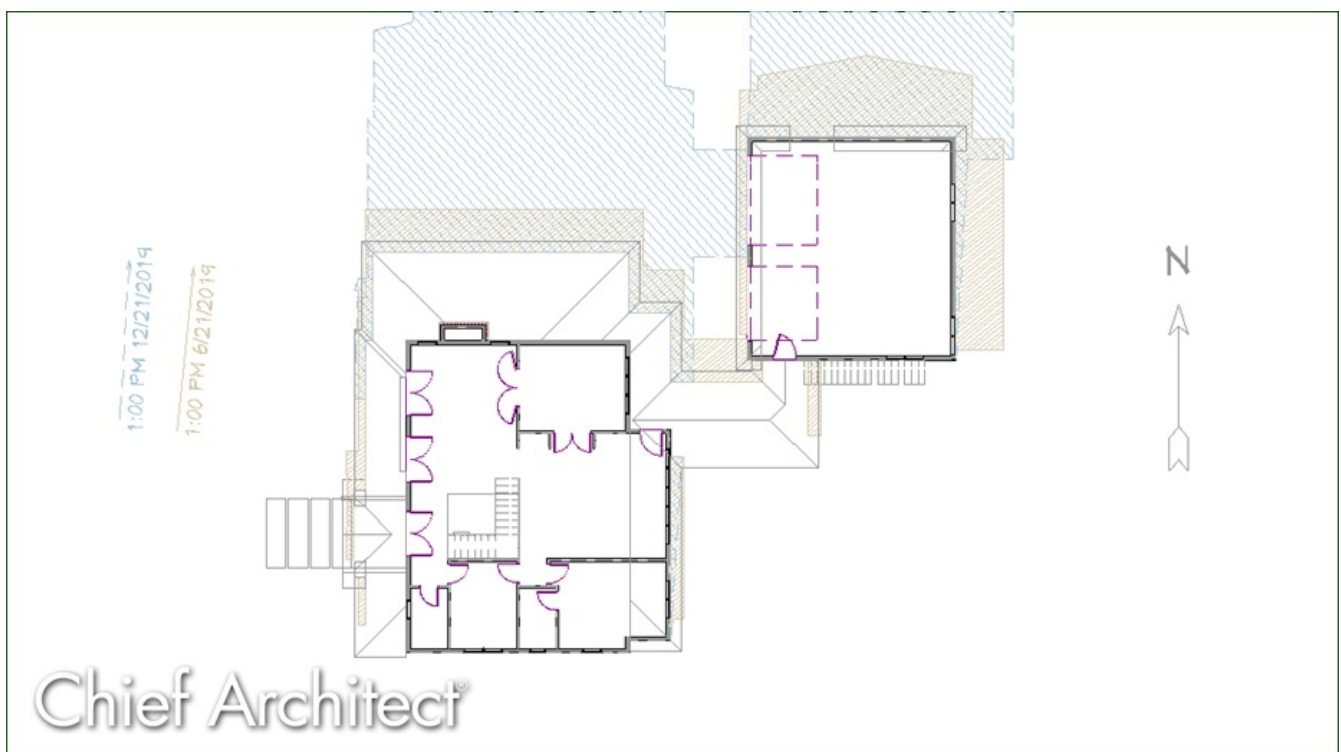
Displaying a Structure's Shadow in Floor Plan View

Reference Number: **KB-02083**

Last Modified: **October 6, 2021**

QUESTION


How can I show where the shadows fall in floor plan view?

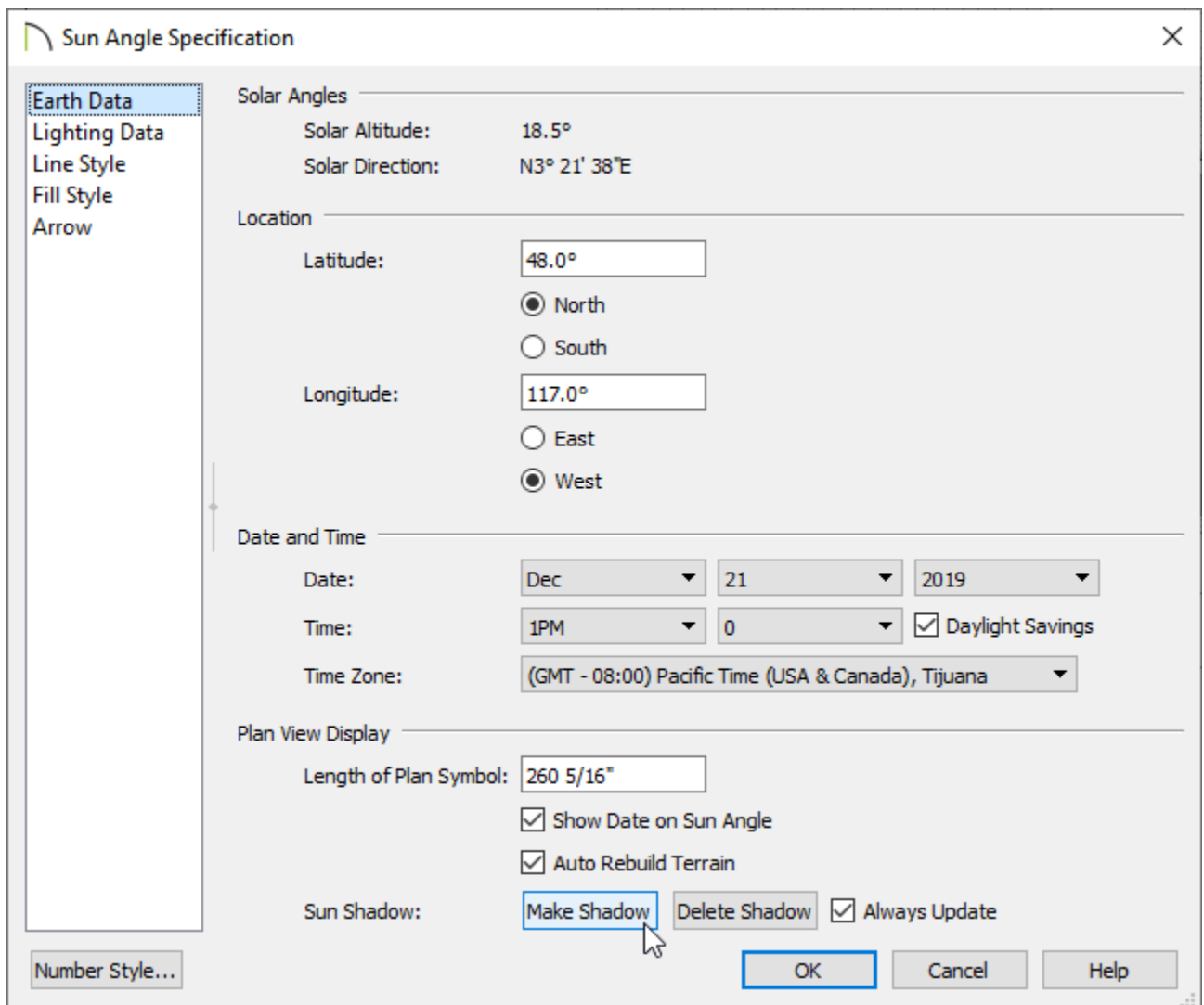


ANSWER

Sun Angles allow the shadow cast by a building at any time of the year, to be displayed in a floor plan view. A Sun Angle arrow is a marker that displays in a floor plan view and indicates the angle of the sun at a specific time and location on the Earth.

To create a Sun Angle and generate a structure's shadow

1. In plan view, go to Floor 1 or Floor 0. Sun Angles can only be created on these floor levels.
2. Select **CAD> Lines> Sun Angle**  and click in the drawing area where the Sun Angle arrow should display.
3. In the **Sun Angle Specification** dialog that displays:



Sun Angle Specification

Earth Data

Lighting Data
Line Style
Fill Style
Arrow

Solar Angles

Solar Altitude: 18.5°
Solar Direction: N3° 21' 38"E

Location

Latitude: 48.0°
 North
 South

Longitude: 117.0°
 East
 West

Date and Time

Date: Dec 21 2019
Time: 1PM 0 Daylight Savings
Time Zone: (GMT - 08:00) Pacific Time (USA & Canada), Tijuana



Plan View Display

Length of Plan Symbol: 260 5/16"
 Show Date on Sun Angle
 Auto Rebuild Terrain

Sun Shadow: **Make Shadow** Delete Shadow Always Update

Number Style... OK Cancel Help

- On the **EARTH DATA** panel, specify the **Latitude** and **Longitude**, along with the **Date and Time** of the Sun Angle.
- Click the **Make Shadow** button to generate the shadow with the dialog still active or the **Delete Shadow** button to delete it.

Alternatively, a structure's shadow can be generated or deleted in a floor plan by selecting the Sun Angle line when this dialog is closed, and clicking the **Make Shadow**  or **Delete Shadow**  edit tools.

Note: If no Terrain Perimeter has been created, shadows fall on an imaginary plane at height zero, the default height for the first floor.

If a Terrain Perimeter exists, shadows are modified to indicate where the real shadow would fall on the actual terrain.

- On the **LIGHTING DATA** panel, ensure that **Casts Shadows** is checked and that the Intensity and Color are set to the desired selections.
 - If you would like to learn more about the various options in this dialog, click the **Help** button at the bottom.
 - Click **OK** to confirm the changes and close the dialog.
4. After creating a Sun Angle, it can be moved to a different location in the floor plan without it affecting the generation of shadows.

Multiple Sun Angles can be placed in the same plan to allow the simultaneous display of shadows cast at different times in plan view.

Specify different line colors and/or fill styles for shadows cast by multiple Sun Angles in the Sun Angle Specification dialog on the Line Style and Fill Style panels respectively.



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