



Quick Start Guide



INTRODUCTION | Overview of BC CALC® Software

Boise Cascade is proud to introduce BC CALC[®], the latest update to our sizing software for Boise Cascade engineered wood products, glulam and solid sawn wood products.

Using BC CALC[®], experienced and novice users alike can guickly:

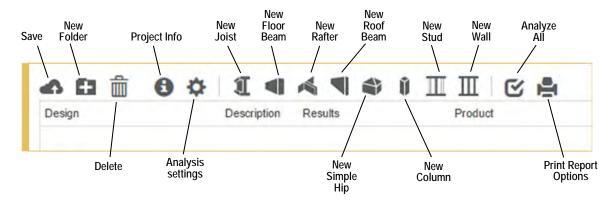
- Size floor, roof, wall and column members with multiple spans and loading conditions
- Analyze holes, notches, and bevel cuts
- Pick the best product for a design from a list generated by BC CALC[®]
- Refine performance factors (deflection criteria, subfloor material, etc.)
- Print design reports
- Store and manage all the designs in a project file

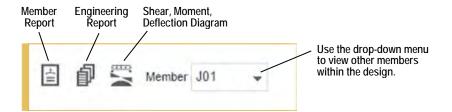
The cloud-based version of BC CALC[®] software is similar to the desktop version of BC CALC[®], but it runs within your internet browser. While the look and feel is similar to the desktop version, you may notice some differences due to the browser-based access along with enhancements designed to increase productivity and user experience.

This quick start guide introduces basic BC CALC® features to get you acquainted with the new layout and tools.

1. Toolbar Buttons

The toolbar contains buttons for the most frequently used commands.
Tip: Hover over any button and a "tool tip" will appear.





Boise Cascade EWP 1 November 2016



2. Creating a New Analysis

The following new analysis instructions cover four BC CALC® data entry tabs for specifying product and design criteria: **Spans, Settings, Loads**, and **Products**.

■ In the main menu bar, click **Project** and select **New Analysis**. Note that BC CALC[®] opens to a blank analysis by default.



- To start your analysis, click the appropriate member icon. From left to right, the icons represent **joist**, **floor beam**, **rafter**, **roof beam**, **simple hip**, **column**, **stud** and **wall** [1]. As soon as you click on an icon, a new member design will be created.
- Double-click on the design (i.e., J01) to continue your calculations [2].

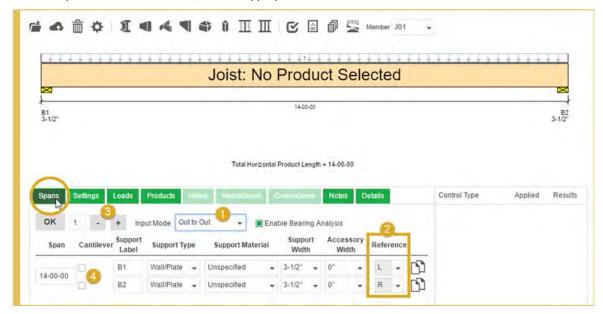


Boise Cascade EWP 2 November 2016



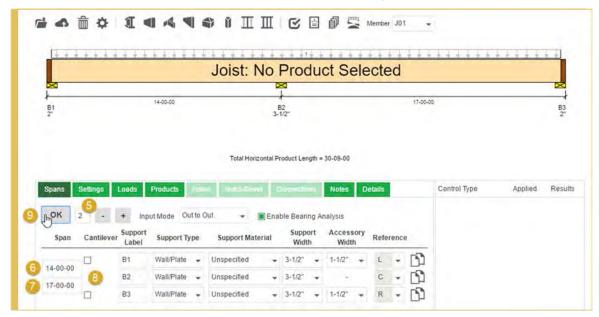
SPANS TAB

- Click the **Spans** tab to set your member spans and support information:
 - The default setting is for a single span with a 14' (14-00-00) length measured from outside of support to outside of support. Change the *Input Mode* [1] to select other dimension reference options to match your conditions. When "Custom" is chosen, the *Reference* field [2] can be changed for each support.
 - Use +/- buttons [3] to add or remove spans. As the number of spans increases, additional fields for inputting span and support data become available.
 - If a span will be cantilevered, click the appropriate **Cantilever** check box [4].



The example below shows a 2-span member [**6**] with 14' and 17' spans [**6**, **7**] neither of which are cantilevered [**8**]. Supports are $3\frac{1}{2}$ " wall plates with a $1\frac{1}{2}$ " accessory (rim board) at each end.

Click the **OK** button [9] to refresh the display and show your changes.

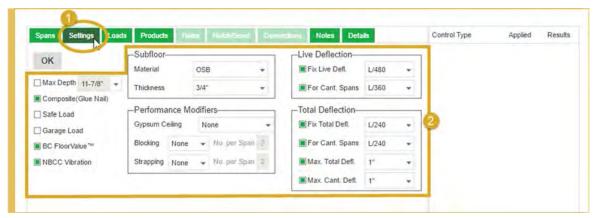


Boise Cascade EWP 3 November 2016



SETTINGS TAB

- Click the Settings tab to set additional design parameters [1].
- Use the checkboxes and dropdown menus to select subfloor material, performance modifiers and deflection limits [2].

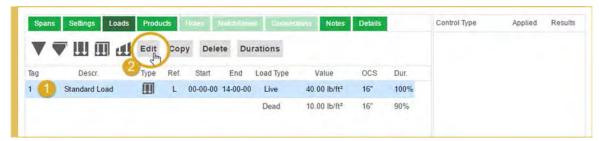


LOADS TAB

- Click on the **Loads** tab to add or edit loading conditions [1].
- A standard load will be set by default [2]; verify that it is appropriate for your condition.



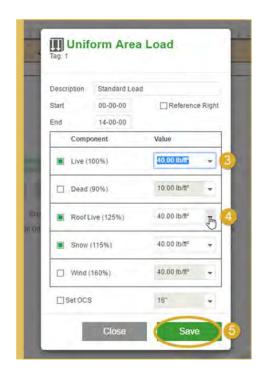
■ If the loading shown needs to be changed, edit the settings by first selecting the table row with the loading you want to change [①]. When the row turns blue, click on the *Edit* button [②] to open the *Uniform Area Load* window. Loads can also be edited by double clicking on the row in the loads grid or by clicking on the load in the drawing.



Boise Cascade EWP 4 November 2016

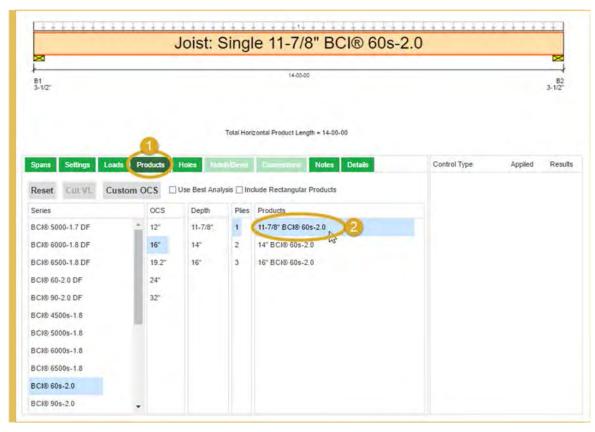


- In the Uniform Area Load window, use the check boxes and dropdown menus to change or add your loading specifications [③,④]. Load values can also be input by entering the value directly in the field.
- When finished, click **Save** to save your changes [**⑤**].



PRODUCTS TAB

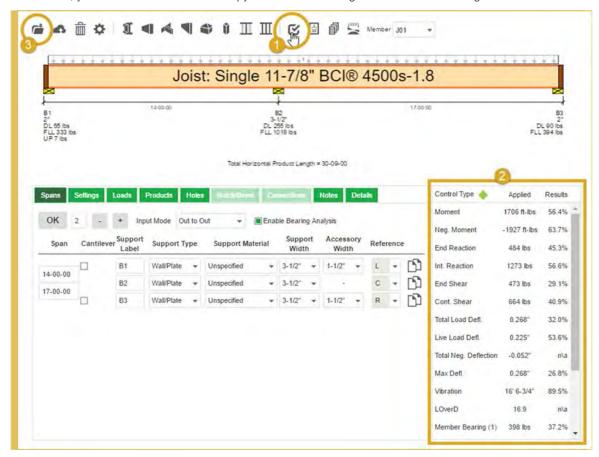
- Click on the **Products** tab to select the member series, on-center spacing, depth and plies [1].
- Filter by series and depth as needed, then select the desired on-center spacing and joist product from the **Products** column [②].





RUNNING AN ANALYSIS

- While still in the Products tab, you can either double click on a product or click the Analyze Member icon [❶].
 The Results pane will be populated when the analysis is complete [❷].
- When finished, either click on the *Folder* icon [3] to return to the analysis summary (see image below) or click a member icon in the toolbar to create a new design. If you click a member type that matches the current design's member, you can choose to create a copy of the current design or create a new design.



Example of the Analysis Summary Window:



Boise Cascade EWP 6 November 2016



3. Creating a Project and Saving an Analysis

The following instructions cover creating a project and saving an analysis. Projects are similar to folders and can have one or more analysis files associated with them as attachments.

CREATING A PROJECT

Projects can be created at any time without affecting the current analysis data. New projects can be created either under the Project tab in the main menu bar or from within the **Save** dialog box.

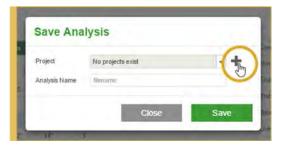
In the main menu bar, click **Project** and select **New Project**.



Fill in the project information fields in the **Create a Project** dialog box as desired. Note that only the **Project** name field is required. Click **Save** when finished.



■ Alternatively, create a new project from the **Save** dialog box by clicking the + icon next to the project name to open the **Create a Project** dialog box.

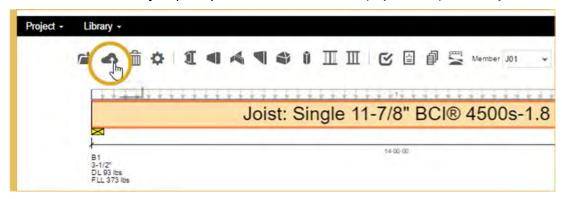




SAVING AN ANALYSIS

An analysis can be saved at any time. If an analysis with the same name already exists in the selected project, you will be asked if you want to overwrite the existing file.

Click on the Save Analysis (cloud) icon in the toolbar. Select a project and input an analysis name.



Boise Cascade EWP 8 November 2016