



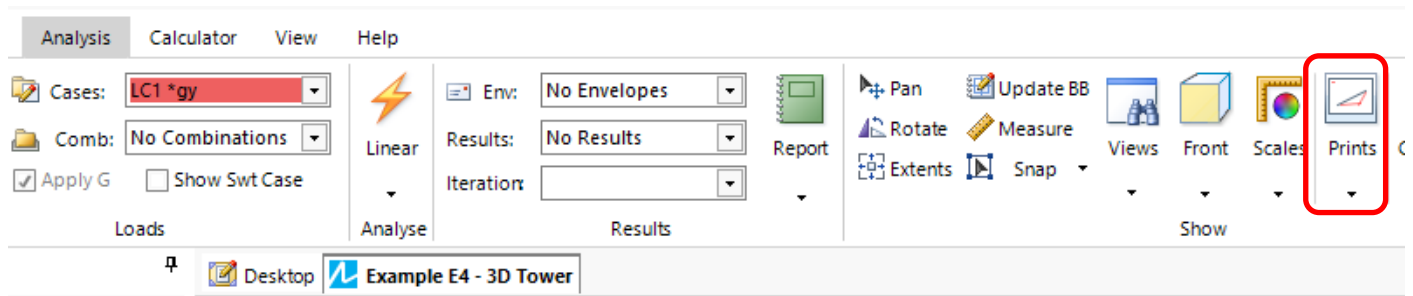
Analysis Print Views

Rev 2, Updated 10 September 2021

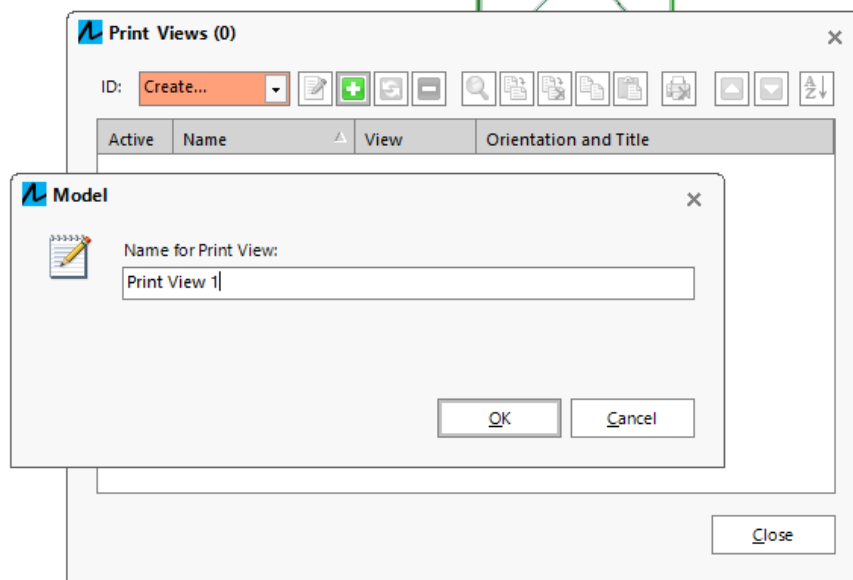
Print views allow the user to create saved pre-sets of various views within a model. Each view is defined by the labels and loads/forces/moments/deflections shown on the model, current visible group, and the camera position being used. These print views can then be printed/exported either individually, or all at once.

Creating Print Views

To create a print view, click on the "Prints" button within the [Analysis] tab while a model is opened.



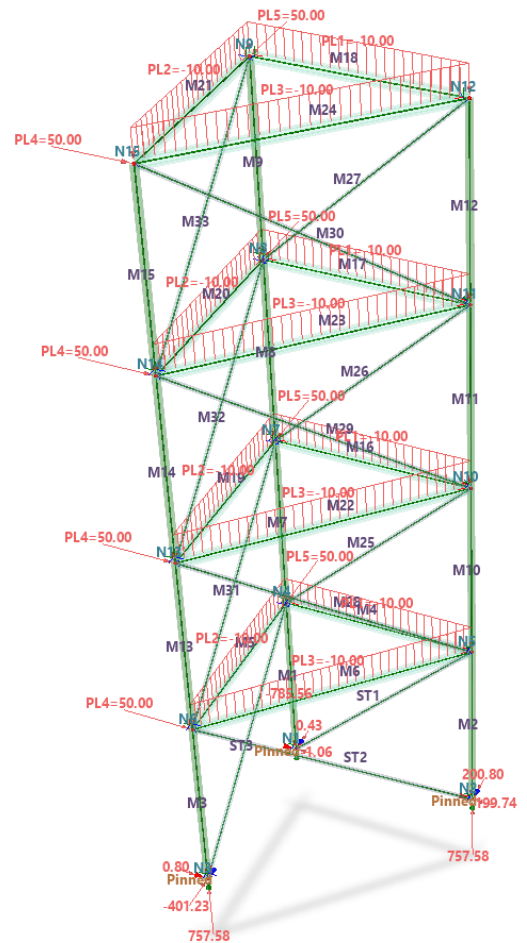
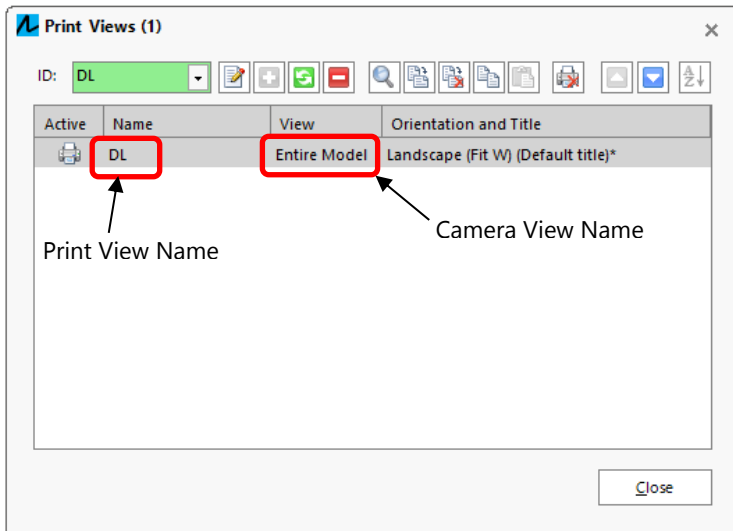
This will open an interface that manages the print views within the model. To turn the current view into a preset click the green add "+" button, which will bring up a dialogue box for naming the view as seen below. This name will refer to the types of labels and loads/forces/moments/deflections shown on the model.



Once a name has been entered, it will ask which view to use. If no previous views have been defined, the only option will be "current view". Once confirmed, the current camera view will need to be named. This camera view can be used for multiple print views.



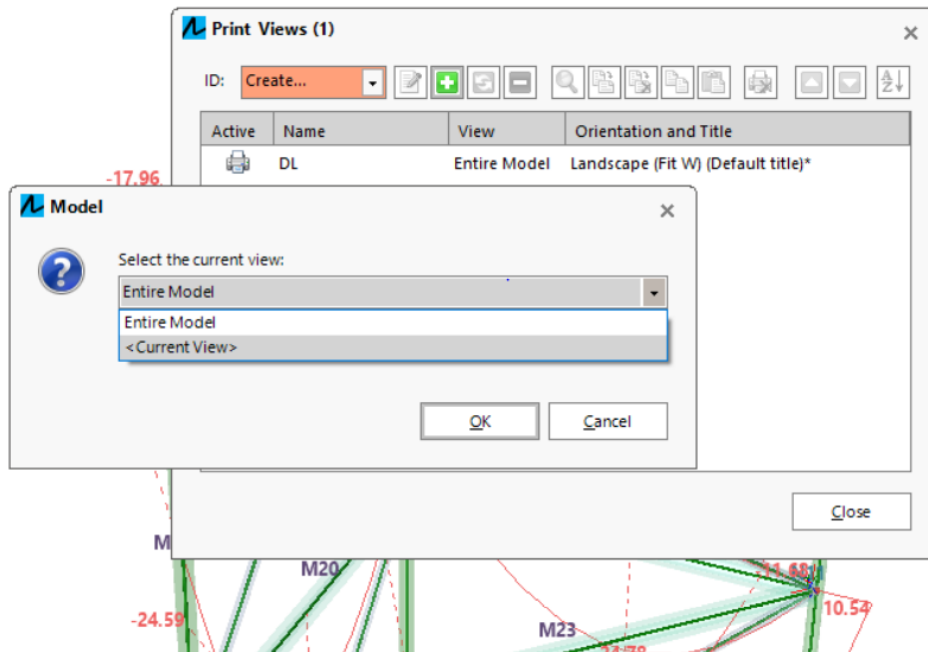
If done correctly, the print view will now be displayed in print view interface, as shown below.



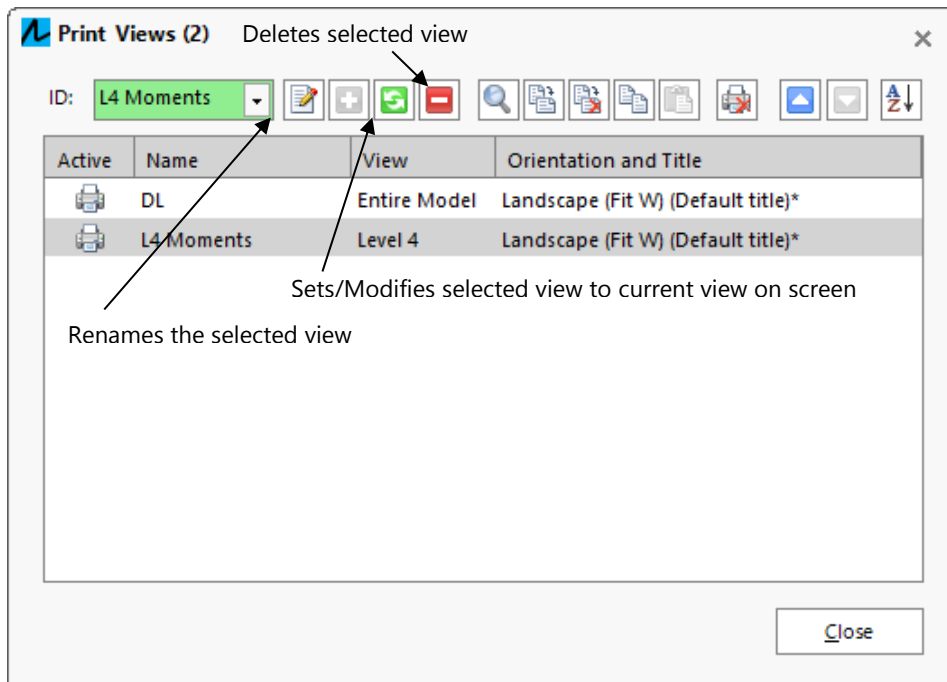
In the case above, the view includes the dead load values along with dead load reactions, with a corresponding camera view of the entire model.



To create another print view, follow the same method as above. When selecting the corresponding camera view, if the camera has moved since creating the last print view, the user will have the option to continue using the previous camera view, or set the camera view to the current view instead via the drop box – see below.



Selecting "Current View" will prompt the user to name the new camera view. Once the second print view has been created, the interface will now display 2 views. To select a view, click on the view in the interface, this will highlight it like below. It can also be double clicked to show the view on the model.

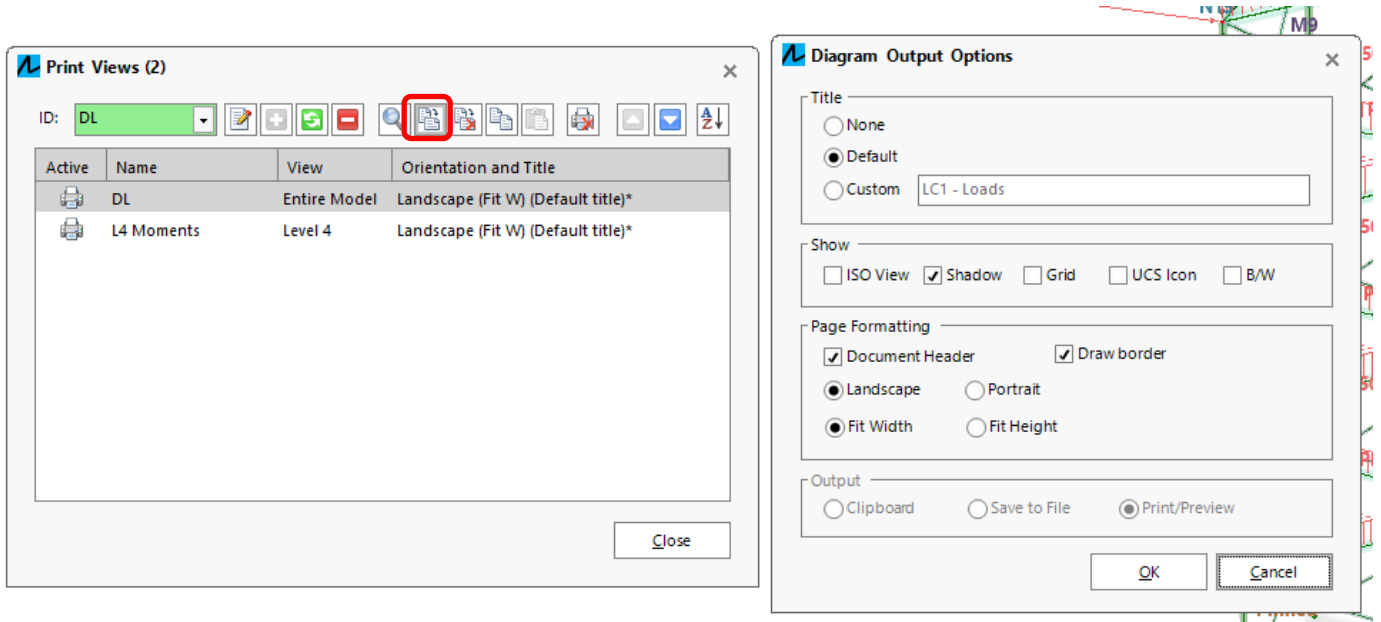


Print views will be printed when using the export all documents feature.

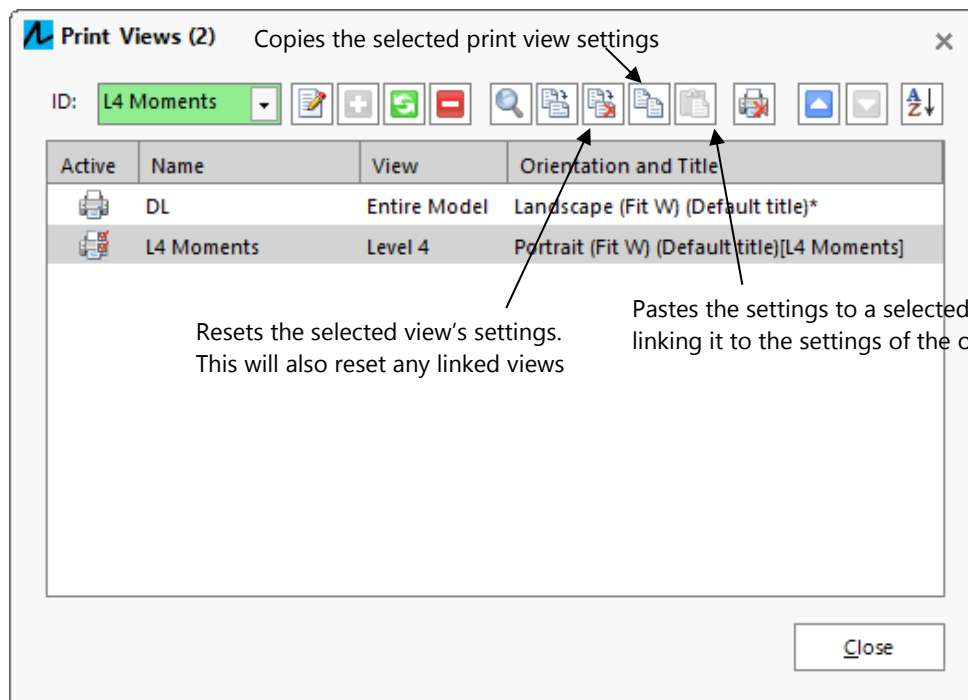


Using Print View Options

Print views can also be edited further to adjust print settings such as landscape -> portrait. This can be done via the [Edit] button shown below. Clicking this with a view selected (double-click) brings up the interface on the right.



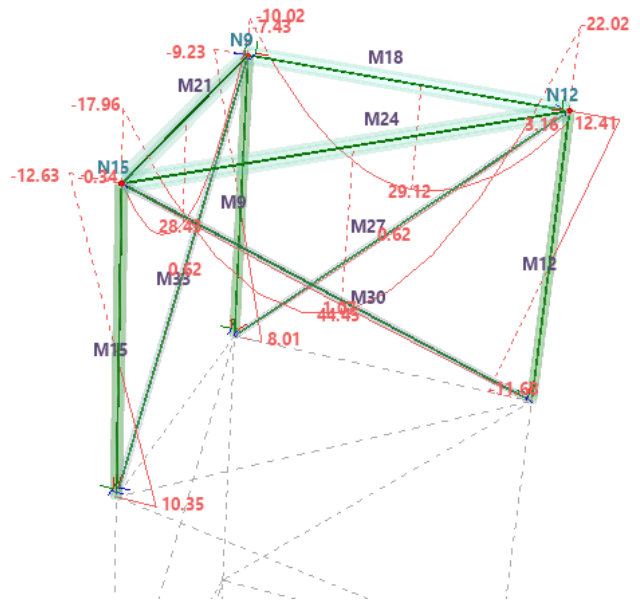
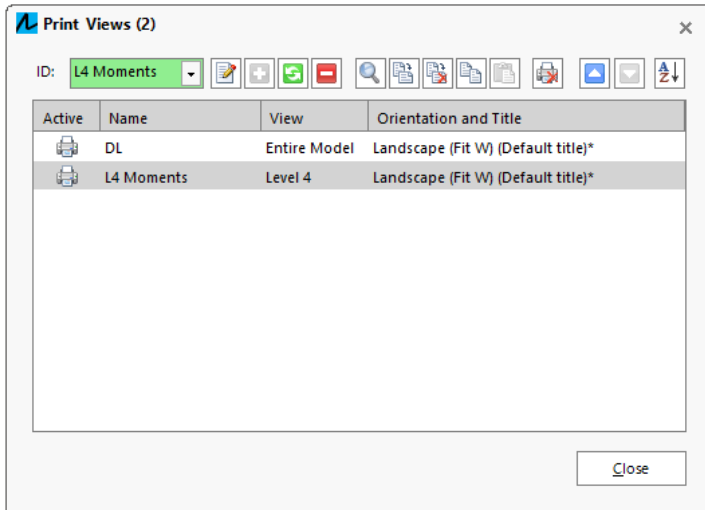
Once done, click [OK]. The "Orientation and Title" will change according to the settings chosen, as seen below. These settings can then be copied and pasted onto other print views, using the two options highlighted below. This copy and paste feature will link the settings to other views, meaning if the original is changed, so will all linked views.





Using Groups with Print Views

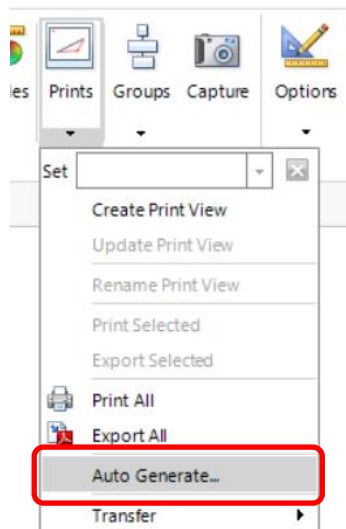
Groups can also be used with print views. To use a group within print view, have the group filter to show the desired group and set up a print view as normal. Ensure that the camera view is named accordingly.



To learn how to create and use groups, refer to the Analysis Groups learning document.

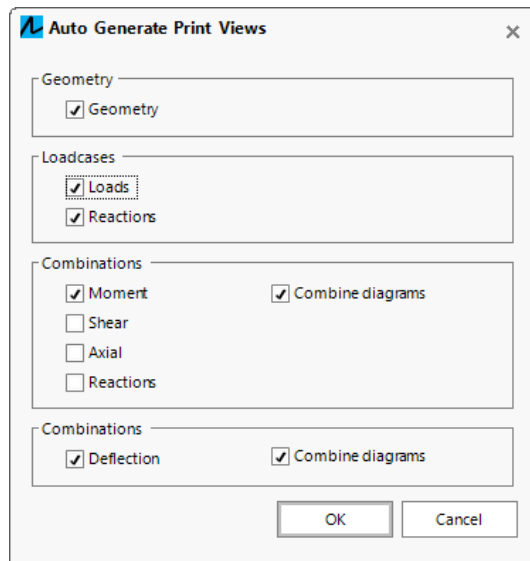
Auto Generate Print Views

As of Structural Toolkit V5.5, users can now select to auto generate print views on a model. This option can be found under the drop down of the [Prints] button in Analysis. Note that selecting this option will ask the user to delete any pre-existing print views.



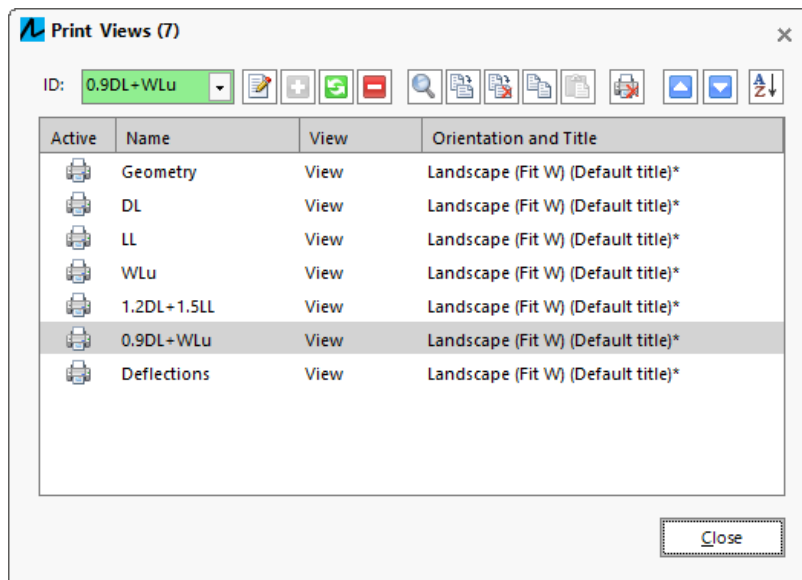


By proceeding, an interface where the user can customise the print views to be generated, as seen below.



The auto generate option will create print views based on what is selected. Force diagrams will be created for each combination present except for when a load combination consists of one load type with a factor of less than 0.8. This is to account for wind serviceability load (e.g. $0.68 \times WLu$), and will be omitted from any force diagram print view. Instead, this combination will be used for a deflection print view. This integrates well with the Analysis Wizard (As of STK V5.5) and its default wind combinations.

Once the print views have been generated, they can be viewed by clicking on the [Prints] button.



Note that selecting Auto Generate for models with large amounts of loadcases and combinations, may result in memory issues.