



LASERPLANS USA

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Guide to the use of 3D PDF Models

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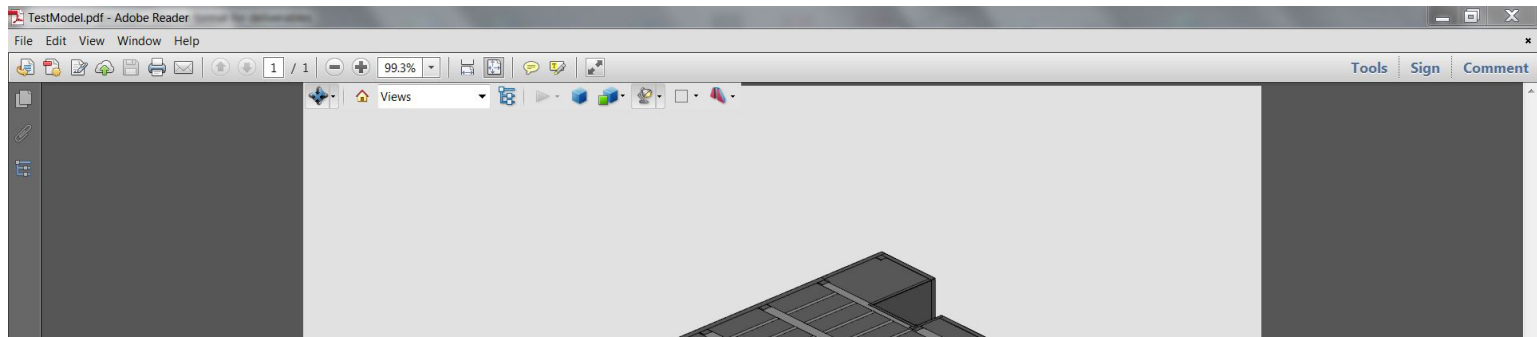
The models shown in 3D PDF files are full models prepared in Revit or AutoCAD. They are complete. By using a PDF format for review purposes, the user does not need the original application program (such as Revit or AutoCAD), and the models can be viewed on practically any computer given the wide use of Acrobat Reader (if you do not have it, it is a free download at <https://get.adobe.com/reader/>)

1.0 Acrobat Reader

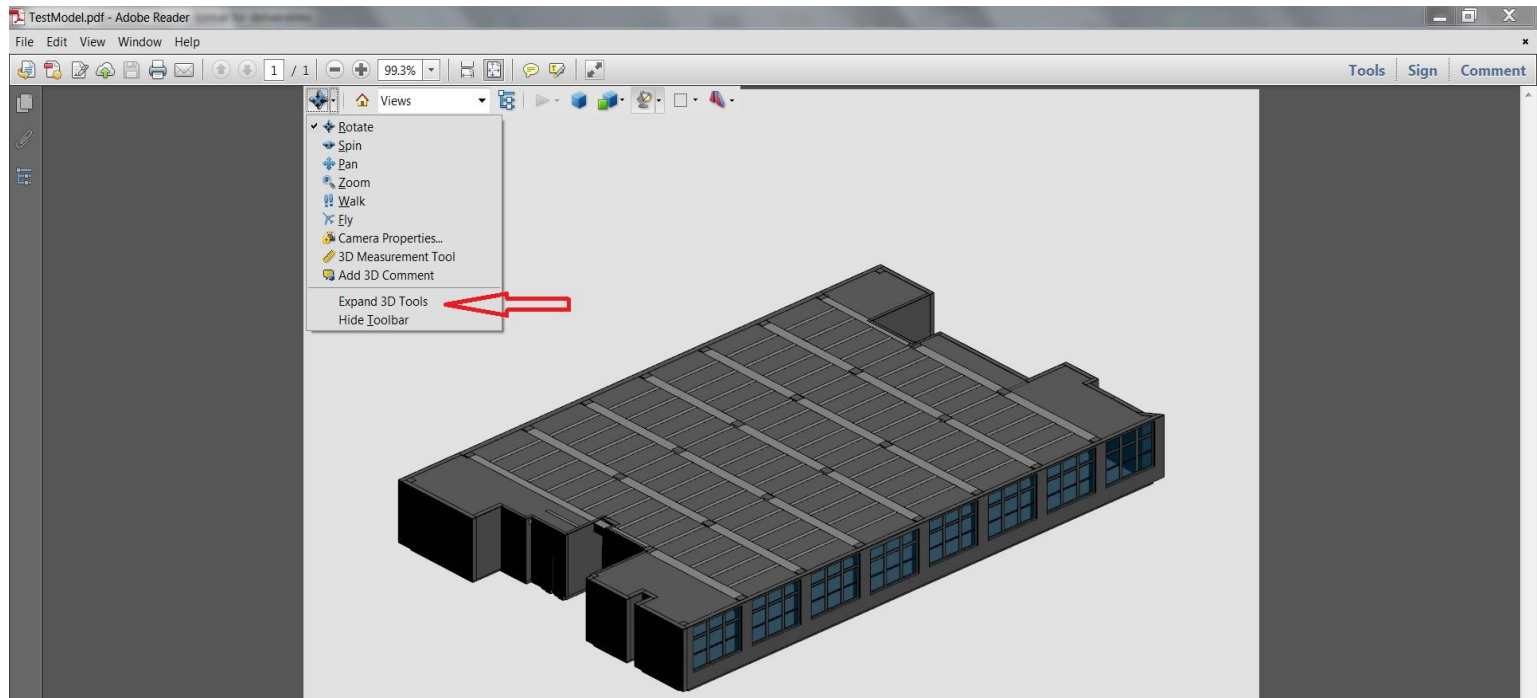
Make sure you have a current version of Acrobat Reader (later than version 9.5.5). If not, go to the download address above, and update your version of the program. It is free.

2.0 Initial View

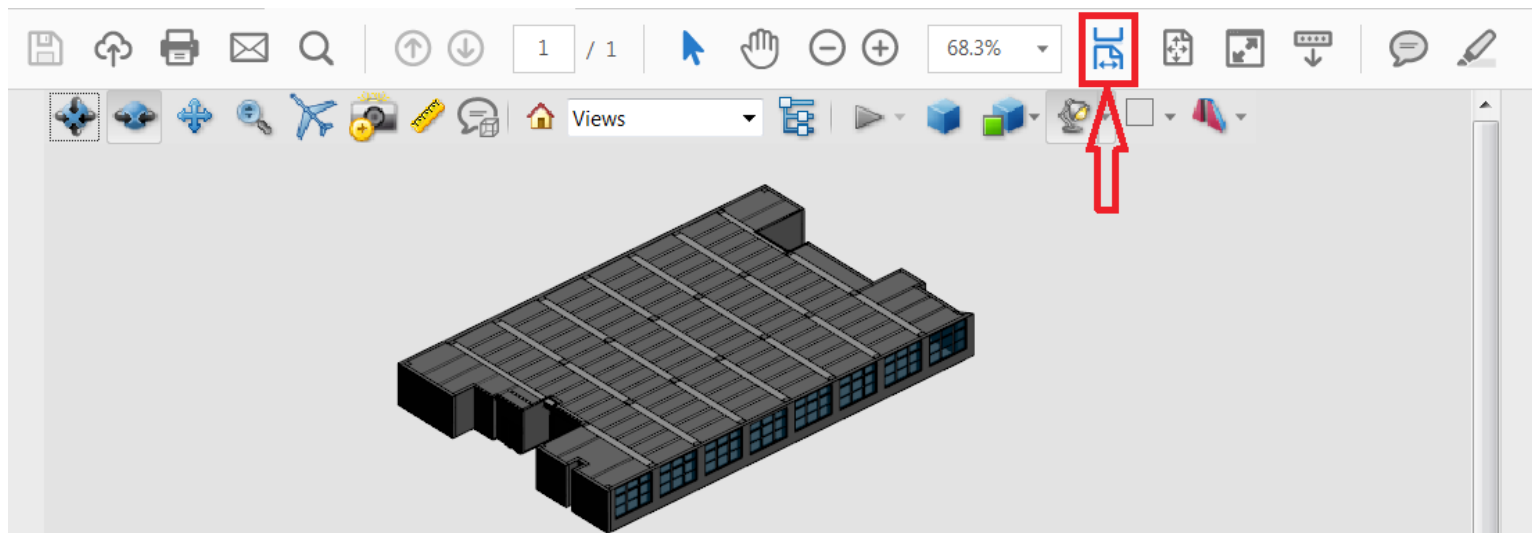
When you first open the file, the menu will probably look like this:



To expand the menu, make the selection shown below:

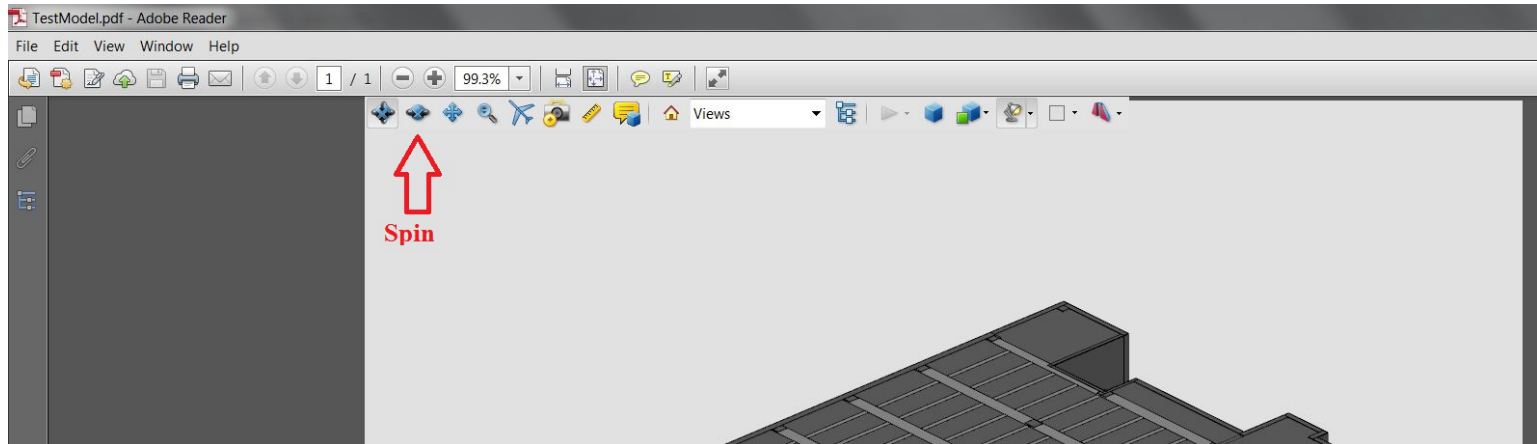


And to ensure you are filling the screen width to display the model as large as possible, make sure you have selected the "width" button as shown below.



3.0 Rotation

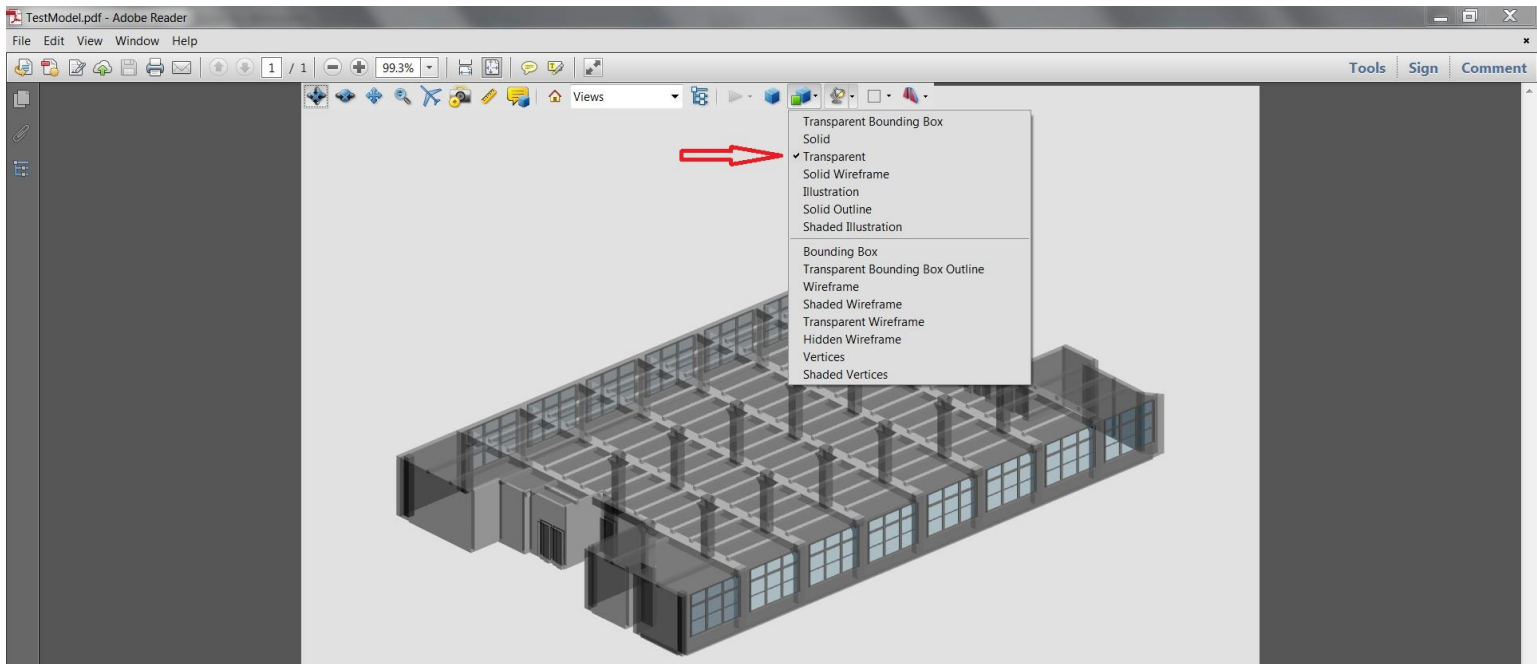
The most useful rotation tool is the second from the left, highlighted with the arrow:



The **Pan** icon is the one immediately to the right of spin. You can also **Pan** by holding down both mouse keys and moving the mouse to position the model. The mouse wheel allows you to **Zoom** in and out.

4.0 Look Inside the Model

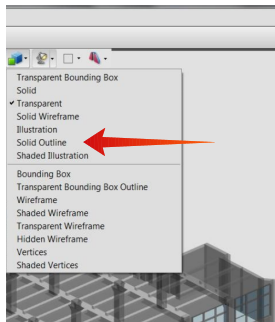
To see inside the model immediately, select the **Transparent** view, highlighted with the arrow:



This menu list also provides many other views of the model. Experiment with them and find the ones that are the most useful for you.

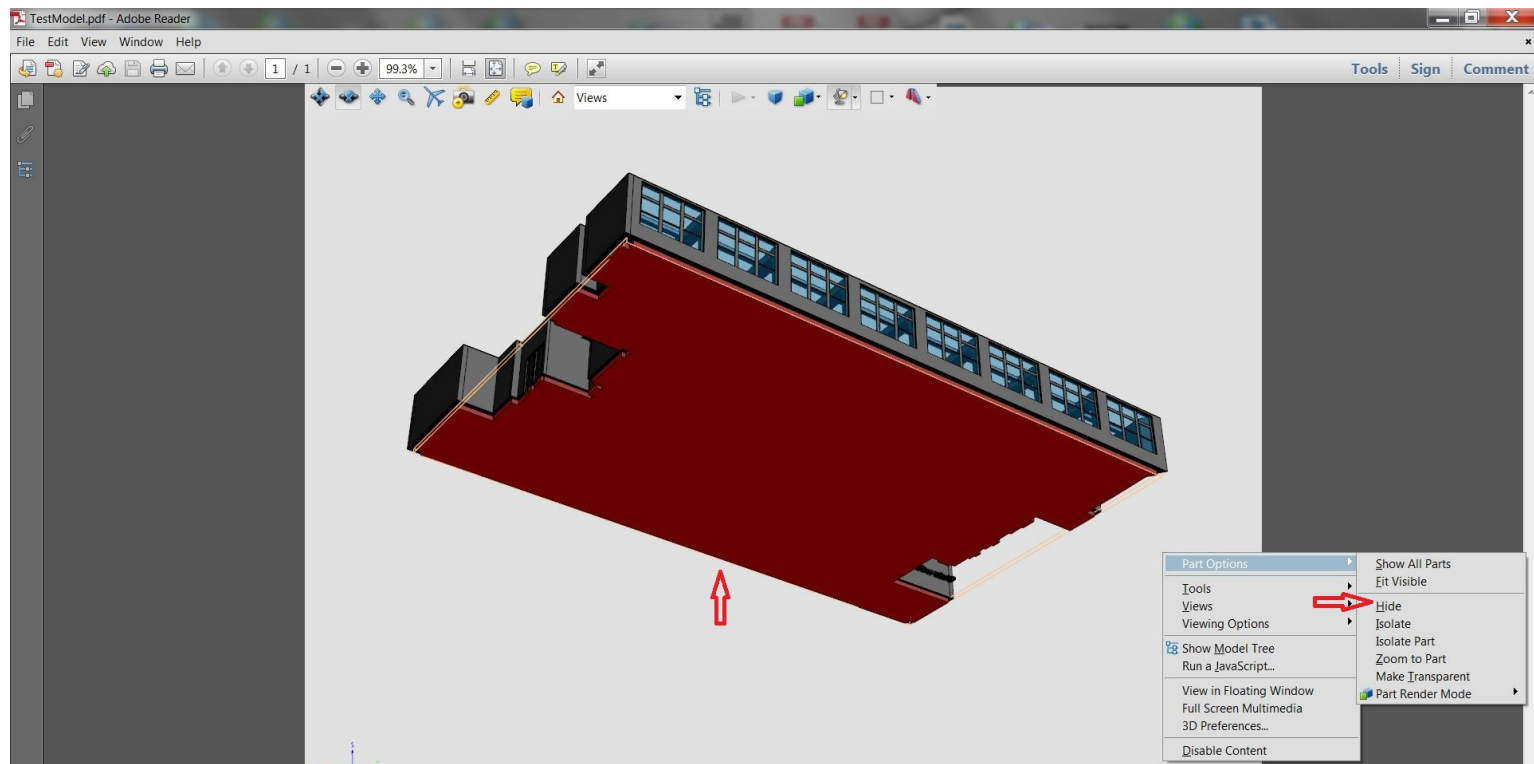
Note: Best Starting View

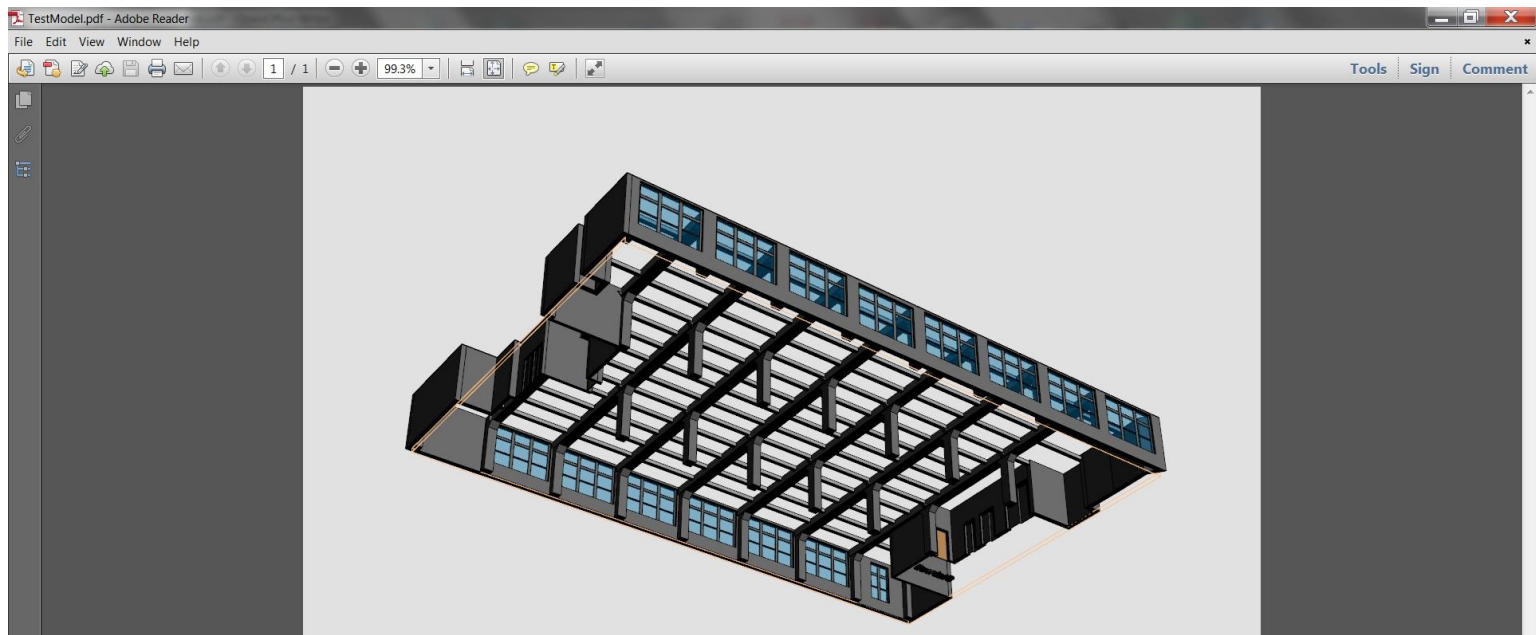
For most people, the best starting view is **Solid Outline**.



5.0 Hiding objects to see inside the model

If the model is object based, as in Revit models, you can select any object, and then hide it to see through a solid object. Click on the object to highlight it, then right click with the mouse to bring up the menu, and click on **Hide** under **Part Options**. See below:

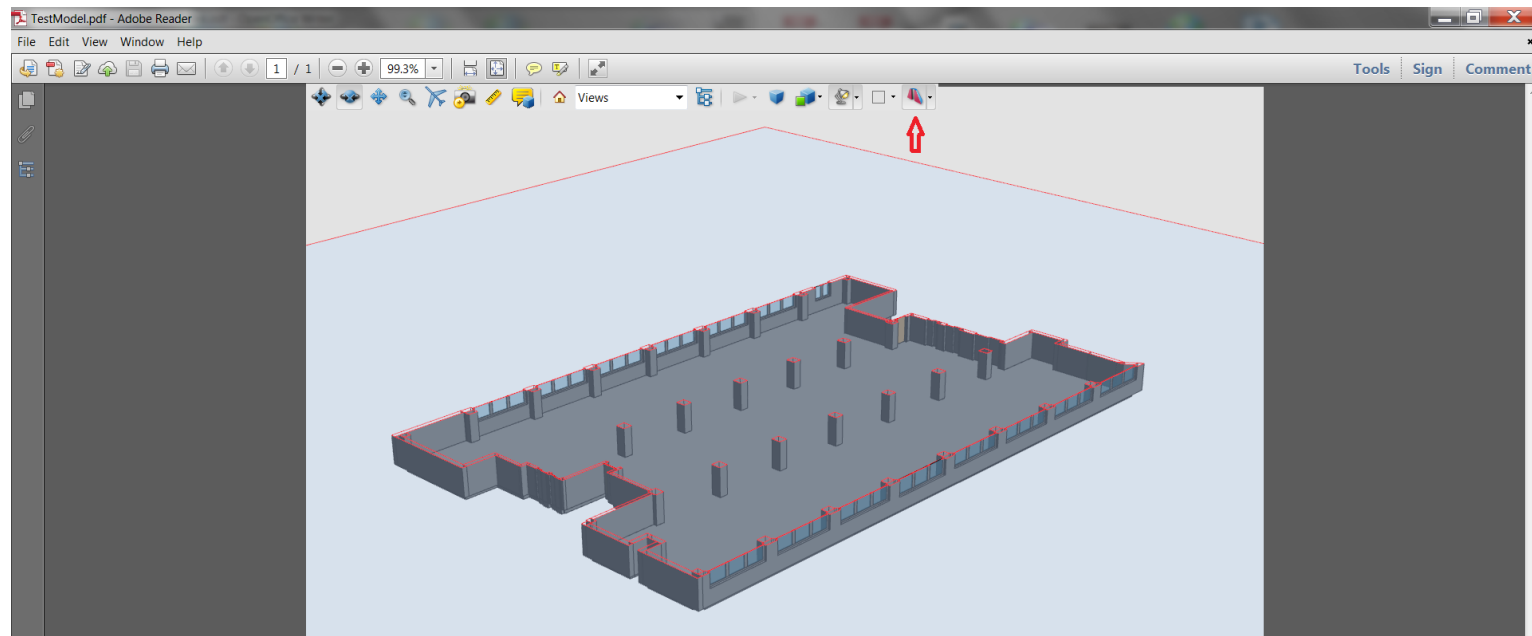




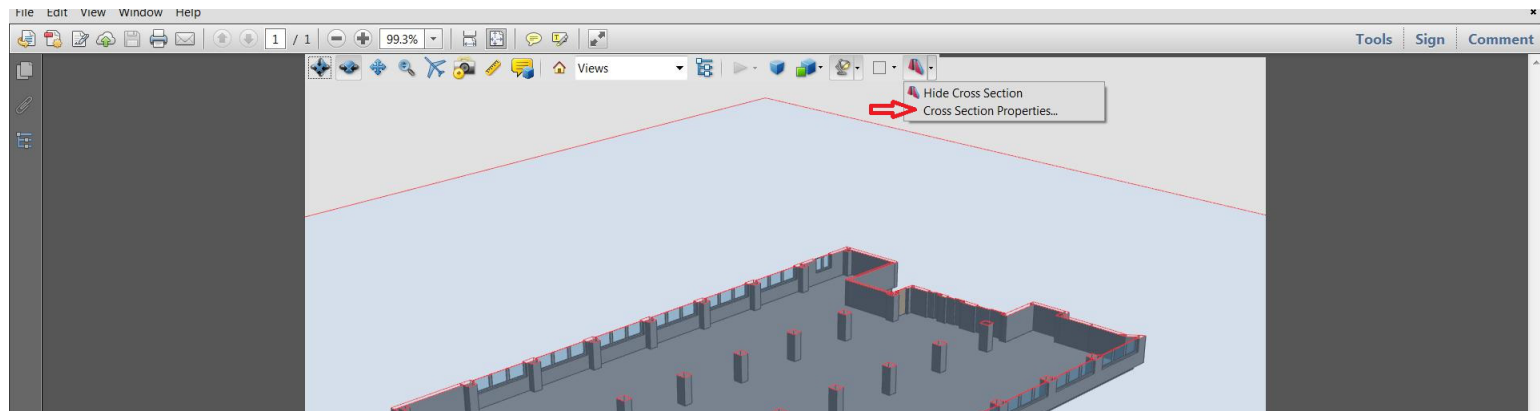
Select **Show All Parts** on the same menu list to restore the hidden parts.

6.0 Explore the model with Cross Sections

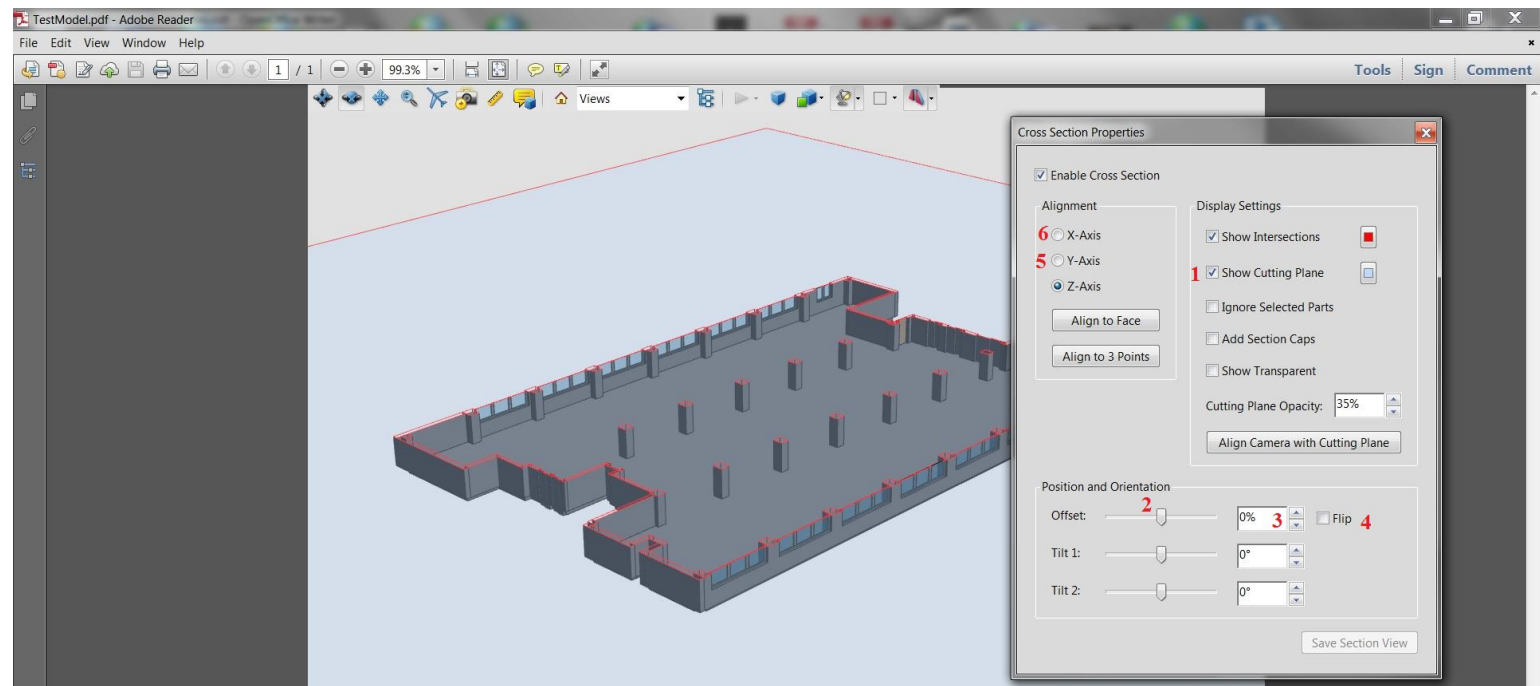
To activate the **Cross Section** function, click on the icon. It is a toggle switch, so click again to leave this function and restore the full model.



To enter the **Cross Section** function and change many features, click on the **Cross Section Properties** menu selection.



Some of the key features of the **Cross Section** function are as follows:



Item 1: Hide the cutting plane for a clearer view of the Cross Section.

Item 2: Change the cut point with the slider.

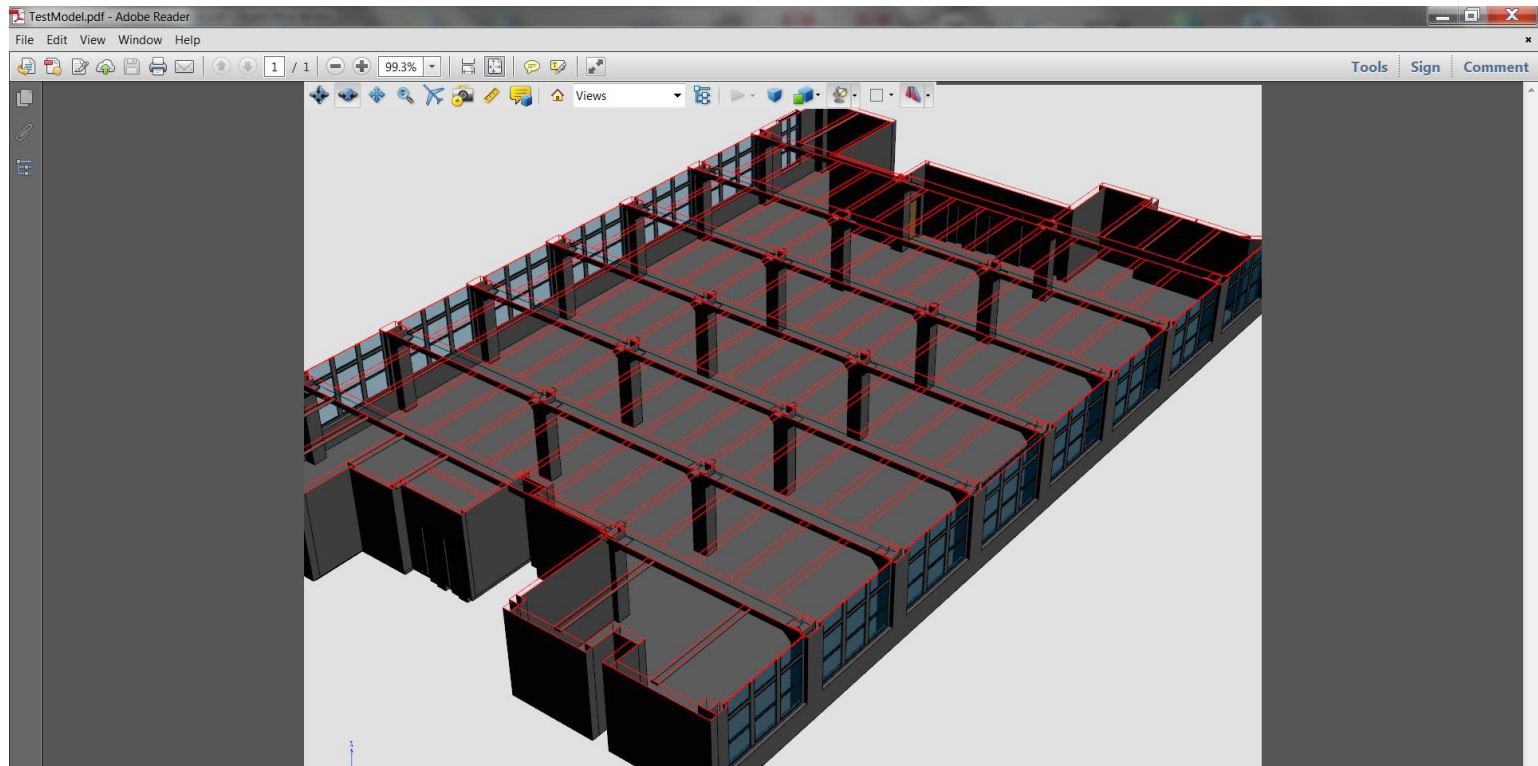
Item 3: You can also change the cut point incrementally with the counter.

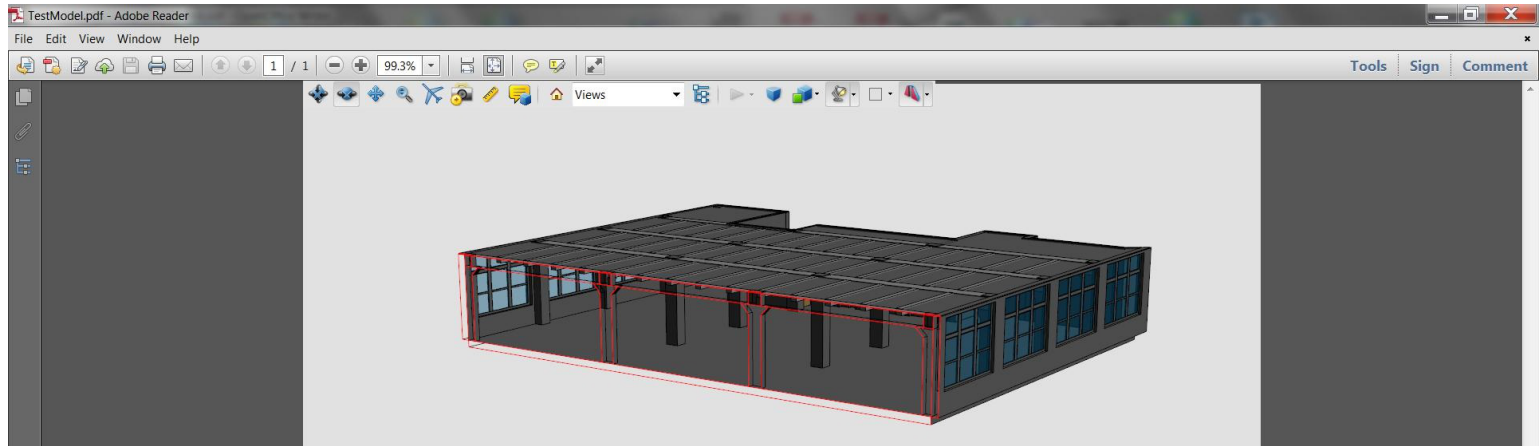
Item 4: Select the Flip function to flip the Cross Section point and look at the model from the other direction.

Item 5: Cut the Cross Section on the Y Axis instead of the X Axis to see a different section view.

Item 6: Cut the Cross Section on the Z Axis.

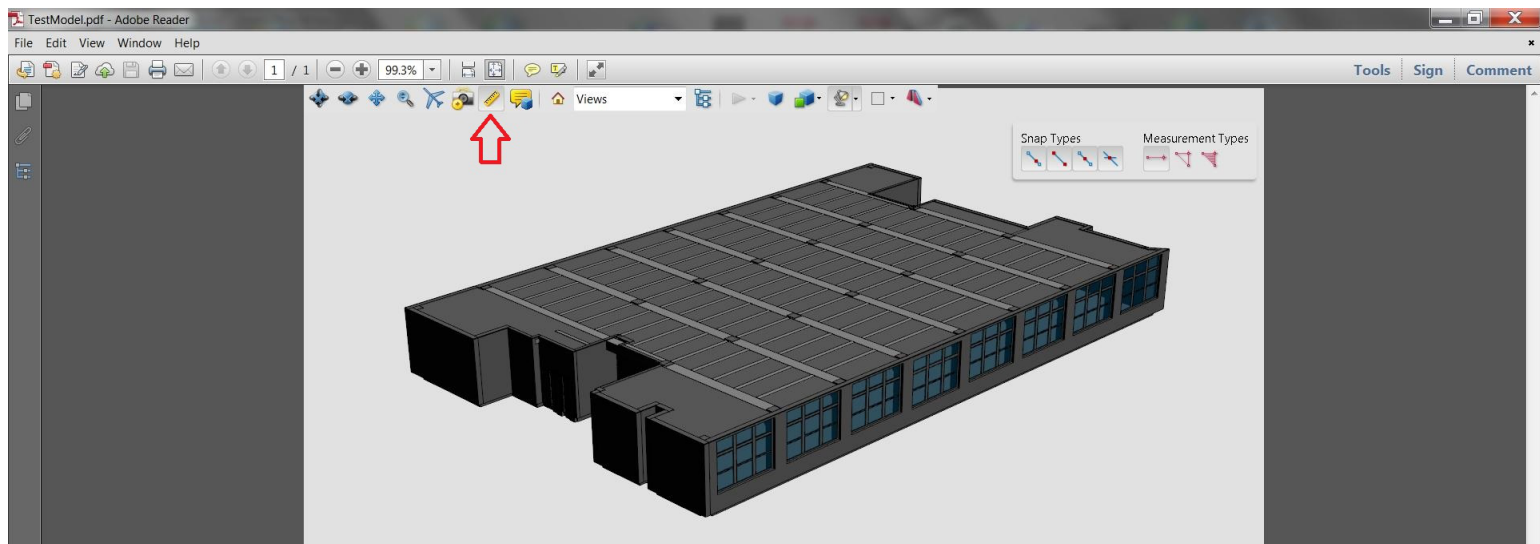
Here is what the Cross Section tool adjustments might show.



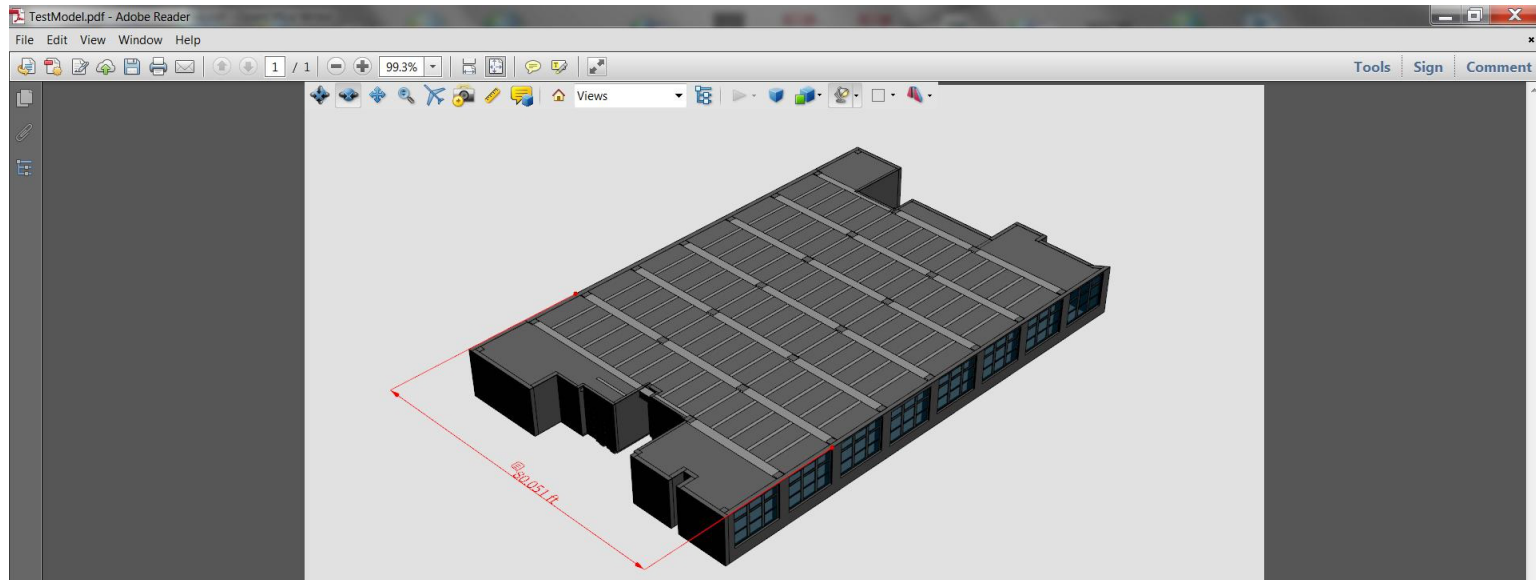


7.0 Take Ad Hoc Measurements

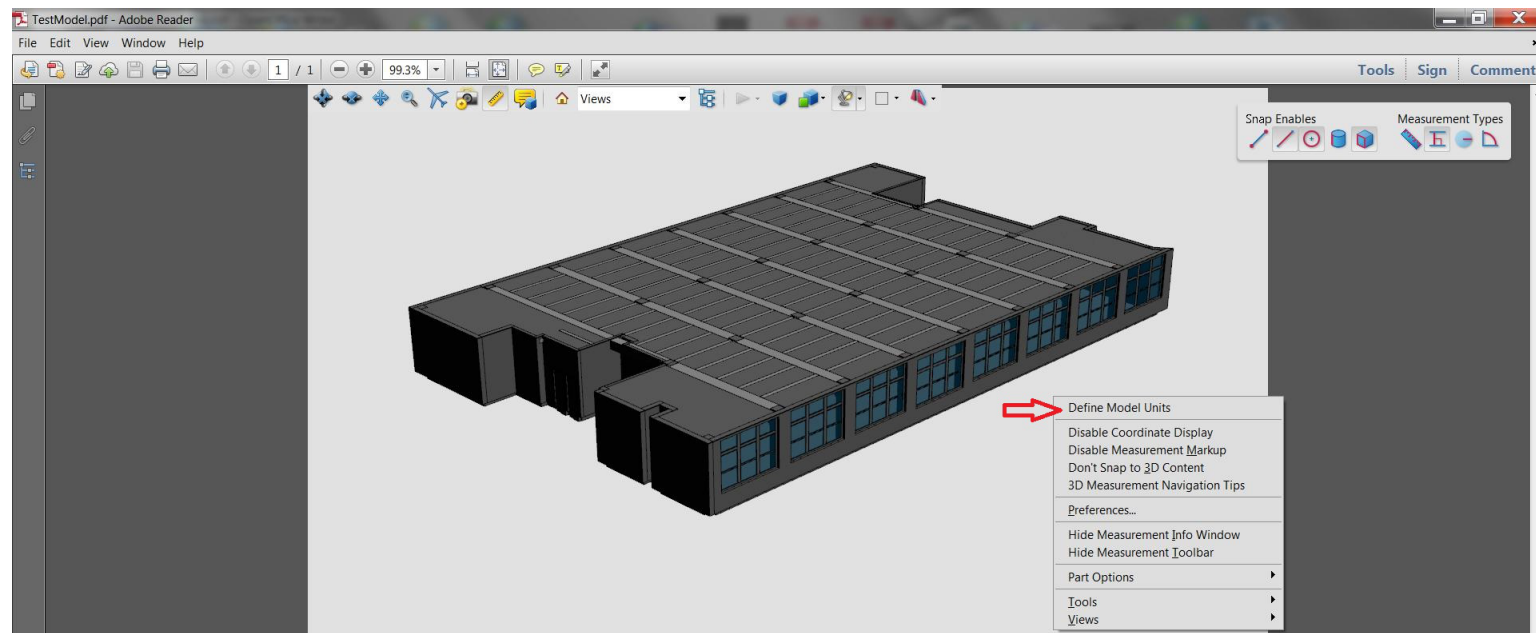
The model is fully dimensioned. To access the measurement function, click on the **Ruler** icon.



You can then select two points, and the measurement will be displayed. While taking the measurement, move the result to the position you require, and then click to end the measurement process.

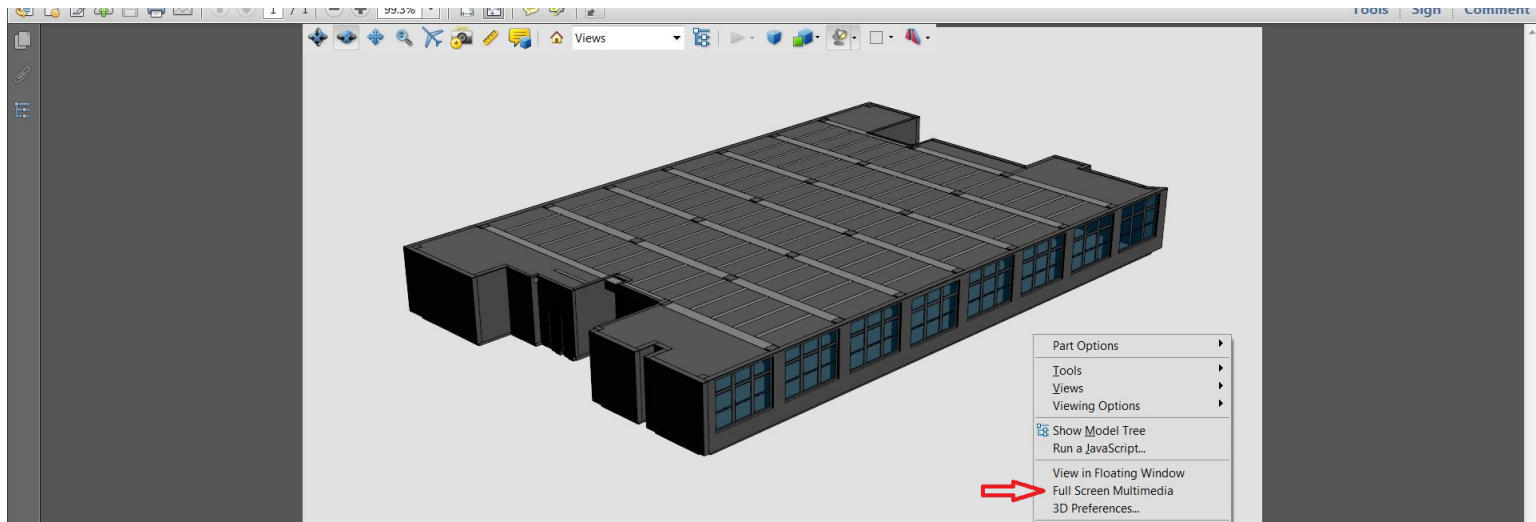


If you wish to change the measurement units (eg from feet to meters), right click on the screen after selecting the measurement icon, and select **Define Model Units**. If the initial measurement is in "model units", then use this selection to set the initial unit you require.



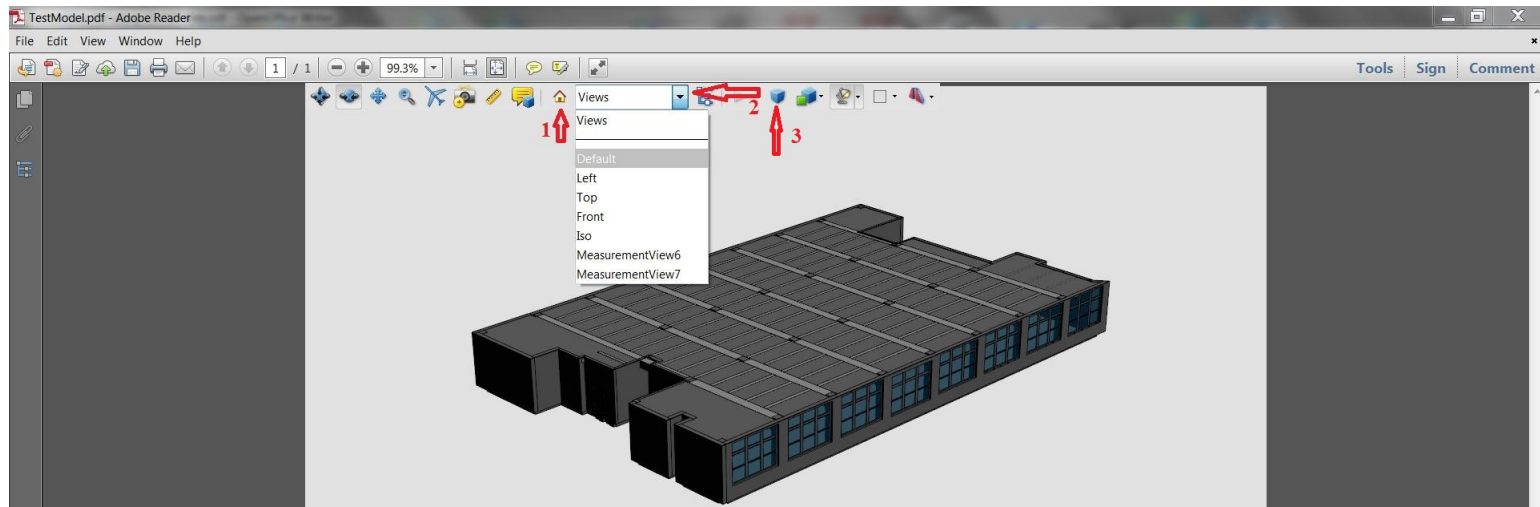
8.0 View in Full Screen

To view the model in full screen mode, right click with the mouse and select **Full Screen Multimedia**. Once in Full Screen mode, right click to gain access to all the other menu options.



9.0 Standard Views

The user can make use of several standard view positions that are embedded into the PDF file.



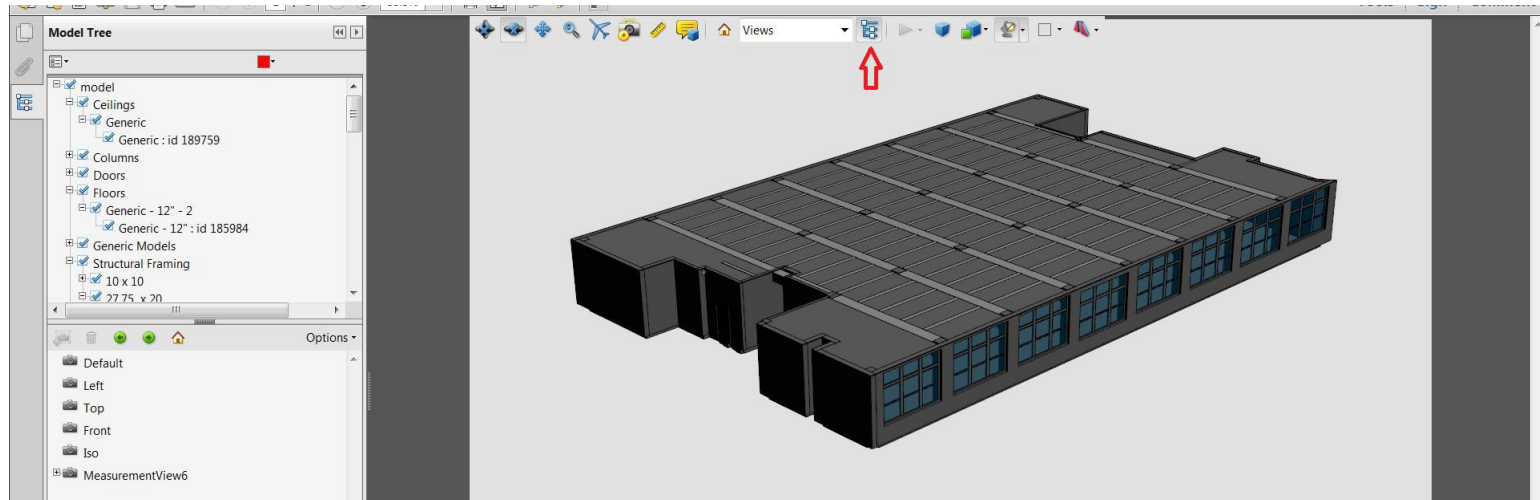
Item 1: This is the Home button and will always return you to the opening position.

Item 2: The drop down list presents a number of standard view positions.

Item 3: This icon will present the model in Orthographic Projection.

10.0 Model Objects – For those who wish to see them

If you wish to see the listing of the objects in the model, click on the Tree icon shown below. It is also a toggle icon to switch it off.



11.0 Other Features

There are many other features for advanced users. Explore these functions, and to avoid compromising the PDF file, do not save the file when you exit it.