

Editing Design Structure With Adobe Illustrator

Task

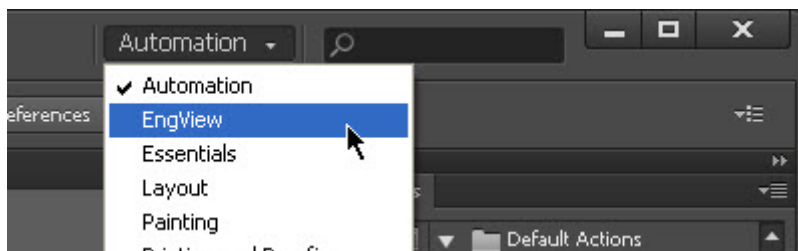
This exercise explores how Package Designer design is opened in AI and how its parameters are edited to change the design's structure. When in AI you open an EngView design, the integration starts automatically. You can then see the Package Designer icon in the system tray.

In this exercise we will open a resizable design and load the EngView workspace. Then will change some of the design's parameters with the aim of changing its structure.

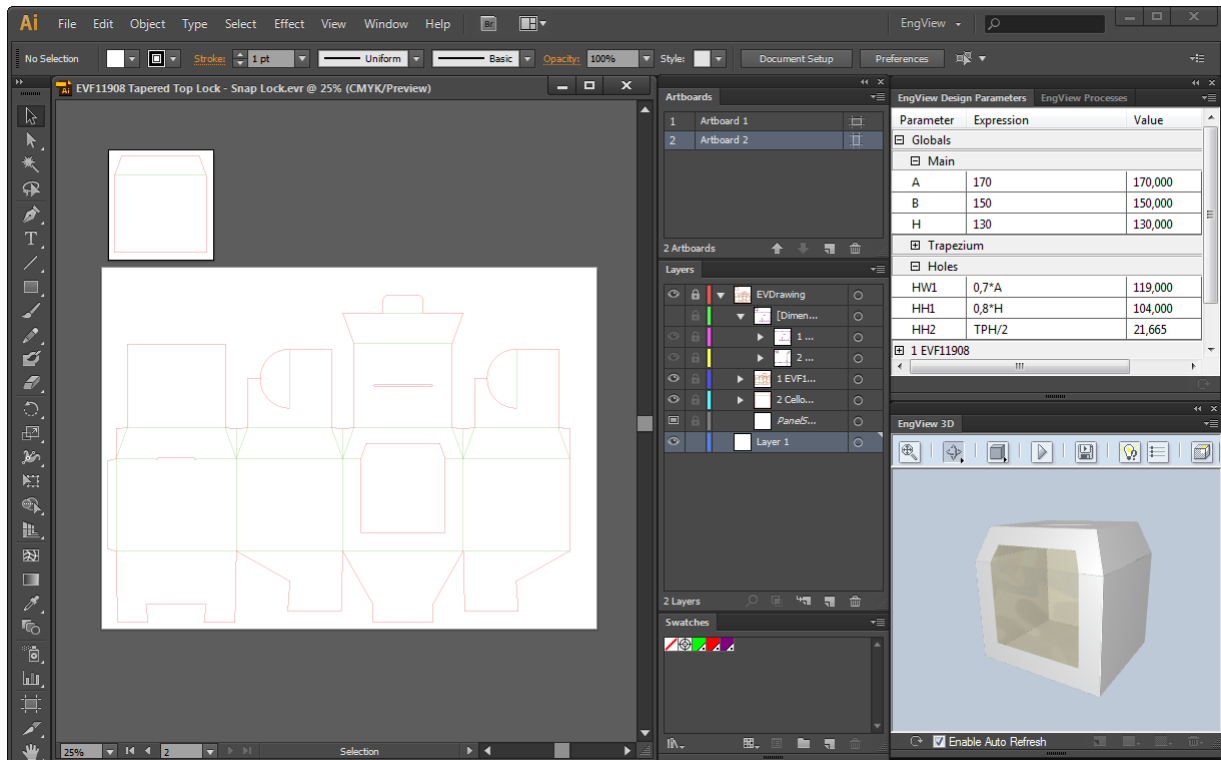
Exercise description

Opening an EngView file in AI and preparation for work

1. In AI, browse the EngView Library of Resizable Designs and open the file EVF11908 Tapered Top Lock – Snap Lock.
2. After the file has been opened, on the **Menu** bar load the EngView environment by clicking EngView (pictured). It contains the panels whose combined functionalities define the integration.



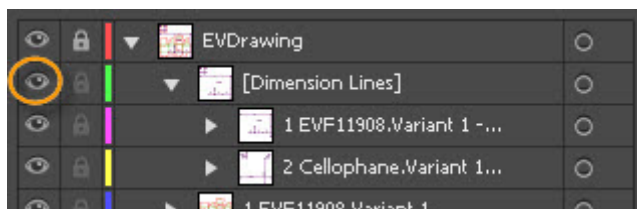
COMMENT: The EngView environment is a set of predefined panels that cover the integration-related functionalities. It includes the EngView-specific panels (EngView Design Parameters, EngView Processes and EngView 3D) and the AI panels Artboards, Layers and Swatches. The EngView environment can be loaded prior opening of any files.



You can see the design's parameters listed in groups in the **EngView Design Parameters** panel.

Next we will make visible the dimension lines. We need them to see which parameter is linked to which dimension. This is necessary when we are editing the design's size.

3. To make visible the dimension lines in the design, in the **Layers** panel click the eye icon on the [Dimension Lines] row.





4. (Optional) To expand the workspace, hide the panels Artboards, Layers and Swatches. We will not need them for the rest of the exercise.

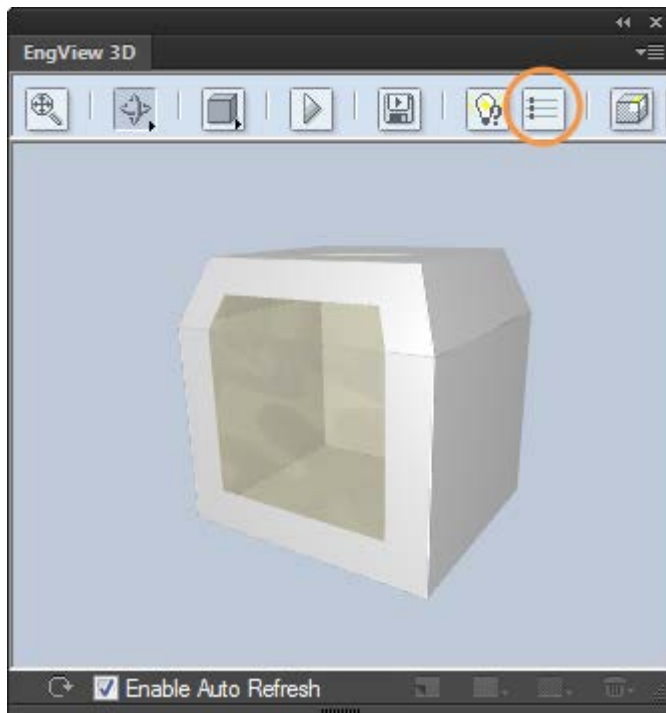
Editing the Design Parameters

1. On the **EngView Parameters** panel, change the values of the parameters A, B and H to, respectively, 145, 157 and 115. Next, change also the value of the parameter HL to 80.

EngView Design Parameters			EngView Processes
Parameter	Expression	Value	
Globals			
Main			
A	145	170.00	
B	157	150.00	
H	115	130.00	
Trapezium			
Holes			
1 EVF11908			
Panel			
Holes			
HL	80	83.08	
HW	3	3.00	
Webbed Flap			
Tuck Tongue			
Snap Lock			

2. To update the box size with the new parameter values, click **Recalculation Design** .
(Highlighted in the previous step.)

NOTE: As part of the editing the structure of a design, you can change also the material thickness. To do this, on the **EngView 3D** panel, click **Drawing Properties** , and then, in the dialog box that appears, type the thickness value that you need in **Thickness**.

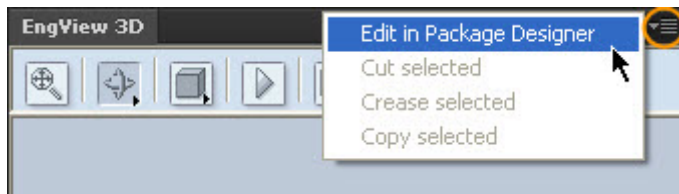


Editing the design structure in Package Designer

A major feature of the Package Designer/AI integration is that you can switch between the two programs to perform tasks specific for either program. All editing done in one program is automatically reflected in the other.

We will proceed with making structural changes in the design.

1. In AI, on the **EngView 3D** panel, click the menu icon, and then click **Edit in Package Designer**.



A message appears, informing us that Package Designer is being loaded.

2. In Package Designer, make the structural changes as shown in the video “AI Integration (01) Editing Design Structure”: add a 20 mm fillets to the central opening and trim the unnecessary objects.

3. In Package Designer, to update the 3D representation, in the 3D drawing click **Refresh** .

COMMENT: In the video, you see an external object inserted into the design. When we are back in AI we will see this object there too.

When we have finished the editing of the design structure, two options are possible:

- We can save the edited design as an EVD file by using the **Save As** command. This EVD file can be used for other production processes such as cutting a sample, creating a layout, diemaking and so on. After creating the new EVD file, we return to AI and continue with the work at hand.
- We can go back to AI and proceed with the work on the graphic design. But at any time during our work in AI we can also export the design to an EngView Structural Drawing. This will create the necessary EVD file, which can be used further to continue with the production process.

Returning to AI

To proceed with the work to the graphic design, we will return to AI.

4. To return to AI, close the file. **DO NOT CLOSE PACKAGE DESIGNER.**