

Esko Data Exchange for Adobe Illustrator 23.03

User Guide

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Mesa 3-D graphics library
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2. Introduction to Data Exchange

The Esko **Data Exchange** plug-in for Adobe Illustrator combines several plug-ins into one package for easier installation. The combined plug-ins are:

- [The PDF Export Plug-In](#) on page 30
- [The Ink Manager Plug-in](#) on page 42
- [The Structural Design Plug-in](#) on page 61
- [The Page Box Plug-in](#) on page 81
- [The Inspection Setup Plug-In](#) on page 87
- [Messages](#) on page 90
- [Esko Document Setup](#) on page 93
- [Annotations](#) on page 95

2.1. Data Exchange Preferences

The option **Update XMP on Document Save** defines if the document's XMP data is updated when the document is saved in the .AI format or as Adobe PDF with preserved Illustrator editing capabilities.

The option can be found in **Illustrator > Preferences > Esko** and is turned on by default. Deselecting this option results in slightly faster document saves.

3. The PDF Export Plug-In

3.1. Introduction

The **PDF Export** plug-in allows you to directly export your Illustrator files to **Normalized PDF** or to **PDF+**, depending on the setting in the **Ink Manager**: see [Normalized PDF or PDF+](#) on page 42

3.2. Saving a File as Normalized PDF or PDF+

To save your Illustrator file as Normalized PDF or PDF+ using **PDF Export**:

1. Go to **File > Export... > Export As...**
2. In the dialog that opens, choose your file's name and location, and choose the **Esko PDF (pdf)** format.
3. Click **Export**.
4. In the **PDF Export Settings** dialog that opens, fill in the export settings (see [PDF Export Settings](#) on page 30).
5. Click **OK** to export the file.

3.3. PDF Export Settings

When exporting your files to Normalized PDF or PDF+ format, you need to set the PDF Export Settings. The settings are different when exporting Normalized PDF (left) or PDF+ (right), and depend on the setting in the Ink Manager. See [Normalized PDF or PDF+](#) on page 42

3.3.1. Preset

Using **Presets** you can store and reuse the settings for the PDF Export dialog.

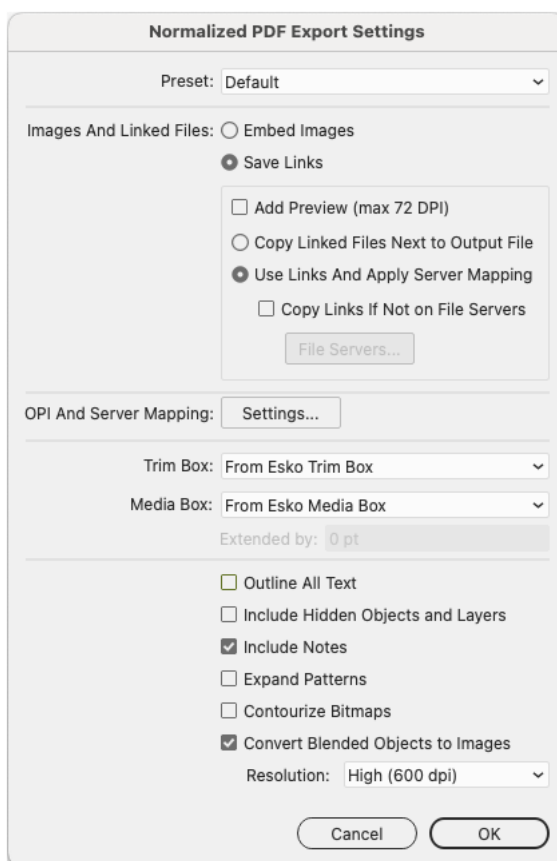
You can save the current settings as a Preset by selecting **Save...** and entering a name. The location for the Presets is defined in the PDF Export Preferences. See [PDF Export Preferences](#) on page 39

You can load a Preset by selecting it in the dropdown.

If you set the Preset to **Default**, the parameters as set in the **PDF Export Preferences** will be used. See [PDF Export Preferences](#) on page 39.

If the current settings are not saved as a setting, the **Preset** dropdown will show "Custom".

3.3.2. PDF Export: Normalized PDF



1. Set the **Images and Linked Files** settings. See [Images and Linked Files](#) on page 32
2. Set the **Opi and Server Mapping** settings. See [OPI and Server Mapping](#) on page 33
3. Set the **Trim Box** to be used:
 - **From Esko Trim Box:** the Trim Box size and position will be taken from the **Trim Box & Media Box** plugin. When not specified in the plugin, the size of the Artboard will be used instead.
 - **Current Artboard:** the Trim Box will have the same size and position as the Artboard.
 - **Artwork Bounding Box:** the Trim Box will be as big as the bounding box of all currently selectable objects in the document.



Note: If any of the options is not defined, it will disabled in the dropdown.

4. Set the **Media Box** to be used:
 - **From Esko Media Box:** the Media Box size and position will be taken from the **Trim Box & Media Box** plugin. When not specified in the plugin, the size of the Trim Box will be used instead.
 - **Current Artboard:** the Media Box will have the same size and position as the Artboard.

- **Artwork Bounding Box:** the Media Box will be as big as the bounding box of all currently selectable objects in the document.
- **From Document Bleed:** Bleed settings defined in Adobe Illustrator will be used as Media Box.
- **Custom Margins:** the Media Box will have the size of the Trim Box, **Extended by** the distance you enter.



Note: If any of the options is not defined, it will be disabled in the dropdown.

5. Enable **Outline All Text** to convert all text to outlines.
6. Enable **Include Hidden Objects and Layers** to include hidden objects when the PDF file is exported.
7. Enable **Include Notes** to include annotations in the PDF. This option is only available in combination with the PDF Import plug-in.
8. Enable **Expand Patterns** to replace patterns by actual objects. The path containing the pattern fill, will then be filled with the objects as defined in the pattern.
9. Enable **Contourize Bitmaps** to convert 1-bit images (linked or embedded) into vectors.
10. **Convert Blended Objects to Images** will convert blended objects to images. You can set the resolution for this images to High (600dpi), Medium (300dpi) or Low (150dpi)



Note: In case of converting blended objects with different overprint setting (one is overprinting, the other is not), the conversion might change the final result. The following message is shown: "Rasterized Blend combines art in overprint and not in overprint mode. Rasterization may have caused changed appearance."

Images and Linked Files

1. In the **Images and Linked Files** group, choose to either **Embed Images** in the Normalized PDF, or **Save Links** to the images.

- If you choose to embed the images, you don't have any more preferences to fill in and you can just click **OK**.



Note: This doesn't save the images' link information (except for linked ArtiosCAD graphics, see [Linked ArtiosCAD Graphics for Normalized PDF export](#) on page 41).

- If you choose to use linked images, fill in the other preferences of the dialog.
2. Enable **Add Preview (max 72 DPI)** if you want your Normalized PDF to have a low resolution preview of the linked images.

This preview allows you to view the linked images when opening your file for example in Acrobat.

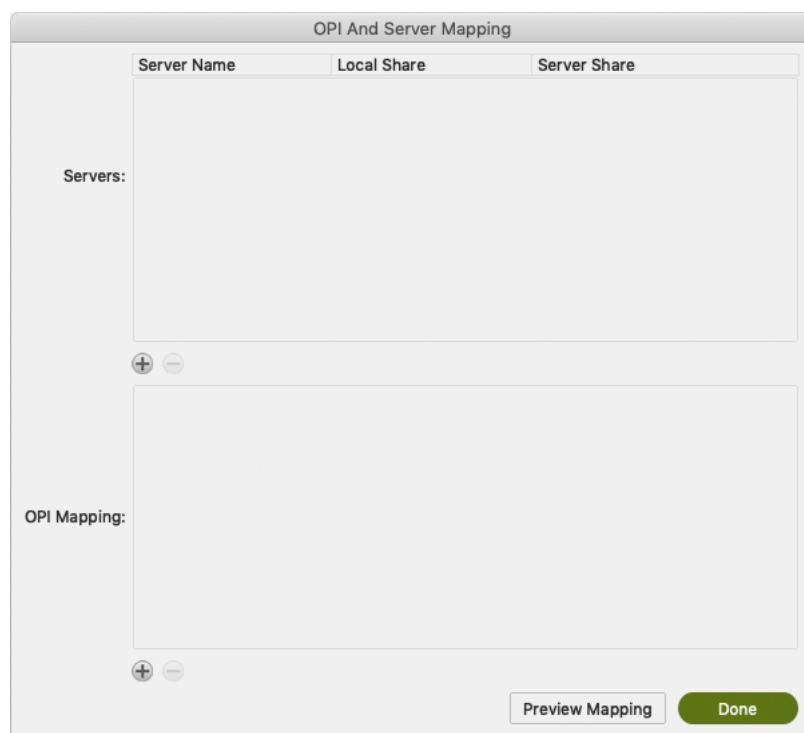
3. Choose where to copy the linked images:
 - Choose **Copy Images Next To Output File** to copy them next to the folder in which you will save the Normalized PDF (so other applications like **ArtPro** or **PackEdge** can still open them when the links are broken).
 - Choose **Use Links And Apply Server Mapping** to keep the images where they are but update the links (for example if the images are in a shared folder located on a different machine).
4. When choosing **Use Links And Apply Server Mapping**, fill in a Server Mapping if the share names on the client machine and on the other server do not match.
 - a) When checked, **Copy Links If Not On File Servers** verifies if linked images are already on file servers and if they are not, copies them along with the exported Normalized PDF file. Choosing

this option also enables the **File Servers...** button where you add the machines that store linked images so that Esko workflow servers can find them.

For more information, see [OPI and Server Mapping](#) on page 33

OPI and Server Mapping

When you click the **OPI and Server Mapping Settings** button, either in the **PDF Export Settings** or in the **PDF Export Preferences**, the **OPI and Server Mapping** dialog appears:



Note:

This dialog is available only when you have chosen to Save Links in exported Normalized PDF files. When you export a Normalized PDF, OPI Mapping is applied first and then Server Mapping.

Servers

The top pane of the dialog configures **Server Mappings**. You need to use Server Mappings when the Normalized PDF you output:

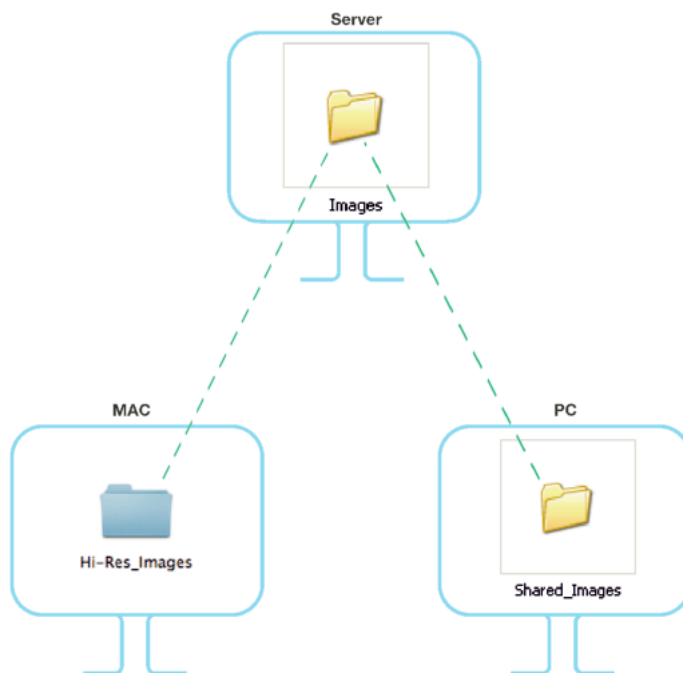
- has linked images that are located on a different machine (file server),
- will be used on another machine (not your local machine or the file server).

Server Mappings allow you to map the image links from one share name to another automatically on output. This ensures that the links are not broken when the Normalized PDF is used on another machine.

For example:

- the linked images are saved on a file server called "Server", in a shared folder called "Images",

- your copy of Illustrator with PDF Export is on a Mac, and the shared folder containing the images is mounted as "Hi-Res_Images".
- the Normalized PDF you export will be used on a PC, where the shared folder containing the images is mounted as "Shared_Images".



The link to an image called "My_Image.psd" is "Server/Hi-Res_Images/My_Image.psd" on the Mac, and should be "\\Server\Shared_Images\My_Image.psd" on the PC.

When adding the Server Mapping in the **OPI And Server Mapping** dialog, you should enter the **Share Details** as follows by:

- name of the file server in **Server Name**,
- name of the shared folder containing the images as seen from your local Mac in **Local Share**,
- name of the shared folder containing the images as seen from the other PC in **Server Share**.

Share Details

Server Name: Server

Local Share: Hi-Res Images

Server Share: Shared_Images

Cancel OK



Note:

- You can use subfolders in a Server Mapping.

Share Details

Server Name: Server

Local Share: Hi-Res Images

Server Share: Images/Hi-Res

Cancel OK

- You can also use Server Mappings to replace images (for example to swap low-resolution for high-resolution images **when the low-resolution and high-resolution images have identical separations**).

Share Details

Server Name: Server

Local Share: LowRes

Server Share: HiRes

Cancel OK

To add the Server Mapping, do the following:

1. In the **OPI And Server Mapping** dialog, click the plus sign button to the lower left of the Servers pane. This opens the **Share Details** dialog.
2. Enter or choose the name of the file server containing your linked images in **Server Name**.
3. Enter or choose the name of the file server's share containing your linked images **as it appears on your local machine** in **Local Share**.
4. Enter the name of the file server's share containing your linked images **as it appears on the other machine that will use your Normalized PDF** in **Server Share**.

OPI And Server Mapping

Server Name	Local Share	Server Share
Server	Hi-Res_Images	Shared_Images

Servers:

5. If you want to add another Server Mapping (to use your Normalized PDF on yet another machine), repeat steps 1 to 4.

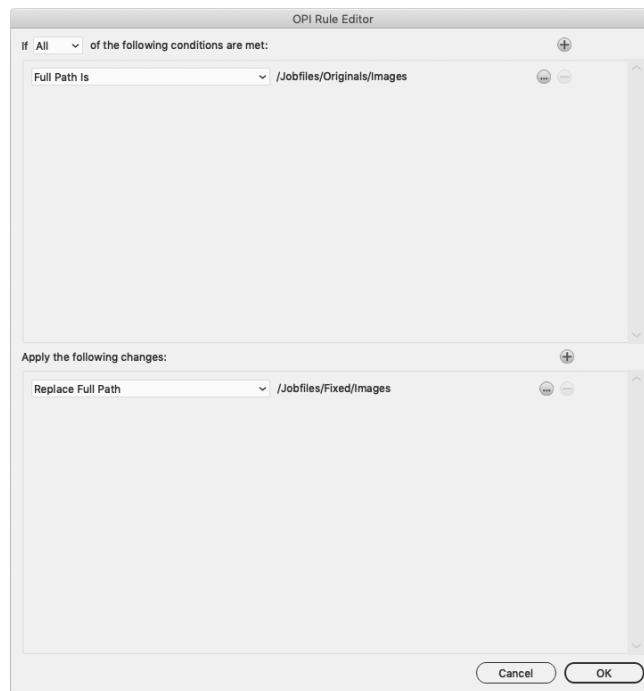
To edit a Server Mapping, double-click it. To remove a Server Mapping, select it and click the minus button to the lower left of the Servers pane.

OPI Mapping

The lower half of the **OPI And Server Mapping** dialog configures **OPI Mapping**, which defines the rules for image substitution when exporting a Normalized PDF in a more specific way than Server Mapping. OPI stands for Open Press Interface.

To add an OPI mapping, do the following:

1. Click the plus sign to the lower left of the list pane. This opens the **OPI Rule Editor** dialog.



2. After the word **If**, decide how many conditions that must be true for this mapping rule to take effect: **All**, **Any**, or **None**.
3. For the condition In the top pane of the dialog, choose the element of the image file's path to examine in the first field. Image paths are in URI (Uniform Resource Identifier) format, such as file://mymac/MacHD/images/lowres/tests/Spacebar_CMYK.eps. As you select elements, further controls appear on the same line to refine the condition. For example, if you choose Full Path Is, you can click ... to browse for a folder, or click x to revert to the previous folder. To add a condition, click +; to remove a condition, click -.
4. Once you have defined the conditions, define the changes to the path in the lower pane of the window. Use the same process to define the changes as you did to define the conditions: choose the change, then set its options on the same line. To add a change, click +; to remove a change, click -.
5. Click **OK** to finish defining the rule.
6. To add another rule, click +; to remove a rule, click -.

Consider again this example URI file name: file://ImageServer/LOWRES/images/lowres/tests/Spacebar_CMYK.eps.

- The condition **Extension, Is Equal To**, EPS will match.
- **Folder Name, Starts With**, lowres/ will match. You can specify the text ending with / to state that it must be the entire Folder name and to make sure that directories starting with (for example) lowres plus/ will not match.
- **Server Name, Is Equal To**, imageserver will also match as the case is not compared.

When you use more than one condition in a rule, the **Replace 1st Matching Part Of Path** and **Replace 2nd Part Of Matching Path** changes become effective.

Consider this file: `file://Serv/SharedImg/LORESIMAGES/ANIMALS/LOWRES/myimage.eps`

- with conditions of **Folder Name, Contains**, LORESIMAGES, and **Folder Name, Contains**, LOWRES.
- and changes of **Replace 1st Matching Part Of Path**, HIGHRESIMAGES, and **Replace 2nd Part Of Matching Path**, HIGHRES.

The first change will replace LOWRESIMAGES with HIGHRESIMAGES (since it was first), and the second change will replace LOWRES with HIGHRES.

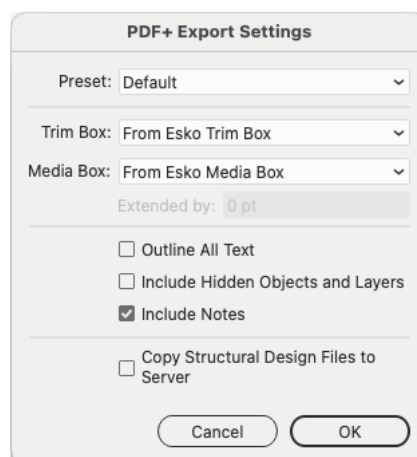
Notes and Restrictions

To copy the OPI settings between computers so they all are the same, copy `AE10-OPISettings.prefs`. In Windows, that file can be at `C:\Documents and Settings\username\AppData\Roaming\Adobe\Adobe Illustrator CSx Settings`, but its exact location depends on the type of login (local or domain) and Illustrator version (CSx where x is a number). On the Mac, this file is normally in `Users/username/Library/Preferences/Adobe Illustrator CSx Settings/`. Copy the file to the same location on the target machines.

There are a few restrictions when using OPI Mapping:

- The high-resolution images must be accessible from the client workstation.
- Ink Manager will not show extra inks that are present in the high-resolution images.
- When exporting the file using Shuttle, only the inks from Ink Manager are shown, not any extra ones present in the high-resolution images.
- PDF Export, PowerTrapper Client and PowerTrapper Standalone will use the high-resolution images and will know about any extra inks.

3.3.3. PDF Export: PDF+



1. Set the **Trim Box** to be used:

- **From Esko Trim Box**: the Trim Box size and position will be taken from the **Trim Box & Media Box** plugin. When not specified in the plugin, the size of the Artboard will be used instead.
- **Current Artboard**: the Trim Box will have the same size and position as the Artboard.

- **Artwork Bounding Box:** the Trim Box will be as big as the bounding box of all currently selectable objects in the document.



Note: If any of the options is not defined, it will be disabled in the dropdown.

2. Set the **Media Box** to be used:

- **From Esko Media Box:** the Media Box size and position will be taken from the **Trim Box & Media Box** plugin. When not specified in the plugin, the size of the Trim Box will be used instead.
- **Current Artboard:** the Media Box will have the same size and position as the Artboard.
- **Artwork Bounding Box:** the Media Box will be as big as the bounding box of all currently selectable objects in the document.
- **From Document Bleed:** Bleed settings defined in Adobe Illustrator will be used as Media Box.
- **Custom Margins:** the Media Box will have the size of the Trim Box, **Extended by** the distance you enter.



Note: If any of the options is not defined, it will be disabled in the dropdown.

3. Enable **Outline All Text** to convert all text to outlines.
4. Enable **Include Hidden Objects and Layers** to include hidden objects when the PDF file is exported.
5. Enable **Include Notes** to include annotations in the PDF. This option is only available in combination with the PDF Import plug-in.
6. If the **Copy Structural Design files to Server** option is enabled, when you export your PDF+ to an Automation Engine server, the Structural Design files used in your document will be exported next to your PDF+ file.

Export multipage PDF

When in PDF+ mode, if your Adobe Illustrator contains multiple artboards, you will have the option to export the document as a multipage PDF document.

1. Enable **Use Artboards**

2. Select **All** to export all Artboards as different pages, or enter a **Range**

3. Set the **Trim box** and **Media Box**

Only the option **Current Artboard** is available for the Trim Box. For Media Box, you can choose **Current Artboard**, **From Document bleed** or **Custom Margins**

The exported PDF will have one page for every selected Artboard

- Objects whose bounding box overlaps or touches the defined Media Box will be included in the page.
- If one object of a group is on the page, the complete group will be taken along.
- If an object or group overlaps or touches multiple Artboards, it will be duplicated on every page.
- Every page will have all the inks and the complete layer structure of the document
- The page order will be taken from the Artboard order in Adobe Illustrator

3.4. PDF Export Preferences

You can open the PDF Export Preferences by choosing **Illustrator > Preferences > Esko > PDF Export Preferences**



The main part of the Preferences contain the same settings as the PDF Export Settings: the **General** tab contains settings used for Normalized PDF and PDF+, the **Normalized PDF** tab contains settings only used when exporting Normalized PDF, and the **PDF+** tab contains settings only used when exporting PDF+.

The settings in the Preferences will be used if the "Default" preset is selected. See [PDF Export Settings](#) on page 30

The **PDF Export Preset Settings Folder** defines the location where the Presets are saved: either the Default Preference Folder, or a custom folder you can select by clicking the **Browse...** button. See also [Preset](#) on page 30

3.5. Linked ArtiosCAD Graphics for Normalized PDF export

When you export a document with linked ArtiosCAD graphics to Normalized PDF, the graphics are treated slightly differently:

When choosing “Embed Images” in the Preferences:

- The ArtiosCAD graphics are embedded in your Normalized PDF.
- The original link information is **saved** in your Normalized PDF.

When choosing “Save Links” in the Preferences:

- The ArtiosCAD graphics are **embedded** in your Normalized PDF.
- They are also **copied** to the location you define: **Next To Output File** or on another server (according to a **Server Mapping** if defined).
- The link to the copied graphics is saved in your Normalized PDF.

4. The Ink Manager Plug-in

The Ink Manager palette is a powerful pre-press color editing and proofing tool. You can easily identify where Pantone colors are used within a document or where custom spot colors can be found, then convert these colors to a custom spot color or to process colors.

The Ink Manager palette also allows you to specify crucial ink parameters such as the ink type, angle and lineature. Once defined, these parameters are saved inside the Illustrator document.

4.1. Normalized PDF or PDF+

In the Ink Manager, you can switch between working in Normalized PDF or PDF+ mode. This mode determines what type of PDF file you want to export your document to.

If you open a document that contains Technical Inks or Varnish Inks, the mode will be set to Normalized PDF.

If you open a document that contains Processing Steps, the mode will be set to PDF+

If you open any other document or create a new one, the mode will be set according to the default setting in the Ink Manager Preferences. See [Ink Manager Preferences](#) on page 48 The mode is saved in the Adobe Illustrator file, so that the next time you reopen the document, it will be opened in the same mode.

You can switch freely between Normalized PDF and PDF+ mode. However, if you switch, specific functionality might get lost. If you for example switch from PDF+ to Normalized PDF, all Processing Step information will get lost, and switching back to PDF+ will not bring it back.

What is the difference between PDF+, and Normalized PDF

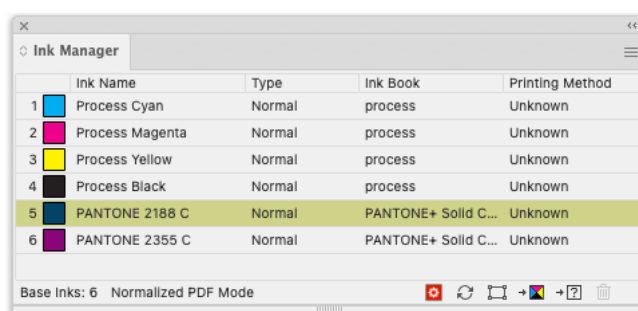
Both PDF+ and Normalized PDF are to a large extent regular PDF files that you can open and edit in any other PDF editor or reader. However, PDF+ and Normalized PDF files also contain additional information, available to any Normalized PDF or PDF+ compatible editor. When choosing Normalized PDF or PDF+ mode in the Ink Manager, the specific limitations and specifications of the chosen PDF format need to be considered.

What	PDF+	Normalized PDF
Ink order stored in file	✓	✓
Non-printing data (Cut, Die, ...) and special processing steps (varnish, ...)	Processing Step Layers	Technical Inks & Varnish
Ink Types	Normal, Opaque	Normal, Opaque, Technical, Varnish
Document Profile as output intent	Obligated. If none is present, the default profile will automatically be added when saving.	

What	PDF+	Normalized PDF
Screening	Optional Screen Sets based screening	Every object has screening. Optional object based screening
Group and Barcode metadata	✓	✓
Marks	PDF+ Marks can be applied in ArtPro+	✗ ArtPro+ does not support SmartMarks
Images	Images can be <ul style="list-style-type: none"> Embedded Linked & Embedded. If a PDF + file contains image links, a full resolution embedded version of the image will still be saved in the file. 	Images can be <ul style="list-style-type: none"> Embedded Linked
Placed Art (PDF)	✓	✗
Structural Design	✓	✓ Limited to one Structural Design file, and always using the default Profile

4.2. Using the Ink Manager palette

To use the Ink Manager palette, choose **Window > Esko > Ink Manager**. The Ink Manager palette appears.



The **Ink Manager** lists all inks used in the document. For every ink you see a color patch, its name, and additional information about the ink. You can define what columns you want to see in the Ink Manager fly-out menu. See [The Ink Manager fly-out menu](#) on page 45

You can double-click an Ink to open the **Ink Options**. See [Ink Options](#) on page 45

Mode

In the bottom left corner, you can see if you are working in PDF+ mode or Normalized PDF mode. See [Normalized PDF or PDF+](#) on page 42

Properties from Job Setup Status Icon

When connected to an Automation Engine, Ink Properties can be retrieved from the Job Setup. This icon indicates the status of the connection. See [Job Setup](#) on page 48

Refresh

To update the list of inks used within your document, click the Refresh button. After modifying a document, click the refresh button to update the list of used inks.

Show Processing Steps Palette

Only available when working in PDF+ mode. This opens the Processing Steps palette. See [Processing Steps](#) on page 53

Move to Processing Step

Only available when working in PDF+ mode. This moves the objects using a specific ink into a Processing Step. See [Processing Steps](#) on page 53

Select

To identify objects containing specific inks within your document, select the ink you wish to search for and click the **Select** button. It is possible to select more than one ink at a time.

Convert to CMYK

To convert a selected Spot Color from your document Ink list to a Process Color Mix, CMYK, click **Convert to CMYK**. More than one ink can be selected at a time.



Note: Convert to CMYK is only available if you have a license for boostX, Channel Mapping, DeskPack Essentials or DeskPack Advanced.

Convert to Other

To convert a selected ink from your document Ink list to another ink, click 'Convert to other'. More than one ink can be selected at a time.



Note: Convert to Other is only available if you have a license for boostX, Channel Mapping, DeskPack Essentials or DeskPack Essentials.



Note: Converting an ink will affect only line art. However, if you have DeskPack Advanced or the Channel Mapping plug-in installed and licensed, converting an ink will also result in the corresponding channel mapping for all images. See the Channel Mapping documentation for more information.

Delete Ink Variant

When working in Normalized PDF mode, you can use Screening for Adobe Illustrator to create exceptions to the screening settings for an ink. These exceptions appear in the Ink Manager list as "Variants". To delete such an Ink Variant, select the ink variant which needs to be removed and click the 'Delete Ink Variant' button. The objects will get the ink settings of the parent ink. See [Screening in Normalized PDF mode](#) on page 50

4.2.1. Ink Options

Double-click an Ink from the list to open the **Ink Options** dialog.

If you have multiple inks selected, you can change the properties of all the inks at the same time. The dialog will show "≠" for settings that have different values.

If you are working in PDF+ mode and have one single ink selected, you can set the **Printing Unit**. See [Working with Printing Units](#) on page 57

The **Ink Book** dropdown contains all Ink Books that have the current ink defined. By default the last used ink book is shown.

When working in PDF+ mode, the available **Ink Types** are Normal and Opaque. When working in Normalized PDF mode, also Varnish and Technical are available.

- The ink type for process inks cannot be changed. The ink type is always normal.
- The following Pantone inks are always opaque inks: Pantone 8003 C, Pantone 8021 C, Pantone 8062 C, Pantone 8100 C, Pantone 8201 C, Pantone 8281 C, Pantone 8321 C, Pantone 871 C, Pantone 872 C, Pantone 873 C, Pantone 874 C, Pantone 875 C, Pantone 876 C, Pantone 877 C. The ink type of these inks cannot be changed.



Note: If you change an Ink to **Technical** or **Opaque**, the ink will be moved to the bottom of the Ink list. If you change the ink order afterwards, this new order will be respected.

When working in Normalized PDF mode, you can set the screening (Ruling, Angle, Dot Shape, DGC Curve) for the ink. See [Screening in Normalized PDF mode](#) on page 50

For every ink, you can set the **Printing Method**.

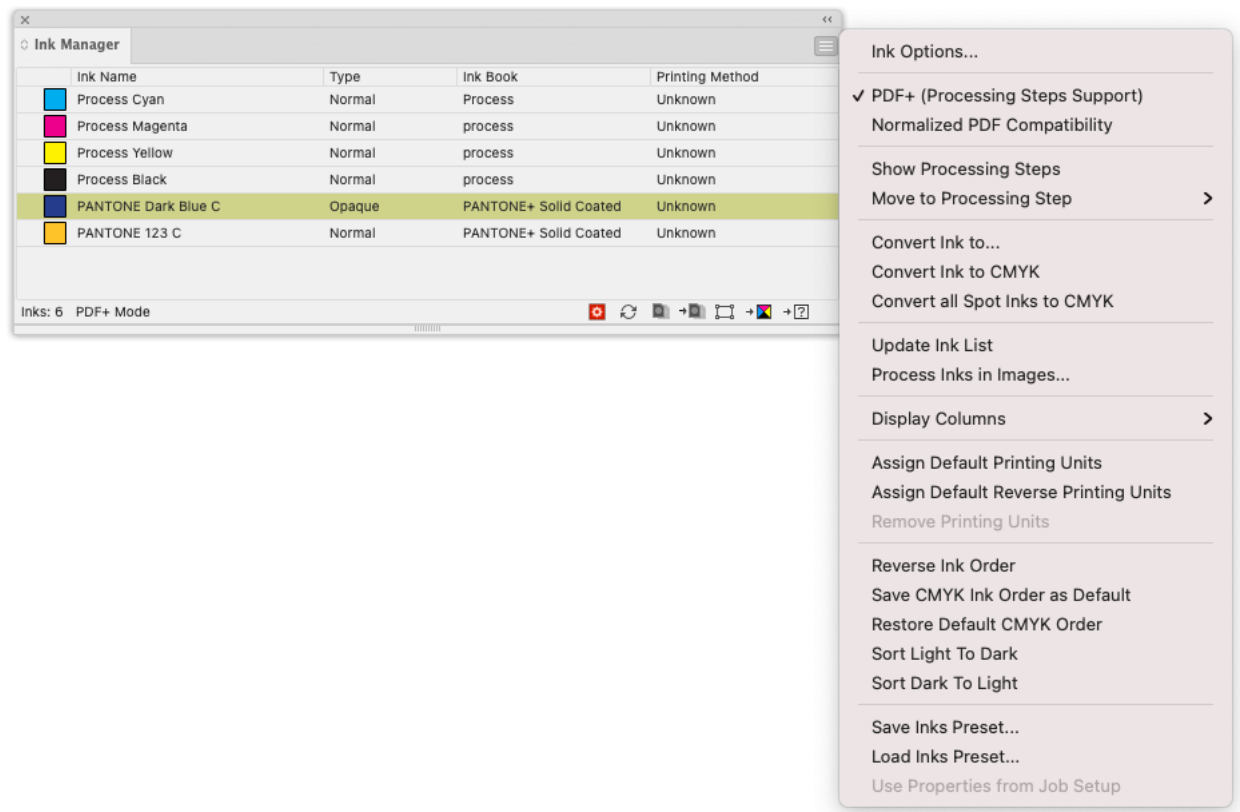
If you are connected to an Automation Engine server, the dropdown will show the server Printing Methods. If you are not connected to an Automation Engine server, you will see the default Printing Methods and the local printing methods, saved locally in the Adobe Illustrator Preferences.



You can select a Printing Method in the dropdown, or you can type in a name to create a new Printing Method. If **Save printing method to presets** is enabled, the newly created Printing Method will be stored as a new preset, either on Automation Engine or in the local Printing Methods.



Note: All these Ink options are stored in the Illustrator document and are used by other DeskPack plug-ins like PowerTrapper Client, PowerLayout Client, etc. For example, PowerTrapper Client will ignore varnish and technical inks and will take the opaqueness of inks in account when determining trap directions.

4.2.2. The Ink Manager fly-out menu



- **Ink Options...** opens the ink options dialog.
- Using **PDF+ (Processing Steps Support)** or **Normalized PDF Compatibility** you can switch the mode for the current document. See [Normalized PDF or PDF+](#) on page 42
- **Show Processing Steps** and **Move to Processing Step**: Only when working in PDF+ mode. See [Processing Steps](#) on page 53
- **Convert Ink to...** has the same functionality as the 'Convert to Other' button 
- **Convert Ink to CMYK** has the same functionality as the 'Convert to CMYK' button 
- **Convert all Spot Inks to CMYK** converts all the spot inks in the document to their CMYK equivalent.

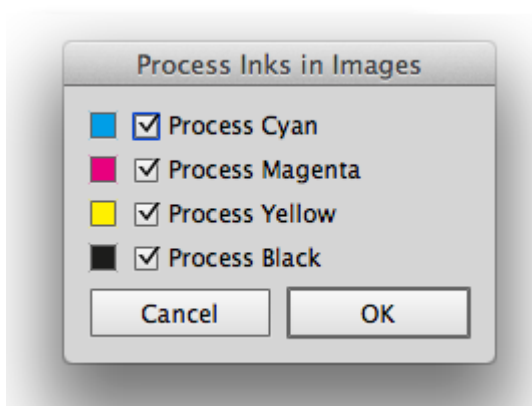


Note:

Keep in mind that this function will also convert white objects created by the White Underprint plugin, using a special spot ink.

- **Update Ink list** refreshes the ink list.
- **Process Inks In Images...** The plug-in uses Illustrator to determine which inks are used in images. Illustrator has some limitations:
 - With linked EPS images it is not possible to detect whether CMYK was used in the linked image. Ink Manager will assume that CMYK is present in the linked EPS images, unless the user has specified otherwise.
 - TIFF images with spot channels always have CMYK channels, even if those channels are empty.
 - Some effects create embedded images with all four CMYK channels, even if some are empty.

So the plug-in doesn't really know whether CMYK is used in images. "Process Inks in Images" offers a manual solution. If you click this option, the "Process Inks in Images" dialog box appears:



By default all toggles are switched on, which means that the plug-in will assume that external images contain Cyan, Magenta, Yellow and Black.

If you know that there is no Cyan in the externally placed images or you want to avoid an empty process plate introduced only by an effect, you can switch Process Cyan off. Click 'Apply' and at the bottom of the Ink Manager the indication "Disabled in Images: C" will appear.

The plug-in will assume that only Magenta, Yellow and Black were used in the externally placed images. If Cyan is used in other objects of the document, it will be listed in ink manager.




Note: Other plugins such as PDF Export and PowerTrapper will also take this setting into account.

- Using **Display Columns** you can set what columns of the Ink Manager should be shown:
 - the Ink Type
 - the Ink Book
 - the Screening Details (ruling, Angle and dotshape). Only when working in Normalized PDF mode. See [Screening in Normalized PDF mode](#) on page 50
 - the DGC Curve. Only when working in Normalized PDF mode. See [DGC Curve](#) on page 51),
 - The Printing Method
 - The Job Setup (see [Job Setup](#) on page 48)
- **Reverse Ink Order** will turn the order of the inks upside down.
- By default, the process colors are in Cyan - Magenta - Yellow - Black order. If you change this order and apply **Save CMYK Ink Order as Default**, the changed order will be used as default order. By selecting **Restore Default CMYK order**, the original default order is restored.
- By using **Sort Light To Dark** or **Sort Dark To Light**, you can rearrange the order of inks based on the luminosity. Note that Opaque and Technical inks are placed at the bottom of the list, but also sorted light to dark or dark to light.
- When working in Normalized PDF mode, if you have to reuse the same Ink Parameters frequently, you can use **Save Ink Preset ...** to save all ink parameters, including Ink Name, Type, Ink Book, Ruling, Angle, Dotshape, DGC and Printing Method. You can **Load Ink Preset...** to overwrite all ink

parameters in the current document with the parameters you saved earlier. You can set the location for the saved Ink Presets in the Preferences. See [Ink Manager Preferences](#) on page 48




- By enabling **Use Properties from Job Setup**, the inks and ink parameters defined in the Job Setup will be enforced. See [Job Setup](#) on page 48

4.2.3. Job Setup



When a document is opened from an Automation Engine Job, for example using **File > Job Folder > Open from Job Folder ...**, you can force Ink Manager to use the ink parameters defined in the Job Setup, overwriting the current Ink Parameters, by enabling **Use Properties from Job Setup**, either from the fly-out menu or by clicking the button in the Ink Manager palette 

The **Job** column will appear automatically. You can change its visibility under **Display Columns** in the fly-out menu.

The column will give a status icon for every ink:

-  : the ink is defined in the Job Setup. The parameters defined in the Job Setup will be used.
-  : the ink is not in the Job Setup but is used in the document
-  : the ink is defined in the Job Setup but not used in the document. The line will be greyed out, and have no number.

If **Use Properties from Job Setup** is enabled, the Ink Options dialog for inks defined in the Job Setup will show status icons for every parameter:

-  : the parameter is taken from the Job Setup, so it can't be modified.
-  : the parameter is not defined in the Job Setup, so it can be set freely.

If the Job Setup defines multiple variants of the same ink, all variants are listed in the Ink Manager.



Note: Next to the settings for every ink, you can also choose to retrieve the **Ink Order** from the Job Setup, by enabling the option in the Ink Manager Preferences. See [Ink Manager Preferences](#) on page 48

4.3. Ink Manager Preferences

The Ink Manager Preferences can be opened from **Illustrator > Preferences > Esko > Ink Manager Preferences...** (Mac) or **Edit > Preferences > Esko > Ink Manager Preferences...** (Windows).

Ink Name	Angle	Ruling
Cyan	22,5°	120 lpi
Magenta	52,5°	120 lpi
Yellow	7,5°	120 lpi
Black	82,5°	120 lpi
Spot	45°	120 lpi

With the **Default Document Mode** you can define if you want to use Normalized PDF mode or PDF+ mode when opening a document created by Esko plug-ins older than version 20, created without Esko plugins or importing as Adobe PDF. See [Normalized PDF or PDF+](#) on page 42

In the rest of the Ink Manager Preferences, you can set the **Default Values** (angle and ruling) for CMYK inks.

You can also set the default angle and ruling to be used for new Spot inks. However, these defaults can be overruled when using a Spot ink that was used before, with a different Angle and Ruling value. The Angle and Ruling for all used spot inks are saved in the Preferences file.

You can also define if inks that are only used in non-printable layers or hidden layers should be shown in the Ink Manager by setting the **Show Inks of Non-printable Layers** and **Show Inks of Hidden Layers** option.



Note:

The Remap Ink functionality also takes the **Show Inks of Non-printable Layers** and **Show Inks of Hidden Layers** option into account: When switched off, inks on non-printable or hidden layers will not be remapped.

Enable **Use ClassicColors Ink Book** to use the ClassicColors Ink Book. When using a ClassicColors Ink Book for your HP device, you can enable the Use ClassicColors Ink Book option, to avoid conflicts for inks using generic names, such as "White".

The **Preferred Ink Book** is the Ink book shown by default when opening the **Add Ink from Ink Book** dialog. It is also used as the preferred ink book when determining the ink book of spot inks manually added to the document.

You can set the location to store **Ink Manager Preset Settings**: either in the default presets folder, or in a custom folder you choose.

In **Job Setup Support** you can define if you want to use the **Ink Order** as defined in the Job Setup. See [Job Setup](#) on page 48

4.4. Screening in Normalized PDF mode

When working in Normalized PDF mode, you can set the screening parameters in the **Ink Options**.



Note: The other options are explained in [Ink Options](#) on page 45

You can set the **Ruling** and **Angle** for the ink.

Dotshape shows a list of all dotshapes available for the FlexRip. However, it is possible to enter any dot that is available on your rip instead of the proposed dotshapes. Only use a dotshape that is installed on the rip that will be used to expose the document.



Note: Entering a dotshape is not compatible with Nexus RIP.

You can define a **DGC Curve** and a **DGC percentage**. See [DGC Curve](#) on page 51

The screening settings are applied to all objects in your document.

If you have a **Screening for Adobe Illustrator** license, you can use the **Screening for Adobe Illustrator** plugin to make exceptions to these inks parameters for specific objects. See <https://www.esko.com/en/support/product?id=Screening%20for%20Adobe%20Illustrator>

4.4.1. DGC Curve

You can set the **Dot Gain Compensation (DGC) Curve** for every ink.

By default, the DGC Curve column is hidden. By selecting **Show DGC Curve** in the fly-out menu you can make it visible.

You can select one of the predefined Dot Gain Curves, or type in the name to use a custom DGC. When selecting a PressSync curve, you can enter the percentage for the curve in the **DGC %** field.



Note: DGC is not a part of the Job Setup. This means using **Use Properties from Job Setup** will not change the DGC, nor does changing the DGC influences the status of the job.

4.5. Screening in PDF+ mode

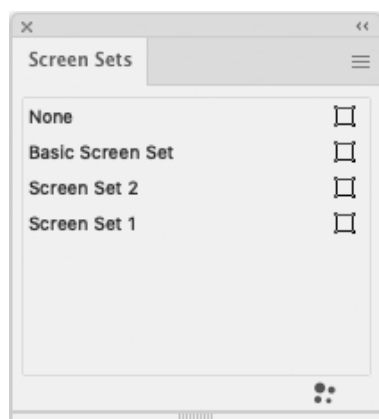
In PDF+ mode, screening is defined using **Screen Sets** in the Ink Manager. See [Manage Screen Sets](#) on page 52



Note: You need a **Screening for Adobe Illustrator** license to assign a Screen Set to an object. Without the license, you can view the defined Screen Sets and you can change their screening parameters, but you can't add new Screen Sets, delete Screen Sets or assign a Screen Sets to objects. You can also **Reset to Default Screening** or **Remove Screening** without a license. See [The Screen Sets Fly-out menu](#) on page 52



Your document can contain a number of **Screen Sets**, each containing specific ruling, angle, dot shape and DGC information for each of the defined separations. By assigning a Screen Set to an object, you can set up object based screening.

Choose **Window > Esko > Screen Sets** or use its shortcut **Cmd+Option+Shift+N** (Mac) or **Ctrl+Alt+Shift+N** to open the **Screen Sets** palette.



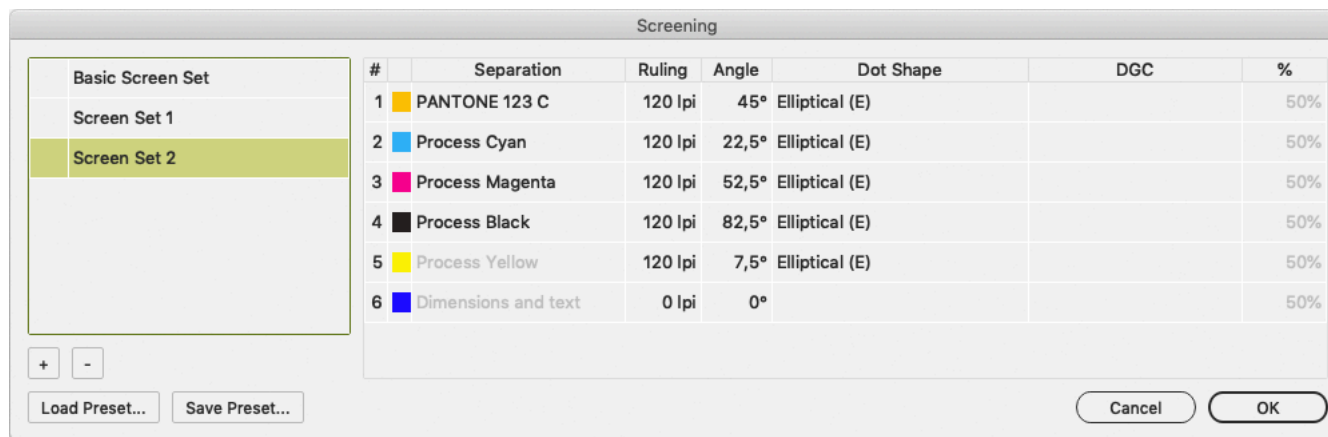
The Screen Sets palette shows all Screen Sets defined in the document.

The Screen Sets used in the current selection will be highlighted.

- Click the Screen Set you want to assign to the current selection.
- Click the **Select Art Using Screen Set** button  to select all objects using that specific Screen Set.
- Click the **Manage Screen Sets** button  or choose **Manage Screen Sets** from the fly-out menu to create, remove or edit your Screen Sets. See [Manage Screen Sets](#) on page 52

4.5.1. Manage Screen Sets

In the **Manage Screen Sets** dialog you can add, remove and edit Screen Sets.



- In the list on the left, select a Screen Set to see and edit its settings.
 - You can set the **Ruling** and **Angle** for each ink.
 - **Dotshape** shows a list of all dotshapes available for the FlexRip. However, it is possible to enter any dot that is available on your rip instead of the proposed dotshapes. Only use a dotshape that is installed on the rip that will be used to expose the document.
 - You can define a **DGC Curve** and a **DGC percentage**. See [DGC Curve](#) on page 51
- Click **+** to create a new Screen Set.

The newly created Screen Set is created using the same settings as the currently selected Screen Set. If no Screen Set is available, a Screen Set with default screening information is created.

- Click **-** to remove the selected Screen Set.
- Double-click a Screen Set to rename it.
- Click in front of a Screen Set Name to make it the **Default Screen Set**, indicated by a star.

The Default Screen Set is applied to newly created objects. It is also used in some other specific situations, e.g. if you remove a Screen Set, or for Mask objects when releasing an Opacity Mask.

- Click **Save Preset** to save all Screen Sets in a Screen Preset, e.g. to reuse in another document.
- Click **Load Preset** to load all Screen Sets saved in a Screen Preset. The Screen Sets from the Preset will be merged with the current Screen Sets. If a Screen Set with the exact same settings already exists, that Screen Set will not be added.

4.5.2. The Screen Sets Fly-out menu

The Fly-out menu of the Screen Sets palette contains the following functions:

Reset to Default Screening

This removes all Screen Sets, and adds a new one called "Screen Set 1". The screening information for this Screen Set is taken from the settings defined in the Ink Manager preferences. See [Ink Manager Preferences](#) on page 48

Remove Screening

This removes all Screen Sets applied to objects in the current document. The Screen Sets palette will only contain the "None" Screen Set.



Note: Both functions are available without the Screening plugin installed, and without a license.

4.6. Processing Steps

Ever since PDF became the preferred file format in the graphic industry, PDF files were used not only to store the artwork to be printed, but also as a container for information related to the production process: cutting lines, dimensions, etc.

How the information was stored in the PDF file, depends on the application that was used to generate the PDF, and the preferences of the user. For example the die cut lines can be in a separation called "Die", or in a layer named "Cut". Obviously, this leads to a multiple of ad hoc methods, which leads to interoperability problems, and a complex and error-prone situation.

ISO 19593 defines a new mechanism to store objects and metadata corresponding to such processing steps in a PDF file in a standardized way.

Based on this ISO norm, the use of Processing Steps was introduced in DeskPack as **Processing Steps**.

Keep in mind however that these Processing Step Layers are only available when working in PDF+ mode. Normalized PDF mode uses Technical Inks instead. See [Normalized PDF or PDF+](#) on page 42

Objects in Processing Step Layers

Processing Step Layers contain objects in your PDF file (a path, a text object, ...) that are associated with a specific Processing Step.


The type of Processing Step Layer can influence the properties of the PDF objects. For example, a PDF object in a Structural Processing Step Layer has to be colored in a spot color (to visualize in viewing and proofing applications). Because the objects in these Processing Step Layers should not have any influence on the final printed version (and on the plate making), this spot color should not be used for "normal" PDF objects, nor should the objects knock out other objects, or participate in transparency blending with other "normal" artwork objects.

Types of Processing Step Layers

- **Structural Data:** a collection of contours that describe how the printed product will be finished to produce a 3D end product from a flat substrate, such as cutting lines, crease lines, etc.
- **Braille:** braille characters that are applied after printing, e.g. by a die cutter or inkjet device.
- **Legend:** job related data outside the boundaries of the actual printed products.
- **Dimensions:** indications of the physical sizes
- **Positions:** objects that indicate intended, allowed or forbidden positions for certain types of elements, e.g. allowed positions for content on a flap of a carton.
- **White:** white ink to be printed on a transparent or metallic substrate.

- **Varnish**: indicating the application of varnish after printing.

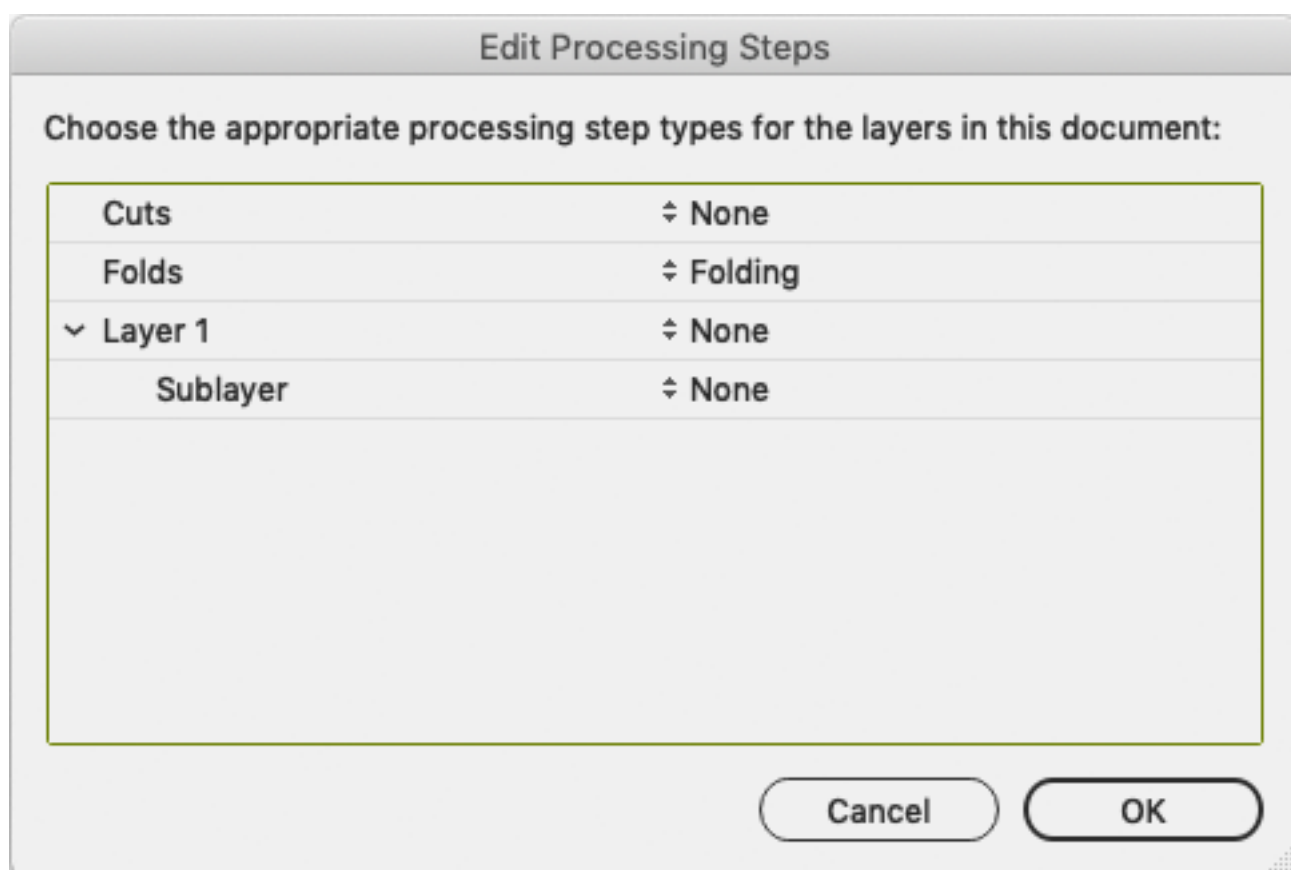
4.6.1. The Processing Steps palette

You can open the **Processing Steps palette** by clicking the Show Processing Steps button  or select **Show Processing Steps** in the fly-out menu of the Ink Manager palette.



All the **Processing Steps** appear in the list, grouped per type, along with an "Artwork" entry. You can use the eye icon to make a processing step visible or invisible.

You can change any layer into a Processing Step Layer, or change the type of a Processing Step Layer by clicking the Edit Processing Steps button, by selecting **Edit Processing Steps...** in the fly-out menu, or by double-clicking an entry in the list.



You can change any layer into a Processing Step Layer, or change the type of a Processing Step Layer by selecting a Processing Step type from the dropdown.

You can change a Processing Step Layer into a normal layer by selecting **None**.

Unlike normal Artwork layers, Processing Step Layers come with a set of restrictions. If one of these restrictions is not met, a warning is shown in the Processing Steps palette.

You can select the paths causing the warnings in the list. If the **Select** option is enabled, clicking on one of the entries will select the corresponding object in the job. If the **Zoom** option is enabled, clicking an entry displays the selected object as big as possible in the active window. If the **Highlight** option is enabled, the selected objects will be highlighted.



Note: The list of ISO Standard Violations is not updated automatically. Use the **refresh** button to update the list.

You can prevent a number of these issues by using the **Move to Processing Step** function to create Processing Step Layers. See [Move to Processing Step](#) on page 56

4.6.2. Colorants for Processings

Inks that are only used in Processing Steps are considered "Colorants": they can be used to color objects in the Processing Step Layers, but are not considered printing inks, as they should not appear on plates or on the final printed result.

Colorants for Processing Step Layers are represented in the Ink Manager using a round color patch.



Note: If an ink is used in at least one "normal" artwork object in an artwork layer, the separation is shown as a normal printing separation, with a square color patch. Since the use of a separation both as ink and as colorant usually presents a conflict, it is very likely that a message will appear in the Messages Side Drawer for any Processing Step Layer using such a colorant.

4.6.3. Move to Processing Step

Using the **Move to Processing Step** function, you can move the objects using a specific ink into a Processing Step.

1. Select a spot color ink in the Ink Manager.
2. Select **Move to Processing Step** from the fly-out menu or click the **Move to Processing Step** button



3. Select the **Processing Step Layer** you want to use.
4. All objects using the selected ink will be moved to the selected Processing Step Layer.
 - Objects in a flat color, only using the selected separation, will be placed in a Processing Step Layer, with the same name as the original artwork layer they were in (when available).
 - Other objects (e.g. objects in a mixed color, images, ...) will not be moved nor changed.
 - If the Ink is only used in the Processing Step Layers, it will become a Colorant. See [Colorants for Processings](#) on page 55

4.6.4. Plate ID Objects

If you are using DeskPack and/or ArtPro+ in combination with Esko's Imaging Engine within the flexographic printing industry, you can use **Plate ID** objects to identify Flexo Plates, e.g. for reprint after being archived, or to be reused in a similar jobs.

Plate ID objects will be exposed by the RIP at "half height". This means the objects are permanently visible, yet they do not show up on the printed result.

For more information we refer to the chapter on Working with Plate ID in the Automation Engine documentation [here](#)

1. Select the objects you want to create a Plate ID object of.



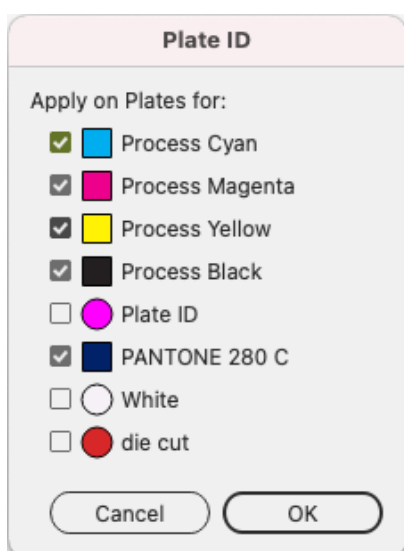
Note: Foreign art, mesh, raster, linked image, repeat art and clipping paths are not supported. Unsupported objects in the selection will be excluded.

2. In the **Processing Steps** palette, click the **Convert to Plate ID Object** button



- If they don't exist yet, a **Plate ID Layer** and **Plate ID ink** are created.
- All (supported) objects in the selection are converted into one Plate ID Object. Marks in the selection will be expanded and thus no longer be dynamic.

- If the original object has no fill ('none'), the Plate ID Object will also have no fill. In all other cases, the object is colored in 100% of the Plate ID Processing Step colorant. Gradients and patterns are changed to 100% flat paint.
 - The Plate ID Object is set to overprint, and transparency settings are set to "Normal" at 100% opacity.
 - The Plate ID Object is moved to the **Plate ID** layer.
3. Using the **Plate ID** palette you can define on what plates the Plate ID Object has to be exposed.



- a) Select the Plate ID object you want to edit, and click the **Edit Plate ID Object Properties** button



- b) By default all artwork separations will be enabled, while Processing Step colorants and unused separations are disabled. You can however manually add or remove separations.
- c) Click **OK**

4.7. Working with Printing Units



Using **Printing Units** you can define a Printing Order without changing the viewing order in the Ink Manager. For more information on Printing Order vs Viewing Order, see [Viewing Order vs Printing Order](#) on page 58



Note: Printing Units are only available in PDF+. See [Normalized PDF or PDF+](#) on page 42

By default, the ink order (i.e. the viewing order) is also used as printing order.

You can switch to using **Printing Units** by choosing **Assign Default Printing Units** or **Assign Default Reverse Printing Units** from the fly-out menu of the **Ink Manager**

- The **Printing Units** icon  or  is shown above the first column, and the arrow indicates the printing direction.

- When choosing **Assign Default Printing Units** Printing Units will be assigned to all separations except for Processing Step Separations in ascending order.
- When choosing **Assign Default Reverse Printing Units** Printing Units will be assigned to all separations except for Processing Step Separations in descending order.

After assigning the Printing Units, you can edit them by clicking the Printing Unit number's location, or by opening the **Ink Options**. See [Ink Options](#) on page 45. You can use this e.g. to assign a Printing Station to your Opaque White Processing Step Separation, or to leave an empty station.



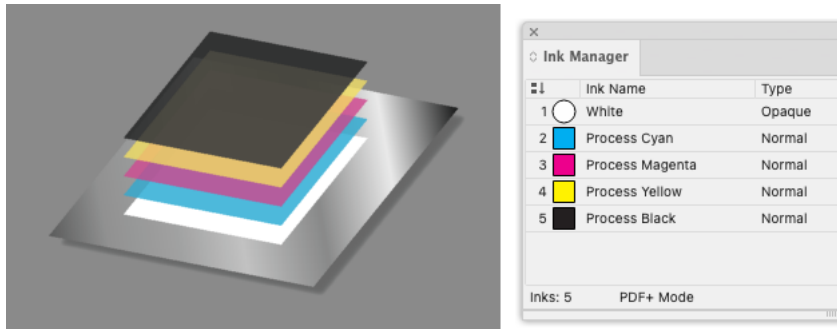
Note: When possible, Ink Manager will try to adjust the other Printing Units when changing one. E.g. when in a sequential order you change "4" to "5", the next Printing Units will be increased as well (5 becomes 6, 6 becomes 7 etc).

- When the Printing Units are no longer strictly ascending or descending after manually modifying the Printing Units or changing the separation order, the icon in the Ink Manager changes to this:
- You can correct this by manually modify the Printing Units, or by re-assigning the default Printing Units (see above).

If you want to remove Printing Units, you can choose **Remove Printing Units** from the fly-out menu of the **Ink Manager**.

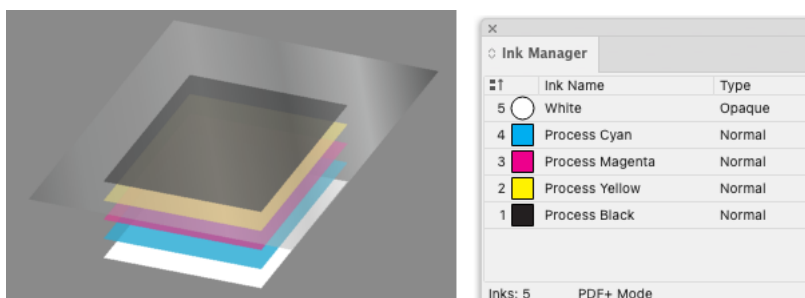
4.7.1. Viewing Order vs Printing Order

By default, the order of the separations in ArtPro+ defines both the viewing order and the printing order (what ink is printed first). In the example underneath, you see an example of a clear substrate, with an opaque white printed first, and CMYK on top.



However, in some cases, you would want to change the printing order, without changing the viewing order in ArtPro+. If you for example want to print on the **inside** of a clear substrate (so that the printed graphics are protected by the substrate), the opaque white ink would be the **last** ink you print (and end up on top of the others). You do not want to change the separation order in ArtPro+ to represent that, as the opaque white ink would block out all graphics underneath.

To avoid this, you can use **Printing Units** to reverse the printing order without changing the separation viewing order.



Underneath an example of a label printed on the back side of the clear substrate:



4.8. Known limitations

Re-mapping process inks to spot inks.

As it is impossible to simply change one of the process inks to the spot ink, the only solution is adding a new fill to the object with the new spot ink and use overprint to mix these fills together.

- Adding a brand new fill is not possible on text objects on the character level. Text objects using various inks on separate characters aren't mapped and an operator is warned.
- Re-mapping of process to spot inks on paths, using Effects on fill or stroke, will raise a warning, because adding a new fill could change the visual appearance.

Re-mapping inks in gradients

Re-mapping of the process ink to the spot ink generates a new fill due to the same reason as before.

- Let's have an example that the gradient already contains the target spot ink on one of its stops and another stop contains the process color being transformed. The re-mapping one of the process inks will add a new fill with the same gradient but with the target spot inks on the place of the process ink. In other cases the overprint will blend these two fills and produce expected visual appearance. In this particular case Illustrator will not blend these fills because both contain the same spot ink and Illustrator then ignores the overprint. An operator is informed about that.
- Similar issue comes when the object already contains two gradient fills. An operator is again warned.

5. The Structural Design Plug-in

5.1. Introduction

Introducing Structural Design

Structural Design enables the Adobe Illustrator users to read in an ArtiosCAD ARD or ACD file, an Esko flexible .bag file and/or a Collada .dae or .zae file. This structural design can then be aligned to the graphics and this alignment will be maintained in the rest of the Esko workflow (e.g. ArtiosCAD, Visualizer, PackEdge, ArtPro, Plato, RIPs). On top of that, you can create a varnish plate from the bleed outline, from the Illustrator artboard or from the bounding box of the structure automatically excluding the coating free areas.

Structural Design Export allows an Adobe Illustrator user to export contours from Illustrator to native ArtiosCAD .ard format. It also allows adding and modifying cutout windows to a loaded ArtiosCAD file.

Structural Design files in Normalized PDF or PDF+

When exporting your document to PDF+, a live link is maintained to each of the placed printable parts.

However, if you export to Normalized PDF, only the printable part that is listed first in the layers palette will be kept live, other placed printable parts will be expanded. If you want to keep a live link to your printable parts while exporting to Normalized PDF, you should break up your multi-part design in different documents, so that each document contains one printable part, and the graphics for that printable part.

For more information on Normalized PDF and PDF+, see [Normalized PDF or PDF+](#) on page 42

**Note:**

ArtiosCAD ACD files can't be handled by PackEdge, ArtPro, Plato and Esko RIPs, and can't be preserved in PDF+ or Normalized PDF export.

You can export the ACD file to separate ARD files by choosing **File > Structural Design > Export** and selecting the name of the ACD file. If you choose the option "ARD Files (One per part)", each placed printable part of the ACD file will be replaced by a newly created ARD file. See [Structural Design Export](#) on page 70

5.2. Importing Structural Design files

5.2.1. General Principles

The Structural Design plug-in enables you to open or place Structural Design files inside Adobe Illustrator. The imported Structural Design files are linked to the Adobe Illustrator (.ai) files, but they are not embedded.

Structural Design Files and Printable parts

A Structural Design file describes a 3D scene, of which at least one part can be printed: the **Printable Part**. Different types of Structural Design files can be used:

- an **ARD** Structural Design file, created in ArtiosCAD or Studio Toolkit for Boxes, mainly used for boxes. For an ARD file, the entire box is one single printable part.
- an **ACD** Canvas file, created in ArtiosCAD, contains one or more printable parts.



Note: Copies of the 3D Shape in ArtiosCAD will share the same printable part. In order to apply different graphics on multiple shapes coming from the same ARD file, you should import this ARD file multiple times into the canvas file. That way, each shape will have its own printable part.

- .bag files created in older versions of Studio Toolkit for Flexibles. These .bag files are also one printable part.
- **Collada** files, containing one or more 3D shapes with at least one printable part (.dae or .zae files). For Collada files, a printable part is an Esko extension. A collada file can contain one or more printable parts, such as a flexible bag, one or more labels on a bottle, a shrink sleeve, A Collada file can also contain non-printable parts, such as the glass bottle itself. Collada files with one or more printable parts can be created in ArtiosCAD or Studio Toolkit.



Note: More technical information on Printable Parts in Collada files can be found in the white paper you can find in the Studio documentation: <https://www.esko.com/en/support/product?id=Studio>

With the Structural Design Import plug-in, you can place printable part(s) of a Structural Design file in an Illustrator document.

Structural Design Layer

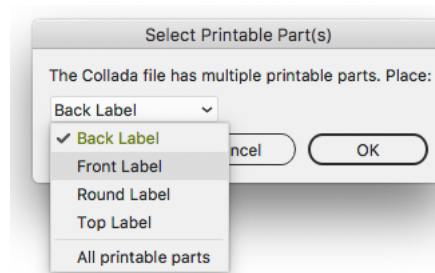
After opening or placing a structural design file, the file appears in the Adobe Illustrator layer palette. The Structural Design paths are special paths that cannot be modified accidentally. By default the Structural Design layer and its sublayers will be locked. You can unlock the Structural Design layers. This enables you to select individual Structural Design paths and use the Illustrator alignment tools to align graphics to the Structural Design paths.

5.2.2. Open or Place an ARD, ACD, BAG, DAE, ZAE file

A dedicated **Place File** showing only Structural Design files is found in the **File** menu. Choose **File > Structural Design > Place File....**

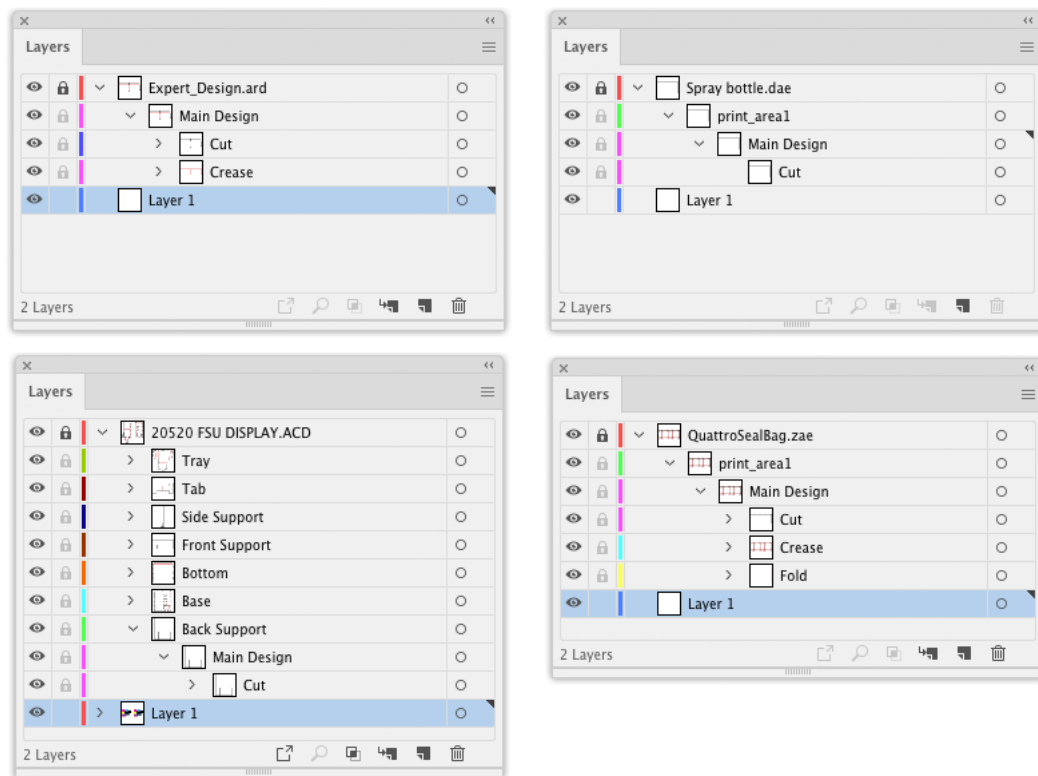
In case a Collada file is placed, a check is performed to see if the Collada file has a printable part defined. See [General Principles](#) on page 61

If a Collada file or ACD file contains multiple printable parts, a dialog will ask you to choose one or to place all. Choose the part(s) of which you want to create the graphics in Adobe Illustrator.



After opening a Structural Design file, the Structural Design objects are converted to special Illustrator objects.

The Structural Design layers are converted to locked Illustrator sublayers so they can't be changed accidentally. You can unlock these layers. They are grouped under a layer that gets the name of the Structural Design file.



The different Structural Design line styles (cuts, creases, bleed) are translated to hard-coded custom colors. All ArtiosCAD line styles are supported.

Text & Dimensions	Generic special rule
Cut	Nick
Crease	Print registration
Second Height Crease	Outside bleed
Matrix Crease	Inside bleed
Generic perforation	Outside coating
Partial Cut	Inside coating
Generic Cut and Crease	Glue
Generic Perf in Channel	Print images
Glue assist	Annotation
Reverse crease	Annotation2
Reverse partial cut	Annotation3
Partial cut and crease	Annotation4
Half crease	Annotation5
Side bevel	Other lines...

Opening an Illustrator file with a placed Structural Design file

When an Illustrator file is opened that contains Structural Design data, two checks are performed.

1. First of all, the plug-in checks whether the Structural Design file still can be found in its original place. If that is not the case, the plug-in will look for the Structural Design file in the same directory where the Illustrator file is. If it finds the Structural Design file there, it will use this Structural Design file instead, otherwise, you will be asked to browse to the new location of the file.
2. A second check is performed to see if the Structural Design file has been modified since it was originally embedded in this Illustrator file. If so, the Illustrator document will be updated.

See also [Update the Structural Design File](#) on page 65

Adding or replacing a Structural Design File

If a Structural Design file is already loaded and you place a new Structural Design file, the new Structural Design file will be placed next to the already loaded Structural Design file.

If you want to replace an already placed Structural Design file, choose **File > Structural Design > Replace**. See [Replace the Structural Design File](#) on page 65

Placing or opening

The difference between placing and opening a Structural Design file is that when opening a Structural Design file, the artboard will adopt the size of the bounding box of the structure. When placing a Structural Design file, the artboard will not be changed.

Large Canvas mode

In Adobe Illustrator versions before 24.2 (released June 2020), the maximum size of an Adobe Illustrator document was 5,779 by 5,779 meter or 227,52 by 227,52 inch ("standard size").

In Adobe Illustrator 24.2 and later, when creating an Adobe Illustrator document, you can use larger sizes. In that case, the document is in "Large Canvas Mode". The maximum size of an Adobe Illustrator document in Large Canvas mode is 10 times larger: 57,79 by 57,79 meter or 2270 by 2270 inch.

When opening a Structural Design file, the Adobe Illustrator document is created in regular mode. If the printable part you place doesn't fit the "standard size" canvas, you can choose to create a document in "Large Canvas Mode", and place the structural design file in the newly created large-sized Adobe Illustrator document.



Warning: When you save or export the artwork created on a large-sized canvas to a legacy Illustrator document (lower than Illustrator 2020), the artwork will appear ten times smaller. In this case, the Structural Design Import plug-in will expand all structural design artwork. This means that the artwork will no longer be tagged as Structural Design objects, and will become regular Illustrator art. The structural design data will no longer be live in such a legacy document.

5.2.3. Update the Structural Design File

If any of the Structural Design files has been modified while still editing the Illustrator file, an update of the Structural Design files can be forced. All Structural Design files placed in the current Illustrator document will be updated. Choose **File > Structural Design > Update All**

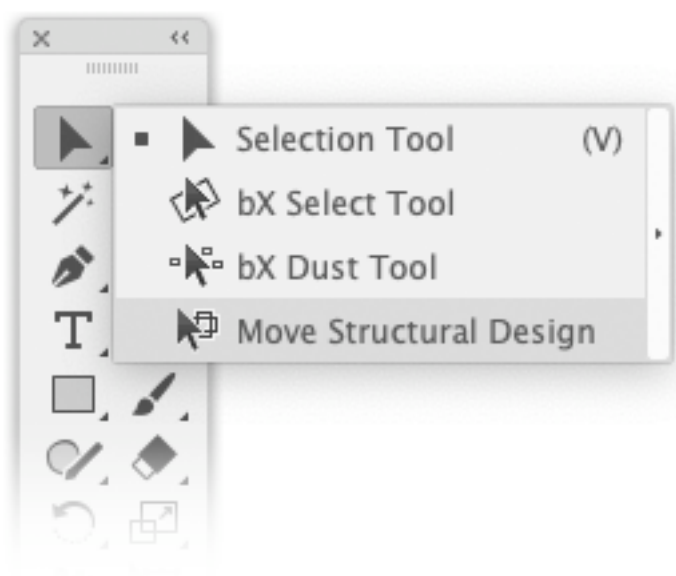
5.2.4. Replace the Structural Design File

If you want to replace the placed printable parts of a Structural Design file while preserving the alignment between the technical drawing and the artwork, you can **replace** a Structural Design file.

Choose **File > Structural Design > Replace** and select the name of the file you want to replace

5.2.5. Align Structure and Graphics

Interactive Move Structural Design tool



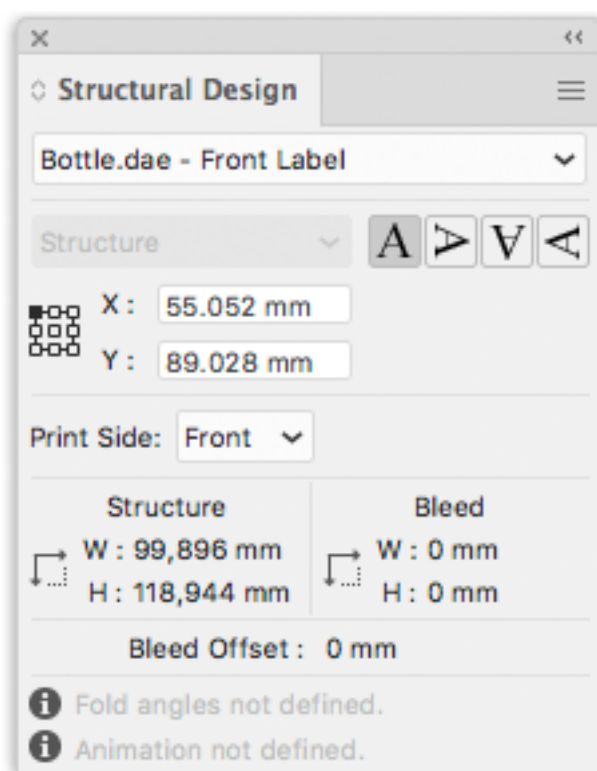
The **Move Structural Design** tool has been added underneath the Illustrator select tool. Select this tool to move the Structural Design interactively without unlocking the Structural Design layers. Hold down the mouse button and drag to move the Structural Design.



Tip:

If you choose **View > Smart Guides**, the Structural Design will snap to the graphics.

Structural Design window



The Structural Design palette provides information on the bleed and structure contours of the selected printable part. It allows you to rotate or numerically move the contours.

Open the palette by choosing **Window > Esko > Structural Design > Show Structural Design Window**.

If your document contains multiple printable parts, you can use the dropdown to select the printable part for which you want to see or change the information.

If your selected printable part contains a bleed contour, you can use the dropdown to choose whether you want to see the position of the bleed or of the structure bounding box.

The upper part gives you the coordinates of the (left, top) point of the bounding box around the structure (cut and crease) or bleed contours. The coordinates are relative to the origin of the Illustrator file. You can choose to see the coordinates of nine points on the bounding box. You can also choose to see the position of the bounding box around the bleed contour.

By entering a new value in the X and Y entry fields, you move the selected point to the new position.

It is possible to flip the Structural Design so that you can add graphics to the back of the Structural Design. This feature is enabled for ArtiosCAD files and for Collada files with a placed printable part that can have graphics applied to the back side.

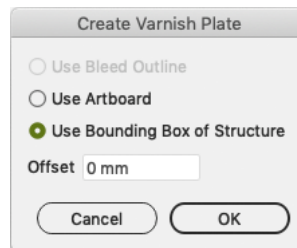
The lower part of the palette shows the width and height of the **Structure** and **Bleed** bounding boxes. **Bleed Offset** indicates the offset between the structure and the bleed contour.

The bottom part provides information whether or not fold angles and animation were defined in the structural design.

Click one of the **Rotation** icons to rotate the Structural Design contours. Rotation always happens around the center of the structure contour.

5.2.6. Create Varnish Plate

Choose **Window > Esko > Structural Design > Create Varnish Plate....**



- If you choose **Use Bleed Outline** then the contour will be created from the bleed outline minus the coating free areas (if any).
- If you choose **Use Artboard**, then the contour will be created from the Artboard minus the coating free areas.
- If you choose **Use Bounding Box of Structure**, then the contour will be created from the Bounding Box of the structure minus the coating free areas.



Note: When using **Use Bleed Outline** or **Use Bounding Box of Structure**, a varnish plate will be created for every printable part in the current Illustrator document.

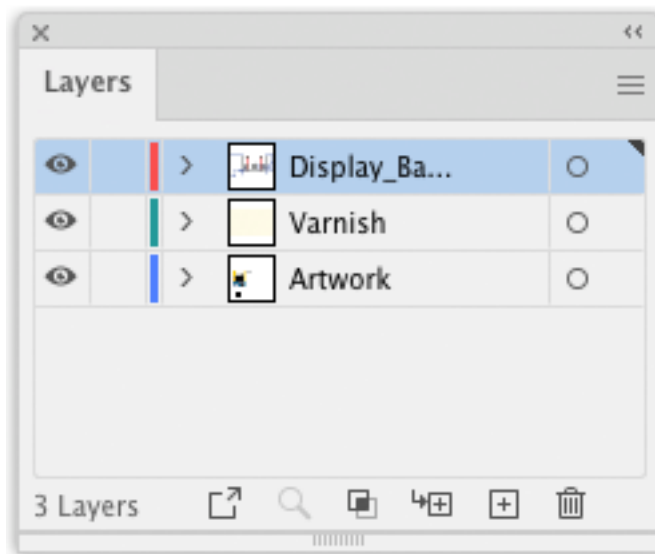
When choosing **Use Artboard** or **Use Bounding Box of Structure**, you can specify a positive or negative offset. The resulting varnish plate will be enlarged or shrunk with the specified offset in relation to the artboard or the bounding box.

This tool outputs a contour filled with a light-yellow spot color. This contour will be put in a new layer named 'Varnish'. This layer will be inserted directly under the Structural Design layers.



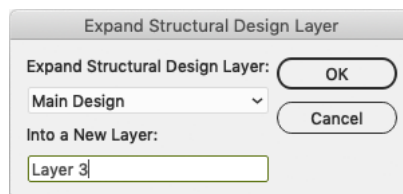
Note:

Create Varnish Plate will automatically exclude the coating free zones in the Structural Design file, if any.



5.2.7. Expand Structural Design Layer

Choose **Window > Esko > Structural Design > Expand Structural Design Layer...**



Select the Structural Design layer that you want to expand into a new Illustrator layer. If there are multiple printable parts with a Structural Design layer with the same name, they will all be expanded.

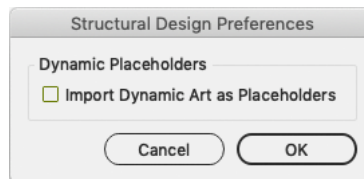
All art on the Structural Design layer will be copied to the new Illustrator layer. The art on the new layer is no longer tagged as Structural Design objects.

In Normalized PDF mode, the resulting objects are in the technical Structural Design inks. In PDF+ mode they will share the same processing step types of the corresponding layers in the Structural Design. See also [Normalized PDF or PDF+](#) on page 42 and [Processing Steps](#) on page 53.

One common use where you would use this tool is when you are interested in creating a clipping path from the bleed outline of the Structural Design file.

5.2.8. Structural Design Preferences

You can open the Structural Design Preferences by choosing **Illustrator > Preferences > Esko > Structural Design Preferences...** on MAC or **File > Preferences > Esko > Structural Design Preferences...** on PC.



ArtiosCAD files can contain Dynamic Art placeholders. Using these placeholders, a structural designer can for example tell the graphics designer where the barcode should be placed on the design. If the option **Import Dynamic Art as Placeholders** is enabled, and you have the **Dynamic Art** plugin installed, a live Dynamic Art placeholder object will be created for every ArtiosCAD Dynamic Art. These placeholders can then be filled automatically with their content. For more information, we refer to the Dynamic Content documentation. See <https://www.esko.com/en/support/product?id=Dynamic%20Content%20Advanced>

5.3. Exporting Structural Design files

5.3.1. Structural Design Export

The Structural Design Export saves a copy of the selected Structural Design file to a new location, The Illustrator file will link to the newly saved Structural Design file. Choose **File > Structural Design > Export** and select the Structural Design you want to export.

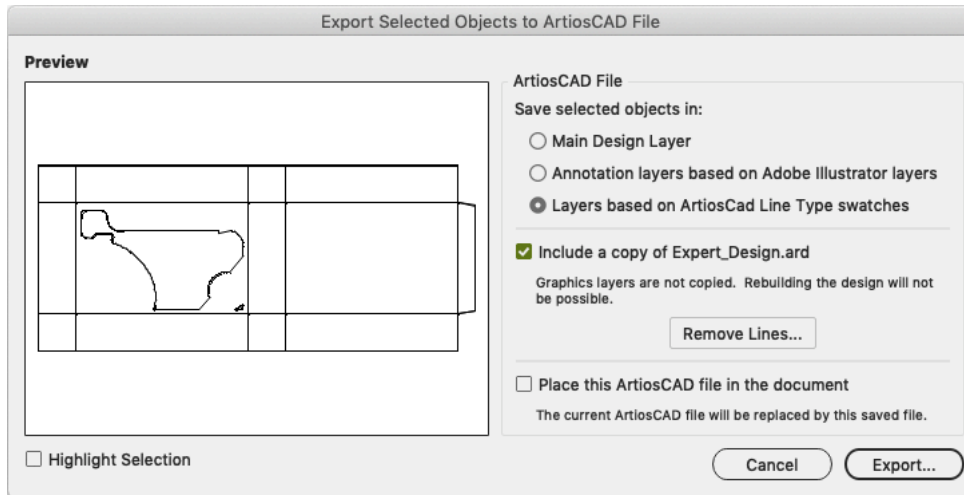
If you are exporting an Artios Canvas file (.acd) containing multiple printable parts, you can choose to export the ACD file as a single ACD file, or as multiple individual ARD files, one for each part.

5.3.2. Export Selected Objects to ArtiosCAD File

ArtiosCAD Export adds the item **Export Selected Objects to ArtiosCAD File** to the **Structural Design** menu. Only ARD files can be included when exporting to a new ArtiosCAD file.

Select the contours to export to the ARD file and choose **File > Structural Design > Export Selected Objects to ArtiosCAD File**.

The **Export Selected Objects to ArtiosCAD File** dialog opens.



Save selected objects in

You can choose to save the selected objects in the Main Design Layer or in Annotation Layers. If you save them in Annotation Layers, an ARD file will be created with annotation layers with the same name as the Illustrator layers.

Next to this, you can choose **Layers based on ArtiosCAD Line Type swatches**. If the selected objects are stroked with a swatch color with an ArtiosCAD line type name (e.g. cut, crease, bleed), then this option will create layers depending on the stroke color name:

- Cut and crease lines will go to a Main Layer
- Outside Bleed lines will go to an Outside Bleed Layer
- Outside Coating lines will go to an Outside Coating Layer
- Dimensions and text will go to a Dimension Layer
- All other linetypes will go to an Annotation Layer

For convenience, a swatch library ArtiosCAD Line Types is included with the plug-in. You can display the swatch library by selecting **Window > Swatch Libraries > ArtiosCAD Line Types**. In this swatch library, all ArtiosCAD design line types have been predefined.

Include a copy of ****.ARD

You can choose to include a copy of the ARD file that was loaded in the Illustrator document that is closest to the selected objects. The resulting ARD file will contain the selected objects AND what is in the CAD layers in Illustrator.

Remove lines

It is possible to remove some lines of the original ArtiosCAD file. This is meant to modify cutout windows. Do not attempt to remove fold lines with this tool. If you do this, the original fold angles will be lost.

Place this ArtiosCAD file in the document

If you switch this option on, the resulting ARD file will be placed in the Illustrator document. It will replace the Structural Design file that was loaded originally.

Preview

In the preview window, you see a preview of what will be saved. You can highlight the selected contours by toggling on Highlight Selection. You then see the distinction between the contours that are newly added to the resulting ARD file and those contours that come from the original ARD file.

If you click **Export**, you can set the name and location for the file to be saved.

If you have an ArtiosCAD file loaded in your Illustrator document, the software suggests as file name the name of the loaded ArtiosCAD file followed by _copy.

We recommend you not to overwrite the original ARD file as some functionality of the ARD file will be lost: graphics layers are not copied and it will not be possible to rebuild the created ARD file and text will be contourized.



Note:

Placed EPS objects and/or pixel-based objects cannot be copied to an ARD file. The fill color of the selected contours is not maintained in ArtiosCAD. Rather, the stroke color of the contour determines the line type in ArtiosCAD. If the selected contour is in the Main Design layer, the pointage of the contour will be 2. In all other cases, the pointage will be 0.

5.3.3. ArtiosCAD - Copy to Clipboard



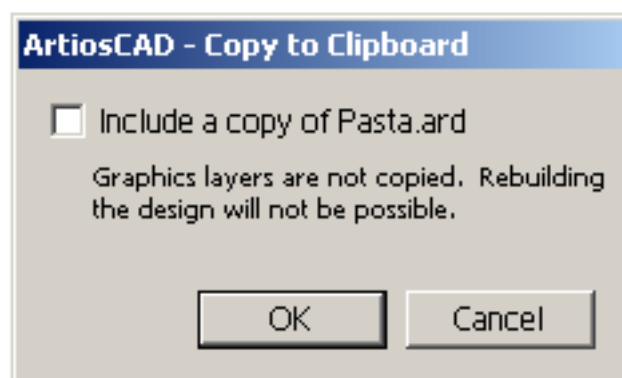
Note:

This function is only available on PC.

It can be found on the **Edit** menu:

ArtiosCAD - Copy to Clipboard copies the selected contours to the Windows Clipboard. They can directly be pasted into ArtiosCAD. If you have the same ArtiosCAD workspace open in ArtiosCAD and have not modified it since opening it in Illustrator, when you paste the contents of the clipboard into ArtiosCAD, they use the same placement as was used in Illustrator. This function is useful for ArtiosCAD users who need shapes from the graphics to be added to the box design.

Copy to Clipboard also offers you the possibility to add the ARD file that is currently loaded in the Illustrator document that is closest to the selected objects. Keep in mind that graphics layers are not copied. The resulting ARD file is also not rebuildable and text will be contourized.





Note:

Placed EPS objects and/or pixel-based objects cannot be copied to an ARD file. The fill color of the selected contours is not maintained in ArtiosCAD. The stroke color of the contour determines the line type in ArtiosCAD. If the selected contour is in the Main Design layer, the pointage of the contour will be 2. In all other cases, the pointage will be 0.

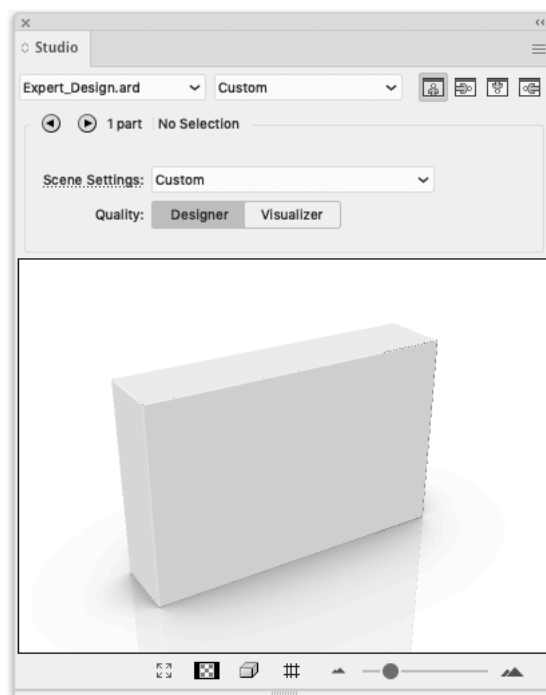
5.3.4. Relationship between stroke color in Illustrator and line type in ArtiosCAD

If the contours are stroked with a swatch color with an ArtiosCAD line type name (e.g. cut, crease), then the corresponding items in ArtiosCAD will have the corresponding line type. For example, if you give your contour a stroke color with as name 'Annotation', the contour will be in line type 'Annotation' in ArtiosCAD. If the name is not an ArtiosCAD line type name, the contour will be a cut line. For convenience, a swatch library ArtiosCAD Line Types is included with the plug-in. You can display the swatch library by selecting **Window > Swatch Libraries > ArtiosCAD Line Types**. In this swatch library, all ArtiosCAD design line types have been predefined.

5.3.5. How to add a cutout window to an existing ArtiosCAD file?

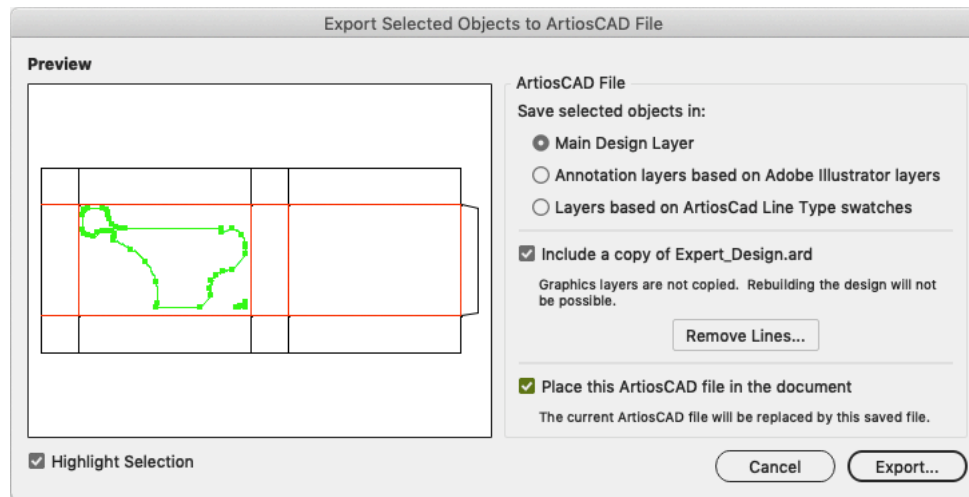
1. Open or place an ARD file.

If you also have Studio Designer, you will see a 3D view of your folded box in the Studio window.



2. Create and select the cutout shape that you want to add to the ArtiosCAD file.
3. Choose **File > Structural Design > Export Selected Objects to ArtiosCAD File**.

The **Export Selected Objects to ArtiosCAD** File appears.

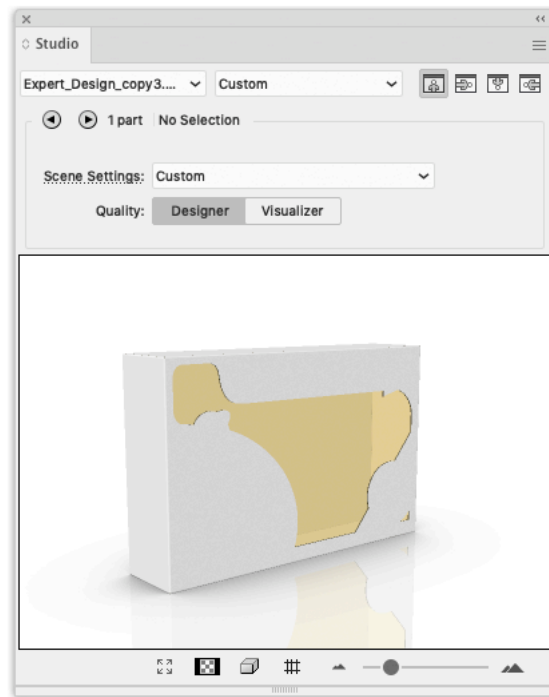


4. Do one or more of the following:
 - Save the selected objects in the Main Design Layer.
 - Include a copy of the original ARD file.
 - Place this ArtiosCAD file in the document.

For more information on the different options, please refer to [Export Selected Objects to ArtiosCAD File](#) on page 70.

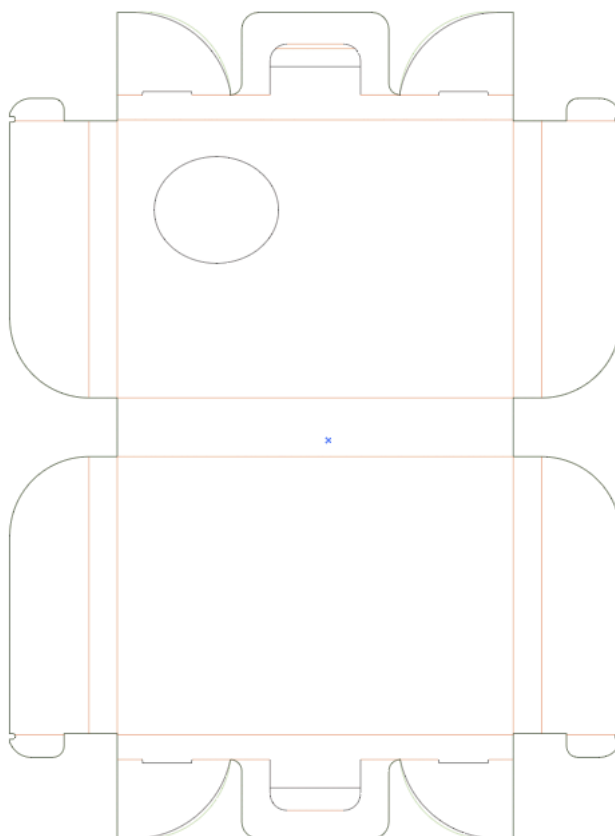
5. Click **Export**.

The selected objects are saved in the **Main Design Layer**. They get the cut line type (which is the default if you did not specify a swatch with as name an ArtiosCAD line type). Apart from the selected objects, the original ARD file is copied in the resulting ARD file and the resulting ARD file is immediately placed in the Illustrator document. If you have **Studio Designer**, you will automatically see the ARD file with the cutout folded in 3D:

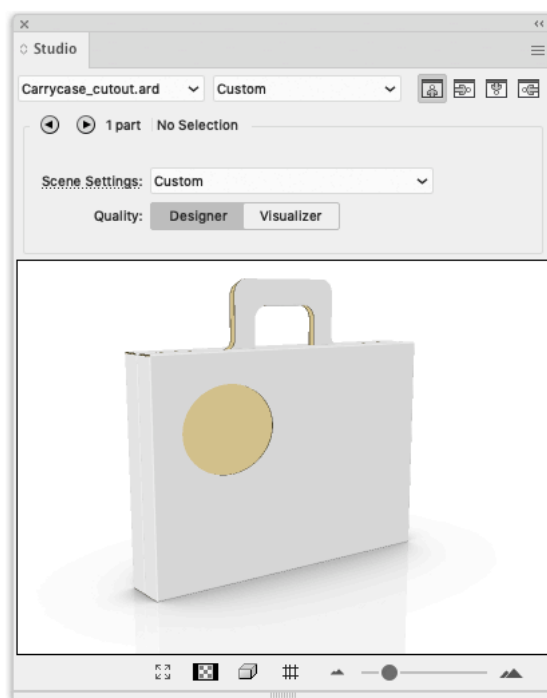


5.3.6. How to modify a cutout window in an ArtiosCAD file?

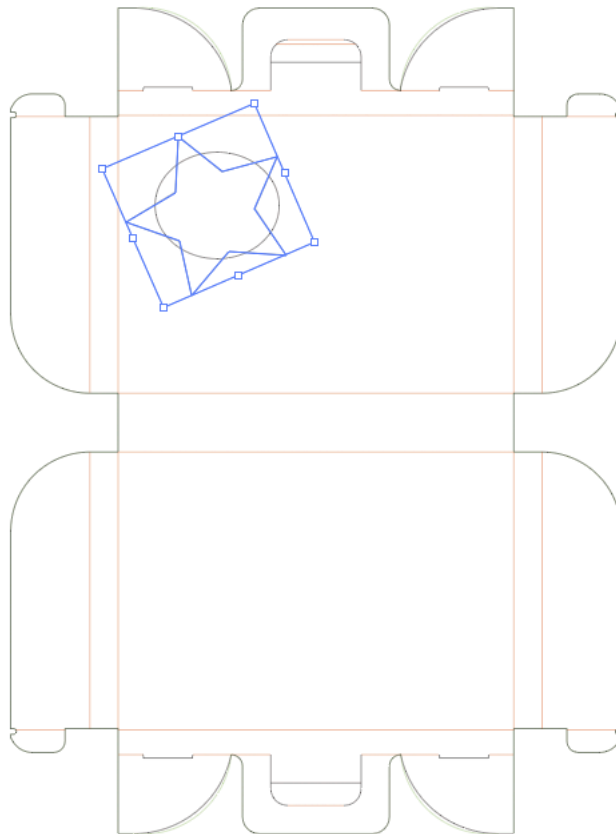
1. Open or Place an ARD file that already contains a cut-out window.



If you also have **Studio Designer**, you will see a 3D view of your folded box in the Studio window.

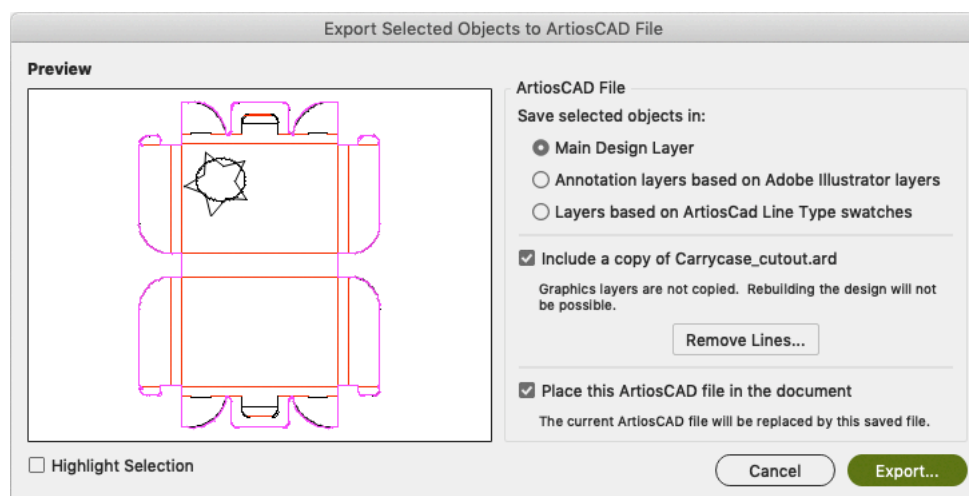


2. Create and select the new cutout shape that you want to add to the ARD file.



3. Choose **File > Structural Design > Export Selected Objects to ArtiosCAD File**.

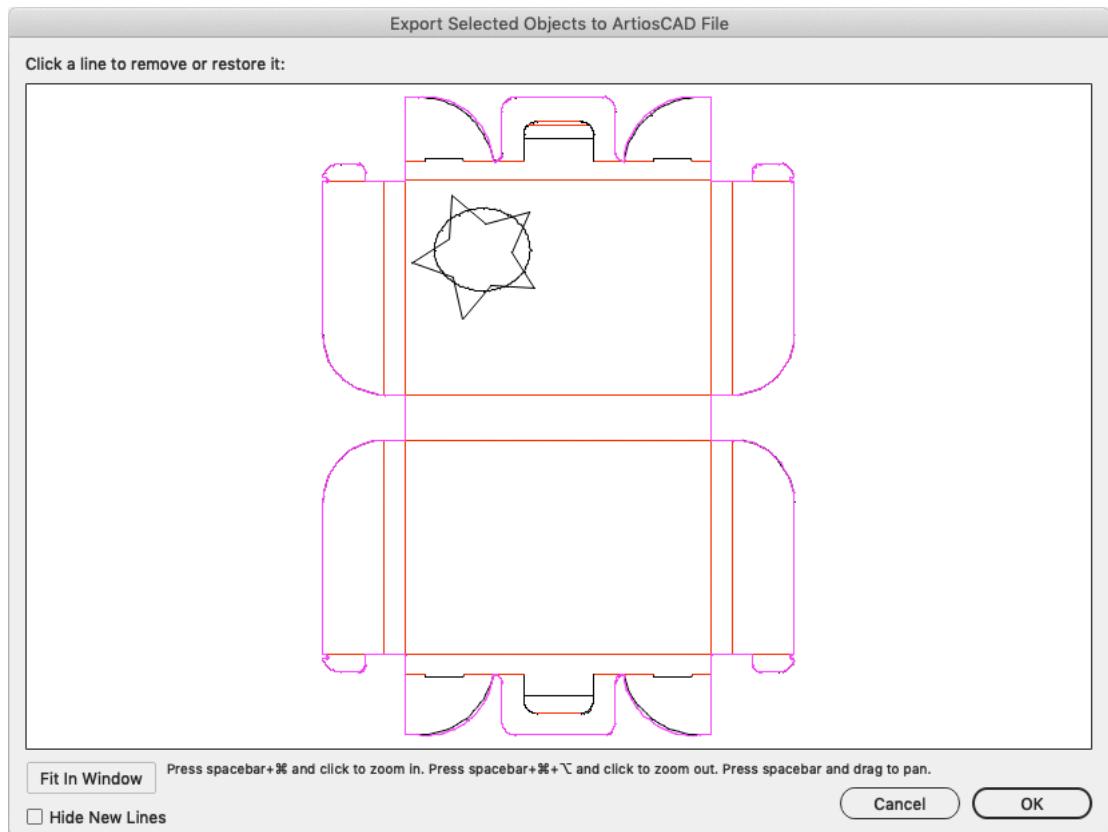
The **Export Selected Objects to ArtiosCAD** File appears.



In the preview window you notice that you do not get the desired result. We need to remove the original cutout window.

4. Click **Remove Lines**.

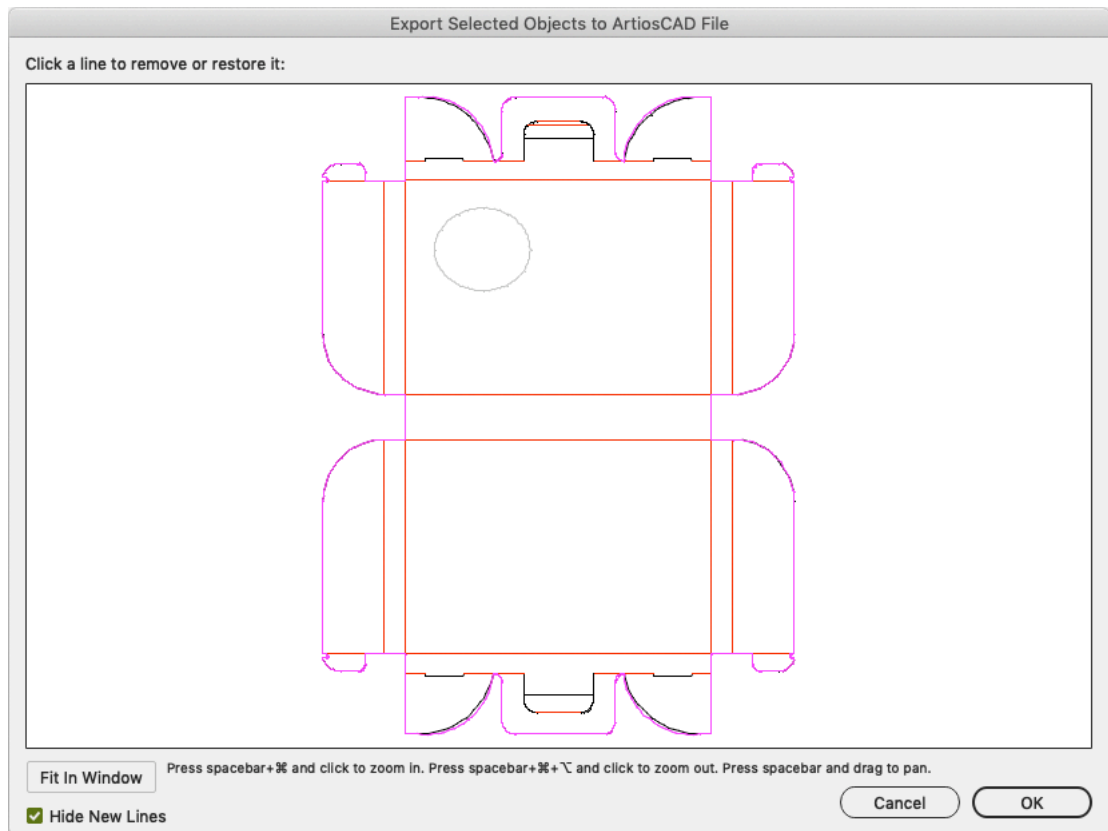
The **Remove Lines** dialog appears.



5. In this dialog, you can select the lines you would like to remove. It will not be possible to select the new lines. You can choose to hide the new lines by enabling **Hide New Lines**.

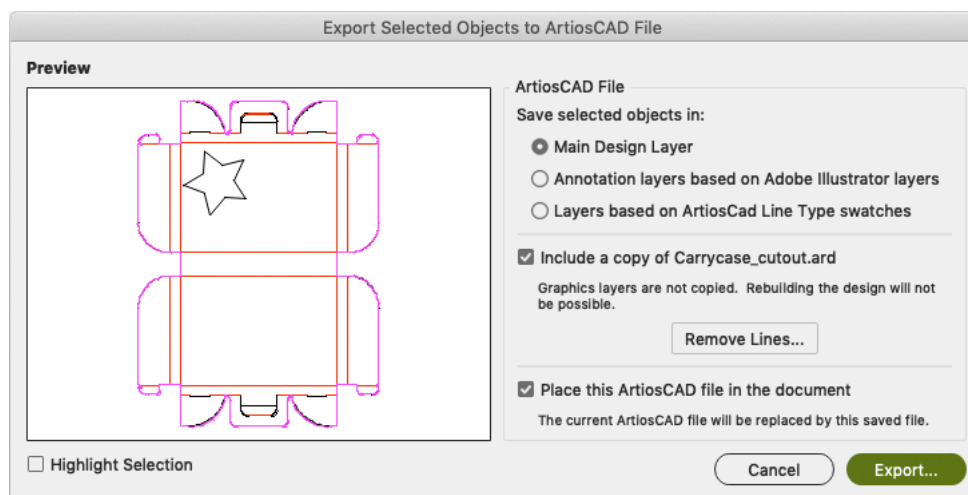
6. Click and drag a rectangle around the original cutout window.

This window will be grayed out. This means that it will be removed in the final ARD file.



7. Click **OK**.

This brings you back to the **Export Selected Objects to ArtiosCAD File** dialog. In the preview window you notice that the original cutout has been removed.



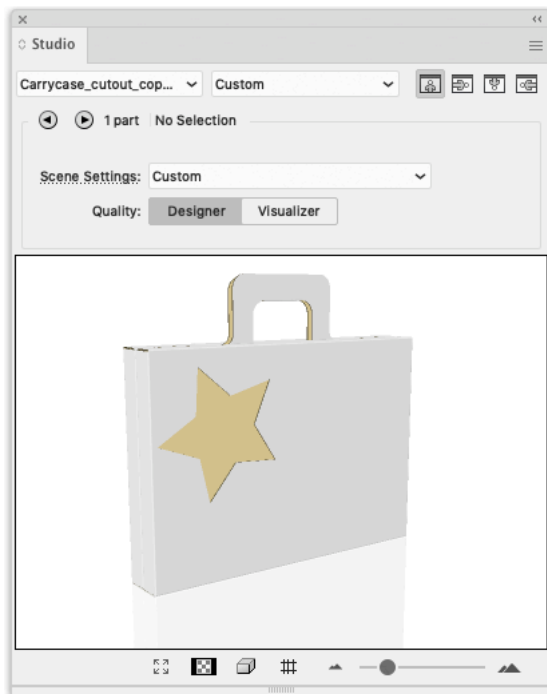
8. Click **Save As**.

9. Specify a file name in the **Save As** dialog.

The software suggests the name of the loaded ArtiosCAD file followed by _copy.

10. Click **Save**.

If you have **Studio Designer**, you will automatically see the ARD file with the new cutout folded in 3D.



6. The Page Box Plug-in

6.1. Introduction

Page Boxes are used to define the outside borders and margins of your document, and it is used in the Esko Software Suite workflow environment.

Page Box definitions are saved as part of the Illustrator file used by the plug-ins Shuttle and PowerLayout Client.

Page Boxes are not taken into account when printing directly from Adobe Illustrator, nor are they exported when exporting to a non-native format via standard Adobe plug-ins. They do not appear as objects in the Layers palette.

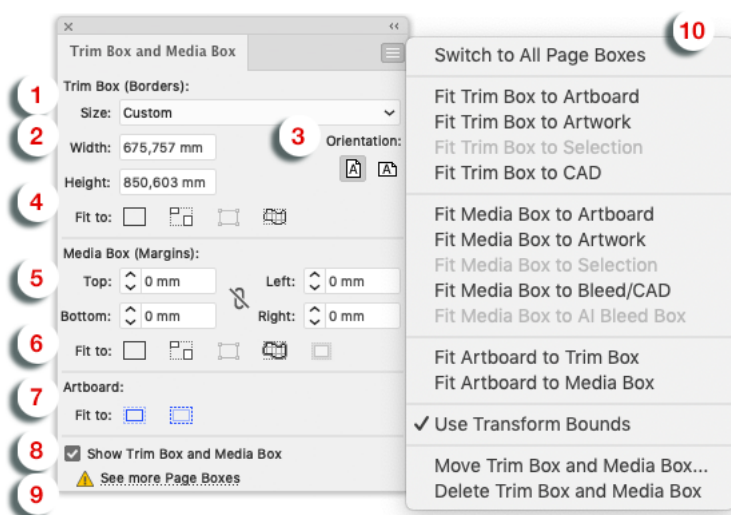
You can find the Page Box plug-in in **Window > Esko > Trim Box and Media Box**

The Page Box plugin can work in two modes:

- **Trim Box and Media Box** (defining only those two page boxes). See [Trim Box and Media Box](#) on page 81
- **All Page Boxes**. See [All Page Boxes](#) on page 85

You can switch mode by selecting **Switch to [mode]** from the fly-out menu.

6.2. Trim Box and Media Box



1. **Trim Box Size:** Select the size from the dropdown list.
2. **Trim Box Width/Length:** Enter the Width/Length if you want a custom size.



Tip:

The units are defined in the Illustrator preferences.





3. Trim Box Orientation: Select the orientation: portrait/landscape.



Note:

When the Trim Box is being dragged or Width or Height editboxes edited, the radio buttons Portrait/Landscape flip automatically so that Landscape is active whenever Width > Height and Portrait whenever Width < Height.

4. Fit Trim Box to

-  Fit Trim Box to Artboard
-  Fit Trim Box to Artwork
-  Fit Trim Box to Selection
-  Fit Trim Box to CAD





5. Media Box (Margins) enter the top, bottom, left and right values.



Tip:

The units are defined in the Illustrator preferences.

6. Fit Media Box to

-  Fit Media Box to Artboard
-  Fit Media Box to Artwork
-  Fit Media Box to Selection
-  Fit Media Box to Bleed / CAD (when no bleed was defined the cad will be taken as reference)

7. Fit Artboard to

- Fit Artboard to Trim Box
- Fit Artboard to Media Box

8. Show Trim Box and Media Box: To display or hide the trim Box and Media Box, use this toggle.

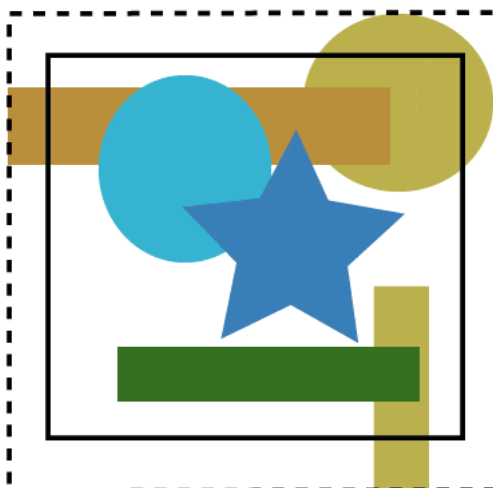
9. See more page boxes: In case page boxes other than Trim and Media box are defined, this link will open the **All Page Boxes** version of the palette. See [All Page Boxes](#) on page 85

10. Trim Box and Media Box dropdown menu

- Switch to All Page Boxes. see [All Page Boxes](#) on page 85
- Fit Trim Box to Artboard
- Fit Trim Box to Artwork

- Fit Trim Box to Selection
- Fit Trim Box to CAD
- Fit Trim Box to Crop Area
- Fit Media Box to ArtBoard
- Fit Media Box to Artwork
- Fit Media Box to Selection
- Fit Media Box to Bleed / CAD (when no bleed was defined the CAD will be taken as reference)
- Fit Media Box to AI Bleed Box
- Fit Artboard to Trim Box
- Fit Artboard to Media Box
- Use Transform bounds: if this option is enabled, TrimBox/MediaBox will respect as they are defined in Adobe Illustrator. If disabled, TrimBox/MediaBox will respect visible bounds.
- Move Trim Box and Media Box ... open the 'Move Trim Box and Media Box' interface
- Delete Trim Box and Media Box

The figure below illustrates the Trim Box (borders) and Media Box (margins) of an output document as interpreted on an Esko system. The full black line represents the borders (corresponding to one of the above options) while the dotted black line indicates the margins of the document:

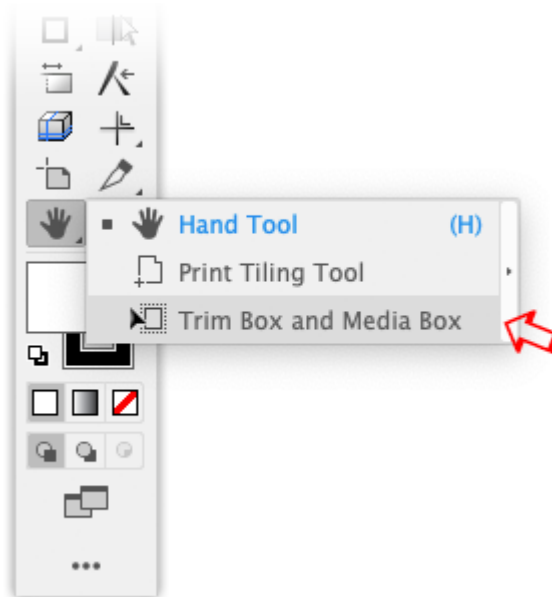


6.2.1. Moving and Scaling Trim Box and Media Box

To move or change the size of the Trim and Media Boxes, you can either

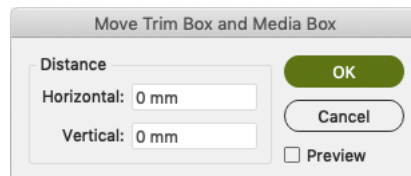
- Select the Trim and Media Box Tool from the AI tool palette.
Use the Trim and Media Box to click and drag the Trim and Media Box.
- Select the Trim and Media Box Tool from the AI tool palette.
 - ALT + drag = scale from the center out
 - SHIFT + drag = constrained scaling

- ALT + SHIFT + drag = constrained scaling from the center out



OR

- Select a preset from the drop down menu. OR
- Use the numeric input field. The numeric input field appears when you select **Move Trim Box and Media Box** in the dropdown menu.



Tip:

Double-clicking Trim and Media Box tool in toolpalette opens the 'Move Trim Box and Media Box' dialog.

OR

- You could use one of the "fit to" options (to Artboard, artwork, selection, cad or crop area).

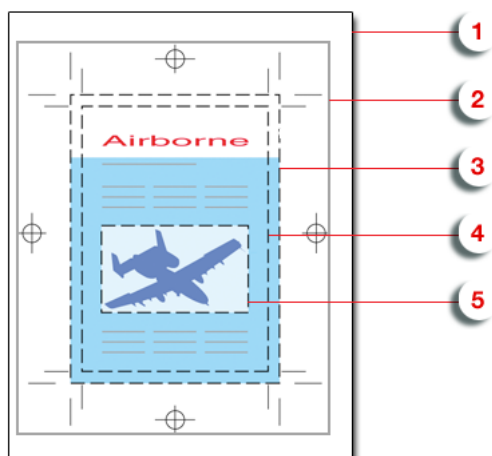


Tip:

The units are defined in the Illustrator preferences.

6.3. All Page Boxes

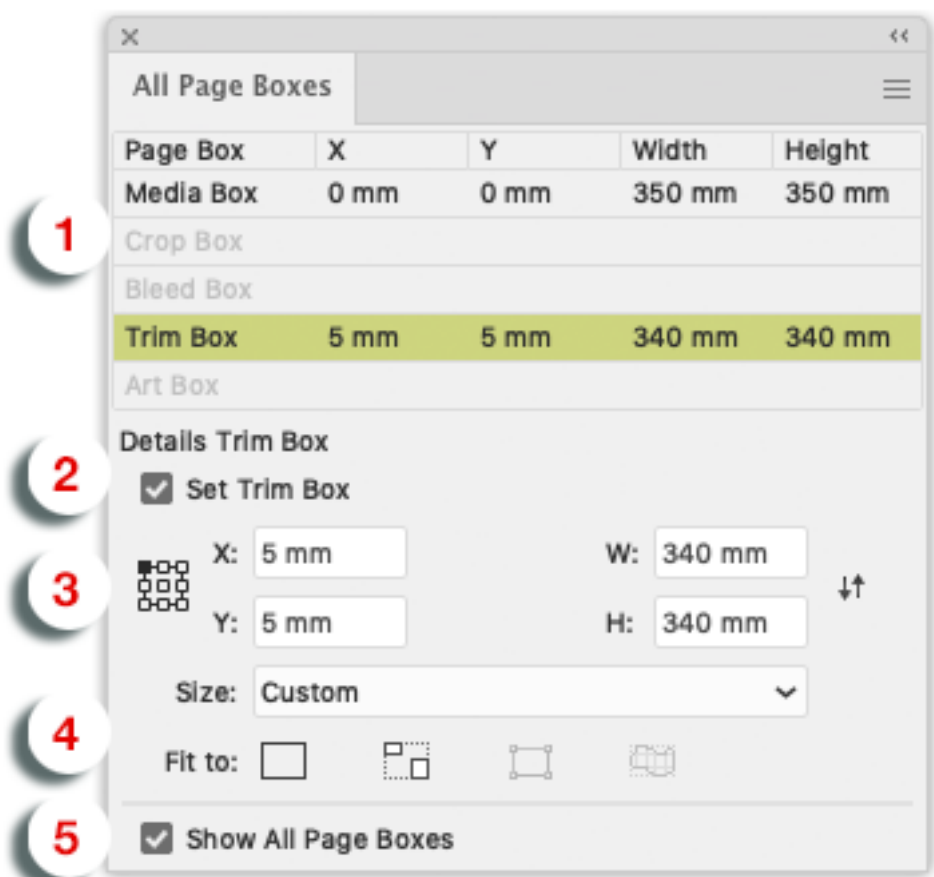
Using the **All Page Boxes** mode, you can set all 5 page boxes: Media Box, Crop Box, Bleed Box, Trim Box and Art Box



1. Media box: this is the page format
2. Crop box: includes the Bleed box and all marks.
3. Bleed box: defines the trimmed page plus the bleed.
4. Trim box: this is the net document format.
5. Art box: the Art box can be used to specify any section of the page.

You can see the dimensions of all Page Boxes in the Page Box list. You can

1. Select a Page Box in the list. Its details will be shown in the bottom part of the dialog.
2. Enable (or disable) the specific page box by enabling the **Set [...] Box** option.
3. Enter the offset, width and height. You can click the button to swap width and height. In the **Size** dropdown, you can select any of the preset sizes.
4. Click one of the **Fit to** buttons to fit the selected page box respectively to the ArtBoard, Artwork, Selection or CAD.
5. Use the **Show All Page Boxes** to show or hide all Page Boxes in your job.




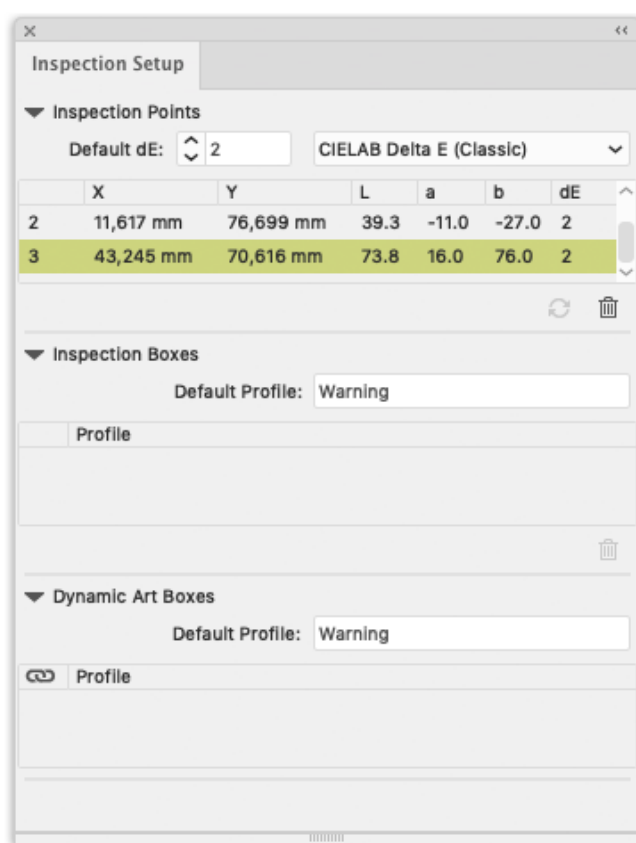
7. The Inspection Setup Plug-In

The Inspection Setup Plug-In allows you to define Inspection points or Inspection boxes in your job.

For each of these Inspection points, you will see the Lab value and DeltaE. For every Inspection box, you can set the Profile. Inspection points and boxes will be exported, e.g. to be used in an Inspection System in inline presses. This Inspection System will warn if the values measured at a specific position are more different from the entered Lab values than the allowed deltaE, or if the Inspection box or Dynamic Art box doesn't match the defined profile.




The plug-in consists of

- the **Inspection Setup tool** , under the Eyedropper tool in the toolbar
- the **Inspection Setup palette**, which can be opened by selecting the Inspection Setup tool, or by adding an Inspection point.





7.1. Adding and changing Inspection points

The **Inspection Setup palette** shows all the Inspection points, indicating the coordinates (distance from the top left corner of the trim box), Lab value and default deltaE value.

- Select the **Inspection Setup tool**  from the Illustrator toolbar and click in the job to insert a new Inspection point.
The Inspection point will be visible in the job, with its number next to it.
- Select an Inspection point in the palette to highlight the corresponding Inspection point on the Illustrator job. You can select multiple Inspection points
- Select one or more Inspection points and click the **delete** button  to delete the Inspection points
- You can manually change the Lab and deltaE value for every Inspection Point.
- Click the **Refresh** button  to update the Inspection Point list.
- You can move an Inspection point in two ways:
 - Click within the Inspection point, and drag it to the new location
 - In the Inspection Point list, change the coordinates for the Inspection point.

7.2. Adding and changing Inspection boxes

The **Inspection Setup palette** shows all the Inspection boxes.

- Select the **Inspection Setup tool**  from the Illustrator toolbar and click and drag in the job to insert a new Inspection box.
The Inspection box will be visible in the job, with its number next to it. When creating a new Inspection box, the **Default Profile** is used
- Select an Inspection box in the palette to highlight the corresponding Inspection box on the Illustrator job. You can select multiple Inspection boxes.
- Select one or more Inspection boxes and click the **delete** button  to delete the Inspection boxes
- You can manually change the **Profile**.
- You can move or change an Inspection box in different ways:
 - Click on the center point of the Inspection box, and drag it to move the Inspection box to a new location
 - Click one of the 8 handles on the Inspection box, and drag to modify the Inspection box

7.3. Dynamic Art Placeholders

The Dynamic Art section of the **Inspection Setup palette** shows all Dynamic Art placeholders defined in the job.

- Enable the checkbox in front of a Dynamic Art placeholder to use it as an Inspection box.

When adding a Dynamic Art placeholder, the **Default Profile** is used

- Select a Dynamic Art placeholder in the list to highlight the corresponding Dynamic Art placeholder on the Illustrator job. You can select multiple Dynamic Art placeholders
- You can manually change the **Profile**.
- Disable the checkbox in front of a Dynamic Art placeholder to stop using it as an Inspection box.

7.4. Import and Export

When exporting Normalized PDF, Inspection points and boxes added to a job are saved in the PDF file, and these Inspection points and boxes will be recognized by Packadge and Automation Engine.

Also, when opening a Normalized PDF from another Esko product (such as PackEdge), the Inspection points and boxes information stored in the PDF document will be shown in the Inspection Setup palette.



Note: Dynamic Art placeholders are not saved as such in Normalized PDF. The selected Dynamic Art placeholders will be exported as "Inspection Box". If you import the Normalized PDF in Adobe Illustrator again, or open the Normalized PDF file in e.g. Packedge, these Dynamic Art placeholders will be shown as Inspection Boxes

8. Messages

The **Messages** plug-in is included with all Esko DeskPack plug-ins.

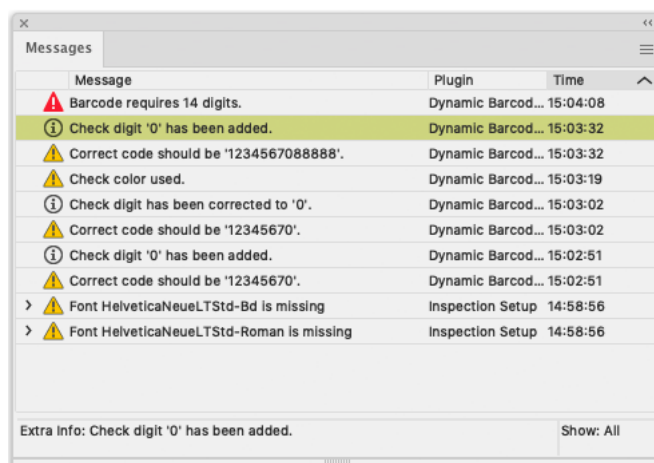
It displays the information, warnings and errors from all the other DeskPack plug-ins, and tells you which plug-in generated them.

You can filter the messages you see when the Messages palette is open, and clear or save all messages if you need to.




8.1. The Messages Palette

The **Messages** palette pops up automatically when another DeskPack plug-in generates a warning or an error.

You can also open it from **Window > Esko > Messages**.



This palette shows you:

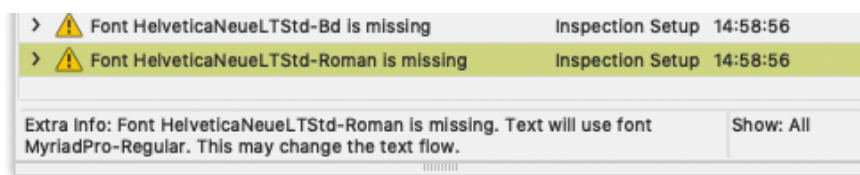
- the message's severity ( information,  warning or  error),
- the message's text in the **Message** column,
- which **Plugin** generated the message,
- the **Time** the message was generated at.



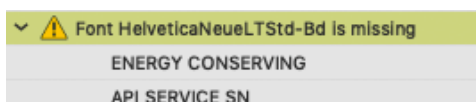
Tip: You can click the column headers to sort the messages, and drag the columns horizontally to adjust their widths.

You can also use the palette to get extra information and / or select the objects that generated warnings or errors:

- click a message to display extra information at the bottom of the palette.



- click the triangle in front of a message to see the list of objects it relates to.



- click one of the objects in the list to select it in the file.
- double-click that object to select it and zoom in on it in the file.
- double-click the message to select and zoom in on all objects it relates to in the file.

8.2. Filtering the Messages

You can show or hide certain types of messages using the palette's fly-out menu.

- To hide:
 - all informational messages, select **Hide Info Messages** in the fly-out menu,
 - all warnings, select **Hide Warning Messages**,
 - all errors, select **Hide Error Messages**.
- To show them again, select either:
 - **Show Info Messages**,
 - **Show Warning Messages**,
 - **Show Error Messages**.
- To only show the last message, select **Show Last** in the fly-out menu.
- To show all messages again, select **Show All**.

When showing all messages, you can see **Show: All** at the bottom right of the palette.

When filtering messages (for example filtering out the warning messages, or showing only the last message), you can see **Show: Filtered** at the bottom right of the palette.

8.3. Saving the Messages

To save all messages in a text file:

1. Select **Save Messages as...** in the fly-out menu.
2. In the browser window that opens, choose the name and location to use for saving your file.

8.4. Clearing the Messages

- To remove all messages from the **Messages** palette, select **Clear** in the fly-out menu.

9. Esko Document Setup

By choosing **File > Esko Document Setup** you can open the **Esko Document Setup** dialog.

The settings made here are saved in the Esko XMP Document Information.



9.1. Distortion

The vertical and horizontal distortion value is saved with the document and used by Esko RIPs when generating the final output. It allows to compensate for distortions in certain printing methods, e.g. flexography. On mounting a flexo plate on the press, it is stretched out in one direction. By making the output slightly smaller than needed (e.g. 95%), we compensate for this distortion.

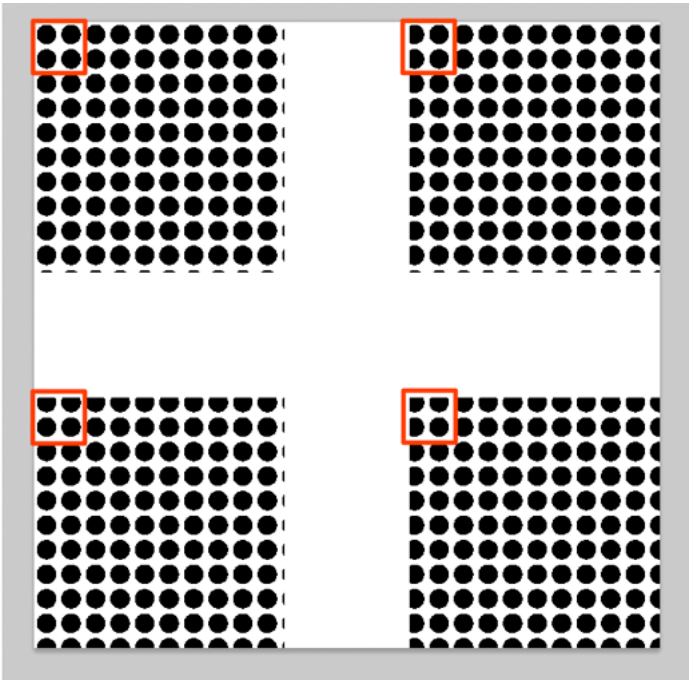
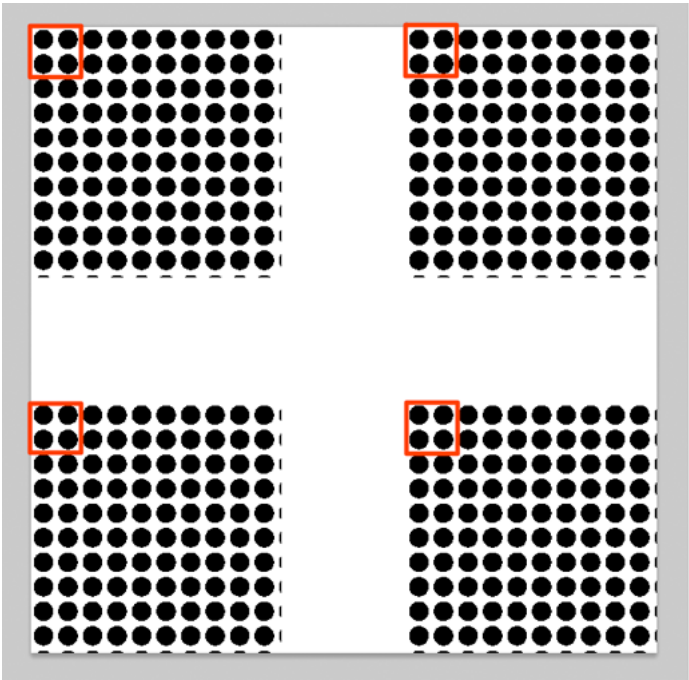
Values for vertical and horizontal distortion is limited to 90% - 110%.

9.2. Screen Registration

The **Screen Registration** parameter allows to choose

-  if the RIP should reset the screening origin for every one-up
-  or keep the same screening origin for the complete document

Below a schematic representation of a Repetition with (left) and without (right) resetting the screen origin for every one-up.



10. Annotations

With the **Annotations** plugin, you can view .xpdf annotations generated by Global Vision and WebCenter.

Since version 16, Global Vision SDK has been integrated in Esko's Automation Engine, allowing several types of Global Vision Check tasks to be run.

The output of a Global Vision Check is an .xpdf file, highlighting the found errors and problems on the document.

The .xpdf file can be loaded (see [Loading XFDF files](#) on page 95) and the annotations are shown in the Annotations palette (see [The Annotations palette](#) on page 95).

10.1. Loading XFDF files

Whenever a file is opened in Adobe Illustrator, the Annotations plugin will try to find the corresponding XFDF file to open.

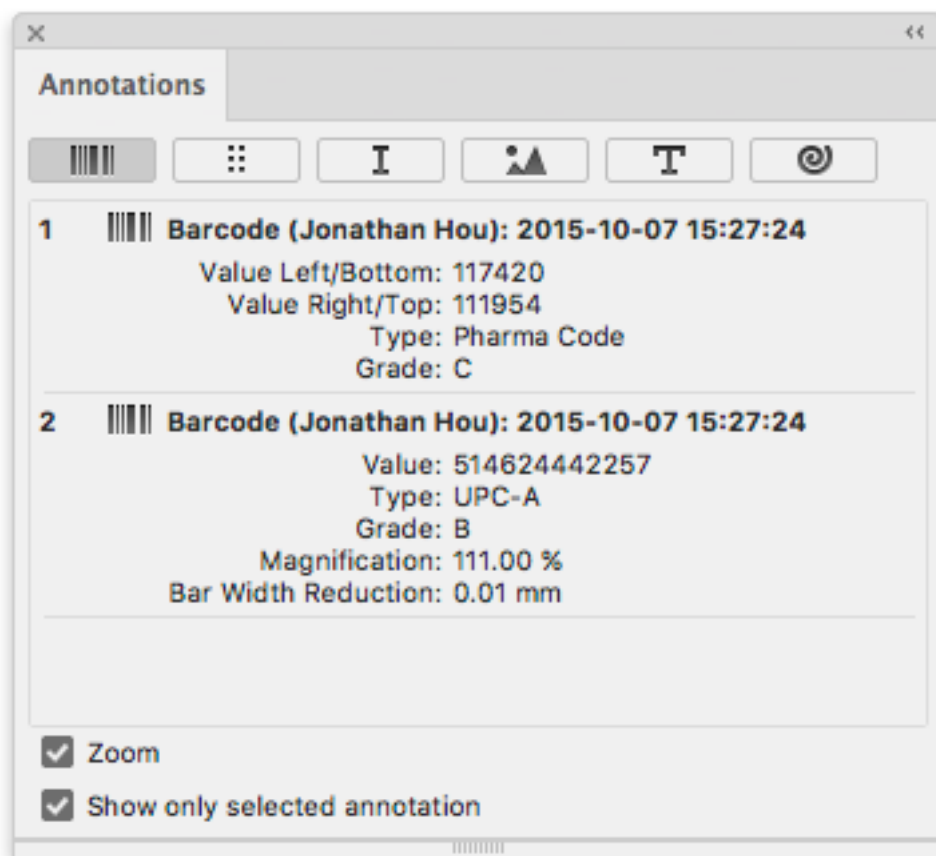
- For GlobalVision annotations, the supported file types are Adobe PDF, Normalized PDF and Adobe Illustrator file
- For WebCenter annotations, the supported file types are Adobe PDF, Normalized PDF, Adobe Illustrator file, Adobe Illustrator ZIP file and ARD.

If for example a file "sample.pdf" is opened, the plugin will search for the corresponding .xpdf file in the following locations, in the specific order shown below.

1. .view/sample.pdf/*.xpdf
2. .view/sample*.xpdf
3. sample*.xpdf
4. ./sample_wcr.xpdf for WebCenter annotations

10.2. The Annotations palette

The Annotation palette will show all Annotations found in the .xpdf file. You can open the palette by choosing **Window > Esko > Annotations**.



There are different types of annotations: Barcode, Braille, Spell Check, Artwork, Text Compare and WebCenter annotations.. You can browse to them by clicking the buttons on top of the palette.



Note: If the document only contains WebCenter annotations, you will not have any filtering options. If your document only contains Global Vision annotations, the "WebCenter" button will be hidden.

For every issue found, an entry in the list is shown. Some of these annotations have text content, while others can have an image preview, showing the difference between the actual artwork and how it should look.

If **Show only selected annotations** is enabled, only the annotations you select in the list will be highlighted in your job using a colored rectangle. Otherwise, all annotations in the job will be highlighted.

If **Zoom** is enabled, selecting an annotation in the list will automatically zoom in on the issue.

10.3. Multipage PDF files with Annotations

An XFDF file can contain annotations for a multipage PDF. Every annotation will have a reference to what page it belongs to.

If you import a multipage Normalized PDF, the plugin knows what page you imported, and only the Annotations for that specific page will be shown.

If you import a multipage PDF as Adobe PDF, the plugin can't know what page you imported. In that case, the Annotation palette will have a dropdown at the bottom of the palette, to decide for what page you want to load the annotations.



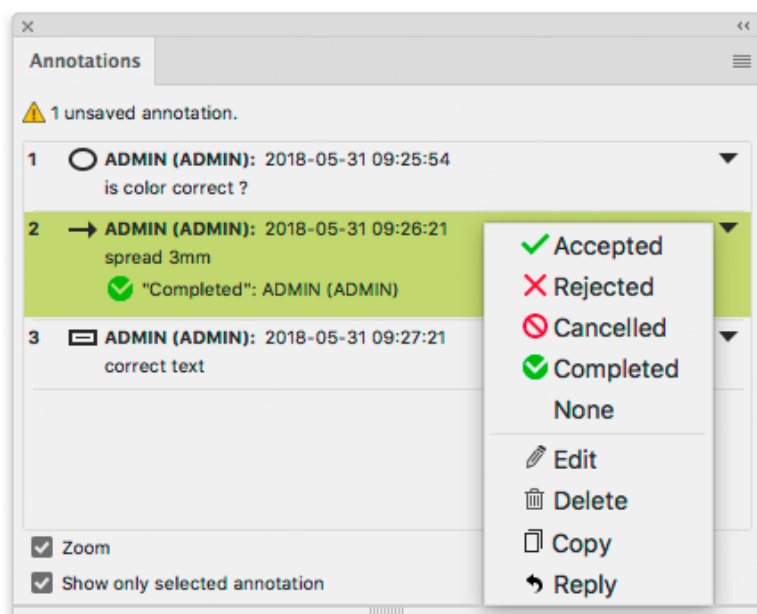
Note: Multi-page annotations is not supported for WebCenter annotations

10.4. Editing WebCenter annotations

You can edit existing WebCenter annotations or create new annotations, and save them back to WebCenter.

To create new annotations, you can use the Annotation Tool. See [Creating new annotations using the Annotation Tool](#) on page 98

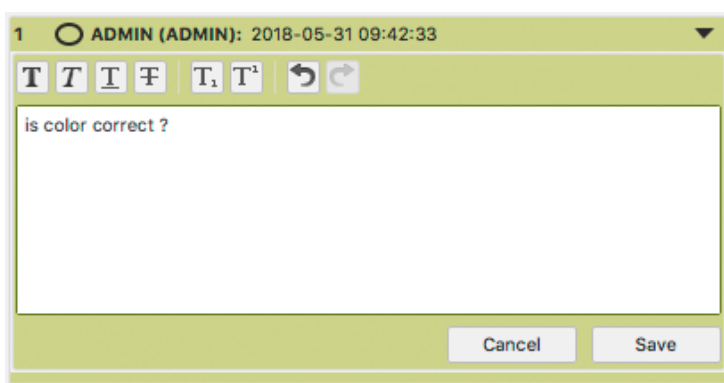
For every annotation (or reply), you can use the dropdown menu to modify the annotation.



- Select **Accepted**, **Rejected**, **Cancelled**, **Completed**, or **None** to change the status of the annotation accordingly.
- Select **Edit** to change the text of an annotation, or to move or resize the annotation.

You can click and drag the annotation to move it, or you can click and drag any of the handles on the annotation to resize it.

The dialog will be extended, offering text editing options.



Note: Clicking the **Save** button will store your changes in the (local) annotation, but will NOT save the annotation back to WebCenter. The annotation will be an "unsaved annotation" until you use **Save Annotations** from the fly-out menu. See below.

- Select **Delete** to remove the annotation.
- Select **Copy** to copy the content of a comment or annotation. This will open the Copy to Clipboard dialog. Select the text you want to copy, and click Copy.
- Select **Reply** to add a reply to an annotation.



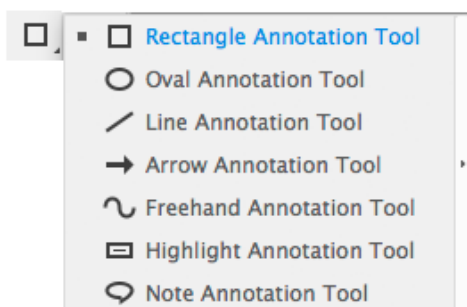
Note: You can only reply to an annotation, not to a reply.

- If there are unsaved changes in the annotations, the Annotations palette will show a warning.
Choose **Save Annotations** from the fly-out menu in the Annotations palette to save the new or modified annotations back to WebCenter. See [Updating and Saving Annotations](#) on page 99

10.5. Creating new annotations using the Annotation Tool

Using the **Annotation Tool** you can create new annotations.

1. Click the **Annotation Tool** in Adobe Illustrator's tool box.



2. Select the type of annotation you want to create.

3. Click or drag where you want to create the annotation.
4. In the **Annotations** palette, enter the text for the annotation



5. Click the **Save** button to store your annotation text, or click **Delete** to remove the annotation.
6. If necessary, repeat the previous steps to create additional annotations.
7. Choose **Save Annotations** from the fly-out menu in the Annotations palette to save the new annotations back to WebCenter. See [Updating and Saving Annotations](#) on page 99

10.6. Updating and Saving Annotations

Each annotation contains a time stamp of creation. In case the source file is modified and saved later than the annotation, a warning icon will be shown on top of the palette, indicating the annotations might be out of sync with the document.

Also when you edit Annotations (see [Editing WebCenter annotations](#) on page 97) or create new annotations (see [Creating new annotations using the Annotation Tool](#) on page 98), a warning icon is shown, indicating that these annotations are unsaved.

You can use **Save Annotations** from the fly-out menu to save all unsaved annotations to WebCenter.

You can use **Update Annotations** from the fly-out menu in the Annotations palette to get the latest annotations from WebCenter.

If you select **Update Annotations** while your document contains unsaved annotations, a warning will be shown, asking if you wish to save the annotations. You can select **Yes** to save the annotations to WebCenter, or click **No** to ignore the unsaved changes and get the latest annotations from WebCenter.



Note:

In case the annotations can not be loaded or saved (e.g. you are no longer logged in with WebCenter Connector, there are no annotations available for the document, or the document no longer exists) you will get a warning message indicating why loading or saving didn't work.

You can not save annotations, edit annotations or reply to an annotation if the Annotations plugin is older than version 16.1.2, or if the WebCenter Connector plugin or WebCenter server is not the latest version.

11. Share & Approve connection

The integration of DeskPack with Share & Approve allows you to

- Upload PDF files from within Adobe Illustrator to the Esko Cloud.
- Share these PDF files with other people, either working in the same company or not.
- Request users to annotate and/or approve (or reject) the document.
- Review the Annotations in DeskPack.
- Add Annotations on the document inside DeskPack.

For more information on Share & Approve, see:

- The Share & Approve [Documentation](#)
- The Share & Approve [eLearning modules](#)

11.1. Setting up the Share & Approve connection

In order to enable the Share and Approve functionality in DeskPack, a configuration file must be saved on a specific location.

1. Create the configuration file:

- The file name should be `ShareAndApproveURL.txt`
- The contents is a single text line and specifies a URL:
 - If your account resides in the cluster in the EU, use <https://applink.eu.esko.cloud/panelcomponent/panel/main>
 - If your account resides in the cluster in the US, use <https://applink.us.esko.cloud/panelcomponent/panel/main>

2. Move the file to the correct location:

- On Windows: `%USERPROFILE%\Documents\EskoArtwork\DeskPack\`
- On Mac OS: `/Users/Shared/EskoArtwork/Deskpack/`

11.2. Connecting to Share & Approve

The first time you select **Window > Esko > Share & Approve** you will be asked to Sign In.

1. Enter your Esko ID and Password.
2. If you want to keep the information stored, enable **Remember Me**
3. Click **Sign In**
4. If your Esko ID is associated with multiple Esko Cloud Accounts and/or Workspaces, you will be able to choose the **Account** or **Workspace** you want to use from a dropdown.




Note: These dropdowns will not be shown if the current document is already uploaded to Share&Approve.

When the current document is not uploaded to the cloud, you can switch to another Account or Workspace by clicking the **Esko Cloud Account** button.

11.3. Uploading the current document to Share & Approve

To upload the current document to Share & Approve:

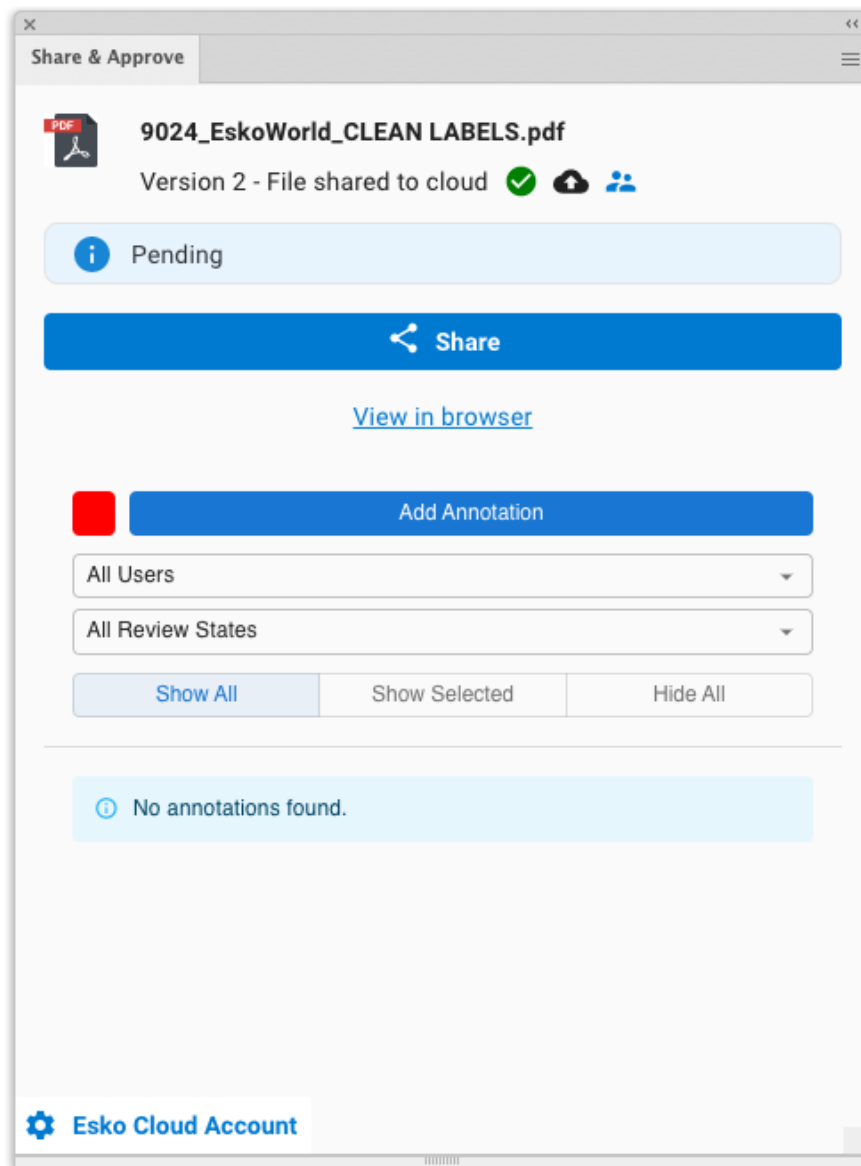
1. If the Share & Approve pallet isn't open yet, choose **Window > Esko > Share & Approve**
2. Click the **Upload** button. 
3. Enter the **Asset Name**. By default, the name of your document is used.
4. Select the **Folder** on Share & Approve in which you want to upload the file. If necessary, you can create new subfolders by clicking **Create New Folder**
5. Click **Upload**





Note: Instead of uploading your document, you can click the **Share** button, to combine two actions: **uploading** the document as described here, and **sharing**. See [Sharing the document](#) on page 103

11.4. Working with an uploaded document

If the active PDF document is uploaded to Share & Approve, the Share & Approve pane looks like this:



- Click the **Upload** button  to upload a new version of the document.
- Click the **Permissions** button  to open a browser window and change the permissions for the current file.
- Click the **Share** button to share the document to other people, either within or outside your own organisation. See [Sharing the document](#) on page 103


- In the **Annotations** section you can see and add annotations to the file. See [Annotations](#) on page 103

11.4.1. Sharing the document

By sharing a document you can have users inside or outside your organisation to view, check, annotate and accept or reject your document.

1. In the Share & Approve panel, click the **Share** button.
2. Enter the e-mail address of the user you want to share the document with. Users that are registered to the account can be selected from the dropdown by clicking the triangle.

3.



For unregistered users, you can use the **language selector**  to specify the language used in the e-mail notification. For registered users, the language as defined in their profile will be used.

4. Enable **Request Approval** if you want the users to approve or reject the document.
In that case, you can add a **Due Date** for the approval.
5. When sharing the document with unregistered users, these users will receive a link to access the file without password. The **Expiration date for the link** sets how long this link remains valid.
6. The **Assets Details** display the name and location of the document. This section is read only.
7. Click **Share**.

An email will be send to all selected users, containing a link to open the document in the Viewer.

11.4.2. Annotations

Users with whom a document is shared can view the document in the Viewer, and can add comments, named "Annotations". In ArtPro+ you can see those annotations and add annotations yourself.

- The Share & Approve panel will show a list of all annotations, indicating the content and the user who added the annotation
Using the dropdowns, you can filter the list of annotations based on the user, or based on the review state of the annotation.
- By default, **Show All** is selected, so all notes are shown in your document. Use **Show Selected** to only show the annotations selected in the list, or **Hide All** to hide all annotations.
- For every annotation, you can:
 - Enter a reply
 - Click the **More** button  and set a **State** for the annotation: Accepted, Rejected, Cancelled, Completed or None.
 - Click the **More** button  and **Duplicate**, **Edit** or **Delete** the annotation.



Note: Annotations added in the Viewer are not immediately visible in Adobe Illustrator. To load new annotations, choose **Refresh** in the fly-out menu in the upper right corner of the **Share & Approve** panel.

12. Esko Plug-ins Dashboard

On your Esko Plug-ins Dashboard, you can:

- See which features you use, and how often,
- Learn how many files are processed with your Esko plug-ins,
- Get configurable reports for your company.
- Get personalised suggestions and complimentary training.

To build the dashboard, Esko needs to collect personal data about your plug-ins usage.

1. Open the Dashboard panel by choosing **Help > Esko > Dashboard...**
2. Click the **Yes, I want a dashboard** button.
3. Sign in with your Esko ID

More information about Esko ID can be found [here](#)



Note: If you already enabled Dashboard before, you can skip step 2 and 3.

4. Click the **Go to my Esko Plug-ins Dashboard** link to open the Dashboard

12.1. Opt Out

At any time, you can opt-out and stop the personal data collection.

1. Open the Dashboard panel by choosing **Help > Dashboard...**
2. Click the **Opt Out** button.
3. If you click Opt Out, Esko stops collecting personal data, but still gathers anonymous usage data to help us improve the product.

12.2. More about the dashboard and data collection

Insights for you and your team

You will get a dashboard for DeskPack and/or for Studio where you can check that you are getting the most out of your software investment. You can filter on those features that are the most valuable to you, and keep track of how often they are used, how many files are handled, and by how many people across your company. If your colleagues also opt in, you can also combine the data in a single dashboard for your company.

What data is collected?

We automatically collect your Esko plug-in usage:

- Basic information about your computer (OS version, language, screen resolution, ...).
- Your version of Adobe Illustrator and which Esko plug-ins are installed.
- Which actions you perform on Esko plug-in, including some of their parameters.

If you opt in to the dashboard, then this usage data is tagged with your EskoID (name and email). If you do not opt in, then this usage data is anonymous.

Either way, We do not collect information that can be used to identify your client or the designs that you work on (such as text statements, barcodes, separation names or filenames).

Your data is protected

Your usage data will be available only to Esko and (if you opt-in) to you and to your colleagues (based on the company code of their Esko IDs). [Learn more about Esko ID](#) and [check out our privacy policy](#).

Help us improve our products

Sharing your usage data with Esko allows us to learn about your configuration and your use of our products. This data enables us to focus on the features that matter the most to you.

Opt-out whenever you want

At any time, you can opt-out and stop sharing personal data. Just choose **Help > Esko > Dashboard** and click the **Opt Out** button.