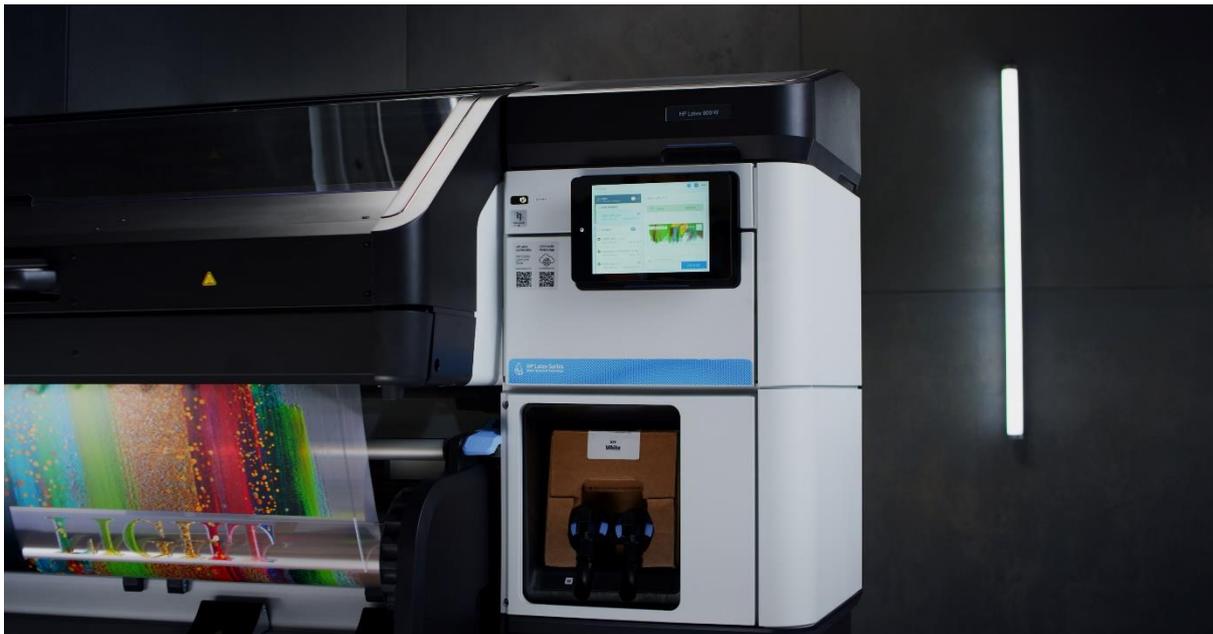




How to RIP and Print in Sandwich Mode with Latex 700W and 800W



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1. Introduction

A new sandwich print mode, 5 Layers, has been added to the machine with the upgrade of the firmware (*Firmware PLS_20_21_10.10*). The Latex 700W and 800W printers now have the possibility to print both Day and Night (3 Layers) and Dual Side (5 Layers).

NOTE: The RIPs need to be updated to the latest version to be able to use this firmware.

i. Considerations

The two images must have the same size and resolution.

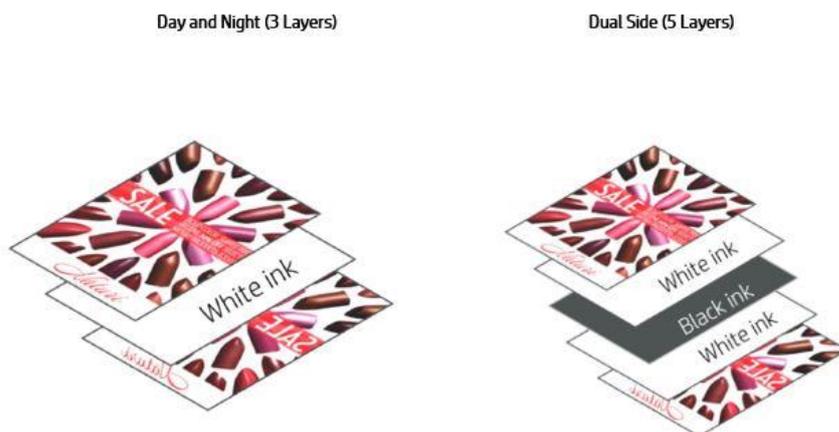
The image you want to be in contact with the substrate (Side A) must have the white layer inside.

The image you want to be in contact with the substrate (Side A) will always be the source of the composition. The other image (CMYK) will be added to this one, not the other way around.

Files RIPped against a backlit category substrate are printed assuming they will be illuminated and are going to be the “light side”.

Files RIPped against a non-backlit category substrate will be those exposed to the sight of the user, therefore the “visual side”.

ii. Dual Side vs Day and Night



Sandwich mode comes with two different applications, Dual Side and Day and Night. A Dual Side application allows an image to be viewed from both sides of the transparent media equally, while a Day and Night application is designed to be viewed from one side only, and it changes if it is backlit.

2. RIP

The RIP will be responsible for sending raster data with 9 channels (CMYK**W**CMYK) to the printer when the user selects a sandwich print mode.

If the user selects the 78p (AKA 3L) print mode, the RIP will generate the 9 channel raster, and the printer will process the information of the **W** channel as 3 layers of white ink.

For the 123p (AKA 5L) print mode the raster is still the same but the printer will now process the information of the **W** channel as 5 layers (2 layers of white ink + 1 layer of black ink + 2 layers of white ink).

The only difference when preparing the job through the RIP is to select one or the other print mode depending on the sandwich mode wanted.

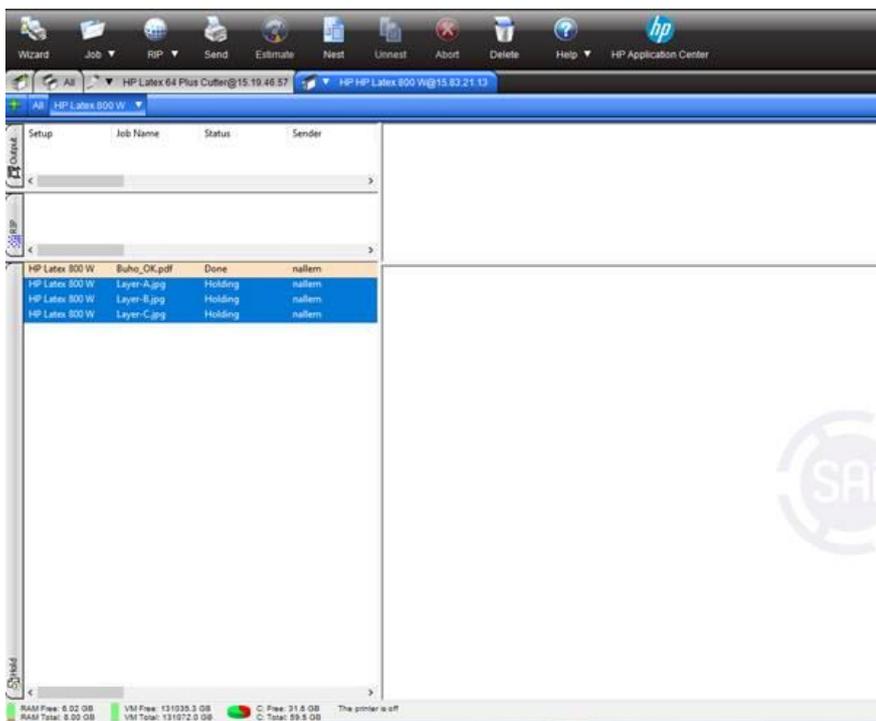
i. SAI

Considerations

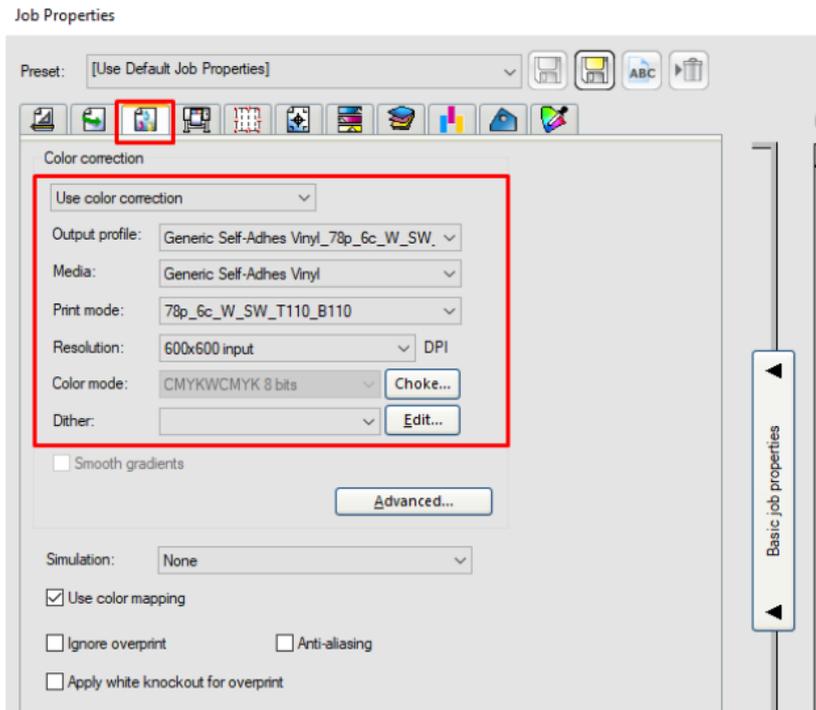
- It is not possible to nest different sandwich jobs.
- It is not possible to do tiling with sandwich jobs.

How to

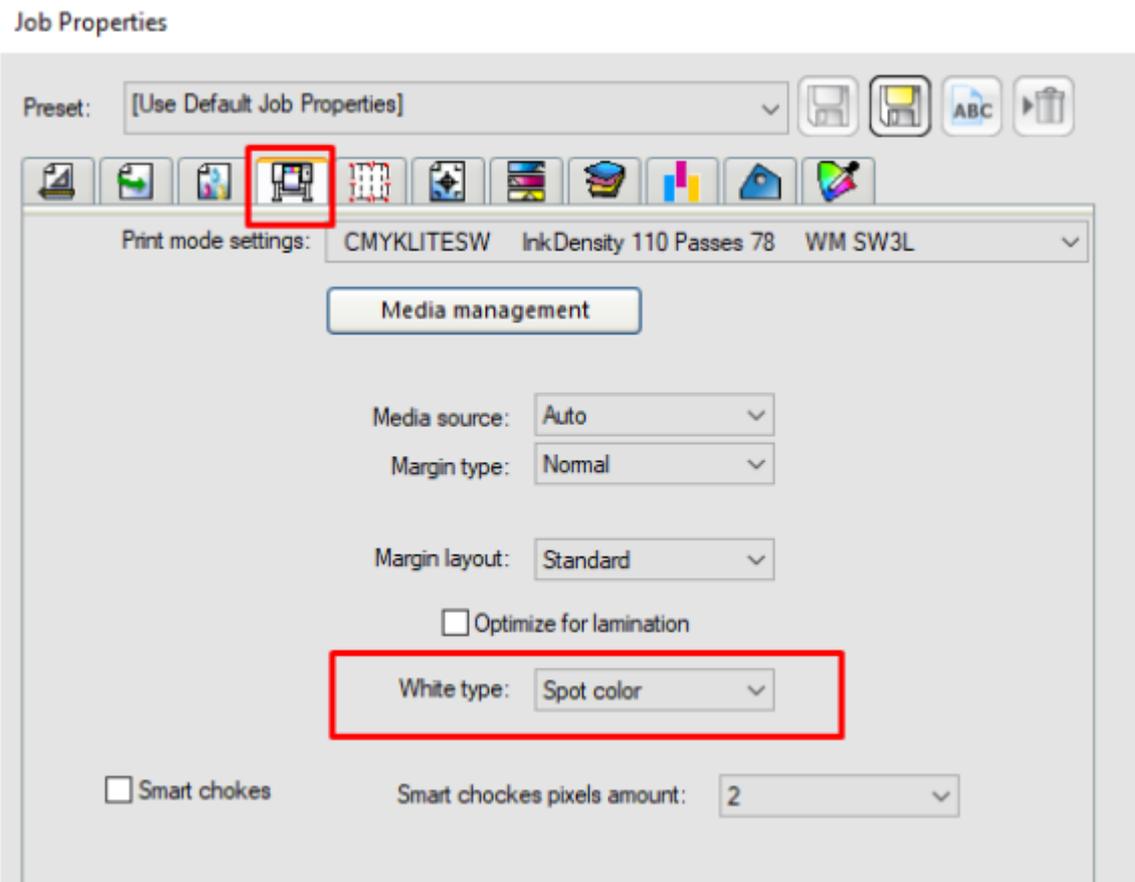
- a. In Production Manager load the **Side A, White Layer, and Side B** jobs.



- b. In the **Side A** job open the **Job Properties**.
- c. In the **Color Management** tab be sure to set the right print mode for the sandwich job.

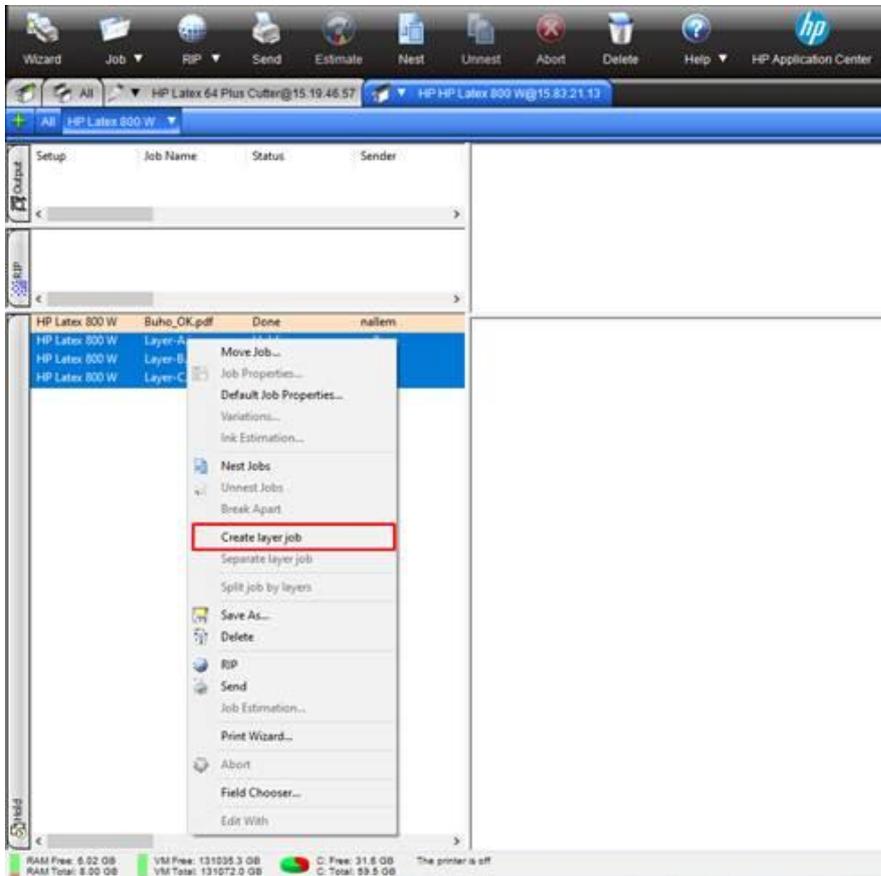


- d. In the **Printer Options** tab set the **White type** to **Spot color**.

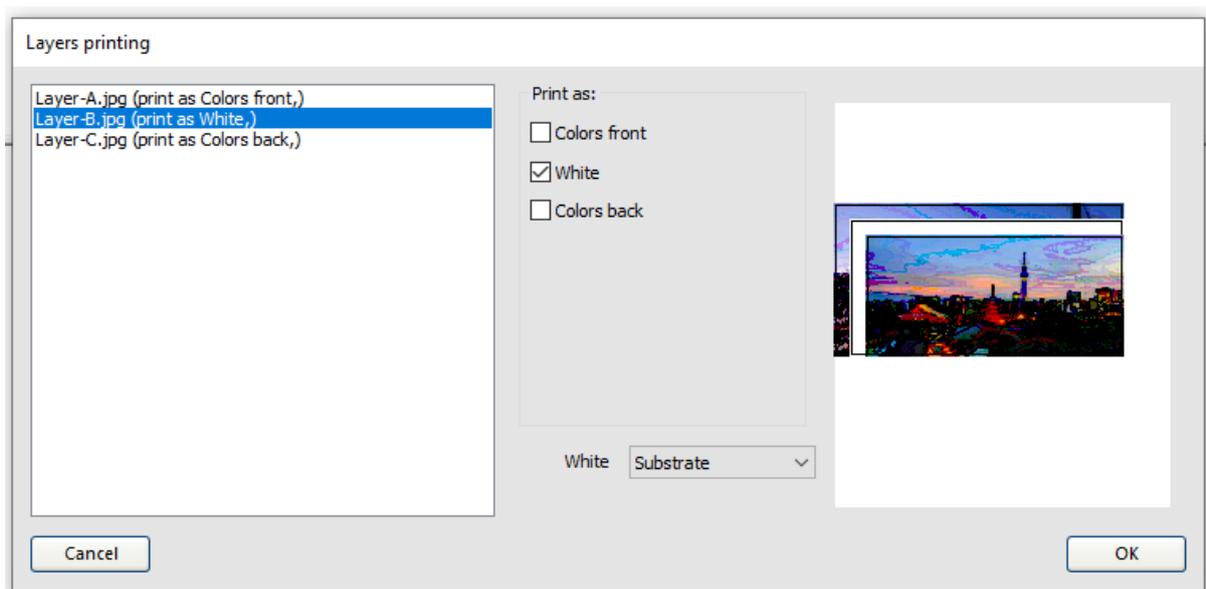


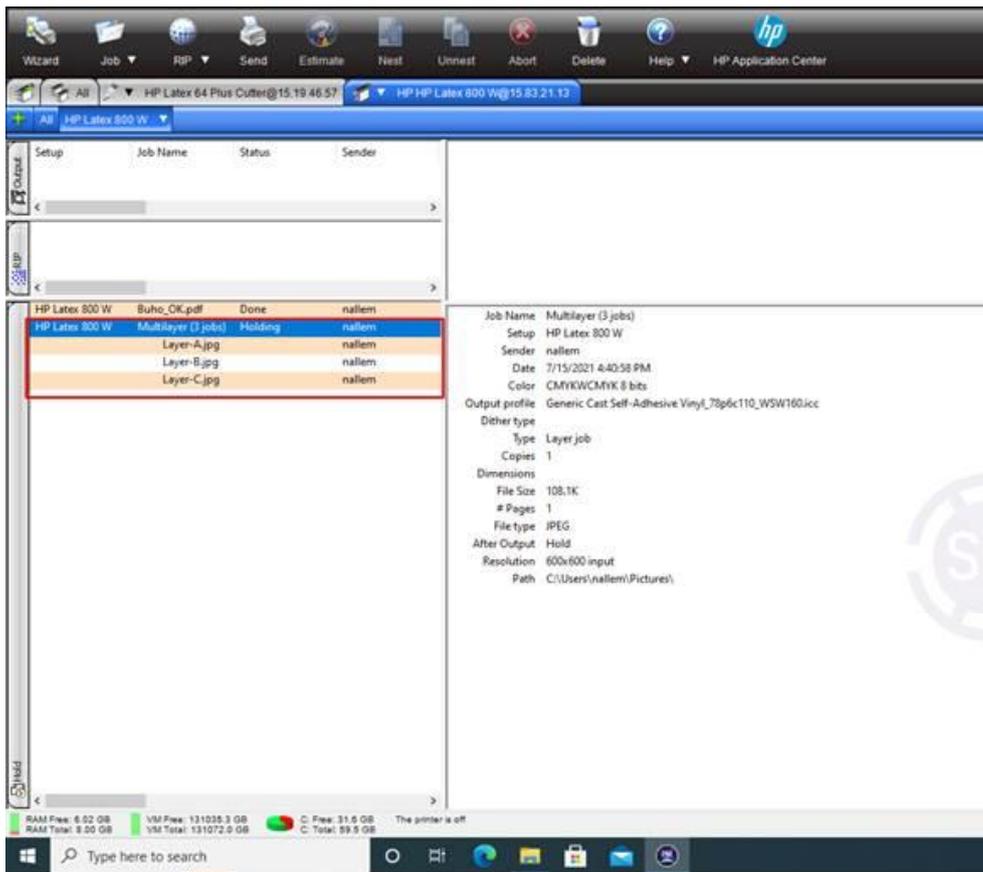
- e. Repeat steps b and c for the **White Layer** job.

- f. In the **Printer Options** tab set the **White type** to **Substrate**.
- g. Repeat steps b, c, and d for the **Side B** job. (Side B as Spot color).
- h. Select all jobs: Side A, White Layer, and Side B, and select the option **Create a layer job** (use the right mouse button to open the menu).

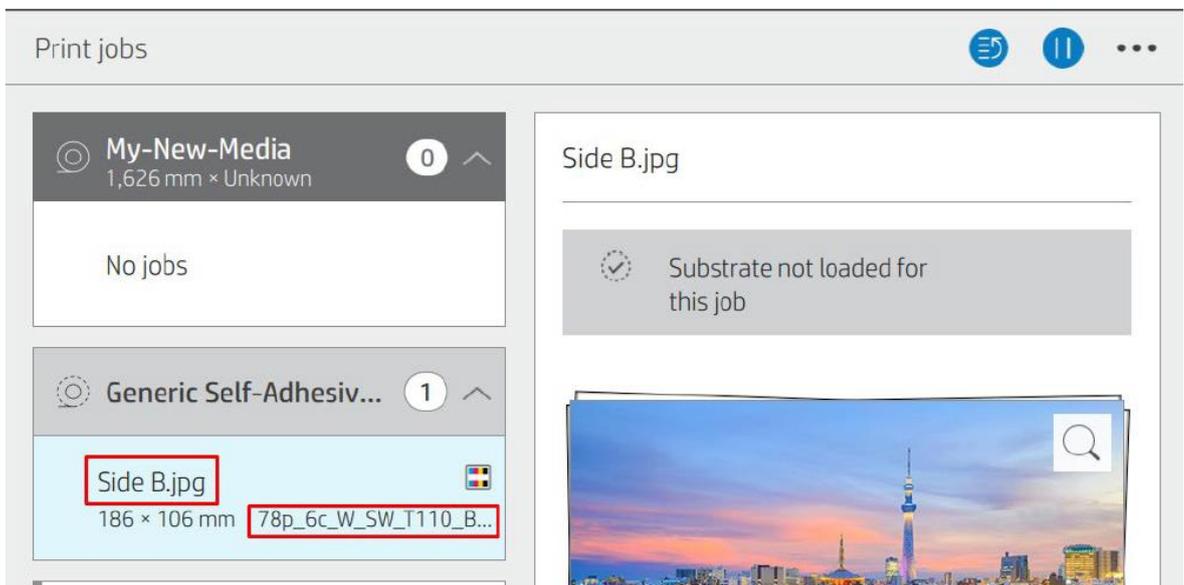


- i. Put the jobs in the right order (CMYK+W+CMYK) and then just click the **OK** button in the **Layers printing** window.





- j. The Production Manager will first RIP the 3 jobs and then it will send the jobs to the printer (in the printer queue you will see only one job with the name of the **Side B** job).



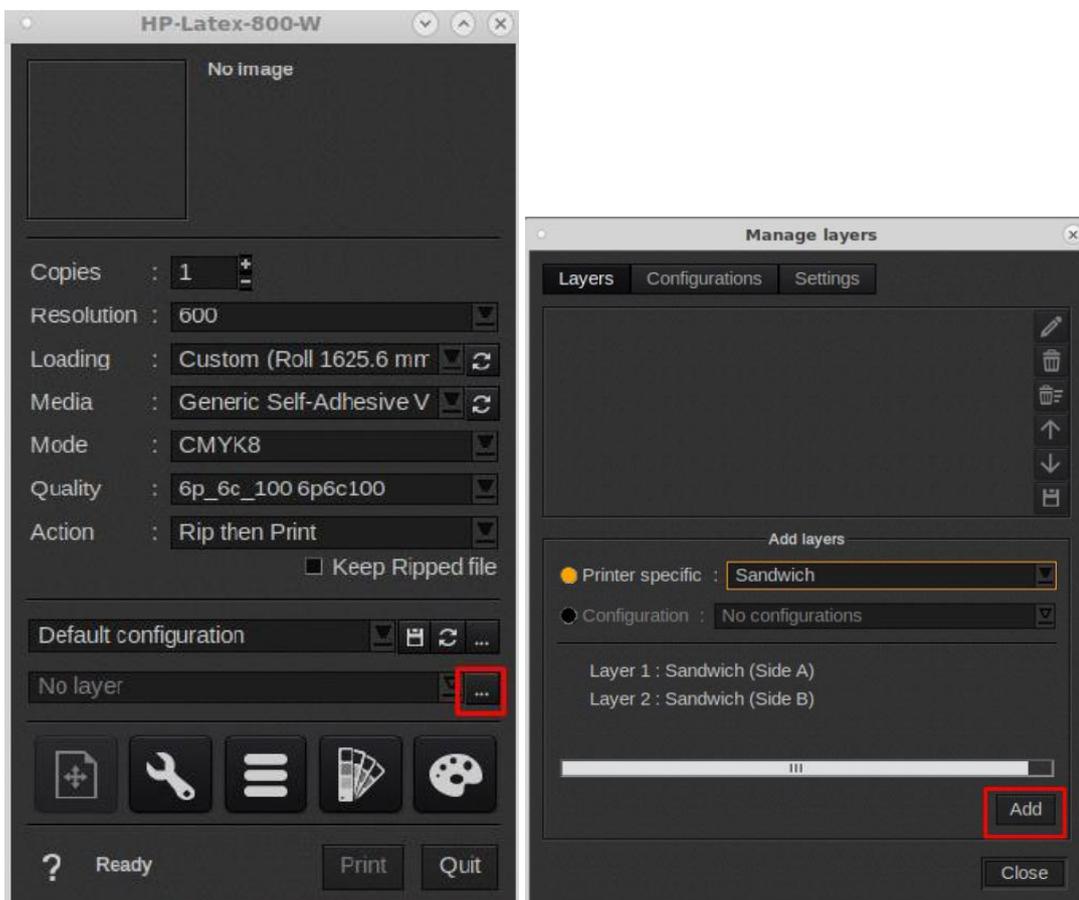
ii. [Caldera](#)

Considerations

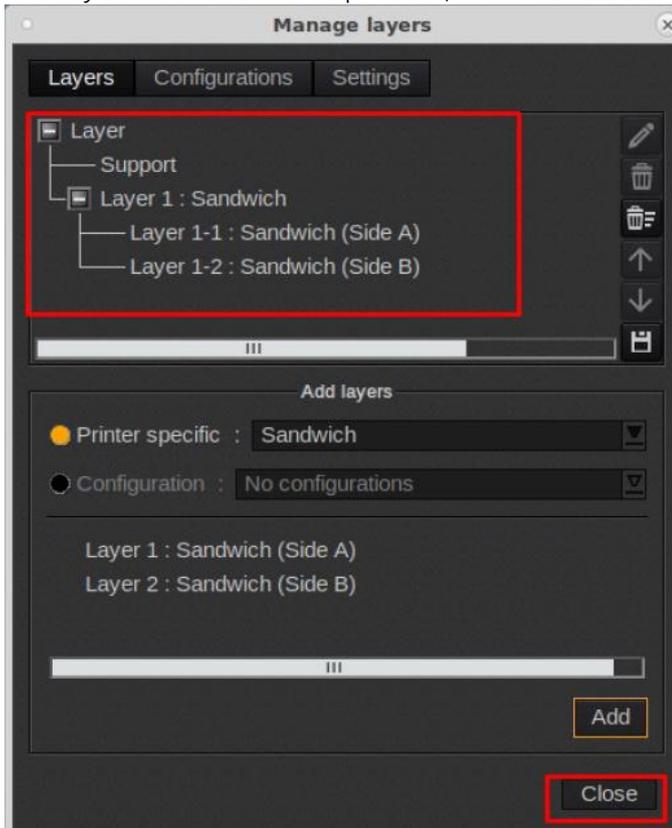
- It is not possible to nest different sandwich jobs.
- It is not possible to make copies of sandwich jobs.
- It is not possible to do Print&Cut jobs.

How to

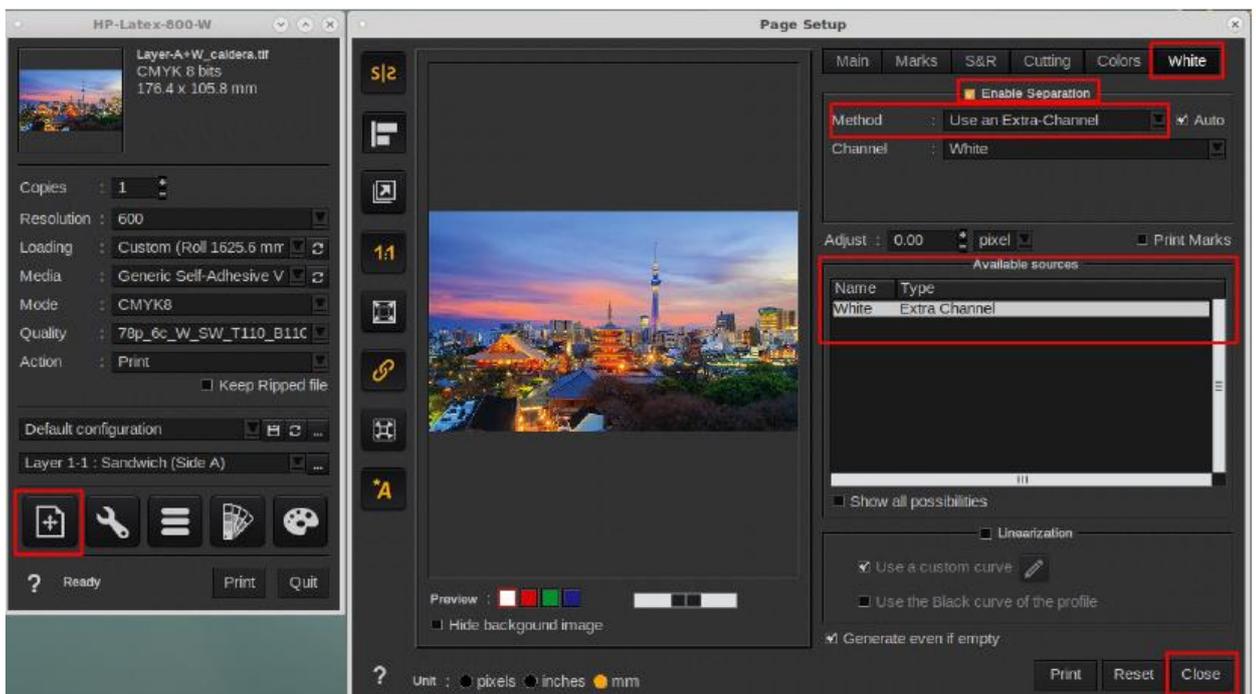
- To start the sandwich, click the button with three dots (...).
- In the **Manage Layers** window, click the **Add** button.



- c. The layer structure will be present, now click **Close**.

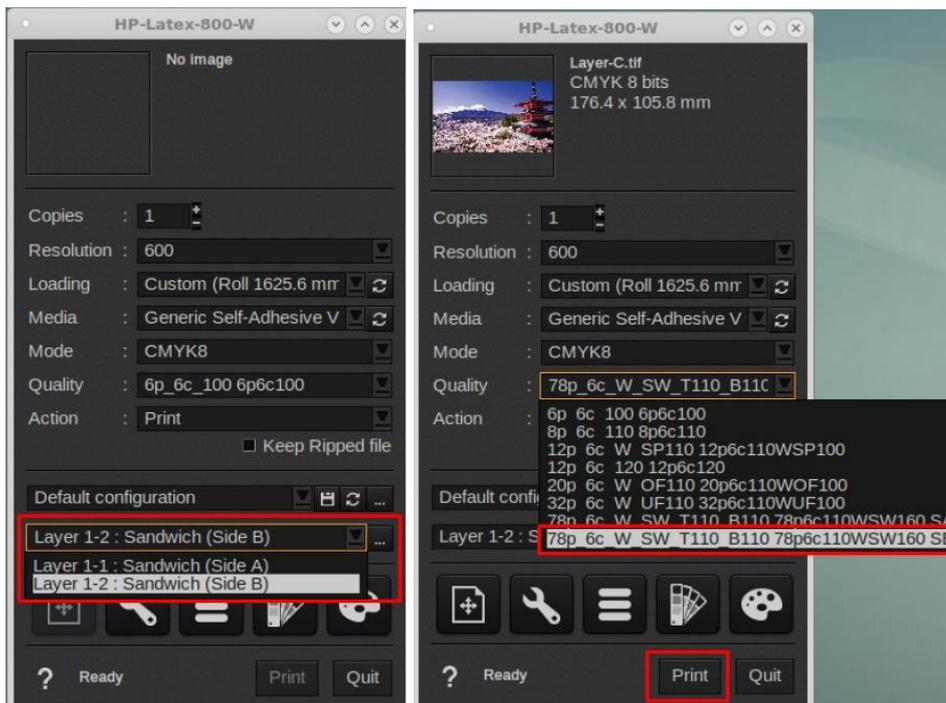


- d. Load the **Side A** image to the driver window, you will need to set the right print mode.
 e. Add the extra white layer to the **Side A** image.

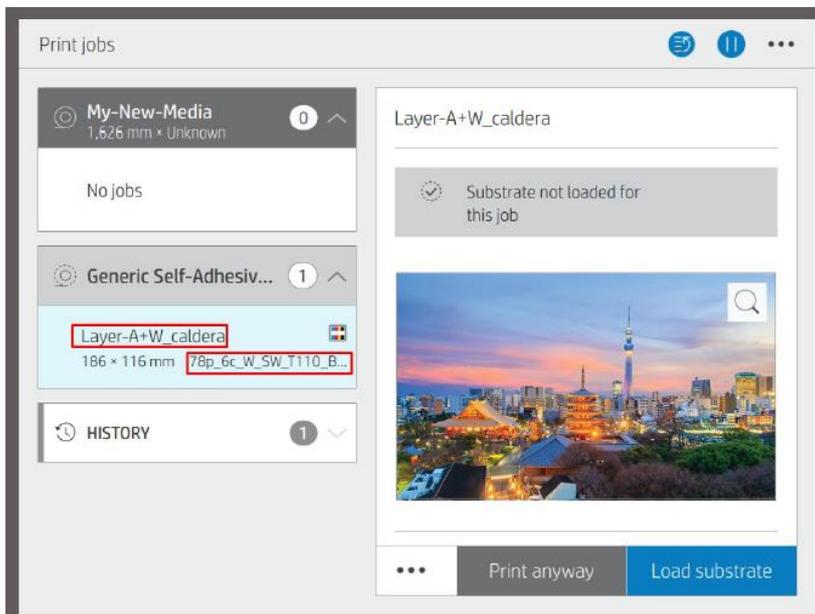


- f. To load the **Side B** image to the Driver window you need to select the **Layer 1-2: Sandwich (Side B)** option on the menu.
 g. Select the appropriate print mode.

h. Send to print.



i. On the printer front panel, you will see the following.



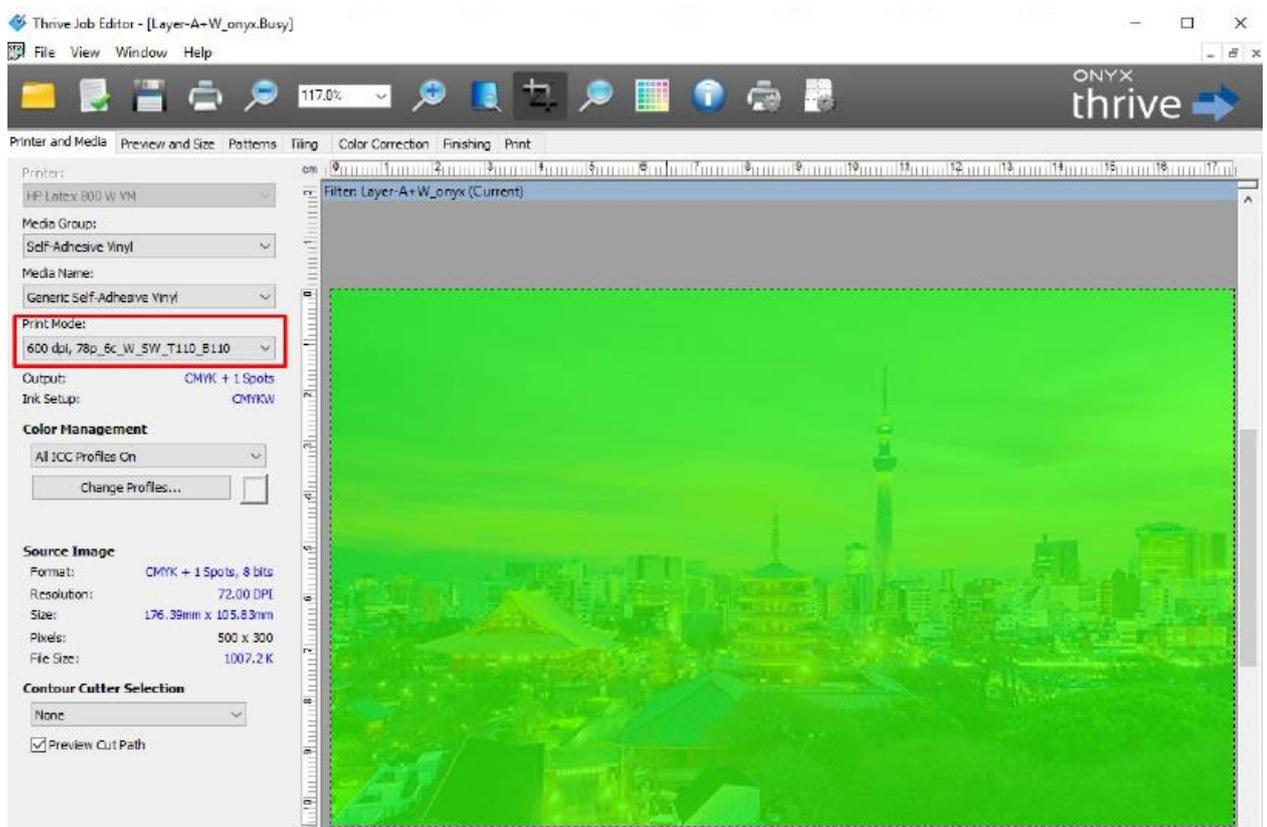
iii. ONYX

Considerations

- It is not possible to nest different sandwich jobs.
- It is not possible to do Print&Cut jobs.
- When making copies and using the RIP to create the white layer, add the white layer after selecting the number of copies needed.

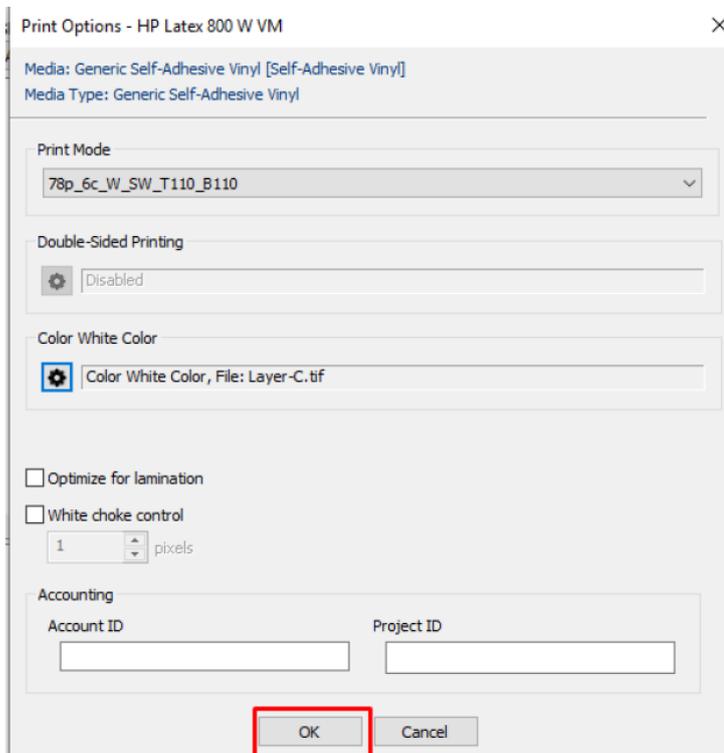
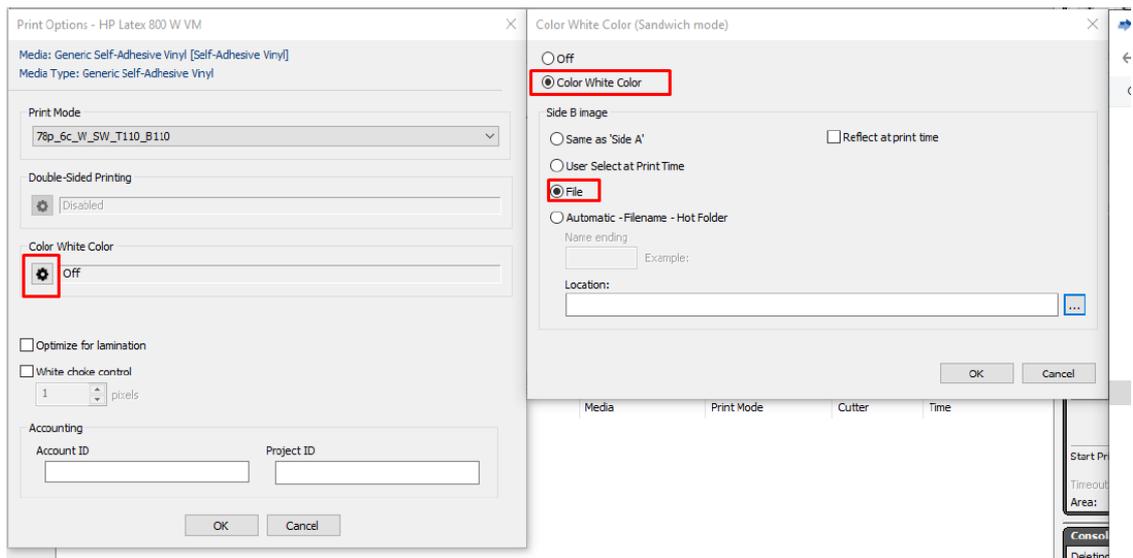
How to

- a. Load the **Side A** job and open it in job editor.
- b. In the **Printer and Media** tab set the right sandwich print mode, the RIP will automatically detect the white layer of the job and will represent it as a light green.
- c. Go to the **Print** tab and press the **Submit** button.



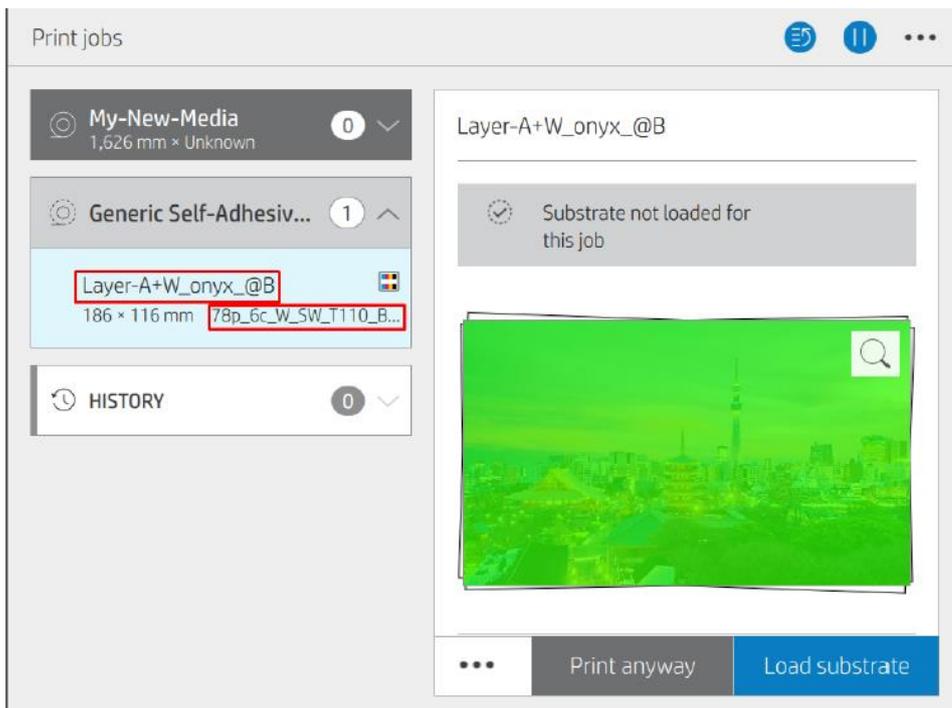
- d. In the Rip Queue just click the job with the right mouse button and select the option **Edit and Printer Settings**.
- e. Click the **Gear** button to open the **Color White Color** window.
- f. In the **Color White Color (Sandwich mode)** window first click the **Color White Color** radio button.
- g. On the **Side B** image group select the option **File** and click the button with three dots (...). In the next window select the image of **Side B** and click the **Open** button.

h. When it finishes, click **OK**.



- i. From the RIP Queue just press the **Print Now** button.
- j. You will see that **Side A** will be moved to the bottom of the RIP window and **Side B** will remain in the top window.
- k. Click the **Print Now** button again to send **Side B** to the printer. (*the job will only be displayed on the printer queue after sending the **Side B** job, and the name of the job will be <Side B>_@B*).

- l. On the printer front panel, you will see the following.



3. Firmware considerations:

If you want to add the new white print modes available with the last firmware to profiles created before the upgrade, you will have to:

- Clone from a generic and create a new preset.
- To add them to an existing preset and keep the settings, CLC, etc., proceed as follows:
 - Batch export all the custom presets through the Embedded Web Server or Print OS Configuration center.
 - Batch import.
 - Reboot the printer.