



# Technical Newsletter: Working with Non-HP Papers

Updated version for Firmware 5.0.0.4 – Second version

June 1<sup>st</sup> 2007



## **When working with non-HP papers you may be wondering how do I use them correctly with the HP Designjet Z2100 and Z3100 Photo Printer series.**

In this market place there are many different papers and many different brands to choose from, so it is very important to select the correct paper preset while both loading the paper and printing from the driver.

The table on the next page shows the recommended paper settings for some of the top papers in the market. To optimize their use, after loading the paper with the recommended settings, you will need to calibrate and then profile the paper.

For creating the ICC profile, you have different options: either you can profile the paper using the HP Color Center or you can use a profile developed externally (maybe by a colleague of yours or by the paper manufacturer). Details about how to profile your paper can be found in the [Appendix: Different ways to work with non-HP papers](#) section.

In case your paper does not appear in the next page, we also explain the different settings behind each paper preset or paper setting; this will help you to select the profile most suitable for your paper. You can find this table in [Appendix: Selecting the paper preset that best matches your paper](#).

In this second version of the document, we have added more papers from Moab and Canson manufacturers. The table below describes in detail each of the columns of the table on next page:

<b>Company</b>	Name of the paper manufacturer
<b>Name</b>	Paper name (English)
<b>Front Panel &amp; Driver selection</b>	Paper settings recommended in the front panel, at the time of loading media, and when printing from the hp driver.  <i>When the setting is highlighted with light orange this means that you will need to download the paper preset from the HP Knowledge Center. After the table you will find further details.</i>

<b>NON-HP PAPERS &amp; PAPER SETTINGS RECOMMENDED (1/2)</b>		
<b>Company</b>	<b>Name</b>	<b>Front Panel &amp; Driver selection</b>
<b>Crane</b>	Crane Museum Portofio Rag Crane Museum Silver Rag	Fine Art Material > Fine Art Paper >250 g/m2 Custom >Fine Art Pearl (more ink)
<b>Hahnemühle</b>	Hahnemühle Fine Art Paper Hahnemühle German Eaching 310 gsm Hahnemühle Photo Rag 308 gsm Hahnemühle Photo Rag < 250 gsm Hahnemühle Photo Rag > 250 gsm Hahnemühle Natural Art Duo Hahnemühle Photo Glossy Hahnemühle Photo Rag Duo Hahnemühle Torchon Hahnemühle Fine Art Pearl Hahnemühle Photo Rag Satin Hahnemühle Photo Rag Bright White Hahnemühle William Turner Hahnemühle Albert Duerer Hahnemühle White Eaching Hahnemühle White Eaching Satin Hahnemühle Museum Eaching Hahnemühle Canvas Artist Hahnemühle Fine Art Canvas Hahnemühle Canvas Satin	Fine Art Material >Fine Art Paper Fine Art Material >Fine Art Paper >250 g/m2 Fine Art Material >Fine Art Paper Fine Art Material >Fine Art Paper Fine Art Material >Fine Art Paper Fine Art Material >Fine Art Paper >250 g/m2 Fine Art Material >Fine Art Paper Photo Paper > Photo Gloss Paper Fine Art Material >Fine Art Paper >250 g/m2 Fine Art Material >Fine Art Paper >250 g/m2 Custom >Fine Art Pearl (more ink) Photo Paper > HP Premium ID Satin Fine Art Material >Fine Art Paper >250 g/m2 Fine Art Material >Fine Art Paper Fine Art Material >Fine Art Paper Fine Art Material >Fine Art Paper Photo Paper > HP Premium ID Satin Fine Art Material >Fine Art Paper >250 g/m2 Fine Art Material >Fine Art Paper + Cutter OFF Fine Art Material >Fine Art Paper + Cutter OFF Custom > Photo SG/Satin (less ink)
<b>Ilford</b>	Ilford Gallerie Smooth Pearl Paper 290 gsm Ilford Gallerie Smooth Gloss 290 gsm	Custom > Photo SG/Satin (less ink) Custom > Photo SG/Satin (less ink)
<b>Innova</b>	Innova F-Type Glossy Innova F-Type Semi-Matte	Custom >Fine Art Pearl (more ink) Custom >Fine Art Pearl (more ink)
<b>Kodak</b>	Kodak Premium Rapid Dry Photo Luster 260gsm Kodak Professional Photo Paper Luster 255gsm	Custom > Photo SG/Satin (less ink) Photo Paper > Photo Gloss Paper
<b>Somerset</b>	Somerset Velvet Enhanced	Fine Art Material >Fine Art Paper >250 g/m2
<b>Fuji</b>	Fujifilm FA Photo Rag 300 gsm Fujifilm Pearl Photo Paper 290 gsm Fujifilm Paper Satin 270 gsm Fujifilm Paper Semi-Gloss 240 gsm Fujifilm Paper High Gloss Photo Paper Fujifilm Photo Paper Glossy 240 gsm Fujifilm Photo Paper Satin 270 gsm Fujifilm HD White Cotton Canvas 400 gsm Fujifilm Artist Canvas 340 gsm Fujifilm Art Photo rag Paper 300 gsm Fujifilm Art Etch Paper 300 gsm Fujifilm Fine Art Museum Smooth Rag Paper 300 Fujifilm Premium SemiGloss Paper 240 gsm	Fine Art Material >Fine Art Paper >250 g/m2 Custom > Photo SG/Satin (less ink) Photo Paper > HP Premium ID Satin Custom >Fine Art Pearl (more ink) Custom >Fine Art Pearl (more ink) Photo Paper > HP Premium ID Gloss Photo Paper > HP Premium ID Satin Fine Art Material > Canvas Fine Art Material > Canvas Fine Art Material >Fine Art Paper >250 g/m2 Fine Art Material >Fine Art Paper >250 g/m2 Fine Art Material >Fine Art Paper Custom >Fine Art Pearl (more ink)
<b>Tetenal</b>	Tetenal Photo Glossy Paper 272 gsm Tetenal Photo Semi Matte Paper 240 gsm	Photo Paper > HP Premium ID Gloss Photo Paper > HP Premium ID Satin
<b>Moab</b>	Moab Entrada Fine Art Bright 300gsm	Fine Art Material >Fine Art Paper >250 g/m2

NON-HP PAPERS & PAPER SETTINGS RECOMMENDED (2/2)		
Company	Name	Front Panel & Driver selection
<b>Canson</b>	Arches Pure White Textured 240g	Fine Art Material >Fine Art Paper
	Arches Natural Textured 310g	Fine Art Material >Fine Art Paper
	Canson Mi Teintes Digital Ivory	Fine Art Material >Fine Art Paper
	Canson Montval Torchon digital 280g	Fine Art Material >Fine Art Paper >250 g/m2
	Canson WaterColor Digital 210g	Fine Art Material >Fine Art Paper
	Arches Natural Soft 240g	Fine Art Material >Fine Art Paper
	ArchesPure White Soft 240g	Fine Art Material >Fine Art Paper
	Canson Mi Teintes Digital Blanc	Fine Art Material >Fine Art Paper

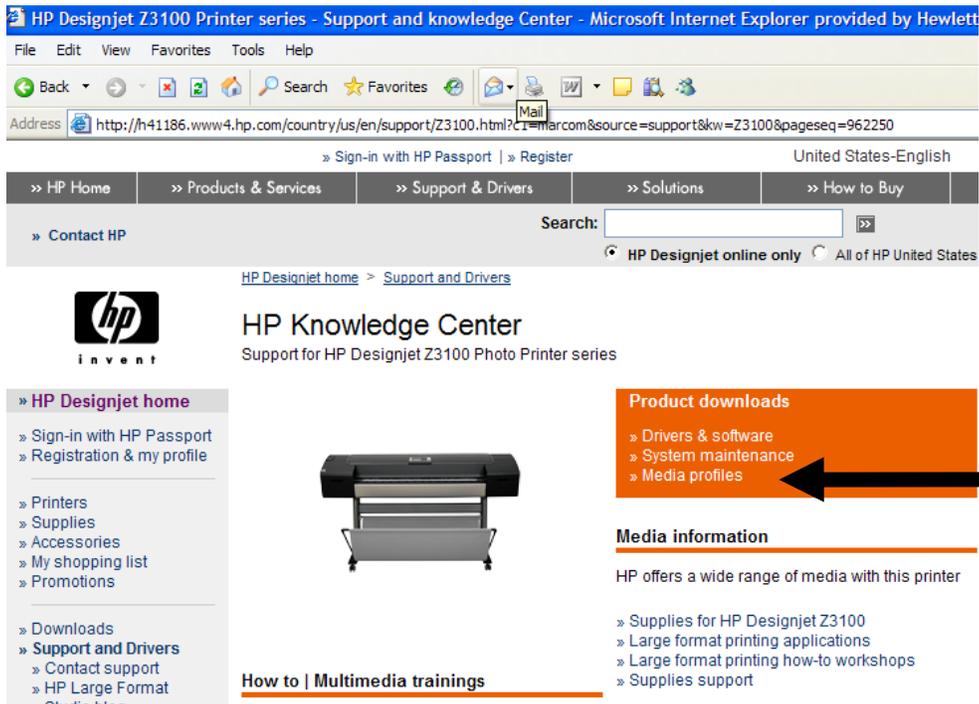
**Please note that people using above media are also using and recommend the list of HP products listed at the HP Papers Portfolio section at the end of this document.**

### Downloading Paper Presets

In case you need to download a paper preset from the **HP Knowledge Center**, you can use the links here:

<b>Z3100</b>	<a href="http://www.hp.com/go/knowledge_center/djz3100">http://www.hp.com/go/knowledge_center/djz3100</a>
<b>Z2100</b>	<a href="http://www.hp.com/go/knowledge_center/djz2100">http://www.hp.com/go/knowledge_center/djz2100</a>

Click on the Media Profiles to access HP Paper Presets downloading page



## APPENDIX

### Selecting the Paper Preset that Best Matches Your Needs

In case your paper did not appear in the previous table, here you have some information to help you choose the right category for your paper:

<b>Paper Type</b>	<p>This is the name that is displayed in the driver &amp; the front panel (the English version). The part highlighted in yellow is the unique attribute relative to the other papers in the same category</p> <ul style="list-style-type: none"> <li>Table A: Non-HP branded papers available through “Custom Paper”</li> <li>Table B: HP-branded papers available through “Add new paper.”</li> </ul>	
<b>Gloss Enhancer</b>	<b>Yes (Y) / No(N):</b> Whether or not the HP Gloss Enhancer can be used (applies to Glossy, Semi-Gloss/Satin, & Pearl finishes)	
<b>Borderless</b>	<b>Yes (Y) / No (N):</b> Whether you can print without margins (this applies to roll media only).	
<b>Carriage Height</b>	<b>High (H) / Low (L):</b> Carriage height has 2 positions. It is recommended that for paper with a weight over 250g, you select a paper type with a “High” setting, this is to avoid the print head’s crashing into the paper.	
<b>Printing Black</b>	<p><b>Photo Black (P) / Matte Black (M) / HP Quad-black (Q):</b> This setting indicates which inks are used when printing the color black:</p> <ul style="list-style-type: none"> <li>Photo black + grays</li> <li>Matte black + grays</li> <li>The full HP Quad-black system (matte black + photo black + 2 levels of gray).</li> </ul> <p><i>Note: Quad black applies only to the HP Designjet Z3100; the HP Designjet Z2100 uses up to 3 blacks (matte black, photo black and gray).</i></p>	
<b>Ink Limit</b>	Total amount of ink that the paper can absorb to maximize gamut without causing image quality problems. This setting is expressed in pico-liters (or nano-grams) per $1/600^{\text{th}} \times 1/600^{\text{th}}$ inch paper area (divide by 4 for $1/1200^{\text{th}}$ by $1/1200^{\text{th}}$ inch area). In general we can say that the higher the ink limit, the higher the gamut.	
<b>Print mode</b>  <i>Best Quality or slider in the right position</i>	Rendering resolution (RR)	Resolution at which the image is rasterized/processed in the host (in pixels per printed inch, or <i>ppi</i> )
	Printing Resolution (PR)	Resolution at which the image is printed (in dots per inch, or <i>dpi</i> )
	Other info (OI)	<p># passes Typically, the higher the numbers of passes, the better the image quality, but at a lower speeds. Also, papers such as glossy media, need a longer drying time, that will generally require a higher number of passes.</p> <p>Bidirectional Whether printing when the carriage is traveling in a single direction only (Unidirectional) or in both directions (Bi-directional). Unidirectional modes typically give a better image quality – depending on the number of passes – but at lower speeds.</p>
<b>Automatic Cutter</b>	<b>Yes (Y) / No (N):</b> Whether or not cutting will be performed. Even if Yes is selected, you can still disable actual cutting later through the driver. However, if “No” is selected here, you cannot re-enable it through the driver.	

Table A Non-HP Paper Type		Gloss Enhancer	Borderless	Carriage Height	Printing Black	Ink Limiting	Print Mode (Best)			Auto Cutter
							RR	PR	OI	
Photo Paper	Photo Gloss Paper	Y	Y	L	P	36	600	1200x1200	16p Bidi	Y
	Photo Gloss Paper (more ink)	Y	Y	L	P	46				Y
	Photo Gloss Paper (less ink)	Y	Y	L	P	32				Y
	Photo Semi-gloss/Satin paper	Y	Y	L	P	36				Y
	Photo Semi-gloss/Satin paper (more ink)	Y	Y	L	P	46				Y
	Photo Semi-gloss/Satin paper (less ink)	Y	Y	L	P	32				Y
	Photo Matte Paper	N	N	H	M	30			8p Uni	Y
Proofing Paper	Proofing Gloss Paper	Y	Y	H	P	36	600	1200x1200	16p Bidi	Y
	Proofing Semi-Gloss/Satin Paper	Y	Y	H	P	36				Y
	Proofing Matte Paper	N	N	H	M	30			8p Uni	Y
Fine Art Paper	Canvas	N	N	H	M	42	600	1200x1200	16p Bidi	N
	Fine Art paper	N	N	H	M	42			8p Uni	Y
	Fine Art paper >250 g/m <sup>2</sup>	N	N	H	Q	60			Y	
	Fine Art Pearl Paper (more ink)	Y	Y	H	P	46			16p Bidi	Y
	Fine Art Pearl Paper (less ink)	Y	Y	H	P	32			Y	
Coated	Super Heavyweight Coated <sup>1</sup>	N	N	H	Q	50	600	1200x1200	8p Uni	Y
	Heavyweight Coated	N	N	H	M	30				Y
	Coated (incl. Bond)	N	N	H	M	22			6p Uni	Y
Plain	Plain (recycled)	N	N	H	M	20	600	1200x1200	6p Bidi	Y

<sup>2</sup> Starting with firmware version 5.0.0.4, both matte and photo black inks are applied. Previous to this version, photo black was not used in this mode.

Table B HP Paper Type		Gloss Enhancer	Borderless	Carriage Height	Printing Black	Ink Limiting	Print Mode (Best)			Auto Cutter
							RR	PR	OI	
Photo Paper	HP Premium Instant-Dry Photo Gloss	Y	Y	L	P	46	600	1200x1200	16p Bidi	Y
	HP Premium Instant-Dry Photo Satin	Y	Y	L	P	46				Y
	HP Professional Satin Photo Paper	Y	Y	L	P	46				Y
	HP Photo Matte	N	N	H	M	30			8p Uni	Y
Proofing Paper	HP Professional High-Gloss Contract Proofing paper	Y	Y	L	P	46	600	1200x1200	16p Bidi	Y
	HP Professional Semi-Gloss Contract Proofing paper	Y	Y	L	P	46				Y
	HP Proofing Matte	N	N	H	M	30			8p Uni	Y
Fine Art paper	HP Collector Satin Canvas	N	N	H	M	30	600	1200x1200	16p Bidi	N
	HP Professional Matte Canvas	N	N	H	M	42				N
	HP Artists Matte Canvas	N	N	H	M	42				N
	HP Hahnemühle Smooth Fine Art	N	N	H	M	42			8p Uni	Y
	HP Matte Litho-Realistic paper	N	N	H	M	42				Y
	HP Hahnemühle Textured Fine Art	N	N	H	M	42				Y

**IMPORTANT NOTE:** Please take special attention to the following recommendations

- Use borderless on roll media only for high gloss/semi gloss media.
- Do not use the cutter on canvas paper.

## APPENDIX

### Different ways to work with non-hp paper

There are many different papers, from many different brands available in the market. For this reason it is always best to understand what is behind the selections when following the procedure of creating a custom paper.

Apart from knowing which paper preset is recommended (see the table on page 2 called “[Non-HP papers & papers settings recommendation](#)”), you also have to calibrate and profile the paper in order to get the optimal color accuracy. You can calibrate and use a 3<sup>rd</sup> party ICC profile instead of creating one with the HP Embedded Spectrophotometer.

In order to help you through this process, find below a step by step description of the four possible scenarios:

<b>Recommended paper preset is in the Firmware 5.X version</b>	I would like to create an ICC profile with the HP Color Center
	I already have an ICC profile for my paper
<b>Recommended paper preset can be found in the HP Knowledge Center</b> <small>(highlighted in the table with light orange)</small>	I would like to create an ICC profile with the HP Color Center
	I already have an ICC profile for my paper

In the next pages you will find step by step instructions depending on the case and your operating system.

**Note:** *If your printer system utility software version is:*

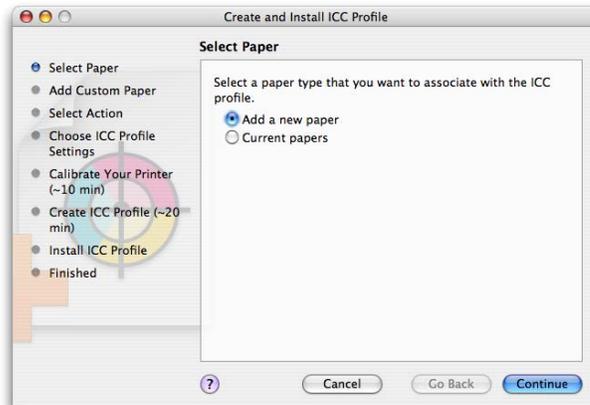
- *For Windows: HP Easy Printer Care < version 2.0*
- *For Mac: HP Print Utility < version 2.5*

*You have either to upgrade to the latest version or change the paper type in the front panel before doing paper calibration and/or profiling.*

**Recommended paper preset is in the Firmware 5.X version  
I would like to create an ICC profile with the HP Color Center**

**Steps for Macintosh users:**

1. Select your Paper Type from Front Panel. See table **“NON-HP PAPERS & PAPER SETTINGS RECOMMENDED”** (Page 3)
2. Go Color Center and select **“Create and Install”** There you will find the following options

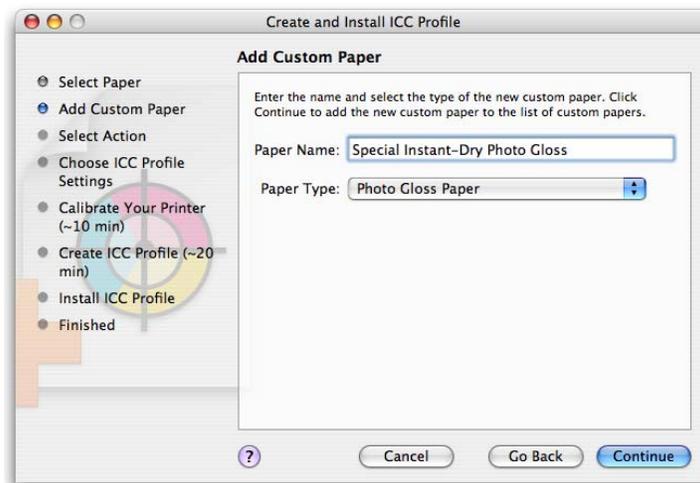


*Screenshot from HP Print Utility - MAC OS X version*

3. Select **“Add**

**New Paper.”**

4. Create a name for your paper (which will be displayed in the driver and in the front panel) and select a paper category which is similar to the type of paper you have.



*Screenshot from MAC OS X version – HP Print Utility*

5. The next step is **selecting the appropriate Paper Preset**. Just select the same entry as shown in **“Front Panel & Driver selection”** the table on page 2. This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.

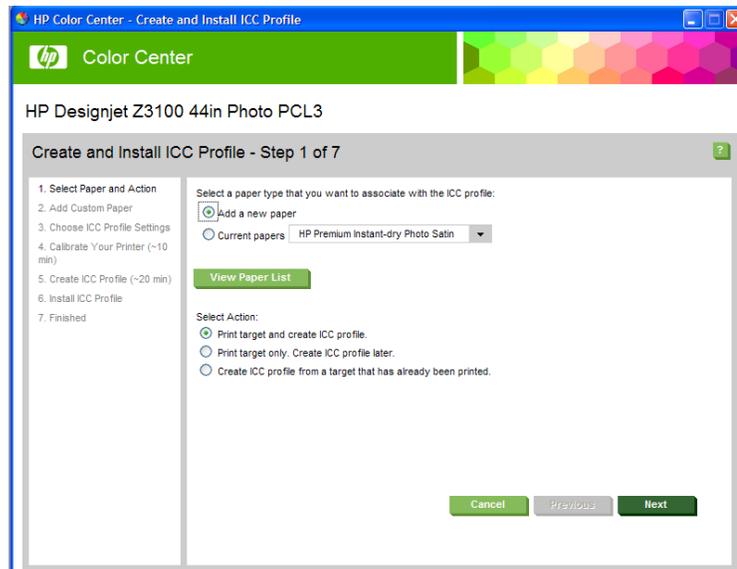
6. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
7. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the “Add new paper” process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

### Steps for Windows users:

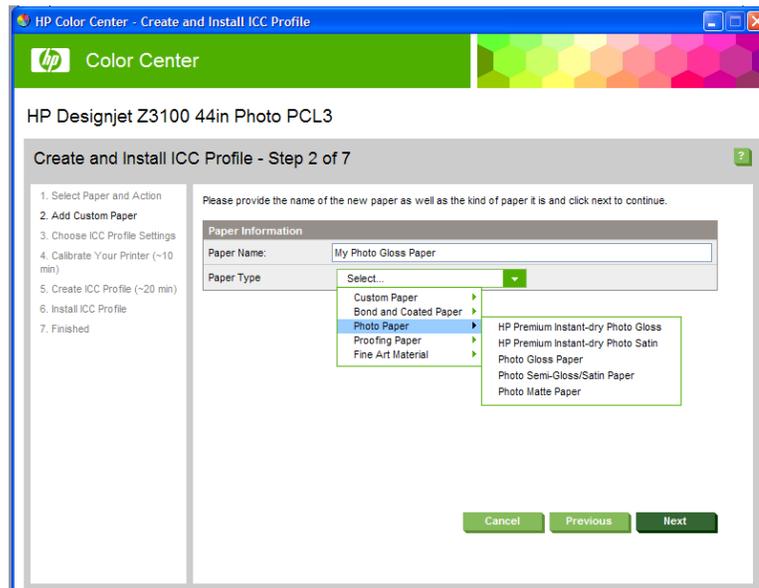
1. Select your Paper Type from Front Panel. **“NON-HP PAPERS & PAPER SETTINGS RECOMMENDED”** (Page 3)
2. Open Easy Printer Care, select **“Create and Install ICC Profile”** There you will find the following options



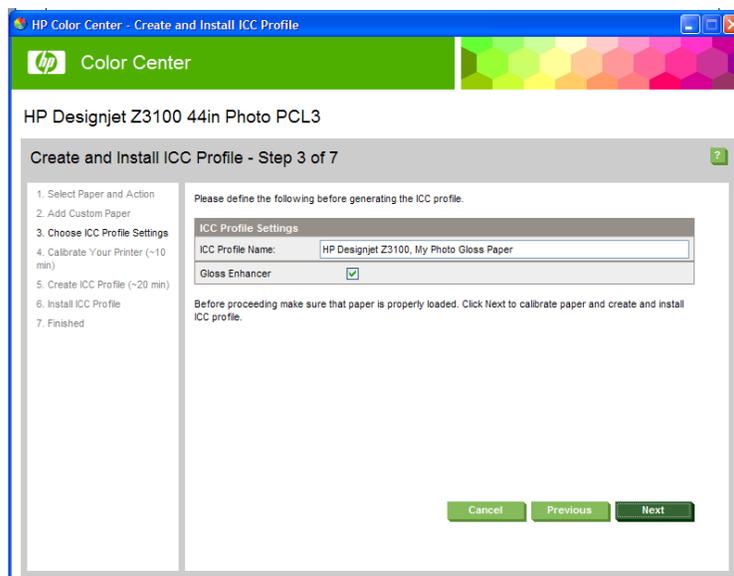
3. Then, select “Add New Paper.”



4. The next step will be to create a name for your paper (which will appear both in the driver and in the front panel) and to select a paper category that is similar to the type of paper you have.



5. The next step is **selecting the appropriate Paper Preset**. This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.

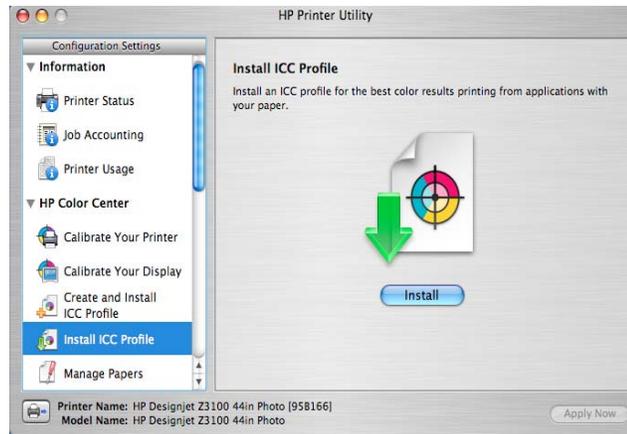


6. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
7. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the “[Add new paper](#)” process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

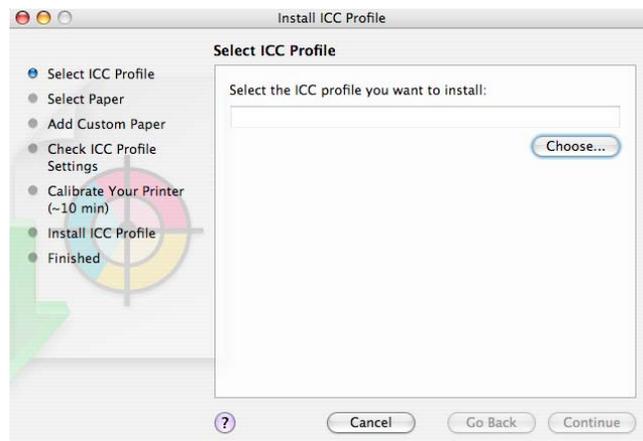
**Recommended paper preset is in the Firmware 5.X version  
I already have an ICC profile for my paper**

**Steps for Macintosh users:**

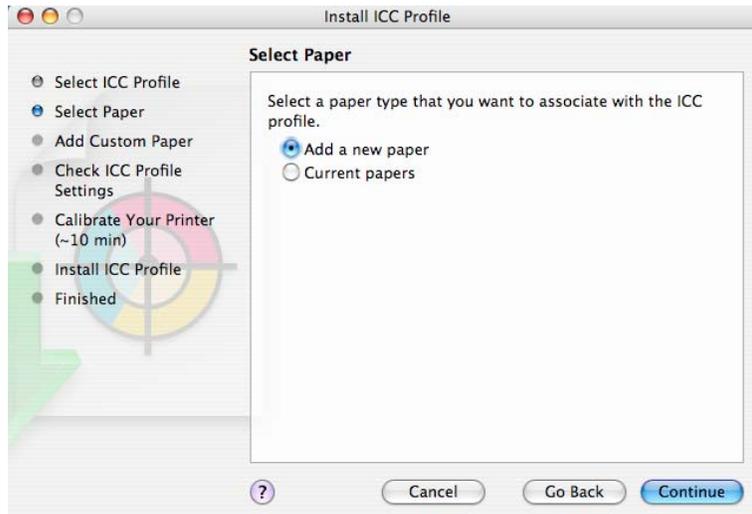
1. Select your Paper Type from Front Panel. **“NON-HP PAPERS & PAPER SETTINGS RECOMMENDED”** (Page 3)
2. Go Color Center and select **“Install ICC Profile”**, select the Install button. There you will find the following options



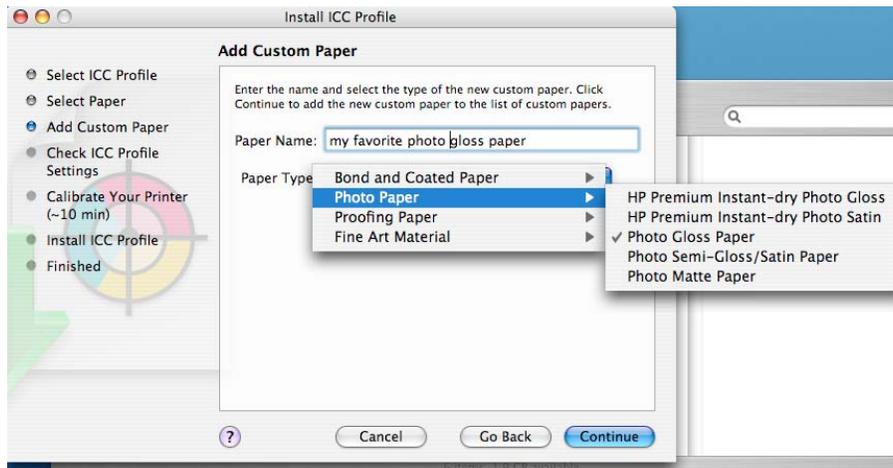
3. Use the browser below to use your personal ICC profile, select the Choose button.



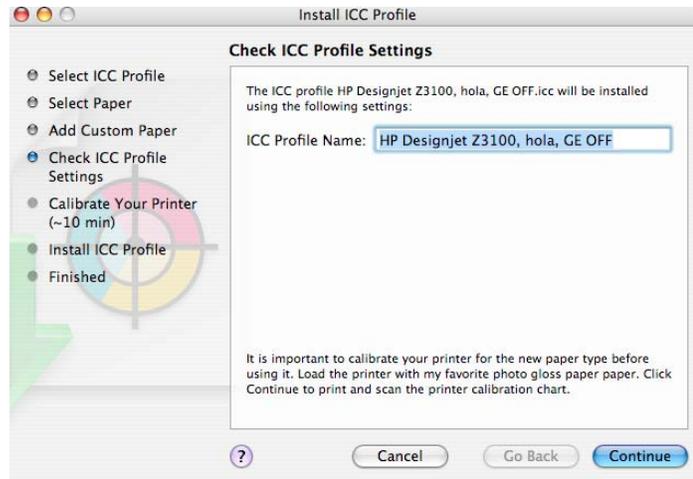
4. In the next window, select the “Add a new paper” option to create a new paper with your personal ICC profile.



5. Create a name for your paper (which will be displayed both in the driver and in the front panel) and select a paper category that is similar to the type of paper you have.



6. Check your ICC profile settings.



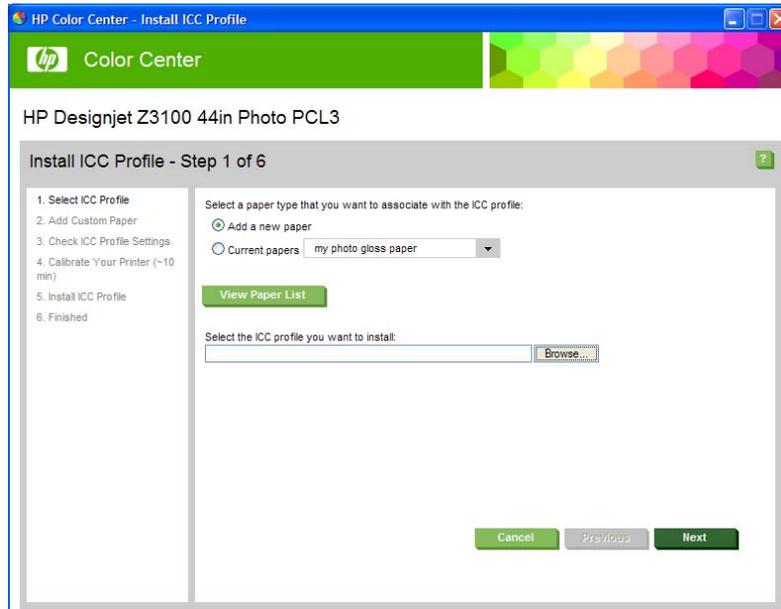
7. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
8. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the “Add new paper” process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

**Steps for Windows users:**

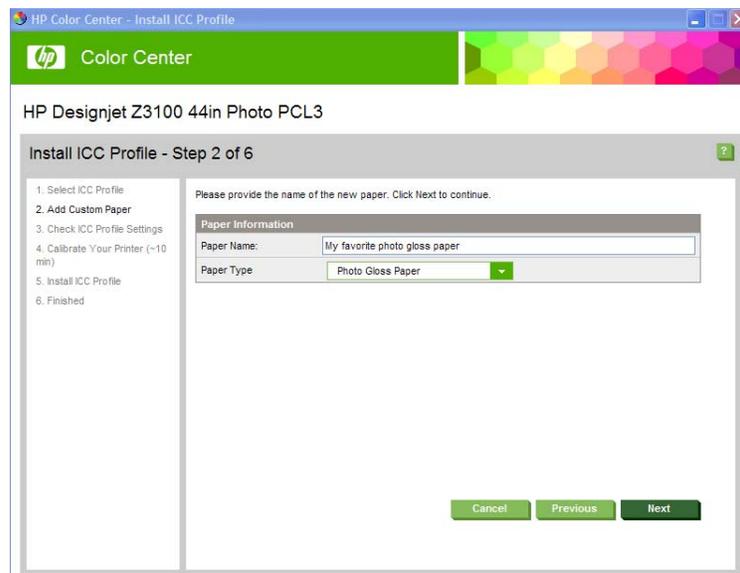
1. Select your Paper Type from Front Panel. **“NON-HP PAPERS & PAPER SETTINGS RECOMMENDED”** (Page 3)
2. Open Easy Printer Care, select **“Install ICC Profile”**. There you will find the following options.



3. Then Select “Add New Paper” and use the browser below to use your personal ICC profile.



4. Create a name for your paper (which will be displayed both in the driver and in the front panel) and to select a paper category that is similar to the type of paper you have.



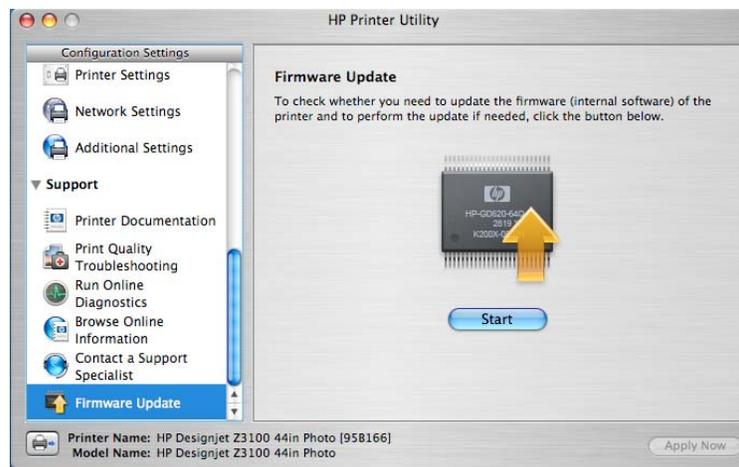
8. The next step is **selecting the appropriate Paper Preset**. Just select the same entry as shown in “Front Panel & Driver selection” the table on page 2. This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.

9. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
10. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the “Add new paper” process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

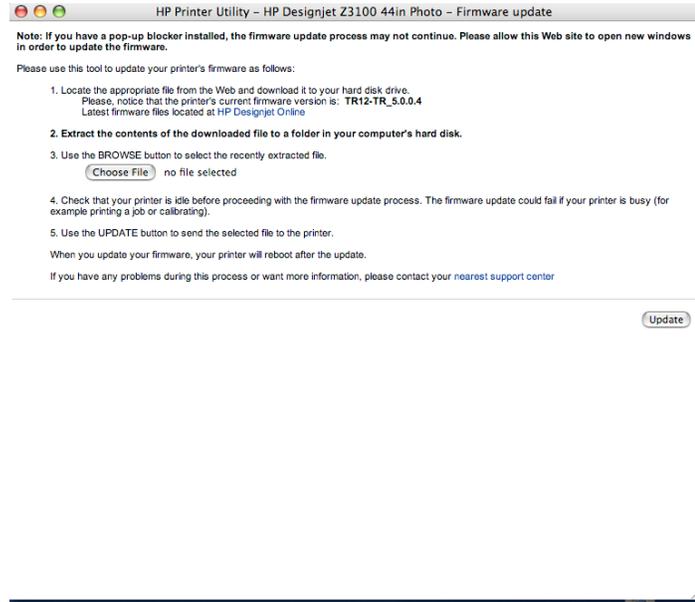
## Recommended paper preset is in the HP Knowledge Center I would like to create an ICC profile with the HP Color Center

### Steps for Macintosh users:

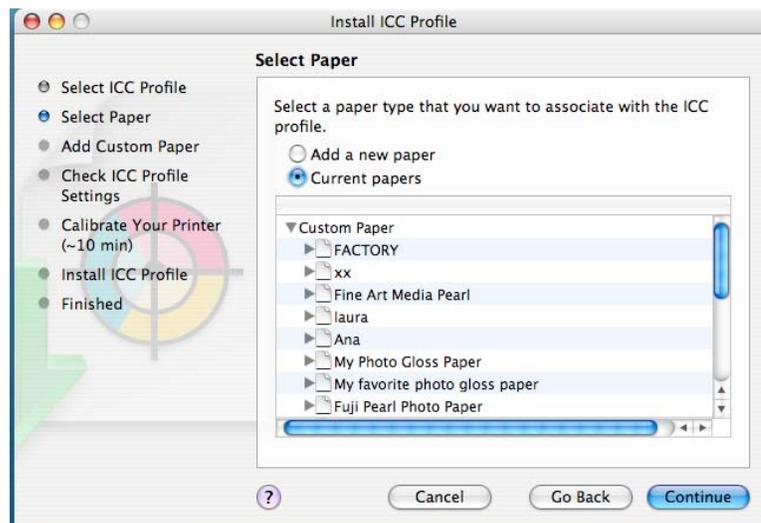
1. Download the Paper Preset from HP Knowledge Center website (see URL in page 3).
2. Save the Paper Preset file to your computer.
3. Go to the Color Center and select “Download Firmware”. Then select the Start button.



4. Use the browser to search and install your downloaded paper preset. Select the Update button. Your front panel will display the updating process. When your printer is updated, your printer will restart automatically.



5. Synchronize your computer with your printer.
6. Go to "Create and Install ICC Profiles".
7. Select "Current Paper" and choose the paper that you need, and select the paper category. This step is **selecting the appropriate Paper Preset**. This is the most **important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.



8. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.

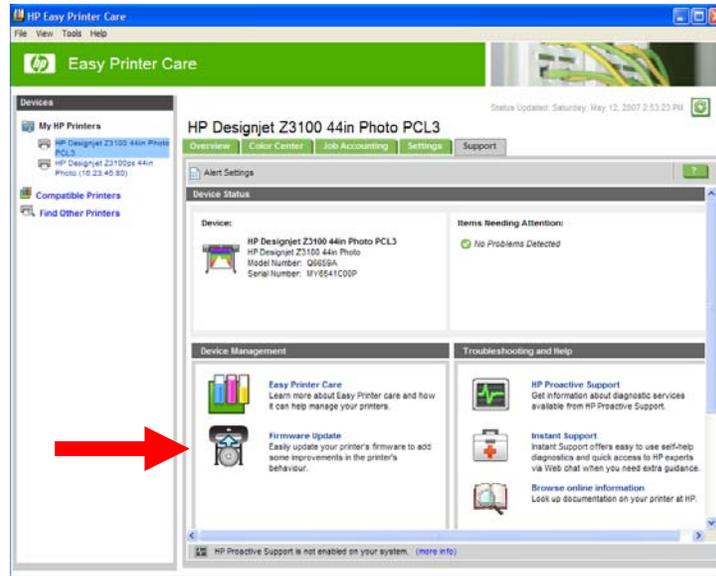
9. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the “Add new paper” process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

### Steps for Windows users:

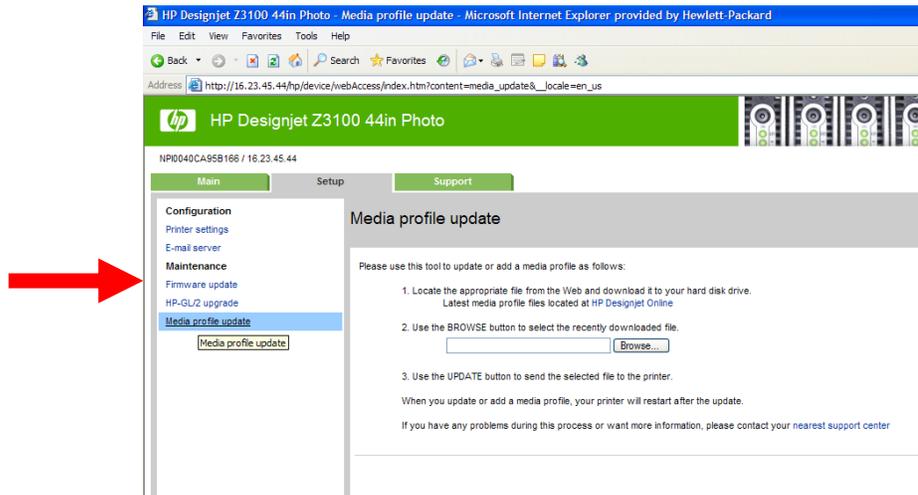
1. Download the Paper Preset from HP Knowledge Center website (see URL in page 3).
2. Save the Paper Preset file to your computer.
3. Open Easy Printer Care, go, and select “Support”. There you will find the following options.



4. Then Select “Firmware Update” option.

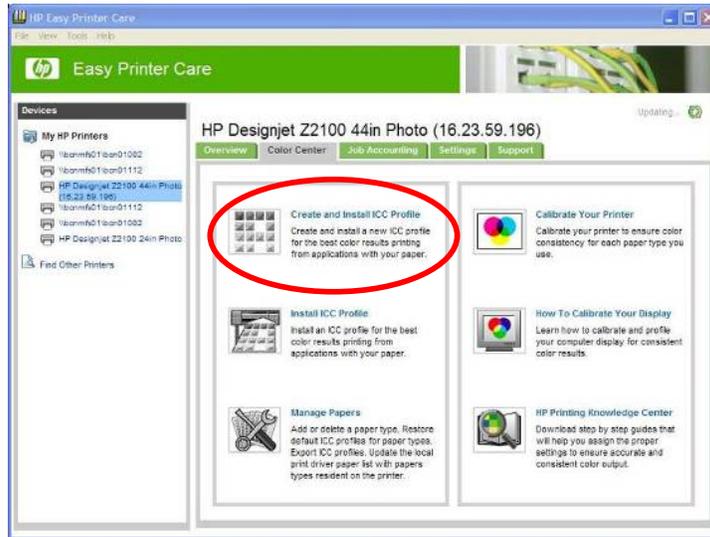


5. Select “Media profile update”. Use the browser to select the paper preset file from your computer, and select it to update. The front panel will display the updating process. When your printer is updated, your printer restarts automatically.

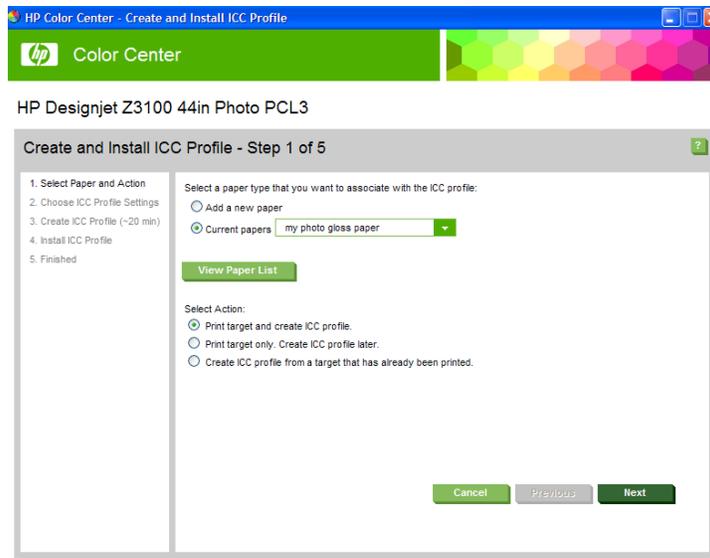


6. Synchronize your printer with the Easy Printer Care refresh button. Now your new paper presets appear in Front Panel, inside the Custom category.

- Open Easy Printer Care, and select “Create and Install”. There you will find the following options.



- Select “Current Papers”, inside custom category select the paper preset that you downloaded previously.



- The next step is **selecting the appropriate Paper Preset**. Just select the same entry as shown in “Front Panel & Driver selection” the table on page 2. This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.

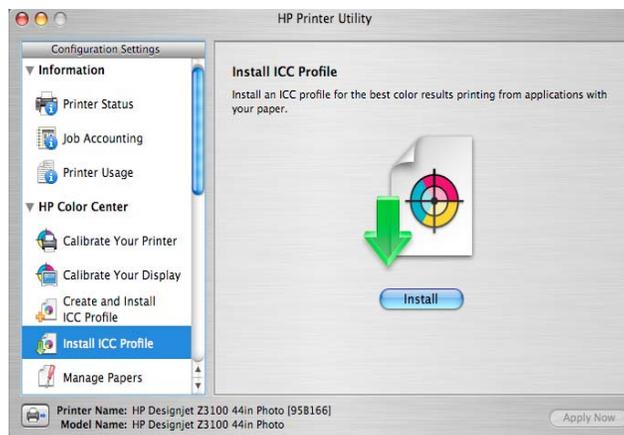
10. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.

11. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the “Add new paper” process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

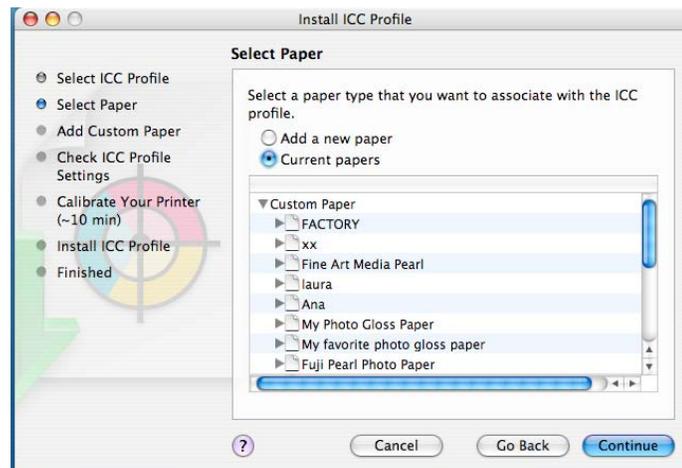
## Recommended paper preset is in the HP Knowledge Center I already have an ICC profile for my paper

### Steps for Macintosh users:

1. Follow the steps 1 to 6 from the previous chapter. (page 19)
2. Select your Paper Type from Front Panel.
3. Go to the Color Center and select “Install ICC Profile” , select the Install button. There you will find the following options



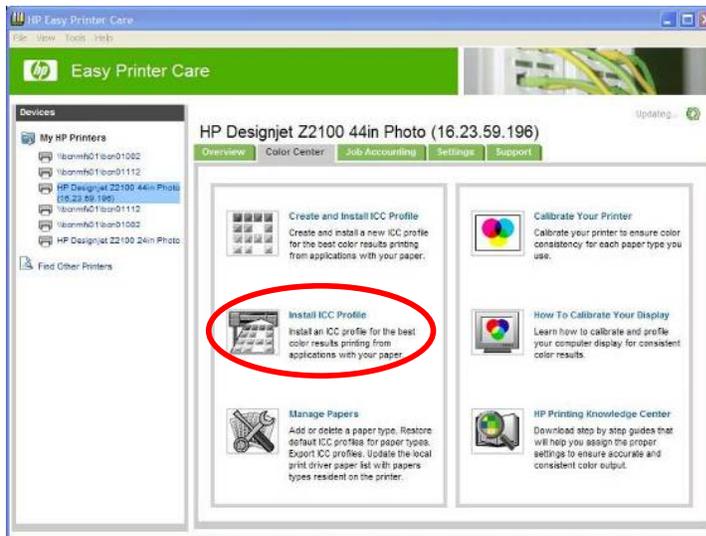
4. Select “[Current Paper](#)” and choose the paper that you need, and select the paper category. This step is **selecting the appropriate Paper Preset**. This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.



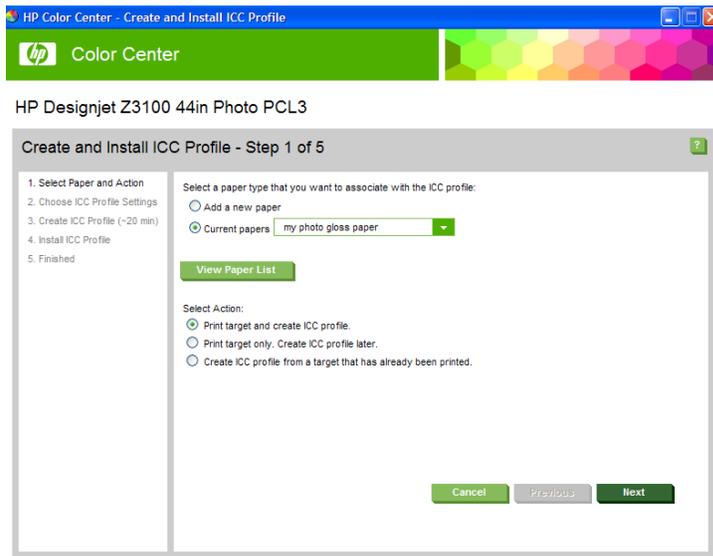
5. The next step is **selecting the appropriate Paper Preset**. Just select the same entry as shown in “[Front Panel & Driver selection](#)” the table on page 2. This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.
6. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
7. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the “[Add new paper](#)” process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

## Steps for Windows users:

1. Follow the steps 1 to 6 f from previous chapter
2. Select your Paper Type from Front Panel.
3. Open Easy Printer Care, and select “Install ICC Profile”. There you will find the following options.



4. Select “Current Paper” and use the browser shown below to use your personal ICC profile.



5. The next step is **selecting the appropriate Paper Preset**. Just select the same entry as shown in “[Front Panel & Driver selection](#)” the table on page 2. This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.
6. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
7. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the “[Add new paper](#)” process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

## Important Recommendations

### How can I work adding a new paper which is based on a Non-HP Paper Type under Custom Category.

Please note that when using "HP Easy Printer Care" on the Windows platform, due to driver architecture, it is possible to incorrectly select in step #3 the option "Add New Paper" and select a paper listed under the "Custom" category.

This option is NOT recommended, since once the ICC profile has been made, the results will not be as good as expected, colors will not be accurate.

Notice however that this problem will not appear if you select a paper that is not in the "Custom" category, it is part of one of the following paper categories:

- " Fine Art Material "
- " Bond and Coated Paper "
- " Photo Paper "
- " Proofing Paper"

### How can I work with different type of papers based in the same "Custom Paper Type"?

In some cases, I can have a custom paper type that I would like to use with different types of papers of my preferred vendors (e.g: when I download a media profile that is under "Custom Paper Type" and I want to check the behavior with different type of papers). I can't add a new paper using the "Custom Paper Type", as noted above to avoid ICC profile issues, I would need to do something different.

In this case, it is recommended loading all my papers with the same custom paper type that was added previously and is available from the front panel, under the custom paper types. Even though I've loaded all the papers under the same option in the printer; I can still generate a different ICC profile for every one and then save it with a different name (a name easy to remember with the vendor's paper name for example). Every time I want to use one of these papers, I need to load it and select it from the front panel name, launch a Color Calibration (it will be different for every type of paper and it is important to do so every time we change the paper) and when printing select, the right ICC profile. It can be done in Photoshop by selecting the following options:

- Application Managed Colors.
- Printer Profile: put the name of the icc profile associated with the paper
- And in the driver:

- Application Color Managed
- Select the custom media that is in the front panel.

## Where to download the latest firmware and driver available?

Go to **HP Knowledge Center** at:

- For HP Designjet Z3100: [http://www.hp.com/go/knowledge\\_center/djz3100](http://www.hp.com/go/knowledge_center/djz3100)
- For HP Designjet Z2100: [http://www.hp.com/go/knowledge\\_center/djz2100](http://www.hp.com/go/knowledge_center/djz2100)

On the right-upper of the page (orange box), click on:

- System Maintenance, go to the firmware download section.
- Drivers, go to driver section.

The screenshot shows the HP Knowledge Center website for the HP Designjet Z3100 printer series. The browser window title is "HP Designjet Z3100 Printer series - Support and knowledge Center - Microsoft Internet Explorer provided by Hewlett". The address bar shows the URL: <http://h41186.www4.hp.com/country/us/en/support/Z3100.html?c=marcom&source=support&kw=Z3100&pageseq=962250>. The page features a navigation menu with options like "HP Home", "Products & Services", "Support & Drivers", "Solutions", and "How to Buy". A search bar is present with the text "Search:". Below the navigation, the HP logo and "HP Knowledge Center" are displayed, along with the text "Support for HP Designjet Z3100 Photo Printer series". The main content area is divided into several sections: "HP Designjet home" with links to "Sign-in with HP Passport" and "Registration & my profile"; "Printers", "Supplies", "Accessories", "My shopping list", and "Promotions"; "Downloads" and "Support and Drivers" with links to "Contact support", "HP Large Format Studio blog", "Forums (English only)", "FAQs", "Warranty", "Support guide", "LF Printing Knowledge Center", "Training", and "Sell more prints"; "News" and "Events"; "Site Map" and "RSS"; and "Graphic Arts". A central image of the HP Designjet Z3100 printer is shown. To the right, there are several sections: "Product downloads" (highlighted in orange) with links to "Drivers & software", "System maintenance", and "Media profiles"; "Media information" with the text "HP offers a wide range of media with this printer" and links to "Supplies for HP Designjet Z3100", "Large format printing applications", "Large format printing how-to workshops", and "Supplies support"; "Contact support" with links to "Email support", "Phone", and "Support options"; "HP Color Expert Service" with the text "Direct hotline to the HP's best color management experts to quickly get the colors you want from your printer" and a link to "Learn more"; and "Product information" with links to "Summary" and "Take the tour".

## HP Papers Portfolio.

HP PAPERS USED & RECOMMENDED			
Company	Name	HP Product	HP Part number & Formats
<b>Crane</b>	Crane Museum Portofio Rag	HP Hahnemühle Smooth Fine Art Paper 265 g/m <sup>2</sup>	24" - Q8732A 36" - Q8745A 42" - Q8733A
	Crane Museum Silver Rag	HP Professional Satin Photo Paper 300 g/m <sup>2</sup>	24" - Q8759A 44" - Q8840A
<b>Hahnemühle</b>	Hahnemühle German Etching 310 gsm	HP Hahnemühle Textured Fine Art Paper 265 g/m <sup>2</sup> or	24" - Q8736A 36" - Q8737A 42" - Q8738A
		HP Hahnemühle Textured Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8739A 42" - Q8740A
	Hahnemühle Photo Rag 308 gsm	HP Hahnemühle Smooth Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8734A 42" - Q8735A
	Hahnemühle Photo Rag < 250 gsm	HP Hahnemühle Smooth Fine Art Paper 265 g/m <sup>2</sup>	24" - Q8732A 36" - Q8745A 42" - Q8733A
	Hahnemühle Photo Rag > 250 gsm	HP Hahnemühle Smooth Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8734A 42" - Q8735A
	Hahnemühle Natural Art Duo	Some customers liked and tested a new material! HP Matte Litho-realistic Paper 270 g/m <sup>2</sup>	24" - Q7972A 36" - Q7973A
	Hahnemühle Photo Glossy	HP Premium Instant-dry Gloss Photo Paper 260 g/m <sup>2</sup>	18" - Q7990A 24" - Q7991A 36" - Q7993A 42" - Q7995A 60" - Q7999A
	Hahnemühle Photo Rag Duo	Some customers liked and tested a new material! HP Matte Litho-realistic Paper 270 g/m <sup>2</sup>	24" - Q7972A 36" - Q7973A
	Hahnemühle Torchon	Some customers liked and tested a new material! HP Matte Litho-realistic Paper 270 g/m <sup>2</sup>	24" - Q7972A 36" - Q7973A
	Hahnemühle Fine Art Pearl	Some customers liked and tested a new material! HP Matte Litho-realistic Paper 270 g/m <sup>2</sup>	24" - Q7972A 36" - Q7973A
	Hahnemühle Photo Rag Satin	Some customers liked and tested a new material! HP Matte Litho-realistic Paper 270 g/m <sup>2</sup>	24" - Q7972A 36" - Q7973A
	Hahnemühle Photo Rag Bright White	HP Hahnemühle Smooth Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8734A 42" - Q8735A

	Hahnemühle William Turner	HP Hahnemühle Textured Fine Art Paper 265 g/m <sup>2</sup> or HP Hahnemühle Textured Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8736A 36" - Q8737A 42" - Q8738A <hr/> 24" - Q8739A 42" - Q8740A
	Hahnemühle Albert Durer	HP Hahnemühle Watercolour Paper 210 g/m <sup>2</sup>	36" - Q1984A
	Hahnemühle White Etching	HP Hahnemühle Textured Fine Art Paper 265 g/m <sup>2</sup> or HP Hahnemühle Textured Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8736A 36" - Q8737A 42" - Q8738A <hr/> 24" - Q8739A 42" - Q8740A
	Hahnemühle White Etching Satin	Some customers liked and tested a new material!: HP Matte Litho-realistic Paper 270 g/m <sup>2</sup>	24" - Q7972A 36" - Q7973A
	Hahnemühle Museum Etching	HP Hahnemühle Textured Fine Art Paper 265 g/m <sup>2</sup> or HP Hahnemühle Textured Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8736A 36" - Q8737A 42" - Q8738A <hr/> 24" - Q8739A 42" - Q8740A
	Hahnemühle Canvas Artist	HP Artist Matte Canvas 380 g/m <sup>2</sup>	24" - Q8704A 36" - Q8705A 42" - Q8706A 60" - Q8707A
	Hahnemühle Fine Art Canvas	HP Professional Matte Canvas 430 g/m <sup>2</sup>	24" - Q8673A 36" - Q8671A 42" - Q8674A 60" - Q8672A
	Hahnemühle Canvas Satin	HP Collector Satin Canvas 400 g/m <sup>3</sup>	24" - Q8708A 36" - Q8709A 42" - Q8710A 60" - Q8711A
<b>Ilford</b>	Ilford Gallerie Smooth Pearl Paper 290 gsm	HP Professional Satin Photo Paper 300 g/m <sup>2</sup>	24" - Q8759A 44" - Q8840A
	Ilford Gallerie Smooth Gloss 290 gsm	HP Premium Instant-dry Gloss Photo Paper 260 g/m <sup>2</sup>	18" - Q7990A 24" - Q7991A 36" - Q7993A 42" - Q7995A 60" - Q7999A
<b>Innova</b>	Innova F-Type Glossy	HP Premium Instant-dry Gloss Photo Paper 260 g/m <sup>2</sup>	18" - Q7990A 24" - Q7991A 36" - Q7993A 42" - Q7995A 60" - Q7999A

	Innova F-Type Semi-Matte	HP Premium Instant-dry Satin Photo Paper 260 g/m <sup>2</sup>	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
<b>Kodak</b>	Kodak Premium Rapid Dry Photo Luster 260gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m <sup>2</sup>	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
	Kodak Professional Photo Paper Luster 255gsm	HP Professional Satin Photo Paper 300 g/m <sup>2</sup>	24" - Q8759A 44" - Q8840A
<b>Somerset</b>	Somerset Velvet Enhanced	HP Hahnemühle Textured Fine Art Paper 265 g/m <sup>2</sup> or HP Hahnemühle Textured Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8736A 36" - Q8737A 42" - Q8738A <hr/> 24" - Q8739A 42" - Q8740A
<b>Fuji</b>	Fujifilm FA Photo Rag 300 gsm	HP Hahnemühle Smooth Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8734A 42" - Q8735A
	Fujifilm Pearl Photo Paper 290 gsm	HP Professional Satin Photo Paper 300 g/m <sup>2</sup>	24" - Q8759A 44" - Q8840A
	Fujifilm Paper Satin 270 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m <sup>2</sup>	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
	Fujifilm Paper Semi-Gloss 240 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m <sup>2</sup>	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
	Fujifilm Paper High Gloss Photo Paper	HP Premium Instant-dry Gloss Photo Paper 260 g/m <sup>2</sup>	18" - Q7990A 24" - Q7991A 36" - Q7993A 42" - Q7995A 60" - Q7999A
	Fujifilm Photo Paper Glossy 240 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m <sup>2</sup>	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
	Fujifilm Photo Paper Satin 270 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m <sup>2</sup>	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A

	Fujifilm HD White Cotton Canvas 400 gsm	HP Professional Matte Canvas 430 g/m <sup>2</sup>	24" - Q8673A36" - Q8671A42" - Q8674A60" - Q8672A
	Fujifilm Artist Canvas 340 gsm	HP Artist Matte Canvas 380 g/m <sup>2</sup>	24" - Q8704A 36" - Q8705A 42" - Q8706A 60" - Q8707A
	Fujifilm Art Photo rag Paper 300 gsm	HP Hahnemühle Smooth Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8734A 42" - Q8735A
	Fujifilm Art Etch Paper 300 gsm	HP Hahnemühle Textured Fine Art Paper 265 g/m <sup>2</sup> or HP Hahnemühle Textured Fine Art Paper 310 g/m <sup>2</sup>	24" - Q8736A 36" - Q8737A 42" - Q8738A <hr/> 24" - Q8739A 42" - Q8740A
	Fujifilm Fine Art Museum Smooth Rag Paper 300	HP Hahnemühle Smooth Fine Art Paper 310 g/m <sup>2</sup> or: HP Matte Litho-realistic Paper 270 g/m <sup>2</sup>	24" - Q8734A 42" - Q8735A <hr/> 24" - Q7972A 36" - 7973A
	Fujifilm Premium SemiGloss Paper 240 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m <sup>2</sup>	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
<b>Tetenal</b>	Tetenal Photo Glossy Paper 272 gsm	HP Premium Instant-dry Gloss Photo Paper 260 g/m <sup>2</sup>	18" - Q7990A 24" - Q7991A 36" - Q7993A 42" - Q7995A 60" - Q7999A
	Tetenal Photo Semi Matte Paper 240 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m <sup>2</sup>	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A

Last information about HP papers is always posted at:

<http://h41186.www4.hp.com/country/us/en/supplies/search/288.html?pageseq=962251>

Search results: Supplies for HP Designjet Z2100/Z3100 - Microsoft Internet Explorer provided by Hewlett-Packard

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  - » Help me choose
  - » Printer/supplies compatibility
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- » My shopping list
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» Downloads

- » Support and Drivers
- » LF Printing Knowledge Center
- » Training
- » Sell more prints

» News

- » Events

» Site Map

- » RSS

» Graphic Arts

#### Compatible media

- » Backlit material
- » Banner and sign material
- » Bond and coated paper
- » Film (technical & graphic)
- » Fine art printing material
- » Metric rolls
- » Photographic paper
- » Proofing paper
- » Self-adhesive material
- » Technical paper

#### Applications

- » Tradeshow and Event displays
- » Banners
- » Posters & Presentations
- » POP & Retail Displays
- » Photo Enlargements
- » Proofing
- » Art Reproduction
- » Backlit Displays
- » Geographic Information Systems (GIS)
- » Architecture (AEC) & Engineering (CAD)

#### Compatible inks

HP Designjet Z3100 Series ink supplies

- » Ink Cartridge
- » Ink Cartridge Twin Pack
- » Printhead

HP Designjet Z2100 Series ink supplies

- » Ink Cartridge
- » Ink Cartridge Twin Pack
- » Printhead

» Ink and media print permanence