

Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology

for HP Indigo Digital Presses

Design, Production, Storage & Handling Guidelines

For best results, follow these guidelines for design, production, storage and handling of GPA's Ultra Digital[®] Layflat Photos Pages with FlexBind[®] Technology.

GPA's Ultra Digital[®] Layflat Photos Pages with FlexBind[®] Technology have been certified by RIT, and are engineered using RIT Certified Ultra Digital[®] papers and film. It is highly recommended that this product be fully tested prior to any live production run. Testing includes printing, UV coating, trimming and binding.

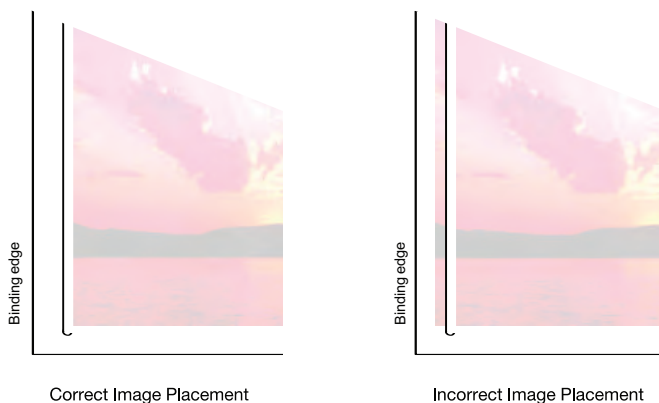
Design & Production Recommendations

- Templates in PDF file format are available for design and layout purposes. Contact GPA at 800-395-9000 or at info@askgpa.com to received these templates via email.
- Create your artwork using the available template and do a print trial run prior to the live production run.
- To design full image spreads, include an 1/8" bleed on 3 sides with the image split in half for the optimal image crossover.

Image Position

- Image placement on the Layflat Photo Pages with FlexBind[®] Technology sheets should be up to the hinge gap, but not into the gap (See Illustration #1).
- In order to avoid waste, it is recommended that set-up be done on a different paper.
- The image should be printed on the laminated hinge as needed. The laminated hinge is treated for ink adhesion.

Illustration #1



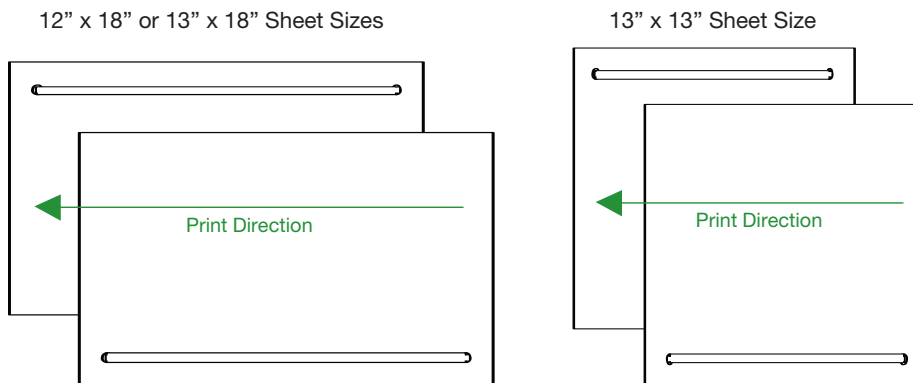
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Design, Production, Storage & Handling Guidelines

Printing & Paper Orientation

- This substrate is engineered for duplex printing and duplexing sheets is highly recommended for optimum performance.
- Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology can be UV coated without modification to the standard processes.
- The laminated hinge should be positioned either to the back or the front of the press for printing. This will avoid the optical sensor tripping and registering a misfeed (See Illustration #2).

Illustration #2



Paper Feeding & Handling

- Fan stack before loading into the feed drawer.
- If possible, it is recommended to assign a specific drawer for Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology to prevent excessive handling during repetitive loading and unloading between jobs.
- Wedges and stack tilt devices are unnecessary since Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology are perfectly flat and produce no stack bias.
- Do not flex or bend the laminated hinge before printing.
- Do not straighten stacks of Ultra Digital[®] Layflat Photo Pages with FlexBind[®] by Technology jogging against or resting the stack on the laminated hinge side of the sheet.

Trimming & Cutting

- Trimming can be done individually with an in-line trimmer or by stacking multiple books and guillotine cutting the stack.
- The indented laminated hinge allows for stacks of Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology to be cut simultaneously without stack bias.



Design, Production, Storage & Handling Guidelines

Handling, Storage & Stacking

- Avoid touching the ink-receptive laminated area prior to printing.
- Keep cartons flat and horizontal.
- **DO NOT OPEN PACKAGES UNTIL YOU ARE READY TO LOAD THE SHEETS FOR THE PRODUCTION RUN.**
- To achieve best results, leave Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology sealed in their original boxes, in the shipping carton until ready to print.
- Once you open the package, store unused loose sheets in a moisture proof package wrap on shelves or pallets to avoid moisture absorption.
- Treat cartons with care. Aggressive inventory handling, dropping, accidental striking with a forklift or other mishandling can result in damage.

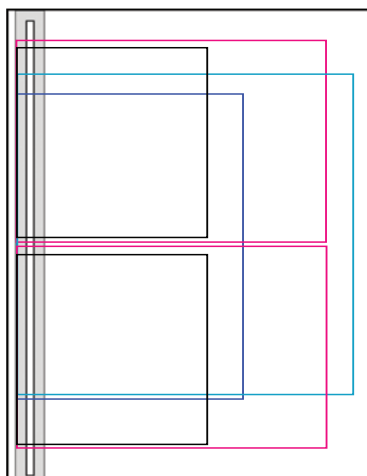
Climate Control

- Choose a storage area that is protected from extreme temperatures and humidity. Temperature and humidity are critical factors in how Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology perform on your HP Indigo digital press.
- High humidity causes damp edges and wavy paper.
- Low humidity dries paper edges and makes the paper contract and become tight.
- Most environments with air conditioning systems provide the proper mix of temperature and humidity.
- For best results, it is recommended to condition Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology for two to three days prior to a production run.





Layout Options

- Following are layout suggestions for standard book sizes that can be run on Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology.

12" x 18" or 13" x 18" Sheet Sizes



Sheet Options

-  2- 8.5" X 11"
landscape
-  1- 8.5" X 11"
portrait
-  2- 8" x 8"
-  1- 12" x 12"

This is a general illustration for basic layout options and is not intended for design layout purpose.



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Design, Production, Storage & Handling Guidelines

Binding Guidelines

- Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology redistribute the stress that is normally placed on the binding. The stress is moved from the binding (book block) to the laminated hinge of each page.
- The only requirement for a binding method to be compatible with Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology is that the spine of the book block needs to be held firmly together.
- Binding methods which intentionally separate the pages will either need to be modified or should not be used at all.
- A partial list of binding methods and recommendations when binding Ultra Digital[®] Layflat Photo Pages with FlexBind[®] Technology are noted below.

Binding Method	Spine Dimension	Comments
Side-Stitching	1/4"	Stitch 1/8" from edge, alternate sides when stitching to keep spine from curling, compress metal ends of each stitch before placing in cover.
Side-Sewn	1/4" - 3/8"	Center sewing on the spine, being careful not to tear the laminate in the gap.
UniBind [™]	3/8"	No modifications necessary. Side stitching improves sheet security in the adhesive.
ChannelBind [™]	1/2" - 9/16"	No modifications necessary. Side stitching improves sheet security in the binding channel.
Powis Parker [™]	1/4" - 3/8"	The spine of the book block should be stitched to ensure that the pages turn at the hinge rather than at the binding edge.
ExactBind [™]	1/8" - 1/4"	Minimal grinding is required. Carefully adjust spine thickness setting when applying hard cover so as to avoid crushing the FlexBind [™] spine of the book block.
Library Binding	Not Compatible	The pages are intentionally separated at the binding edge and is not compatible with Ultra Digital [®] Layflat Photo Pages with FlexBind [™] .
Smyth Sewn	Not Compatible	The pages are intentionally separated at the binding edge and is not compatible with Ultra Digital [®] Layflat Photo Pages with FlexBind [™] .

This is not a guarantee or endorsement of any particular binding method and is intended for general reference only.



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