



G7 Qualification Kit

Grayscale



GRACoL®
General Requirements for Applications
in Commercial Offset Lithography

How to Use This Qualification Kit

The G7 Qualification kits are designed to give you information on best practices and recommended procedures. The kit contains a checklist, as well as supporting materials.

Here is how to use the kit:

1. Download the most recent version of 'Procedures for IDEAlliance G7 Master Qualification Submission' from the IDEAlliance website. This will provide you with information on what you need to send as well as where to send it. The most current version can be found in the downloads section at www.gracol.org.
2. Follow the G7 Checklists at the front of the G7 Qualification Kit. These checklists provide a simplified overview of the best practices for the G7 calibration process you will be performing. The checklists are intended to be filled out by both the Expert and the G7 Master candidate.
3. Refer to any additional material contained in the sections following the qualification kit. This supplemental information is intended to provide you with additional material to help you perform the best calibration possible.



Checklist for G7 Grayscale Master

No.	OK	Expert	Master	Task
				Record print conditions at time of test
1				Demonstrate use of Fan Graph for NPDC curve creation (optional if using software)
2				Demonstrate use of software (if used) to create NPDC curves
3				Measure 3 copies of NPDC data (or equivalent) from print run using linear curve.
4				Create NPDC correction curve and enter corrections in RIP
5				Print to same print conditions as calibration run
6				Measure 3 copies of NPDC data (or equivalent) from calibrated press run .
7				Verify NPDC curve and gray balance are correct
8				Record final print conditions for G7 Master on-site reference.
9				Customer and Expert to initial indicating they have reviewed and understand the G7 process
10				Post application and data using IDEAlliance web site per instructions in Procedures for IDEAlliance G7 Master Qualification Submission
11				Print Application Receipt for G7 Master site



12				Send printed sheets to IDEAlliance per instructions in Procedures for IDEAlliance G7 Master Qualification Submission
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Checklist for Targeted/Colorspace G7 Proof

No.	OK	Expert	Master	Task
1				Create a targeted proof using proof software and proofing device
2				Measure NPDC Curves and confirm NPDC Curve is correct.
3				Measure IT8/7.4 and compare to targeted data set using Tolerance Classification spreadsheet or other software
4				Review process control intervals, procedures, guidelines
5				Customer and Expert to initial indicating they have reviewed and understand the procedures to calibrate proofer to G7 Targeted condition as well as process control basics
6				G7 Expert to post application, NPDC data as well as an IT8/7.4 data using IDEAlliance web site per instructions in Procedures for IDEAlliance G7 Master Qualification Submission
7				Print Application Receipt for G7 Master site reference
8				Send proof to IDEAlliance per instructions in Procedures for IDEAlliance G7 Master Qualification Submission.



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G7 Qualification Kit Supplemental Materials

Company Name: _____

G7 Master Equipment Audit



version 1.7



Proofer 1 Target Values (Dot Proof)

Ink	Densities	+/- Toler	L*a*b*
K			
C			
M			
Y			
R			
G			
B			

Proofer 2 Target Values (Dot Proof)

Ink	Densities	+/- Toler	L*a*b*
K			
C			
M			
Y			
R			
G			
B			

Prepress Workflow 1

Manufacturer	
Model	

Proofer 1 - G7 Qualified ☐ Yes ☐ No

Manufacturer	
Model	
RIP	
Ink	
Paper	
Other	

Platesetter 1

Manufacturer	
Model	

Plate Reader 1

Plate Reader	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	
Last Calibration	

Spectrophotometer 1

Spectrophotometer	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	<input type="checkbox"/> iSis <input type="checkbox"/> i1Pro <input type="checkbox"/> _____
Last Calibration	

Spectrophotometer 3

Spectrophotometer	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	<input type="checkbox"/> iSis <input type="checkbox"/> i1Pro <input type="checkbox"/> _____
Last Calibration	

Prepress Workflow 2

Manufacturer	
Model	

Proofer 2 - G7 Qualified ☐ Yes ☐ No

Manufacturer	
Model	
RIP	
Ink	
Paper	
Other	

Platesetter 2

Manufacturer	
Model	

Plate Reader 2

Plate Reader	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	
Last Calibration	

Spectrophotometer 2

Spectrophotometer	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	<input type="checkbox"/> iSis <input type="checkbox"/> i1Pro <input type="checkbox"/> _____
Last Calibration	

Spectrophotometer 4

Spectrophotometer	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	<input type="checkbox"/> iSis <input type="checkbox"/> i1Pro <input type="checkbox"/> _____
Last Calibration	

G7 Gray Qualification Kit – List of Contents

The list below itemizes all of the material contained within the kit.

Document Name	Required	Notes
Qualification Checklist	Yes	
Master Printer Application	Yes	
IDEAlliance Control Strip 12647-7	Yes / Similar	
P2P25xa Target	Yes	
IDEAlliance G7 Test Form	Yes / Similar	
Measurement Reference Files (P2P)	Yes	
G7 Master Requirements Doc	Yes	
Cover Letter		

Company Name: _____

G7 Master Equipment Audit



version 1.7



Proofer 1 Target Values (Dot Proof)

Ink	Densities	+/- Toler	L*a*b*
K			
C			
M			
Y			
R			
G			
B			

Proofer 2 Target Values (Dot Proof)

Ink	Densities	+/- Toler	L*a*b*
K			
C			
M			
Y			
R			
G			
B			

Prepress Workflow 1

Manufacturer	
Model	

Proofer 1 - G7 Qualified ☐ Yes ☐ No

Manufacturer	
Model	
RIP	
Ink	
Paper	
Other	

Platesetter 1

Manufacturer	
Model	

Plate Reader 1

Plate Reader	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	
Last Calibration	

Spectrophotometer 1

Spectrophotometer	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	<input type="checkbox"/> iSis <input type="checkbox"/> i1Pro <input type="checkbox"/> _____
Last Calibration	

Spectrophotometer 3

Spectrophotometer	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	<input type="checkbox"/> iSis <input type="checkbox"/> i1Pro <input type="checkbox"/> _____
Last Calibration	

Prepress Workflow 2

Manufacturer	
Model	

Proofer 2 - G7 Qualified ☐ Yes ☐ No

Manufacturer	
Model	
RIP	
Ink	
Paper	
Other	

Platesetter 2

Manufacturer	
Model	

Plate Reader 2

Plate Reader	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	
Last Calibration	

Spectrophotometer 2

Spectrophotometer	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	<input type="checkbox"/> iSis <input type="checkbox"/> i1Pro <input type="checkbox"/> _____
Last Calibration	

Spectrophotometer 4

Spectrophotometer	<input type="checkbox"/> Yes <input type="checkbox"/> No
Manufacturer	<input type="checkbox"/> X-rite <input type="checkbox"/> Techon <input type="checkbox"/> _____
Model	<input type="checkbox"/> iSis <input type="checkbox"/> i1Pro <input type="checkbox"/> _____
Last Calibration	

Press 1 Description

Manufacturer	
Model	
Total Units	
Units used for G7 Calibration	
Perfector	<input type="checkbox"/> Yes <input type="checkbox"/> No
UV	<input type="checkbox"/> Yes <input type="checkbox"/> No
Waterless	<input type="checkbox"/> Yes <input type="checkbox"/> No
Coater	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> UV <input type="checkbox"/> Aqueous
CIP 3 or 4	<input type="checkbox"/> Yes <input type="checkbox"/> No
Measuring Device	Make/Model
Scanner	
Handheld	
Closed Loop System	

Press 2 Description

Manufacturer	
Model	
Total Units	
Units used for G7 Calibration	
Perfector	<input type="checkbox"/> Yes <input type="checkbox"/> No
UV	<input type="checkbox"/> Yes <input type="checkbox"/> No
Waterless	<input type="checkbox"/> Yes <input type="checkbox"/> No
Coater	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> UV <input type="checkbox"/> Aqueous
CIP 3 or 4	<input type="checkbox"/> Yes <input type="checkbox"/> No
Measuring Device	Make/Model
Scanner	
Handheld	
Closed Loop System	

Press 1 Ink Target Values

Ink	Densities	+/- Toler	L*a*b*
K			
C			
M			
Y			
R			
G			
B			

Press 2 Ink Target Values

Ink	Densities	+/- Toler	L*a*b*
K			
C			
M			
Y			
R			
G			
B			

Press 1 Ink

Manufacturer	
Set Name	
ISO 2846 Compliant	<input type="checkbox"/> Yes <input type="checkbox"/> No

Press 2 Ink

Manufacturer	
Set Name	
ISO 2846 Compliant	<input type="checkbox"/> Yes <input type="checkbox"/> No

Press 1 Paper

Manufacturer	
Name	
Finish	
Grade	
Weight/Thickness	
Paper White	L*: a*: b*:

Press 2 Paper

Manufacturer	
Name	
Finish	
Grade	
Weight/Thickness	
Paper White	L*: a*: b*:



IMPORTANT: G7 Master Applications are now submitted online at <http://www.idealliance.org>



IMPORTANT:

The current G7 How To Document can be obtained at
<http://www.idealliance.org>