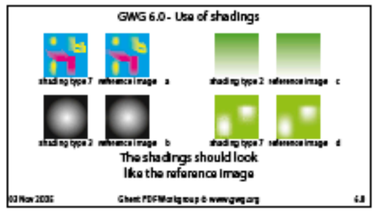
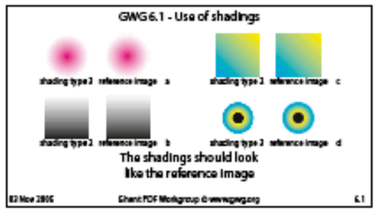
Ghent PDF Output Suite 5.0 – CMYK

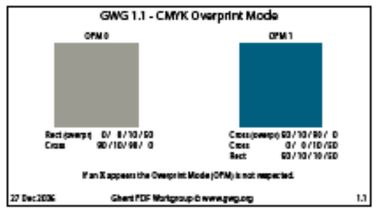
Conformance Level 1

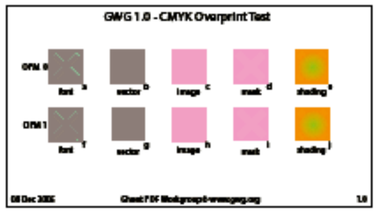
The pages contain test patches with essential features of PDF/X-4 (ISO 15930-7).
Errors are identified either with a cross or by a deviation from the integrated reference images.

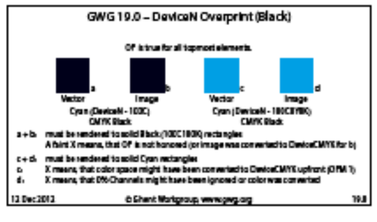
Personalized test pages are required for Ghent PDF Output Suite 5.0 Conformance Certification!!!

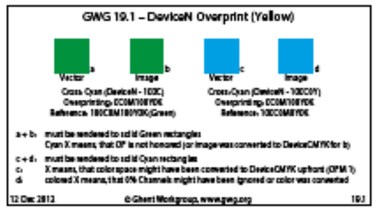


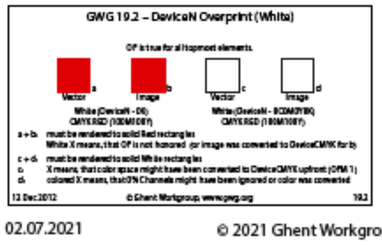












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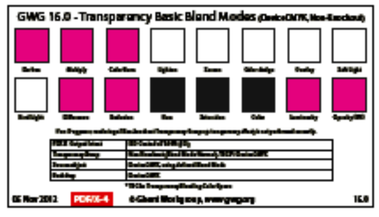
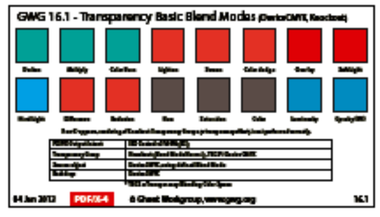
Ghent PDF Output Suite 5.0 – CMYK

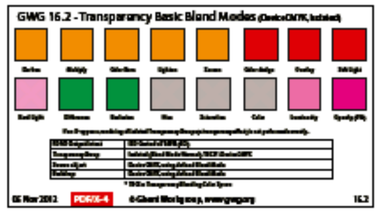
Conformance Level 1

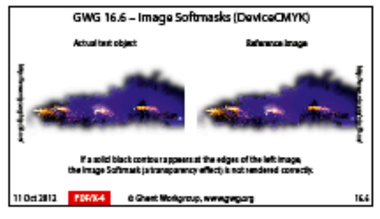
Die Seiten enthalten Testpatches mit wesentlichen Merkmalen von PDF/X-4 (ISO 15930-7).
Fehler sind mit einem Kreuz oder durch eine Abweichung vom integrierten Referenzbilder zu erkennen.

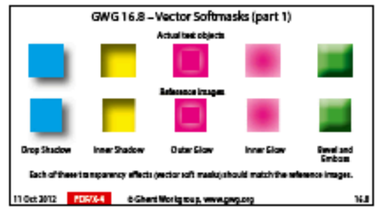
Personalisierte Testseiten sind für die Gent PDF Output Suite 5.0 Conformance Certification erforderlich!!!

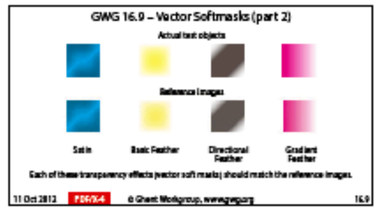


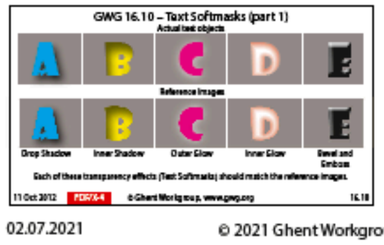


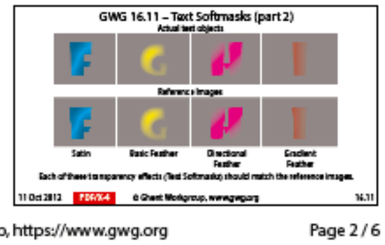












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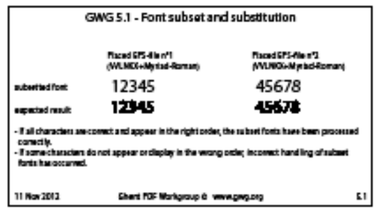
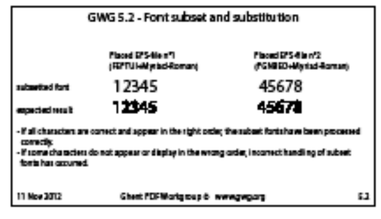
Ghent PDF Output Suite 5.0 – CMYK

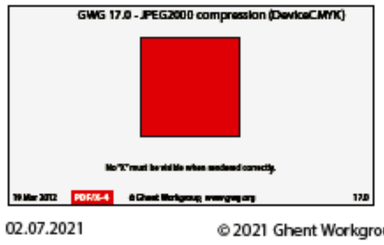
Conformance Level 1

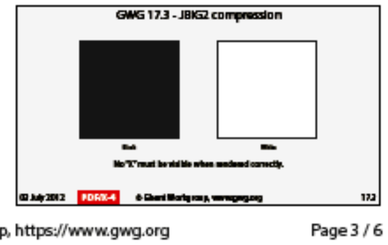
Les pages contiennent des patches de test comprenant des fonctionnalités essentielles de PDF/X-4 (ISO 15930-7).
Les erreurs sont identifiées soit par une croix, soit selon une déviation par rapport aux images de référence.

Des pages de test personnalisées sont requises pour la certification de conformité de Ghent PDF Output Suite 5.0 !!!









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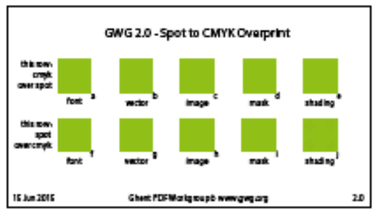
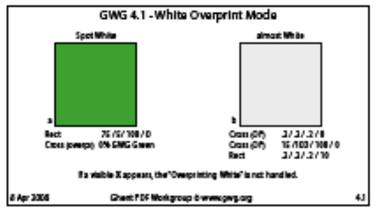
Ghent PDF Output Suite 5.0 – SPOT

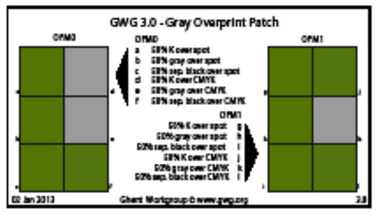
Conformance Level 1

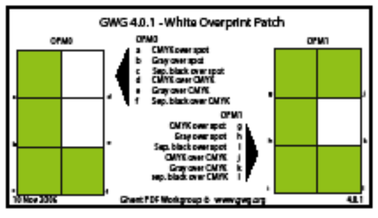
De pagina's bevatten test patches met essentiële PDF/X-4 (ISO 15930-7) features.
Fouten worden aangeduid met ofwel een kruis of door een afwijking met het geïntegreerde referentiebeeld.

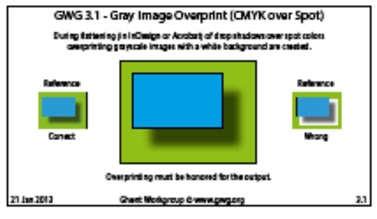
Gepersonaliseerde testpagina's zijn vereist voor Ghent PDF Output Suite 5.0 Conformance Certification!!!

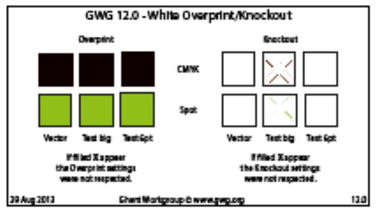


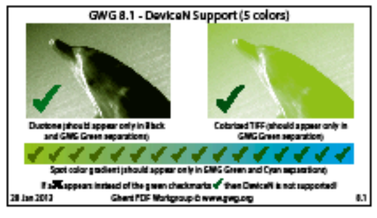


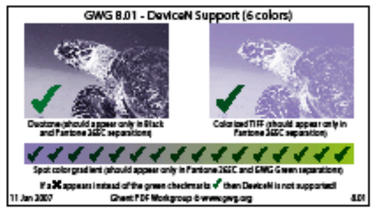












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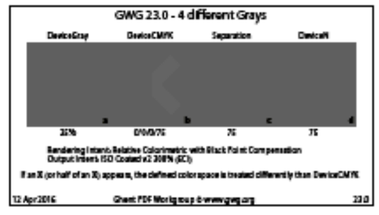
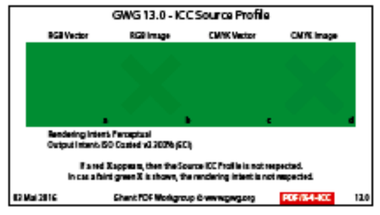
Ghent PDF Output Suite 5.0 – ICC/CMS

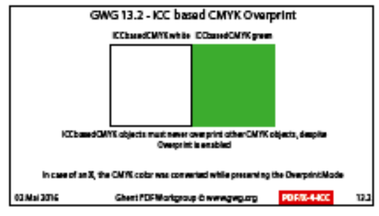
Conformance Level 2

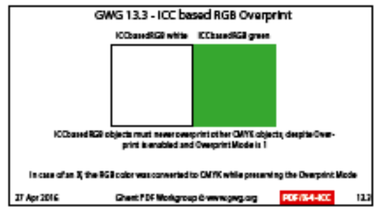
Las páginas contienen parches de prueba con características esenciales de PDF/X-4 (ISO 15930-7).
Los errores se identifican con una cruz o con una desviación de las imágenes de referencia integradas.

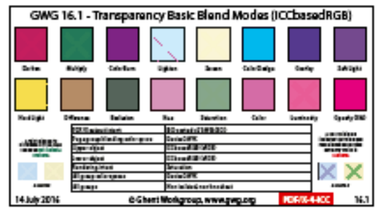
Las páginas de prueba personalizadas son necesarias para la certificación de conformidad de Ghent PDF Output Suite 5.0!!!

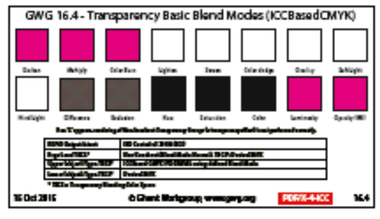


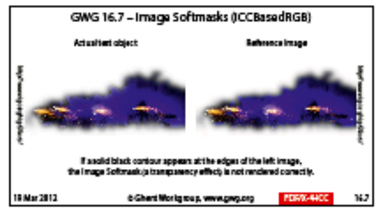


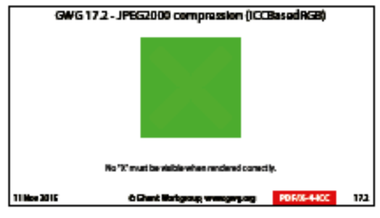












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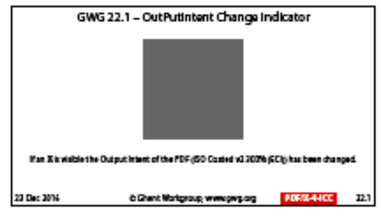
Ghent PDF Output Suite 5.0 – ICC/CMS

Conformance Level 2

Le pagine contengono patch di prova con caratteristiche essenziali di PDF/X-4 (ISO 15930-7).
Gli errori sono identificati da una croce o da una deviazione dalle immagini di riferimento integrate.

Le pagine di prova personalizzate sono necessarie per la certificazione di conformità di Ghent PDF Output Suite 5.0!!!



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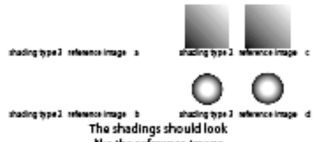
GWG 6.0 - Use of shadings

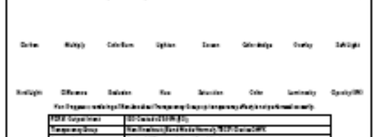
03 Nov 2006 — Ghent PDF Workgroup © www.gwg.org — 6.0

GWG 6.1 - Use of shadings



03 Nov 2006 — Ghent PDF Workgroup © www.gwg.org — 6.1

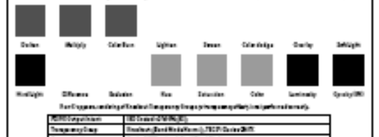
GWG 16.0 - Transparency Basic Blend Modes (DeviceCMYK, Non-Knockout)



PDF Output Intent	ISO Coated v2 300% (ECI)
Transparency Group	Non-Knockout, Isolated, Blend Mode Normal, 100% Opacity, No Soft Mask
Document Blend Mode	Device CMYK, using default Blend Modes
Overprint	Device CMYK

06 Nov 2012 — © Ghent Workgroup, www.gwg.org — 16.0

GWG 16.1 - Transparency Basic Blend Modes (DeviceCMYK, Knockout)



PDF Output Intent	ISO Coated v2 300% (ECI)
Transparency Group	Knockout, Blend Mode Normal, 100% Opacity, 100% Device CMYK
Document Blend Mode	Device CMYK, using default Blend Modes
Overprint	Device CMYK

04 Jun 2012 — © Ghent Workgroup, www.gwg.org — 16.1

GWG 9.0 - Font Support

03 Nov 2006 — Ghent PDF Workgroup © www.gwg.org — 9.0

GWG 9.1 – OpenType Font Support

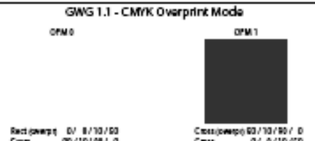
Mamock Pro Semibold – OpenType (Type 1)

Arial Unicode MS – OpenType (TrueType)

If the text in the line above does not look like the image in the line below
an error in the rendering of the font occurred.

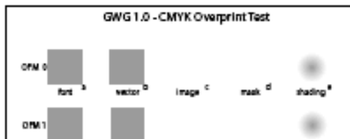
14 Jan 2012 — © Ghent Workgroup, www.gwg.org — 9.1

GWG 1.1 - CMYK Overprint Mode



27 Dec 2006 — Ghent PDF Workgroup © www.gwg.org — 1.1

GWG 1.0 - CMYK Overprint Test



08 Dec 2006 — Ghent PDF Workgroup © www.gwg.org — 1.0

GWG 16.2 - Transparency Basic Blend Modes (DeviceCMYK, Isolated)

PDF Output Intent	ISO Coated v2 300% (ECI)
Transparency Group	Isolated, Blend Mode Normal, 100% Opacity, No Soft Mask
Document Blend Mode	Device CMYK, using default Blend Modes
Overprint	Device CMYK, using default Blend Modes

06 Nov 2012 — © Ghent Workgroup, www.gwg.org — 16.2

GWG 16.6 – Image Softmasks (DeviceCMYK)

If a solid black contour appears at the edges of the left image,
the Image Softmask (a transparency effect) is not rendered correctly.

11 Oct 2012 — © Ghent Workgroup, www.gwg.org — 16.6

GWG 5.1 - Font subset and substitution

	Placed EPS-file n°1 (WLMKK+Mytsd-Roman)	Placed EPS-file n°2 (WLNKK+Mytsd-Roman)
substituted font	12345	45678
expected result	**12345**	**45678**

- If all characters are correct and appear in the right order, the subset fonts have been processed correctly.
- If some characters do not appear or display in the wrong order, incorrect handling of subset fonts has occurred.

11 Nov 2012 — Ghent PDF Workgroup © www.gwg.org — 5.1

GWG 5.2 - Font subset and substitution

	Placed EPS-file n°1 (FEFTU+Mytsd-Roman)	Placed EPS-file n°2 (FGNBED+Mytsd-Roman)
substituted font	12345	45678
expected result	**12345**	**45678**

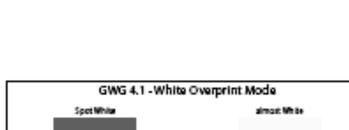
- If all characters are correct and appear in the right order, the subset fonts have been processed correctly.
- If some characters do not appear or display in the wrong order, incorrect handling of subset fonts has occurred.

11 Nov 2012 — Ghent PDF Workgroup © www.gwg.org — 5.2

GWG 19.0 – DeviceN Overprint (Black)

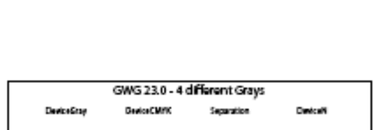
12 Dec 2012 — © Ghent Workgroup, www.gwg.org — 19.0

GWG 19.1 – DeviceN Overprint (Yellow)



12 Dec 2012 — © Ghent Workgroup, www.gwg.org — 19.1

GWG 16.8 – Vector Softmasks (part 1)



Each of these transparency effects (vector soft masks) should match the reference images.

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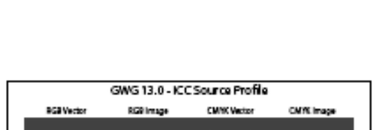
GWG 16.9 – Vector Softmasks (part 2)



Each of these transparency effects (vector soft masks) should match the reference images.

11 Oct 2012 — © Ghent Workgroup, www.gwg.org — 16.9

GWG 5.0 - Font Substitution

If a check mark ✔ appears above, then the embedded font is used (correct behavior).
If an other character appears, the embedded font was substituted
with a Symbol font installed in the system (host or RIP).

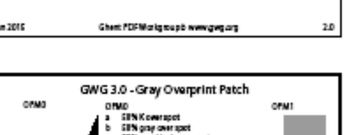
16 Nov 2006 — Ghent PDF Workgroup © www.gwg.org — 5.0

GWG 18.1 - 16Bit Image (DeviceCMYK)

No X must be visible when rendered correctly.

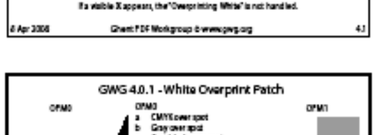
12 Nov 2010 — © Ghent Workgroup, www.gwg.org — 18.1

GWG 19.2 – DeviceN Overprint (White)



12 Dec 2012 — © Ghent Workgroup, www.gwg.org — 19.2

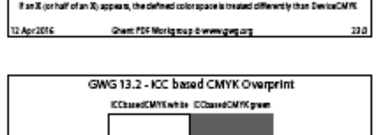
GWG 8.2 - DeviceN Support (4 colors)



If a checkmark ✓ is visible in the upper right corner then DeviceN is respected (= GOOD).
If no check mark appears then DeviceN color was transformed to CMYK (= ERROR).
If the images are missing completely then DeviceN is not supported at all (= ERROR).

27 Dec 2006 — Ghent PDF Workgroup © www.gwg.org — 8.2

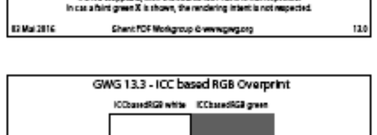
GWG 16.10 – Text Softmasks (part 1)



Each of these transparency effects (Text Softmasks) should match the reference images.

11 Oct 2012 — © Ghent Workgroup, www.gwg.org — 16.10

GWG 16.11 – Text Softmasks (part 2)



Each of these transparency effects (Text Softmasks) should match the reference images.

11 Oct 2012 — © Ghent Workgroup, www.gwg.org — 16.11

GWG 17.0 - JPEG2000 compression (DeviceCMYK)

No "X" must be visible when rendered correctly.

19 Mar 2012 — © Ghent Workgroup, www.gwg.org — 17.0

GWG 17.3 - JBIG2 compression

Black
White

No "X" must be visible when rendered correctly.

03 July 2012 — © Ghent Workgroup, www.gwg.org — 17.3

GWG 2.0 - Spot to CMYK Overprint

15 Jun 2010 — Ghent PDF Workgroup © www.gwg.org — 2.0

GWG 4.1 - White Overprint Mode

6 Apr 2006 — Ghent PDF Workgroup © www.gwg.org — 4.1

GWG 3.0 - Gray Overprint Patch

02 Jan 2013 — Ghent PDF Workgroup © www.gwg.org — 3.0

GWG 4.0.1 - White Overprint Patch

10 Nov 2006 — Ghent PDF Workgroup © www.gwg.org — 4.0.1

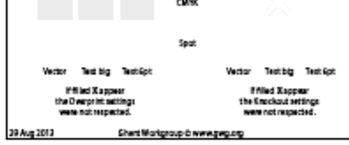
GWG 3.1 - Gray Image Overprint (CMYK over Spot)

During flattening in InDesign or Acrobat of drop shadows over spot colors
overprinting grayscale images with a white background are created.

Overprinting must be honored for the output.

21 Jan 2013 — Ghent PDF Workgroup © www.gwg.org — 3.1

GWG 12.0 - White Overprint/Knockout

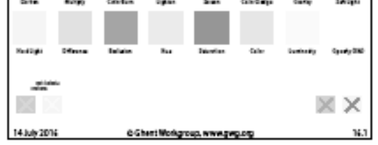


If filled X appear
the Overprint settings
were not respected.

If filled X appear
the Knockout settings
were not respected.

29 Aug 2013 — Ghent PDF Workgroup © www.gwg.org — 12.0

GWG 16.1 - Transparency Basic Blend Modes (ICCbasedRGB)



14 July 2016 — © Ghent Workgroup, www.gwg.org — 16.1

ISO Coated v2 300% (ECI)	
Rec.709 gamma 2.2 data RGB - Elle 029	
ICC based RGB - Elle 029	
Device RGB	

16 Oct 2015 — © Ghent Workgroup, www.gwg.org — 16.4

GWG 20.5 – CMYK Image with ICC V4 profile

CMYK image with ICC V4 profile
Output Intent has an ICC V2 profile

If a red cross appears instead of the image or the image turns negative
the ICC V4 profile is not supported by this viewer/output workflow.
There might be other effects if the ICC V4 profile is not supported properly.

27 November 2015 — © Ghent Workgroup, www.gwg.org — 20.5

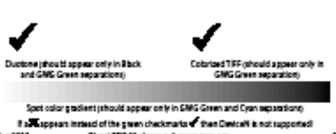
GWG 20.6 – RGB Image with ICC V4 profile

RGB image with ICC V4 profile
Output Intent has an ICC V2 profile

If a red cross appears instead of the image or the image turns negative
the ICC V4 profile is not supported by this viewer/output workflow.
There might be other effects if the ICC V4 profile is not supported properly.

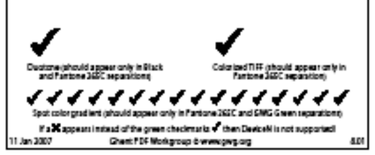
27 November 2015 — © Ghent Workgroup, www.gwg.org — 20.6

GWG 8.1 - DeviceN Support (5 colors)



28 Jan 2013 — Ghent PDF Workgroup © www.gwg.org — 8.1

GWG 8.01 - DeviceN Support (6 colors)



11 Jan 2007 — Ghent PDF Workgroup © www.gwg.org — 8.01

GWG 16.7 – Image Softmasks (ICCBasedRGB)

If a solid black contour appears at the edges of the left image,
the Image Softmask (a transparency effect) is not rendered correctly.

19 Mar 2013 — © Ghent Workgroup, www.gwg.org — 16.7

GWG 17.2 - JPEG2000 compression (ICCBasedRGB)

No "X" must be visible when rendered correctly.

11 Nov 2015 — © Ghent Workgroup, www.gwg.org — 17.2

GWG 22.0 – Color Conversion Indicator

If an X is visible a color conversion or an ink saving operation have been applied to the PDF.
Certain transparency blend modes (e.g. Hard Light) can deliver
a completely different result after a color conversion.

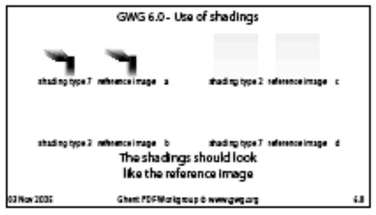
14 Oct 2015 — © Ghent Workgroup, www.gwg.org — 22.0

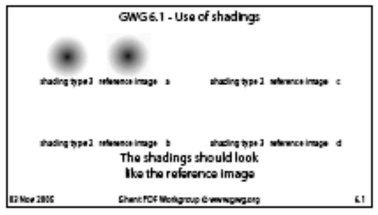
GWG 22.1 – OutPutIntent Change Indicator

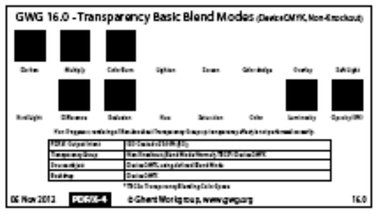
If an X is visible the Output Intent of the PDF (ISO Coated v2 300% (ECI)) has been changed.

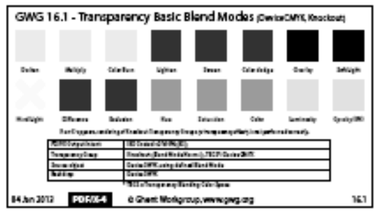
23 Dec 2016 — © Ghent Workgroup, www.gwg.org — 22.1

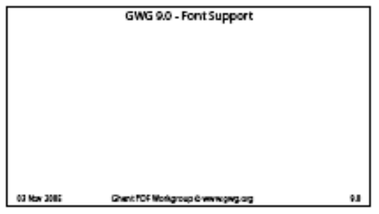
Ghent PDF Output Suite 5.0 – CMYK

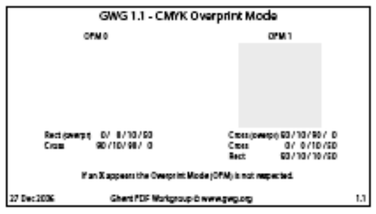


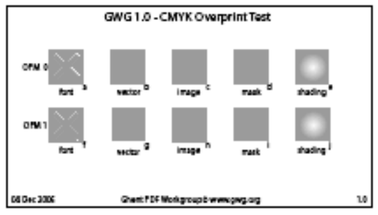


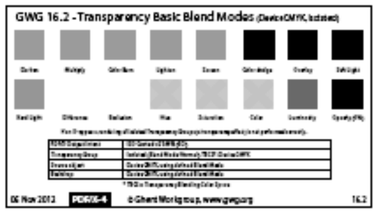


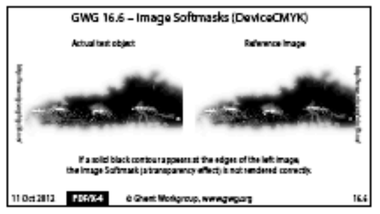


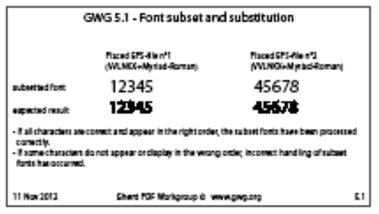


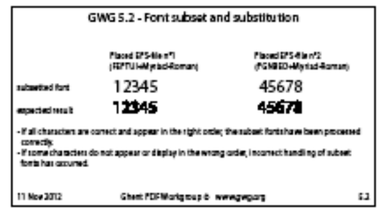


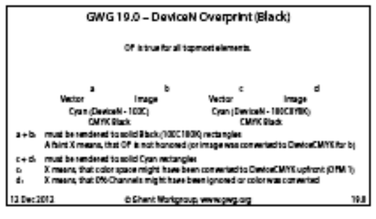


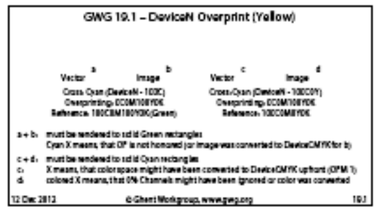


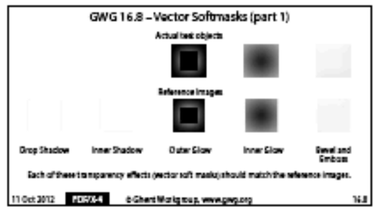


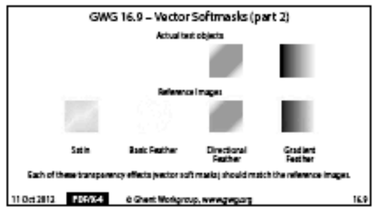


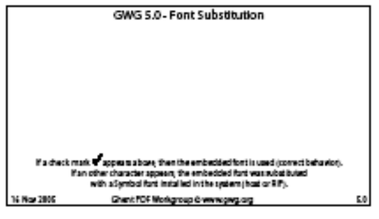


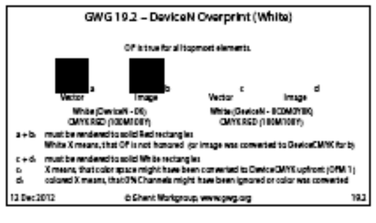


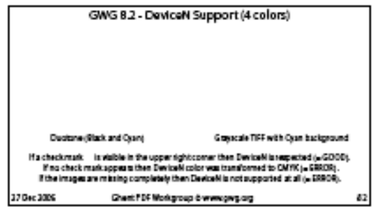


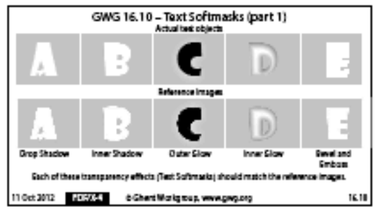


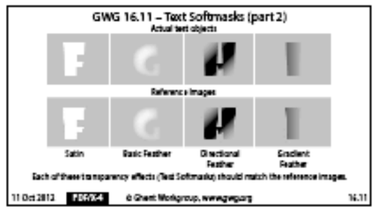


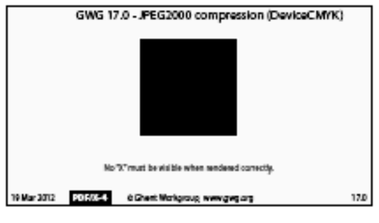


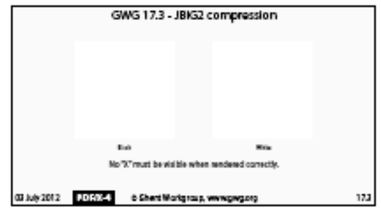




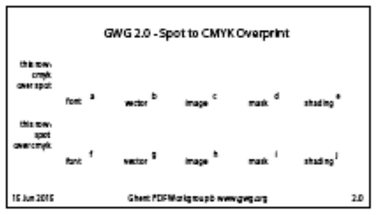


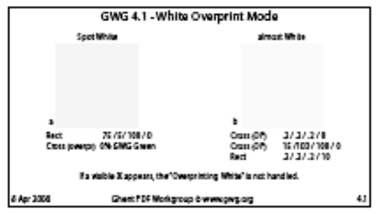


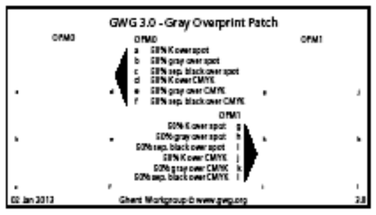


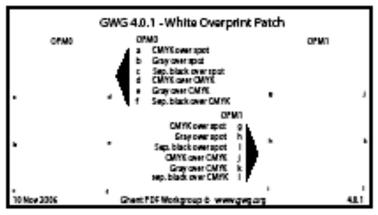


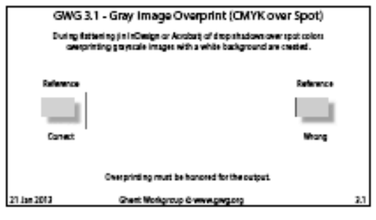
Ghent PDF Output Suite 5.0 – SPOT

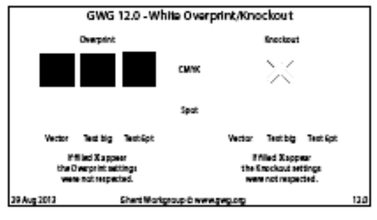


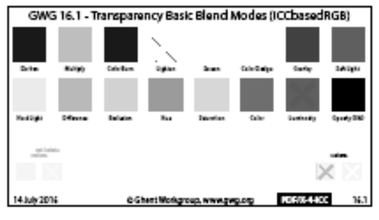


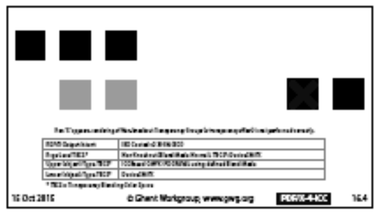


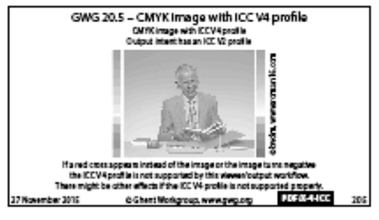


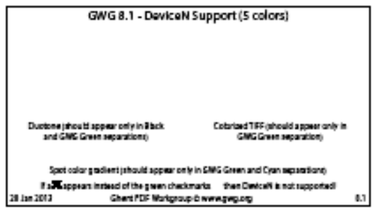


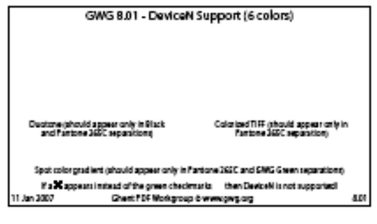


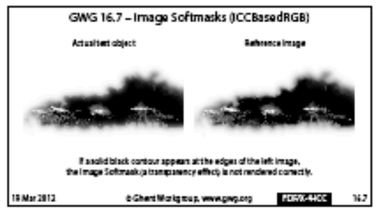


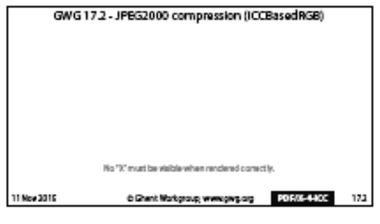


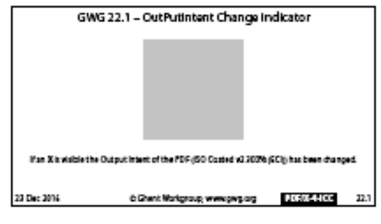




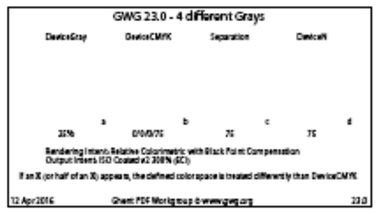


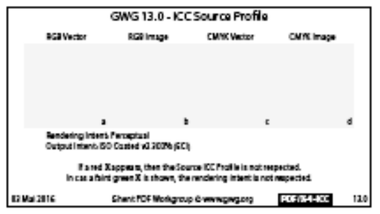


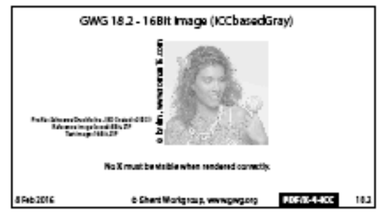


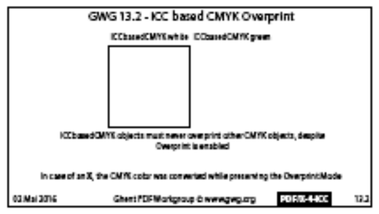


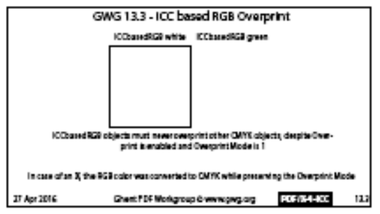
Ghent PDF Output Suite 5.0 – ICC/CMS



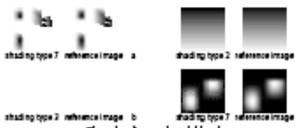








GWG 6.0 - Use of shadings

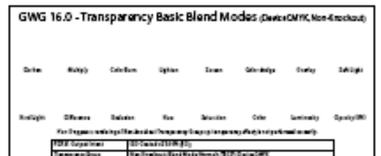


03 Nov 2006 Ghent PDF Workgroup © www.gwg.org 6.0

GWG 6.1 - Use of shadings

03 Nov 2006 Ghent PDF Workgroup © www.gwg.org 6.1

GWG 16.0 - Transparency Basic Blend Modes (DeviceCMYK, Non-Knockout)

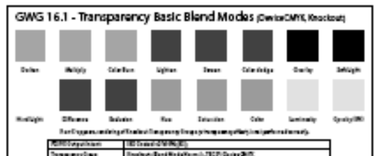


PDF Output Intent	ISO Coated v2 300% (ECI)
Transparency Group	Non-Isolated, Knockout, Non-Blending Mode, CS: DeviceCMYK
Overprint Mode	DeviceCMYK, using default Blend Mode
Blending	DeviceCMYK

*) TR2 = Transparency Blending Color Space

06 Nov 2013 PDF/X-4 © Ghent Workgroup, www.gwg.org 16.0

GWG 16.1 - Transparency Basic Blend Modes (DeviceCMYK, Knockout)



PDF Output Intent	ISO Coated v2 300% (ECI)
Transparency Group	Non-Isolated, Knockout, Non-Blending Mode, CS: DeviceCMYK
Overprint Mode	DeviceCMYK, using default Blend Mode
Blending	DeviceCMYK

*) TR2 = Transparency Blending Color Space

04 Jun 2013 PDF/X-4 © Ghent Workgroup, www.gwg.org 16.1

GWG 9.0 - Font Support

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GWG 9.1 – OpenType Font Support

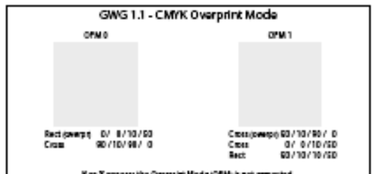
Mamock Pro Semibold – OpenType (Type 1)

Arial Unicode MS – OpenType (TrueType)

If the text in the line above does not look like the image in the line below an error in the rendering of the font occurred.

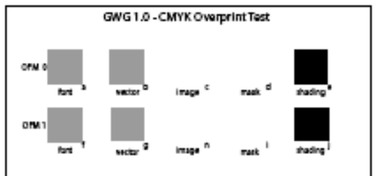
14 Jan 2013 PDF/X-4 © Ghent Workgroup, www.gwg.org 9.1

GWG 1.1 - CMYK Overprint Mode



27 Dec 2006 Ghent PDF Workgroup © www.gwg.org 1.1

GWG 1.0 - CMYK Overprint Test



08 Dec 2006 Ghent PDF Workgroup © www.gwg.org 1.0

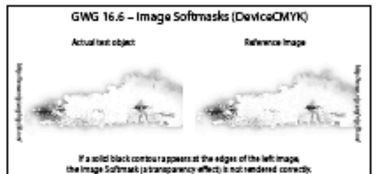
GWG 16.2 - Transparency Basic Blend Modes (DeviceCMYK, Isolated)

PDF Output Intent	ISO Coated v2 300% (ECI)
Transparency Group	Isolated, Blend Mode Normal, CS: DeviceCMYK
Overprint Mode	DeviceCMYK, using default Blend Mode
Blending	DeviceCMYK

*) TR2 = Transparency Blending Color Space

06 Nov 2013 PDF/X-4 © Ghent Workgroup, www.gwg.org 16.2

GWG 16.6 – Image Softmasks (DeviceCMYK)



11 Oct 2013 PDF/X-4 © Ghent Workgroup, www.gwg.org 16.6

GWG 5.1 - Font subset and substitution

	Placed EPS-file n°1 (WLMOK+Myriad-Roman)	Placed EPS-file n°2 (WLNOI+MyriadPro-Roman)
submitted font	12345	45678
expected result	**12345**	**45678**

- If all characters are correct and appear in the right order, the subset fonts have been processed correctly.
- If some characters do not appear or display in the wrong order, incorrect handling of subset fonts has occurred.

11 Nov 2013 Ghent PDF Workgroup © www.gwg.org 5.1

GWG 5.2 - Font subset and substitution

	Placed EPS-file n°1 (FEPTU+MyriadRoman)	Placed EPS-file n°2 (FGNBED+MyriadRoman)
submitted font	12345	45678
expected result	**12345**	**45678**

- If all characters are correct and appear in the right order, the subset fonts have been processed correctly.
- If some characters do not appear or display in the wrong order, incorrect handling of subset fonts has occurred.

11 Nov 2013 Ghent PDF Workgroup © www.gwg.org 5.2

GWG 19.0 – DeviceN Overprint (Black)

OP is true for all topmost elements.

a + b: must be rendered to solid Black (100C100M0Y0K) rectangles
A faint X means, that OP is not honored (or image was converted to DeviceCMYK for b)
c + d: must be rendered to solid Cyan rectangles
c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)
d: X means, that 0% Channels might have been ignored or color was converted

12 Dec 2013 © Ghent Workgroup, www.gwg.org 19.0

GWG 19.1 – DeviceN Overprint (Yellow)

a + b: must be rendered to solid Green rectangles
Cyan X means, that OP is not honored (or image was converted to DeviceCMYK for b)
c + d: must be rendered to solid Cyan rectangles
c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)
d: colored X means, that 0% Channels might have been ignored or color was converted

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GWG 16.8 – Vector Softmasks (part 1)

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GWG 16.9 – Vector Softmasks (part 2)

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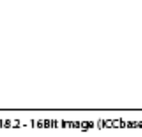
GWG 5.0 - Font Substitution

If a check mark ✓ appears above, then the embedded font is used (correct behavior).
If an other character appears, the embedded font was substituted with a Symbol font installed in the system (host or RIP).

16 Nov 2006 Ghent PDF Workgroup © www.gwg.org 5.0

GWG 18.1 - 16Bit Image (DeviceCMYK)



No X must be visible when rendered correctly.

12 Nov 2013 PDF/X-4 © Ghent Workgroup, www.gwg.org 18.1

GWG 19.2 – DeviceN Overprint (White)

OP is true for all topmost elements.

a + b: must be rendered to solid Red rectangles
White X means, that OP is not honored (or image was converted to DeviceCMYK for b)
c + d: must be rendered to solid White rectangles
c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)
d: colored X means, that 0% Channels might have been ignored or color was converted

12 Dec 2012 © Ghent Workgroup, www.gwg.org 19.2

GWG 8.2 - DeviceN Support (4 colors)

If a checkmark ✓ is visible in the upper right corner then DeviceN is respected (= GOOD).
If no check mark appears then DeviceN color was transformed to CMYK (= ERROR).
If the images are missing completely then DeviceN is not supported at all (= ERROR).

27 Dec 2006 Ghent PDF Workgroup © www.gwg.org 8.2

GWG 16.10 – Text Softmasks (part 1)

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GWG 16.11 – Text Softmasks (part 2)

11 Oct 2013 PDF/X-4 © Ghent Workgroup, www.gwg.org 16.11

GWG 17.0 - JPEG2000 compression (DeviceCMYK)

No "X" must be visible when rendered correctly.

19 Mar 2013 PDF/X-4 © Ghent Workgroup, www.gwg.org 17.0

GWG 17.3 - JBIG2 compression

No "X" must be visible when rendered correctly.

03 July 2013 PDF/X-4 © Ghent Workgroup, www.gwg.org 17.3

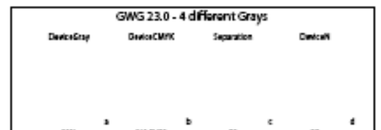
GWG 2.0 - Spot to CMYK Overprint

15 Jun 2010 Ghent PDF Workgroup © www.gwg.org 2.0

GWG 4.1 - White Overprint Mode

8 Apr 2006 Ghent PDF Workgroup © www.gwg.org 4.1

GWG 23.0 - 4 different Grays

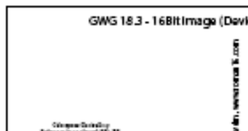


12 Apr 2016 Ghent PDF Workgroup © www.gwg.org 23.0

GWG 13.0 - ICC Source Profile

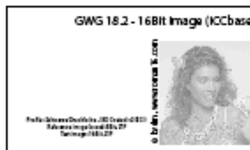
02 Mai 2016 Ghent PDF Workgroup © www.gwg.org PDF/X-4+ICC 13.0

GWG 18.3 - 16Bit Image (DeviceGray)



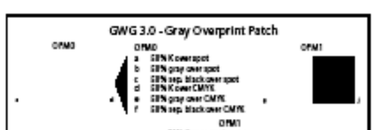
12 Nov 2013 PDF/X-4 © Ghent Workgroup, www.gwg.org 18.3

GWG 18.2 - 16Bit Image (ICCbasedGray)



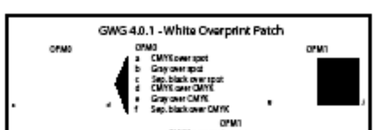
8 Feb 2016 © Ghent Workgroup, www.gwg.org PDF/X-4+ICC 18.2

GWG 3.0 - Gray Overprint Patch



02 Jan 2013 Ghent PDF Workgroup © www.gwg.org 3.0

GWG 4.0.1 - White Overprint Patch

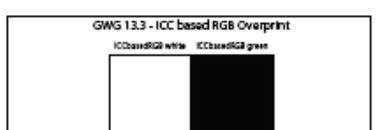


10 Nov 2006 Ghent PDF Workgroup © www.gwg.org 4.0.1

GWG 13.2 - ICC based CMYK Overprint

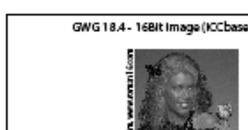
02 Mai 2016 Ghent PDF Workgroup © www.gwg.org PDF/X-4+ICC 13.2

GWG 13.3 - ICC based RGB Overprint



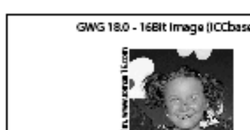
27 Apr 2016 Ghent PDF Workgroup © www.gwg.org PDF/X-4+ICC 13.3

GWG 18.4 - 16Bit Image (ICCbasedCMYK)



12 Nov 2013 © Ghent Workgroup, www.gwg.org PDF/X-4+ICC 18.4

GWG 18.0 - 16Bit Image (ICCbasedRGB)



12 Nov 2013 © Ghent Workgroup, www.gwg.org PDF/X-4+ICC 18.0

GWG 3.1 - Gray Image Overprint (CMYK over Spot)

During flattening in InDesign or Acrobat of drop shadows over spot colors overprinting grayscale images with a white background are created.

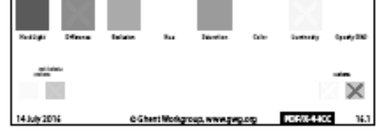
Overprinting must be honored for the output.

21 Jan 2013 Ghent PDF Workgroup © www.gwg.org 3.1

GWG 12.0 - White Overprint/Knockout

29 Aug 2013 Ghent PDF Workgroup © www.gwg.org 12.0

GWG 16.1 - Transparency Basic Blend Modes (ICCbasedRGB)



14 July 2016 © Ghent Workgroup, www.gwg.org PDF/X-4+ICC 16.1

PDF Output Intent	ISO Coated v2 300% (ECI)
Transparency Group	Non-Isolated, Knockout, Non-Blending Mode, CS: DeviceCMYK
Overprint Mode	DeviceCMYK, using default Blend Mode
Blending	DeviceCMYK

*) TR2 = Transparency Blending Color Space

16 Oct 2015 © Ghent Workgroup, www.gwg.org PDF/X-4+ICC 16.4

GWG 20.5 – CMYK Image with ICC V4 profile

CMYK image with ICC V4 profile
Output Intent has an ICC V2 profile

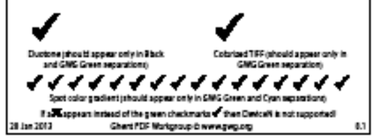
27 November 2015 © Ghent Workgroup, www.gwg.org PDF/X-4+ICC 20.5

GWG 20.6 – RGB Image with ICC V4 profile

RGB image with ICCV4 profile
Output Intent has an ICC V2 profile

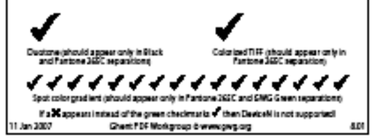
27 November 2015 © Ghent Workgroup, www.gwg.org PDF/X-4+ICC 20.6

GWG 8.1 - DeviceN Support (5 colors)



28 Jan 2013 Ghent PDF Workgroup © www.gwg.org 8.1

GWG 8.01 - DeviceN Support (6 colors)



11 Jan 2007 Ghent PDF Workgroup © www.gwg.org 8.01

GWG 16.7 – Image Softmasks (ICCBasedRGB)

19 Mar 2013 © Ghent Workgroup, www.gwg.org PDF/X-4+ICC 16.7

GWG 17.2 - JPEG2000 compression (ICCBasedRGB)

No "X" must be visible when rendered correctly.

11 Nov 2015 © Ghent Workgroup, www.gwg.org PDF/X-4+ICC 17.2

GWG 22.0 – Color Conversion Indicator

If an X is visible a color conversion or an ink saving operation have been applied to the PDF.
Certain transparency blend modes (e.g. Hard Light) can deliver a completely different result after a color conversion.

14 Oct 2015 PDF/X-4 © Ghent Workgroup, www.gwg.org 22.0

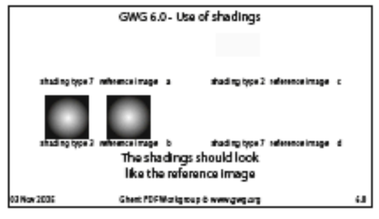
GWG 22.1 – OutPutIntent Change Indicator

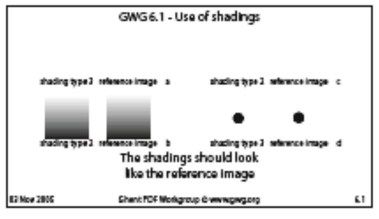
If an X is visible the Output Intent of the PDF (ISO Coated v2 300% (ECI)) has been changed.

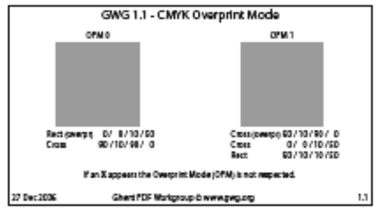
23 Dec 2016 © Ghent Workgroup, www.gwg.org PDF/X-4+ICC 22.1

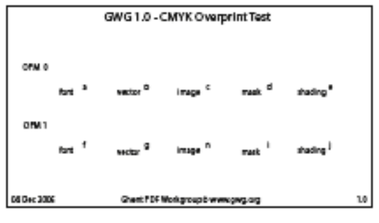
The pages contain test patches with essential features of PDF/X-4 (ISO 15930-7).
Errors are identified either with a cross or by a deviation from the integrated reference images.

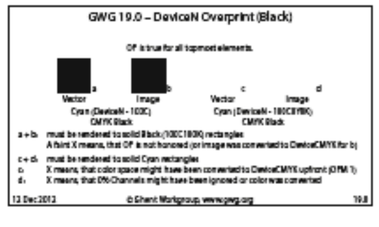
Personalized test pages are required for Ghent PDF Output Suite 5.0 Conformance Certification!!!

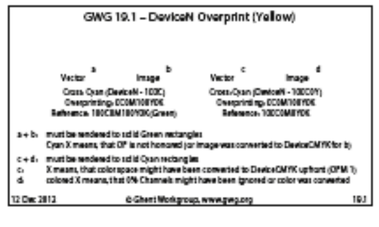


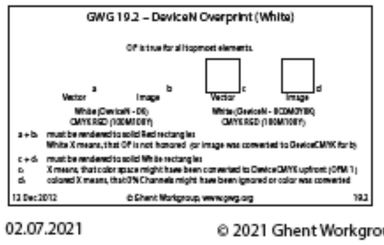


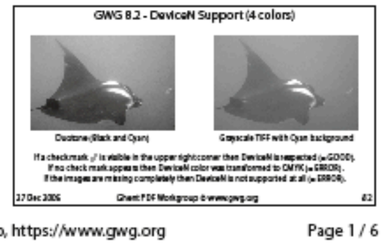






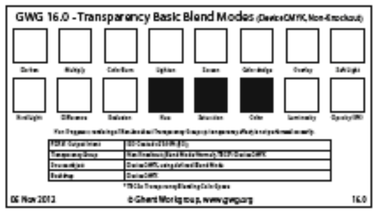


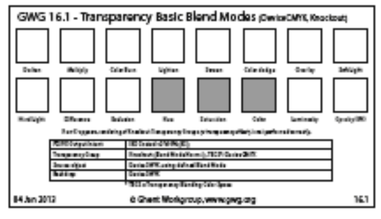


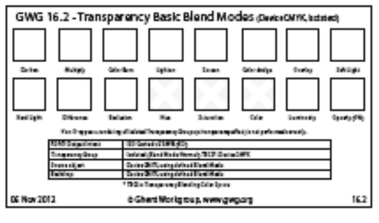


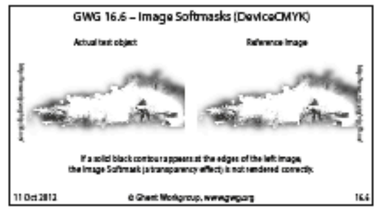
Die Seiten enthalten Testpatches mit wesentlichen Merkmalen von PDF/X-4 (ISO 15930-7).
Fehler sind mit einem Kreuz oder durch eine Abweichung vom integrierten Referenzbilder zu erkennen.

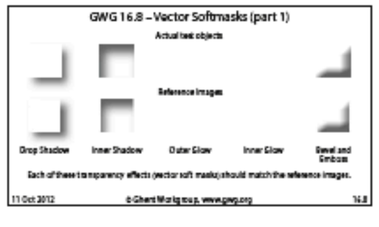
Personalisierte Testseiten sind für die Gent PDF Output Suite 5.0 Conformance Certification erforderlich!!!

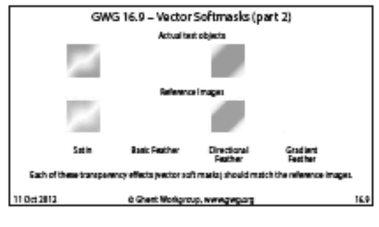


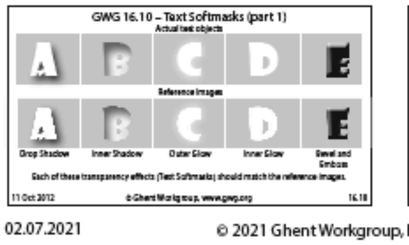


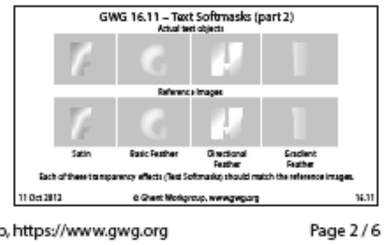






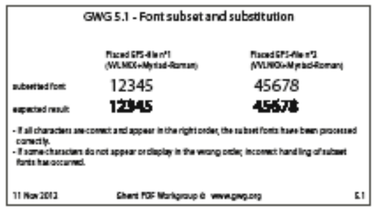


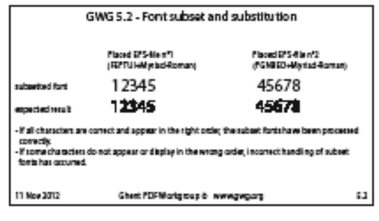


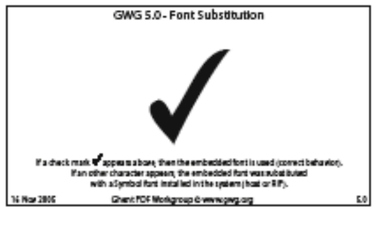


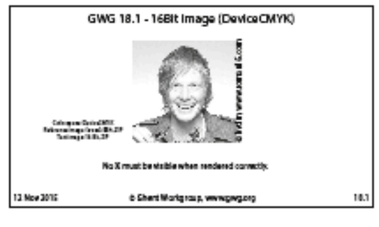
Les pages contiennent des patches de test comprenant des fonctionnalités essentielles de PDF/X-4 (ISO 15930-7).
Les erreurs sont identifiées soit par une croix, soit selon une déviation par rapport aux images de référence.

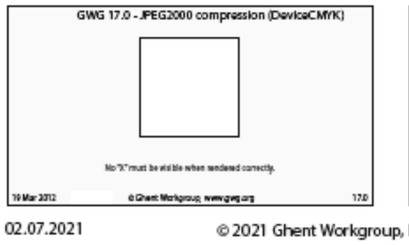
Des pages de test personnalisées sont requises pour la certification de conformité de Ghent PDF Output Suite 5.0 !!!

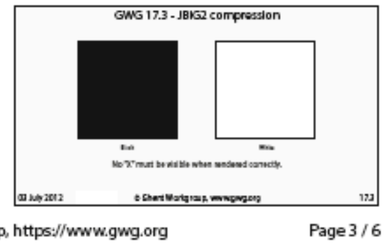






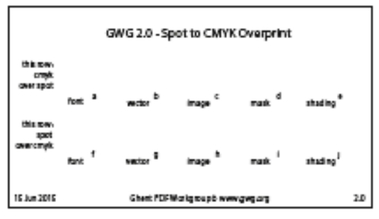


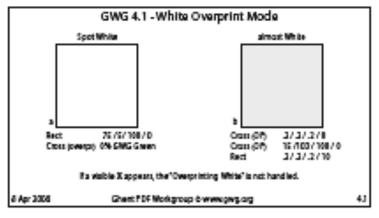


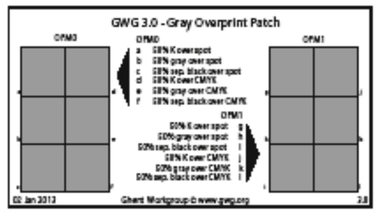


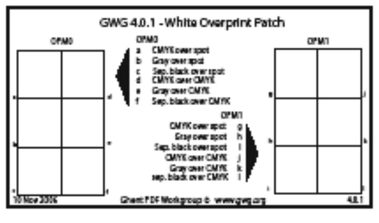
De pagina's bevatten test patches met essentiële PDF/X-4 (ISO 15930-7) features.
Fouten worden aangeduid met ofwel een kruis of door een afwijking met het geïntegreerde referentiebeeld.

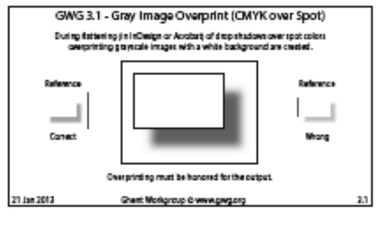
Gepersonaliseerde testpagina's zijn vereist voor Ghent PDF Output Suite 5.0 Conformance Certification!!!

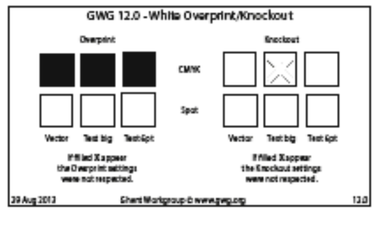


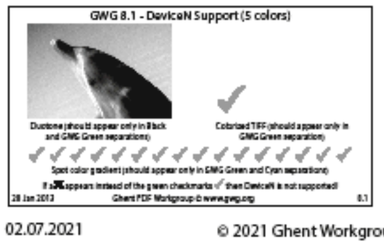


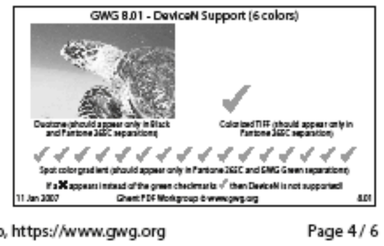






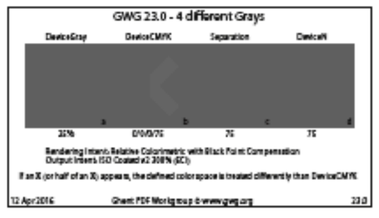


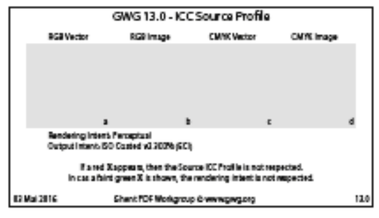


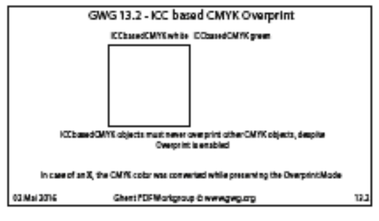


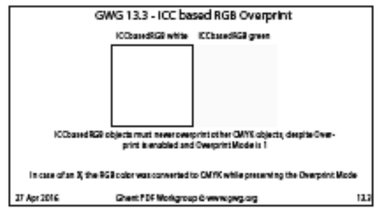
Las páginas contienen parches de prueba con características esenciales de PDF/X-4 (ISO 15930-7).
Los errores se identifican con una cruz o con una desviación de las imágenes de referencia integradas.

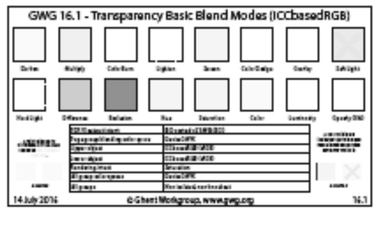
Las páginas de prueba personalizadas son necesarias para la certificación de conformidad de Ghent PDF Output Suite 5.0!!!

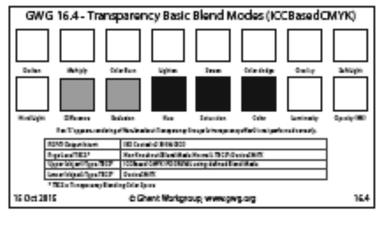


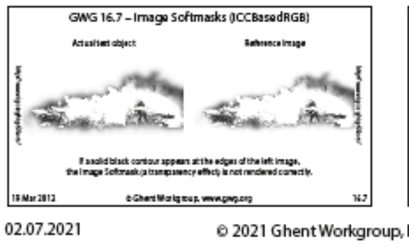


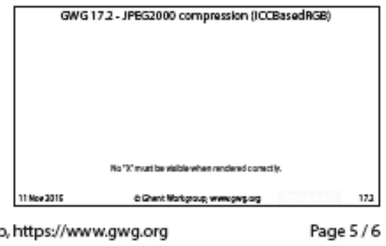






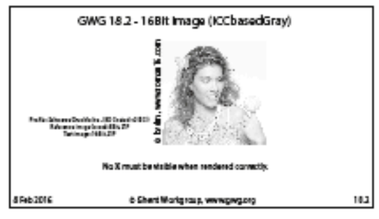


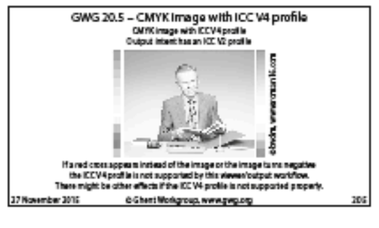


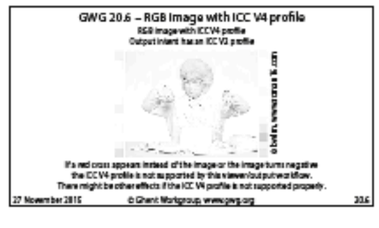


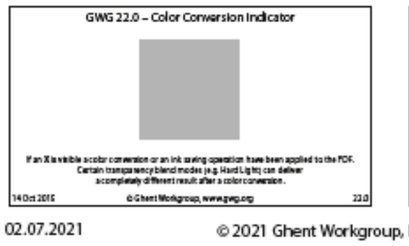
Le pagine contengono patch di prova con caratteristiche essenziali di PDF/X-4 (ISO 15930-7).
Gli errori sono identificati da una croce o da una deviazione dalle immagini di riferimento integrate.

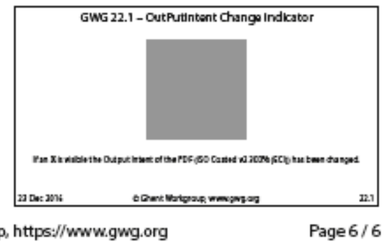
Le pagine di prova personalizzate sono necessarie per la certificazione di conformità di Ghent PDF Output Suite 5.0!!!











GWG 6.0 - Use of shadings

shading type 7 reference image a — shading type 2 reference image c

shading type 2 reference image b — shading type 7 reference image d

The shadings should look like the reference image

GWG 6.1 - Use of shadings

shading type 3 reference image a — shading type 3 reference image c

shading type 2 reference image b — shading type 3 reference image d

The shadings should look like the reference image

GWG 16.0 - Transparency Basic Blend Modes (DeviceCMYK, Non-Knockout)

Darken Multiply ColorBurn Lighten Screen ColorDodge Overlay SoftLight

HardLight Difference Exclusion Hue Saturation Color Luminosity Opacity(0%)

For Ps appears rendering of Normal and Transparency Group is transparency effects is not performed correctly.

PDF Output Intent:	ISO Coated v2 300% (ECI)
Transparency Group:	Non-Knockout (Blend Mode Normal), *RGB (DeviceRGB)
Document Open:	DeviceCMYK using default Blend Mode
Page Group:	DeviceCMYK

*RGB is Transparency Blending Color Space

GWG 16.1 - Transparency Basic Blend Modes (DeviceCMYK, Knockout)

Darken Multiply ColorBurn Lighten Screen ColorDodge Overlay SoftLight

HardLight Difference Exclusion Hue Saturation Color Luminosity Opacity(0%)

For Ps appears rendering of Normal and Transparency Group is transparency effects is not performed correctly.

PDF Output Intent:	ISO Coated v2 300% (ECI)
Transparency Group:	Knockout (Blend Mode Normal), *RGB (DeviceRGB)
Document Open:	DeviceCMYK using default Blend Mode
Page Group:	DeviceCMYK

*RGB is Transparency Blending Color Space

GWG 9.0 - Font Support

GWG 9.1 – OpenType Font Support

Mamock Pro Semibold – OpenType (Type 1)

Arial Unicode MS – OpenType (TrueType)

If the text in the line above does not look like the image in the line below an error in the rendering of the font occured.

GWG 1.1 - CMYK Overprint Mode

OPM 0 — OPM 1

Rect (overp) 0 / 0 / 0 / 53 — Cross (overp) 53 / 0 / 0 / 0

Cross 90 / 0 / 0 / 0 — Cross 0 / 0 / 0 / 53

Rect 53 / 0 / 0 / 53

If an X appears the Overprint Mode (OPM) is not respected.

GWG 1.0 - CMYK Overprint Test

OPM 0

font a — vector b — image c — mask d — shading e

OPM 1

font f — vector g — image h — mask i — shading j

GWG 16.2 - Transparency Basic Blend Modes (DeviceCMYK, Isolated)

Darken Multiply ColorBurn Lighten Screen ColorDodge Overlay SoftLight

HardLight Difference Exclusion Hue Saturation Color Luminosity Opacity(0%)

For Ps appears rendering of Isolated Transparency Group is transparency effects is not performed correctly.

PDF Output Intent:	ISO Coated v2 300% (ECI)
Transparency Group:	Isolated (Blend Mode Normal), *RGB (DeviceRGB)
Document Open:	DeviceCMYK using default Blend Mode
Page Group:	DeviceCMYK using default Blend Mode

*RGB is Transparency Blending Color Space

GWG 16.6 – Image Softmasks (DeviceCMYK)

Actual text object — Reference Image

If a solid black contour appears at the edges of the left image, the Image Softmask (a transparency effect) is not rendered correctly.

GWG 5.1 - Font subset and substitution

	Placed EPS-file n°1 (WLMGK+Mytsd-Roman)	Placed EPS-file n°2 (WLMGK+Mytsd-Roman)
subsetted font:	12345	45678
expected result:	**12345**	**45678**

- If all characters are correct and appear in the right order, the subset fonts have been processed correctly.
- If some characters do not appear or display in the wrong order, incorrect handling of subset fonts has occurred.

GWG 5.2 - Font subset and substitution

	Placed EPS-file n°1 (FJFTU+Mytsd-Roman)	Placed EPS-file n°2 (FGNBED+Mytsd-Roman)
subsetted font:	12345	45678
expected result:	**12345**	**45678**

- If all characters are correct and appear in the right order, the subset fonts have been processed correctly.
- If some characters do not appear or display in the wrong order, incorrect handling of subset fonts has occurred.

GWG 19.0 – DeviceN Overprint (Black)

OP is true for all topmost elements.

a Vector Cyan (DeviceN - 100C) CMYK Black — b Image Cyan (DeviceN - 100C81M0K) CMYK Black — c Vector — d Image

a + b: must be rendered to solid Black (100C100K) rectangles. A faint X means, that OP is not honored (or image was converted to DeviceCMYK for b)

c + d: must be rendered to solid Cyan rectangles

c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)

d: X means, that 0% Channels might have been ignored or color was converted

GWG 19.1 – DeviceN Overprint (Yellow)

a Vector — b Image — c Vector — d Image

Cross-Cyan (DeviceN - 100C) Overprinting: 100M100Y0K Reference: 100C0M100Y0K(Green) — Cross-Cyan (DeviceN - 100C0Y) Overprinting: 100M100Y0K Reference: 100C0M0Y0K

a + b: must be rendered to solid Green rectangles. Cyan X means, that OP is not honored (or image was converted to DeviceCMYK for b)

c + d: must be rendered to solid Cyan rectangles

c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)

d: colored X means, that 0% Channels might have been ignored or color was converted

GWG 16.8 – Vector Softmasks (part 1)

Actual text objects

Reference Images

Drop Shadow — Inner Shadow — Outer Glow — Inner Glow — Bevel and Emboss

Each of these transparency effects (vector soft masks) should match the reference images.

GWG 16.9 – Vector Softmasks (part 2)

Actual text objects

Reference Images

Satin — Basic Feather — Directional Feather — Gradient Feather

Each of these transparency effects (vector soft masks) should match the reference images.

GWG 5.0 - Font Substitution

If a check mark ✔ appears above, then the embedded font is used (correct behavior).
If an other character appears, the embedded font was substituted with a Symbol font installed in the system (host or RIP).

GWG 18.1 - 16Bit Image (DeviceCMYK)

No X must be visible when rendered correctly.

GWG 19.2 – DeviceN Overprint (White)

OP is true for all topmost elements.

a Vector White (DeviceN - 0K) CMYKRGD (100M100Y) — b Image — c Vector White (DeviceN - 80C40Y0K) CMYKRGD (180M100Y) — d Image

a + b: must be rendered to solid Red rectangles. White X means, that OP is not honored (or image was converted to DeviceCMYK for b)

c + d: must be rendered to solid White rectangles

c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)

d: colored X means, that 0% Channels might have been ignored or color was converted

GWG 8.2 - DeviceN Support (4 colors)

Duotone (Black and Cyan) — Grayscale TIFF with Cyan background

If a checkmark is visible in the upper right corner then DeviceN is respected (= GOOD).
If no check mark appears then DeviceN color was transformed to CMYK (= ERROR).
If the images are missing completely then DeviceN is not supported at all (= ERROR).

GWG 16.10 – Text Softmasks (part 1)

Actual text objects

Reference Images

Drop Shadow — Inner Shadow — Outer Glow — Inner Glow — Bevel and Emboss

Each of these transparency effects (Text Softmasks) should match the reference images.

GWG 16.11 – Text Softmasks (part 2)

Actual text objects

Reference Images

Satin — Basic Feather — Directional Feather — Gradient Feather

Each of these transparency effects (Text Softmasks) should match the reference images.

GWG 17.0 - JPEG2000 compression (DeviceCMYK)

No "X" must be visible when rendered correctly.

GWG 17.3 - JBIG2 compression

Black — White

No "X" must be visible when rendered correctly.

GWG 2.0 - Spot to CMYK Overprint

this rows: cmyk over spot: font a — vector b — image c — mask d — shading e

this rows: spot over cmyk: font f — vector g — image h — mask i — shading j

GWG 4.1 - White Overprint Mode

Spot White — almost White

a: Rect 75 / 51 / 100 / 0 — Cross (overp) 0% GWG Green

b: Cross (OP) 3 / 3 / 3 / 8 — Cross (OP) 16 / 10 / 100 / 0 — Rect 3 / 3 / 3 / 10

If a visible X appears, the "Overprinting White" is not handled.

GWG 23.0 - 4 different Grays

DeviceGray — DeviceCMYK — Separation — DeviceN

a 35% — b 0/0/0/75 — c 75 — d 75

Rendering Intent: Relative Colorimetric with Black Point Compensation
Output Intent: ISO Coated v2 300% (ECI)

If an X (or half of an X) appears, the defined color space is treated differently than DeviceCMYK

GWG 13.0 - ICC Source Profile

RGB Vector — RGB Image — CMYK Vector — CMYK Image

a — b — c — d

Rendering Intent: Perceptual
Output Intent: ISO Coated v2 300% (ECI)

If a red X appears, then the Source ICC Profile is not respected.
In case a faint green X is shown, the rendering intent is not respected.

GWG 18.3 - 16Bit Image (DeviceGray)

No X must be visible when rendered correctly.

GWG 18.2 - 16Bit Image (ICCbasedGray)

No X must be visible when rendered correctly.

GWG 3.0 - Gray Overprint Patch

OPM 0: a 50% K over spot; b 50% gray over spot; c 50% sep. black over spot; d 50% K over CMYK; e 50% gray over CMYK; f 50% sep. black over CMYK

OPM 1: g 50% K over spot; h 50% gray over spot; i 50% sep. black over spot; j 50% K over CMYK; k 50% gray over CMYK; l 50% sep. black over CMYK

GWG 4.0.1 - White Overprint Patch

OPM 0: a CMYK over spot; b Gray over spot; c Sep. black over spot; d CMYK over CMYK; e Gray over CMYK; f Sep. black over CMYK

OPM 1: g CMYK over spot; h Gray over spot; i Sep. black over spot; j CMYK over CMYK; k Gray over CMYK; l sep. black over CMYK

GWG 13.2 - ICC based CMYK Overprint

ICCbasedCMYK white — ICCbasedCMYK green

ICCbasedCMYK objects must never overprint other CMYK objects, despite Overprint is enabled

In case of an X, the CMYK color was converted while preserving the OverprintMode

GWG 13.3 - ICC based RGB Overprint

ICCbasedRGB white — ICCbasedRGB green

ICCbasedRGB objects must never overprint other CMYK objects, despite Overprint is enabled and Overprint Mode is 1

In case of an X, the RGB color was converted to CMYK while preserving the Overprint Mode

GWG 18.4 - 16Bit Image (ICCbasedCMYK)

No X must be visible when rendered correctly.

GWG 18.0 - 16Bit Image (ICCbasedRGB)

No X must be visible when rendered correctly.

GWG 3.1 - Gray Image Overprint (CMYK over Spot)

During flattening in InDesign or Acrobat of drop shadows over spot colors overprinting grayscale images with a white background are created.

Reference — Reference

Correct — Wrong

Overprinting must be honored for the output.

GWG 12.0 - White Overprint/Knockout

Overprint — Knockout

CMYK — Spot

Vector Text big Text 6pt — Vector Text big Text 6pt

If filled X appear the Overprint settings were not respected.

If filled X appear the Knockout settings were not respected.

GWG 16.1 - Transparency Basic Blend Modes (ICCbasedRGB)

Darken Multiply ColorBurn Lighten Screen ColorDodge Overlay SoftLight

HardLight Difference Exclusion Hue Saturation Color Luminosity Opacity(0%)

GWG 16.4 - Transparency Basic Blend Modes (ICCbasedCMYK)

For Ps appears rendering of Normal and Transparency Group is transparency effects is not performed correctly.

ICC Output Intent:	ISO Coated v2 300% (ECI)
Page Level *RGB:	Non-Knockout (Blend Mode Normal), *RGB (DeviceRGB)
Layer Object Type *RGB:	ICCBased (GRAY, RGB, CMYK) using default Blend Mode
Group Object Type *RGB:	DeviceRGB

*RGB is Transparency Blending Color Space

GWG 20.5 – CMYK Image with ICC V4 profile

CMYK image with ICCV4 profile
Output intent has an ICC V2 profile

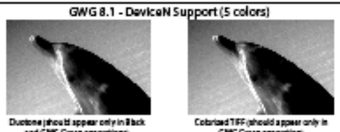
If a red cross appears instead of the image or the image turns negative the ICCV4 profile is not supported by this viewer/output workflow.
There might be other effects if the ICC V4 profile is not supported properly.

GWG 20.6 – RGB Image with ICC V4 profile

RGB image with ICCV4 profile
Output intent has an ICC V3 profile

If a red cross appears instead of the image or the image turns negative the ICCV4 profile is not supported by this viewer/output workflow.
There might be other effects if the ICC V4 profile is not supported properly.

GWG 8.1 - DeviceN Support (5 colors)



Duotone (should appear only in Black and GMG Green separations) — Colorized TIFF (should appear only in GMG Green separations)

Spot color gradient (should appear only in GMG Green and Cyan separations)

If a ✖ appears instead of the green checkmarks then DeviceN is not supported!

GWG 8.01 - DeviceN Support (6 colors)

Duotone (should appear only in Black and Pantone 3425C separations) — Colorized TIFF (should appear only in Pantone 3425C separation)

Spot color gradient (should appear only in Pantone 2562C and GMG Green separations)

If a ✖ appears instead of the green checkmarks then DeviceN is not supported!

GWG 16.7 – Image Softmasks (ICCBasedRGB)

Actual text object — Reference Image

If a solid black contour appears at the edges of the left image, the Image Softmask (a transparency effect) is not rendered correctly.

GWG 17.2 - JPEG2000 compression (ICCBasedRGB)

GWG 22.0 – Color Conversion Indicator

If an X is visible a color conversion or an ink saving operation have been applied to the PDF.
Certain transparency blend modes (e.g. Hard Light) can deliver accompletely different result after a color conversion.

GWG 22.1 – OutPutIntent Change Indicator

If an X is visible the Output Intent of the PDF (ISO Coated v2 300% (ECI)) has been changed.

GWG 6.0 - Use of shadings

shading type 7 reference image a — shading type 2 reference image c

shading type 2 reference image b — shading type 7 reference image d

The shadings should look like the reference image

03 Nov 2006 — Ghent PDF Workgroup © www.gwg.org — 6.0

GWG 6.1 - Use of shadings

shading type 2 reference image a — shading type 3 reference image c

shading type 2 reference image b — shading type 3 reference image d

The shadings should look like the reference image

02 Nov 2006 — Ghent PDF Workgroup © www.gwg.org — 6.1

GWG 16.0 - Transparency Basic Blend Modes (DeviceCMYK, Non-Knockout)

Darken Multiply ColorBurn Lighten Screen ColorDodge Overlay SoftLight

HardLight Difference Exclusion Hue Saturation Color Luminosity Opacity(0%)

Five P appears rendering of Transparency Group properties (only if transparency effects is not performed correctly.

PDF Output Intent:	ISO Coated v2 300% (ECI)
Transparency Group:	Non-Knockout, Blend Mode Normal, *RGB Device CMYK
Document Open:	Device CMYK, using default Blend Mode
Page Group:	Device CMYK

*RGB or Transparency Blending Color Space

05 Nov 2012 — © Ghent Workgroup, www.gwg.org — 16.0

GWG 16.1 - Transparency Basic Blend Modes (DeviceCMYK, Knockout)

Darken Multiply ColorBurn Lighten Screen ColorDodge Overlay SoftLight

HardLight Difference Exclusion Hue Saturation Color Luminosity Opacity(0%)

Five P appears rendering of Knockout Transparency Group properties (only if transparency effects is not performed correctly.

PDF Output Intent:	ISO Coated v2 300% (ECI)
Transparency Group:	Knockout, Blend Mode Normal, *RGB Device CMYK
Document Open:	Device CMYK, using default Blend Mode
Page Group:	Device CMYK

*RGB or Transparency Blending Color Space

04 Jun 2012 — © Ghent Workgroup, www.gwg.org — 16.1

GWG 9.0 - Font Support

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GWG 9.1 – OpenType Font Support

Mamock Pro Semibold – OpenType (Type 1)

Arial Unicode MS – OpenType (TrueType)

If the text in the line above does not look like the image in the line below an error in the rendering of the font occured.

14 Jan 2012 — © Ghent Workgroup, www.gwg.org — 9.1

GWG 1.1 - CMYK Overprint Mode

OPM 0 — OPM 1

Rect (overp) 0 / 0 / 0 / 0.3 — Cross (overp) 0.3 / 0 / 0 / 0

Cross 90 / 10 / 90 / 0 — Cross 0 / 0 / 0 / 0.5

Rect 0.3 / 0 / 0 / 0.5

If an X appears the Overprint Mode (OPM) is not respected.

27 Dec 2006 — Ghent PDF Workgroup © www.gwg.org — 1.1

GWG 1.0 - CMYK Overprint Test

OPM 0

font a — vector b — image c — mask d — shading e

OPM 1

font f — vector g — image h — mask i — shading j

08 Dec 2006 — Ghent PDF Workgroup © www.gwg.org — 1.0

GWG 16.2 - Transparency Basic Blend Modes (DeviceCMYK, isolated)

Darken Multiply ColorBurn Lighten Screen ColorDodge Overlay SoftLight

HardLight Difference Exclusion Hue Saturation Color Luminosity Opacity(0%)

Five P appears rendering of Isolated Transparency Group properties (only if transparency effects is not performed correctly.

PDF Output Intent:	ISO Coated v2 300% (ECI)
Transparency Group:	Isolated, Blend Mode Normal, *RGB Device CMYK
Document Open:	Device CMYK, using default Blend Mode
Page Group:	Device CMYK, using default Blend Mode

*RGB or Transparency Blending Color Space

05 Nov 2012 — © Ghent Workgroup, www.gwg.org — 16.2

GWG 16.6 – Image Softmasks (DeviceCMYK)

Actual text object — Reference Image

If a solid black contour appears at the edges of the left image, the Image Softmask (a transparency effect) is not rendered correctly.

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GWG 5.1 - Font subset and substitution

	Placed EPS-file n°1 (WLMGK+Mytsd-Roman)	Placed EPS-file n°2 (WLMGK+Mytsd-Roman)
subsetted font:	12345	45678
expected result:	**12345**	**45678**

- If all characters are correct and appear in the right order, the subset fonts have been processed correctly.
- If some characters do not appear or display in the wrong order, incorrect handling of subset fonts has occurred.

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GWG 5.2 - Font subset and substitution

	Placed EPS-file n°1 (FEPTU+Mytsd-Roman)	Placed EPS-file n°2 (FGNBED+Mytsd-Roman)
subsetted font:	12345	45678
expected result:	**12345**	**45678**

- If all characters are correct and appear in the right order, the subset fonts have been processed correctly.
- If some characters do not appear or display in the wrong order, incorrect handling of subset fonts has occurred.

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GWG 19.0 – DeviceN Overprint (Black)

OP is true for all topmost elements.

a Vector Cyan (DeviceN - 100C) CMYK Black — b Image Cyan (DeviceN - 100C0M0Y0K) CMYK Black — c Vector — d Image

a + b: must be rendered to solid Black (100C100K) rectangles
A faint X means, that OP is not honored (or image was converted to DeviceCMYK for b)

c + d: must be rendered to solid Cyan rectangles
c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)
d: X means, that 0% Channels might have been ignored or color was converted

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GWG 19.1 – DeviceN Overprint (Yellow)

a Vector — b Image Cross-Cyan (DeviceN - 100C) Overprinting: 0C0M100Y0K Reference: 100C0M100Y0K(Green) — c Vector — d Image Cross-Cyan (DeviceN - 100C0Y) Overprinting: 0C0M100Y0K Reference: 100C0M0Y0K

a + b: must be rendered to solid Green rectangles
Cyan X means, that OP is not honored (or image was converted to DeviceCMYK for b)

c + d: must be rendered to solid Cyan rectangles
c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)
d: colored X means, that 0% Channels might have been ignored or color was converted

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GWG 16.8 – Vector Softmasks (part 1)

Actual text objects

Reference Images

Drop Shadow — Inner Shadow — Outer Glow — Inner Glow — Bevel and Emboss

Each of these transparency effects (vector soft masks) should match the reference images.

11 Oct 2012 — © Ghent Workgroup, www.gwg.org — 16.8

GWG 16.9 – Vector Softmasks (part 2)

Actual text objects

Reference Images

Satin — Basic Feather — Directional Feather — Gradient Feather

Each of these transparency effects (vector soft masks) should match the reference images.

11 Oct 2012 — © Ghent Workgroup, www.gwg.org — 16.9

GWG 5.0 - Font Substitution

If a check mark ✔ appears above, then the embedded font is used (correct behavior).
If an other character appears, the embedded font was substituted with a Symbol font installed in the system (host or RIP).

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GWG 18.1 - 16Bit Image (DeviceCMYK)

No X must be visible when rendered correctly.

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GWG 19.2 – DeviceN Overprint (White)

OP is true for all topmost elements.

a Vector White (DeviceN - 0N) CMYKRGD (100M100Y) — b Image — c Vector White (DeviceN - 80M0Y80K) CMYKRGD (180M100Y) — d Image

a + b: must be rendered to solid Red rectangles
White X means, that OP is not honored (or image was converted to DeviceCMYK for b)

c + d: must be rendered to solid White rectangles
c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)
d: colored X means, that 0% Channels might have been ignored or color was converted

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GWG 8.2 - DeviceN Support (4 colors)

Duotone (Black and Cyan) — Grayscale TIFF with Cyan background

If a checkmark is visible in the upper right corner then DeviceN is respected (= GOOD).
If no check mark appears then DeviceN color was transformed to CMYK (= ERROR).
If the images are missing completely then DeviceN is not supported at all (= ERROR).

27 Dec 2006 — Ghent PDF Workgroup © www.gwg.org — 8.2

GWG 16.10 – Text Softmasks (part 1)

Actual text objects

Reference Images

Drop Shadow — Inner Shadow — Outer Glow — Inner Glow — Bevel and Emboss

Each of these transparency effects (Text Softmasks) should match the reference images.

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GWG 16.11 – Text Softmasks (part 2)

Actual text objects

Reference Images

Satin — Basic Feather — Directional Feather — Gradient Feather

Each of these transparency effects (Text Softmasks) should match the reference images.

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GWG 17.0 - JPEG2000 compression (DeviceCMYK)

No "X" must be visible when rendered correctly.

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GWG 17.3 - JBIG2 compression

Black — White

No "X" must be visible when rendered correctly.

03 July 2012 — © Ghent Workgroup, www.gwg.org — 17.3

GWG 2.0 - Spot to CMYK Overprint

this box: cmyk over spot: font a — vector b — image c — mask d — shading e

this box: spot over cmyk: font f — vector g — image h — mask i — shading j

15 Jun 2010 — Ghent PDF Workgroup © www.gwg.org — 2.0

GWG 4.1 - White Overprint Mode

Spot White — almost White

a: Rect 75 / 51 / 100 / 0 — Cross (overp): 0% GWG Green

b: Cross (OP) 3 / 3 / 3 / 8 — Cross (OP) 16 / 100 / 100 / 0 — Rect 3 / 3 / 3 / 10

If a visible X appears, the "Overprinting White" is not handled.

8 Apr 2008 — Ghent PDF Workgroup © www.gwg.org — 4.1

GWG 3.0 - Gray Overprint Patch

OPM 0 — OPM 1

a 50% K over spot
b 50% gray over spot
c 50% sep. black over spot
d 50% K over CMYK
e 50% gray over CMYK
f 50% sep. black over CMYK

OPM 1

g 50% K over spot
h 50% gray over spot
i 50% sep. black over spot
j 50% K over CMYK
k 50% gray over CMYK
l 50% sep. black over CMYK

02 Jan 2013 — Ghent PDF Workgroup © www.gwg.org — 3.0

GWG 4.0.1 - White Overprint Patch

OPM 0 — OPM 1

a CMYK over spot
b Gray over spot
c Sep. black over spot
d CMYK over CMYK
e Gray over CMYK
f Sep. black over CMYK

OPM 1

g CMYK over spot
h Gray over spot
i Sep. black over spot
j CMYK over CMYK
k Gray over CMYK
l sep. black over CMYK

10 Nov 2006 — Ghent PDF Workgroup © www.gwg.org — 4.0.1

GWG 3.1 - Gray Image Overprint (CMYK over Spot)

During flattening in InDesign or Acrobat of drop shadows over spot colors overprinting grayscale images with a white background are created.

Reference — Reference

Correct — Wrong

Overprinting must be honored for the output.

21 Jan 2013 — Ghent PDF Workgroup © www.gwg.org — 3.1

GWG 12.0 - White Overprint/Knockout

Overprint — Knockout

CMYK

Spot

Vector Text big Text 6pt — Vector Text big Text 6pt

If filled X appear the Overprint settings were not respected.

If filled X appear the Knockout settings were not respected.

29 Aug 2013 — Ghent PDF Workgroup © www.gwg.org — 12.0

GWG 8.1 - DeviceN Support (5 colors)

Duotone (should appear only in Black and GWG Green separations) — Colorized TIFF (should appear only in GWG Green separation)

Spot color gradient (should appear only in GWG Green and Cyan separations)

If a ✖ appears instead of the green checkmarks then DeviceN is not supported!

28 Jan 2013 — Ghent PDF Workgroup © www.gwg.org — 8.1

GWG 8.01 - DeviceN Support (6 colors)

Duotone (should appear only in Black and Pantone 360C separations) — Colorized TIFF (should appear only in Pantone 360C separation)

Spot color gradient (should appear only in Pantone 360C and GWG Green separations)

If a ✖ appears instead of the green checkmarks then DeviceN is not supported!

11 Jan 2007 — Ghent PDF Workgroup © www.gwg.org — 8.01

GWG 23.0 - 4 different Grays

DeviceGray — DeviceCMYK — Separation — DeviceN

a: 35% — b: 0/0/0/75 — c: 75 — d: 75

Rendering Intent: Relative Colorimetric with Black Point Compensation
Output Intent: ISO Coated v2 300% (ECI)

If an X (or half of an X) appears, the defined color space is treated differently than DeviceCMYK

13 Apr 2016 — Ghent PDF Workgroup © www.gwg.org — 23.0

GWG 13.0 - ICC Source Profile

RGB Vector — RGB Image — CMYK Vector — CMYK Image

a Rendering Intent: Perceptual — b — c — d

Output Intent: ISO Coated v2 300% (ECI)

If a red X appears, then the Source ICC Profile is not respected.
In case a faint green X is shown, the rendering intent is not respected.

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GWG 13.2 - ICC based CMYK Overprint

ICCbasedCMYK white — ICCbasedCMYK green

ICCbasedCMYK objects must never overprint other CMYK objects, despite Overprint is enabled

In case of an X, the CMYK color was converted while preserving the OverprintMode

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GWG 13.3 - ICC based RGB Overprint

ICCbasedRGB white — ICCbasedRGB green

ICCbasedRGB objects must never overprint other CMYK objects, despite Overprint is enabled and Overprint Mode is 1

In case of an X, the RGB color was converted to CMYK while preserving the Overprint Mode

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GWG 16.1 - Transparency Basic Blend Modes (ICCbasedRGB)

Darken Multiply ColorBurn Lighten Screen ColorDodge Overlay SoftLight

HardLight Difference Exclusion Hue Saturation Color Luminosity Opacity(0%)

Five T appears rendering of Knockout Transparency Group properties (only if transparency effects is not performed correctly.

ICC V2 Output Intent:	ISO Coated v2 300% (ECI)
Page Level *RGB:	Non-Knockout, Blend Mode Normal, *RGB Device CMYK
Page Level Type *RGB:	ICC Based or CMYK, NO BLEND, using default Blend Mode
Group Object Type *RGB:	Device CMYK

*RGB or Transparency Blending Color Space

14 July 2016 — © Ghent Workgroup, www.gwg.org — 16.1

GWG 16.4

16 Oct 2015 — © Ghent Workgroup, www.gwg.org — 16.4

GWG 16.7 – Image Softmasks (ICCBasedRGB)

Actual text object — Reference Image

If a solid black contour appears at the edges of the left image, the Image Softmask (a transparency effect) is not rendered correctly.

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GWG 17.2 - JPEG2000 compression (ICCBasedRGB)

11 Nov 2015 — © Ghent Workgroup, www.gwg.org — 17.2

GWG 20.5 – CMYK Image with ICC V4 profile

CMYK image with ICCV4 profile
Output intent has an ICC V2 profile

If a red cross appears instead of the image or the image turns negative the ICCV4 profile is not supported by this viewer/output workflow.
There might be other effects if the ICC V4 profile is not supported properly.

27 November 2015 — © Ghent Workgroup, www.gwg.org — 20.5

GWG 20.6 – RGB Image with ICC V4 profile

RGB image with ICCV4 profile
Output intent has an ICC V3 profile

If a red cross appears instead of the image or the image turns negative the ICCV4 profile is not supported by this viewer/output workflow.
There might be other effects if the ICC V4 profile is not supported properly.

27 November 2015 — © Ghent Workgroup, www.gwg.org — 20.6

GWG 22.0 – Color Conversion Indicator

If an X is visible a color conversion or an ink saving operation have been applied to the PDF.
Certain transparency blend modes (e.g. Hard Light) can deliver accompletely different result after a color conversion.

14 Oct 2015 — © Ghent Workgroup, www.gwg.org — 22.0

GWG 22.1 – OutPutIntent Change Indicator

If an X is visible the Output Intent of the PDF (ISO Coated v2 300% (ECI)) has been changed.

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