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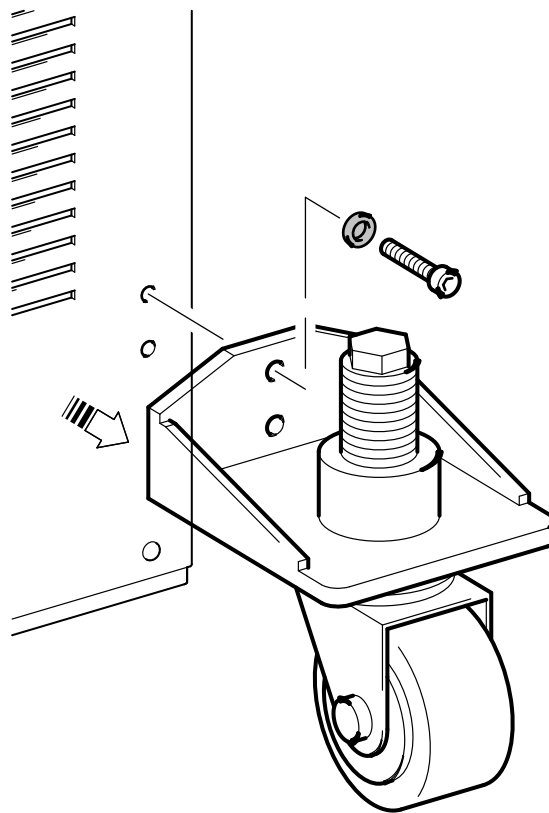
**S1000D 4.1 Test Publication**

**WebCGM 2.1 Test Suite**

FO Processor: Apache FOP

TEST41-X1234-00002-01

Issue No. 001, 2024-07-31



Publisher:



Docuneering Ltd

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For Docuneering testing and demonstration purposes only.

Intentionally left blank.

## WebCGM 2.1 Test Suite

### *WebCGM21*

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**References**

*Table 1 References*

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Data module / Technical publication	Title
None	

---

**Description**

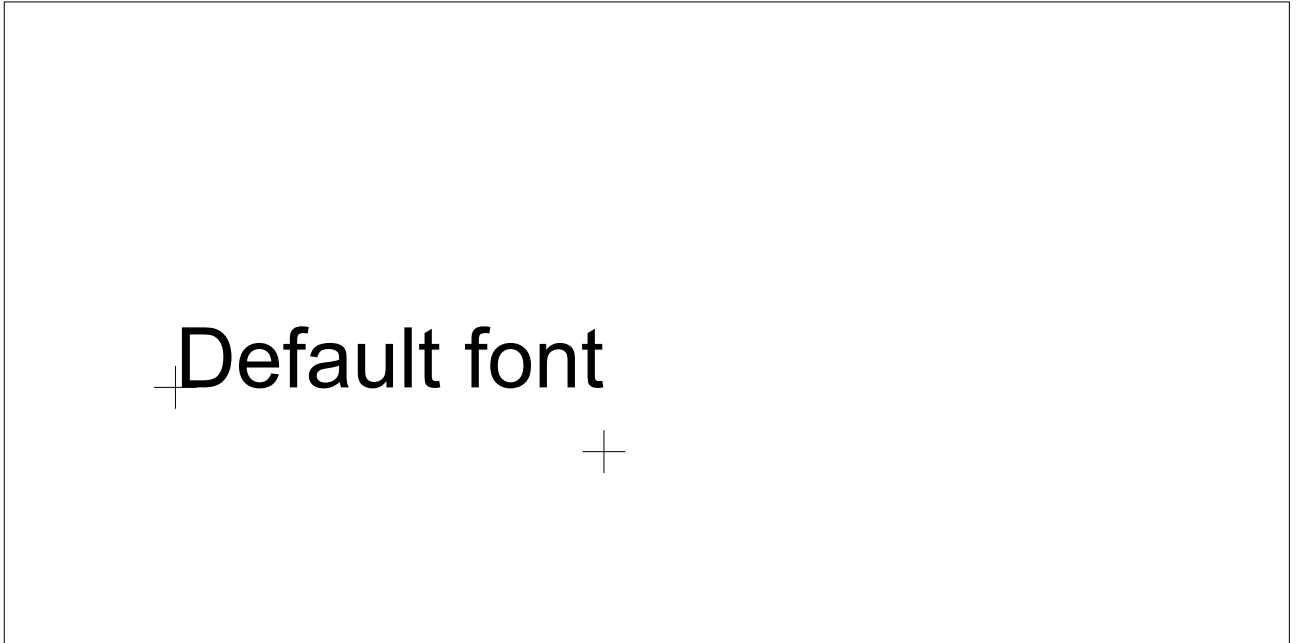
**1 WebCGM21**

Every CGM illustration in this Data Module is immediately followed by a PNG illustration. The CGM illustration will be rendered in the PDF file while the PNG illustration provides a rasterized representation of what the CGM illustration should look like.

WebCGM21 TEST illustrations follow:



**1.1 aciDefaultFont**



aciDefaultFont-CGM

*Fig 1, Sheet 1 of 2 aciDefaultFont*



*Fig 1, Sheet 2 of 2 aciDefaultFont*

aciDefaultFont-PNG

---

1.2 aciEdgeAttr



Edge Join = default



Edge Join = round

aciEdgeAttr-CGM

*Fig 2, Sheet 1 of 2 aciEdgeAttr*



Edge Join = default

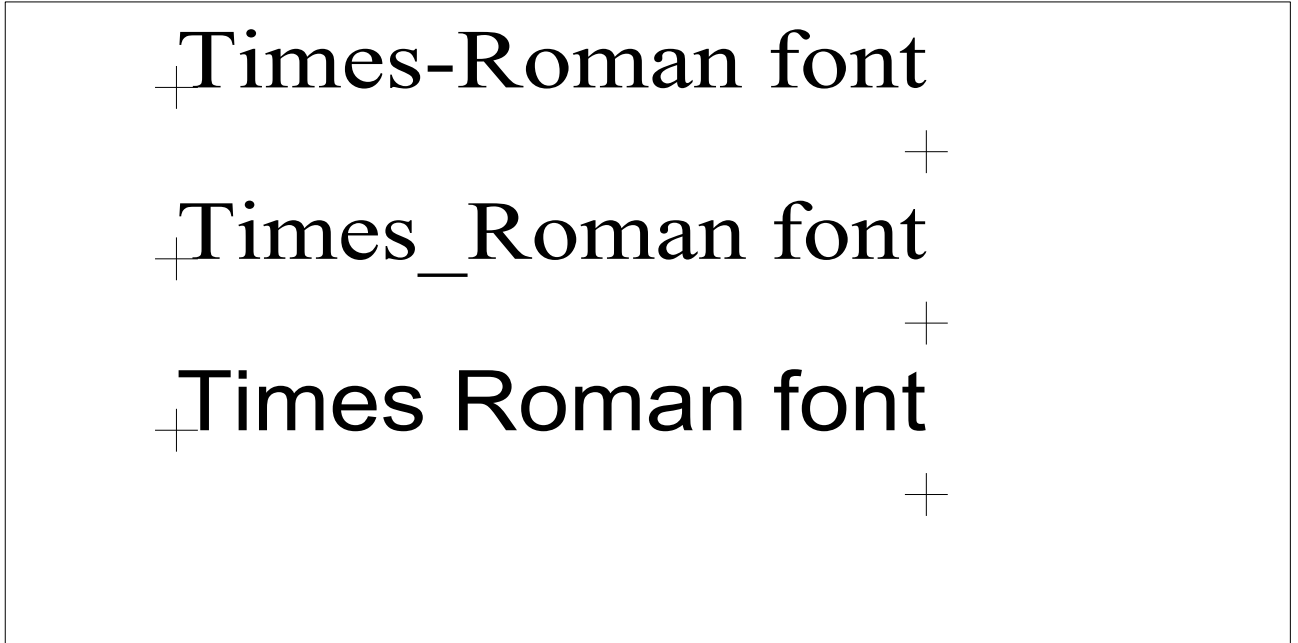


Edge Join = round

aciEdgeAttr-PNG

*Fig 2, Sheet 2 of 2 aciEdgeAttr*

**1.3 aciFontNormalization**



aciFontNormalization-CGM

*Fig 3, Sheet 1 of 2 aciFontNormalization*

+Times-Roman font+

+Times\_Roman font+

+Times Roman font+

aciFontNormalization-PNG

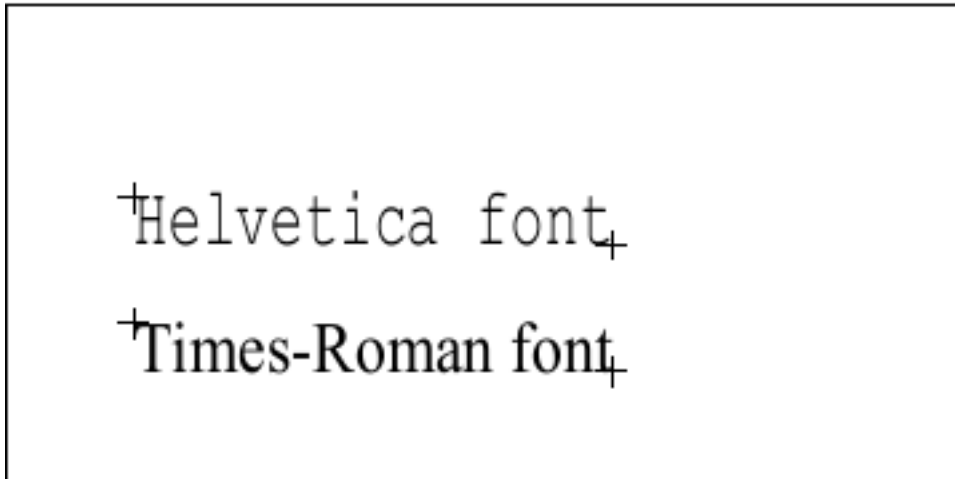
*Fig 3, Sheet 2 of 2 aciFontNormalization*

**1.4 aciForceSubstitution**



aciForceSubstitution-CGM

*Fig 4, Sheet 1 of 2 aciForceSubstitution*

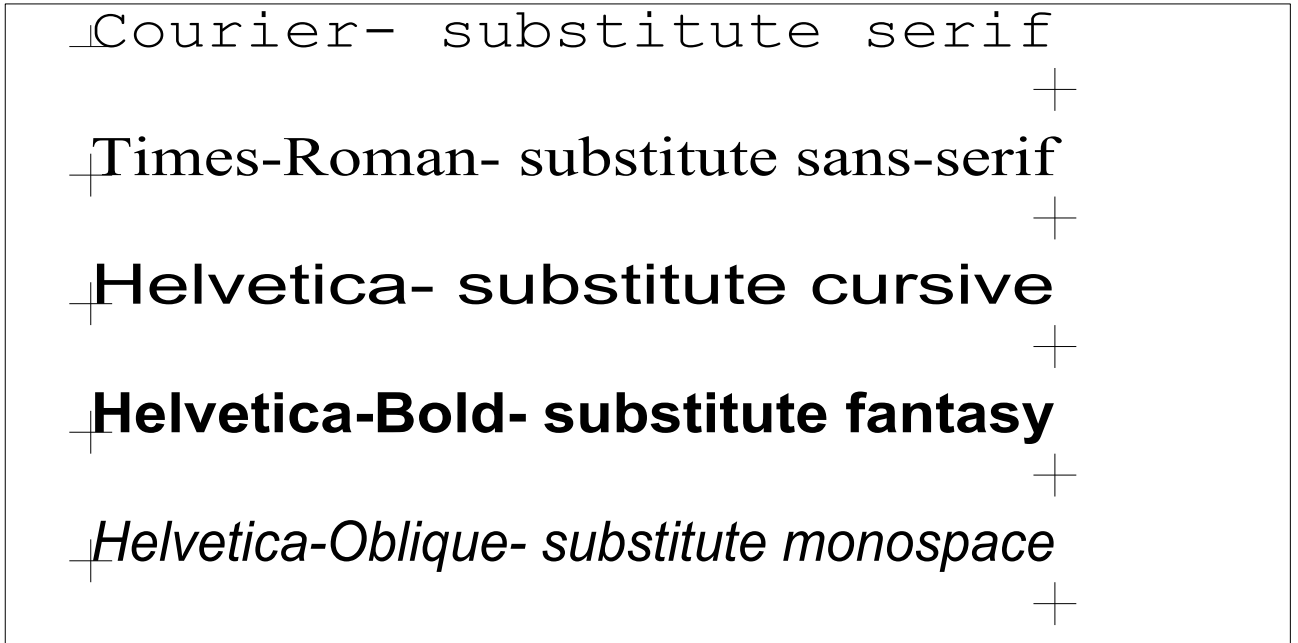


aciForceSubstitution-PNG

*Fig 4, Sheet 2 of 2 aciForceSubstitution*

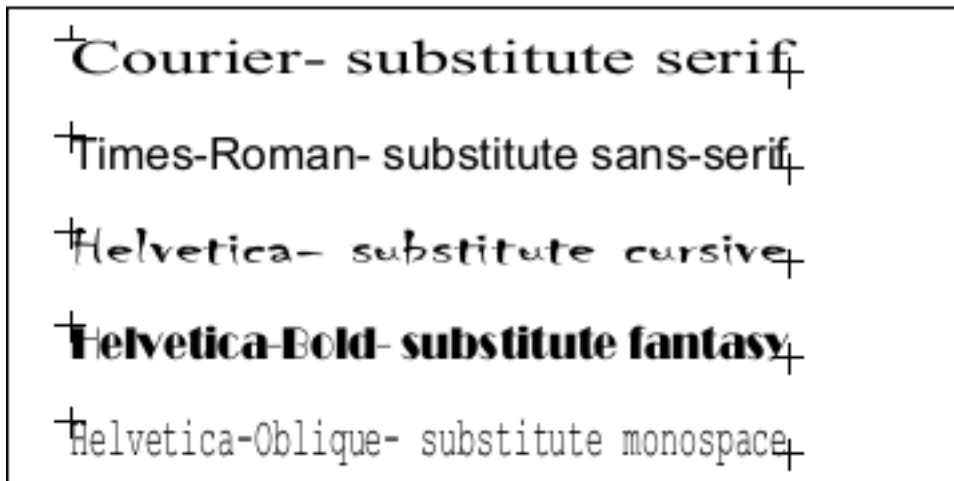


1.5 aciGenericFonts



aciGenericFonts-CGM

Fig 5, Sheet 1 of 2 aciGenericFonts



aciGenericFonts-PNG

Fig 5, Sheet 2 of 2 aciGenericFonts

1.6 aciLineAttr



Line Cap and Line Join = default



Line Cap = butt, Line Join = round

aciLineAttr-CGM

*Fig 6, Sheet 1 of 2 aciLineAttr*



Line Cap and Line Join = default



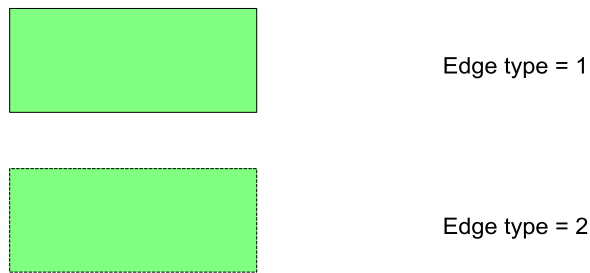
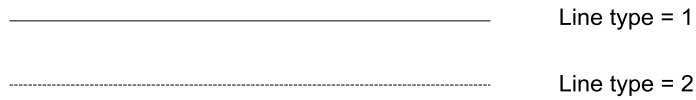
Line Cap = butt, Line Join = round

aciLineAttr-PNG

Fig 6, Sheet 2 of 2 aciLineAttr

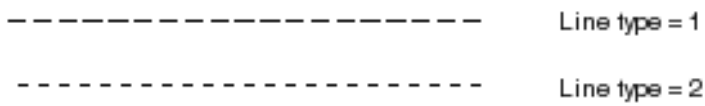
---

**1.7 aciLineEdgeTypeDef**



aciLineEdgeTypeDef-CGM

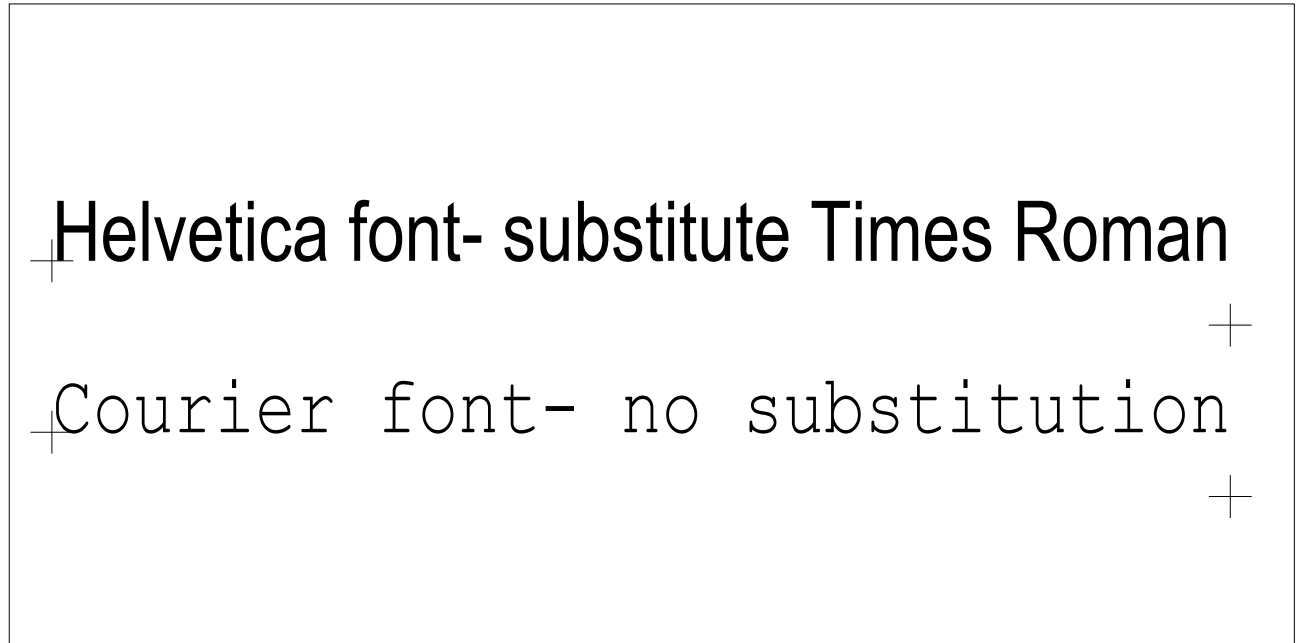
*Fig 7, Sheet 1 of 2 aciLineEdgeTypeDef*



aciLineEdgeTypeDef-PNG

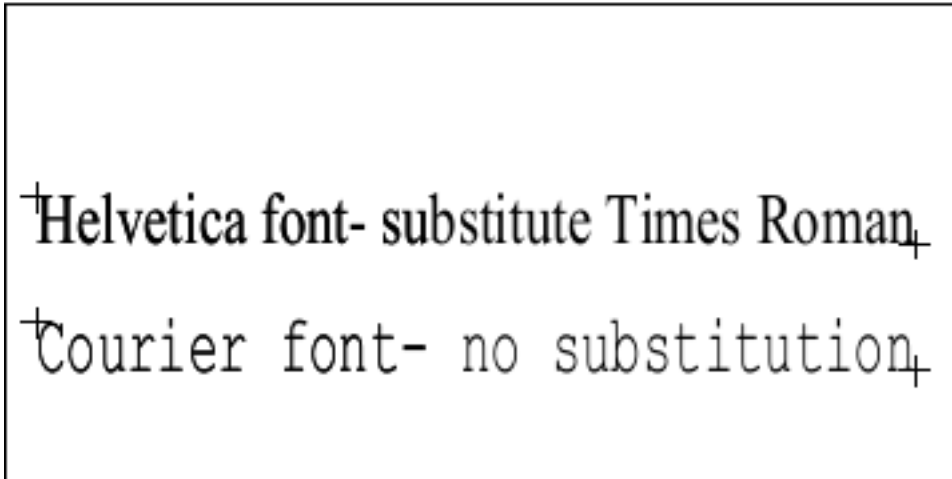
Fig 7, Sheet 2 of 2 aciLineEdgeTypeDef

**1.8 aciMapListOrder**



aciMapListOrder-CGM

*Fig 8, Sheet 1 of 2 aciMapListOrder*



†Helvetica font- substitute Times Roman†  
†Courier font- no substitution†

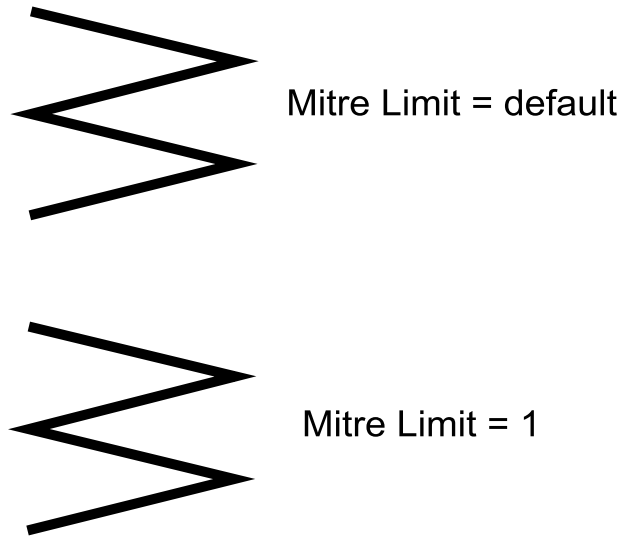
*Fig 8, Sheet 2 of 2 aciMapListOrder*

aciMapListOrder-PNG



---

**1.9 aciMitreLimit**



aciMitreLimit-CGM

*Fig 9, Sheet 1 of 2 aciMitreLimit*

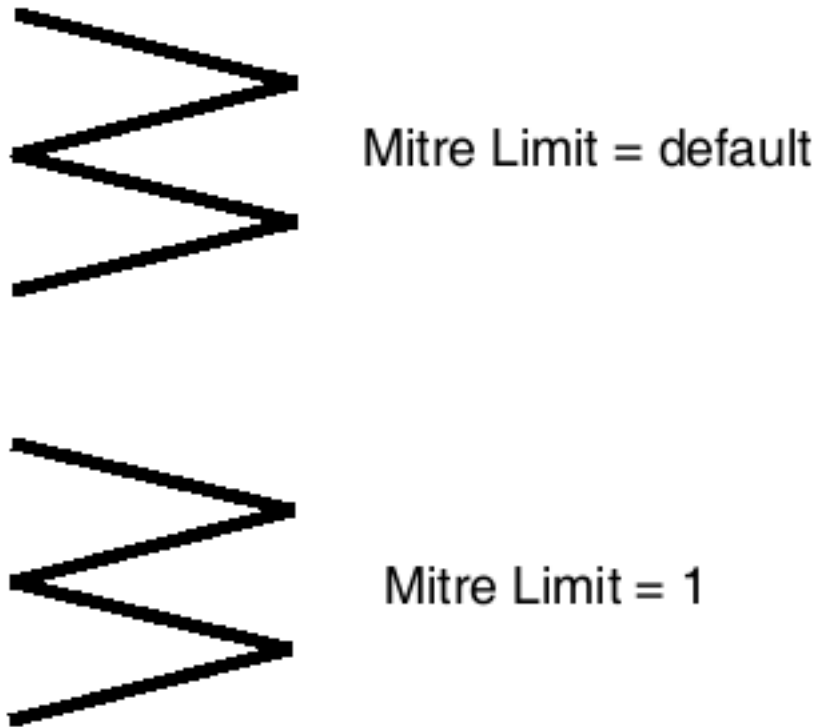
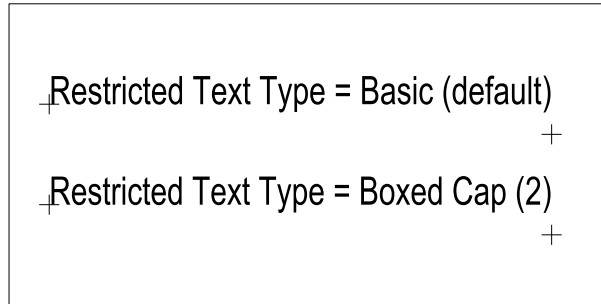


Fig 9, Sheet 2 of 2 aciMitreLimit

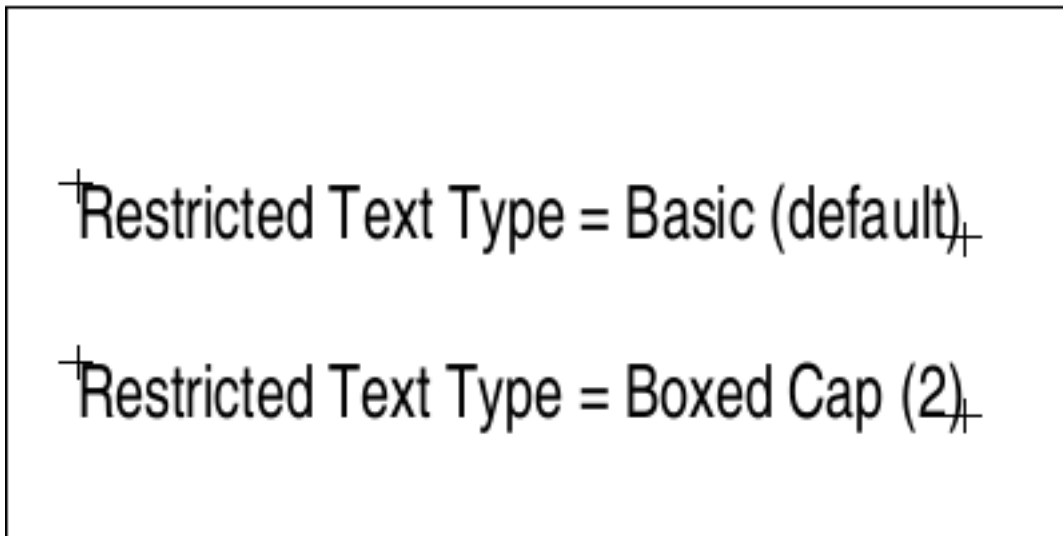
aciMitreLimit-PNG

**1.10 aciRestrictedTextType**



aciRestrictedTextType-CGM

*Fig 10, Sheet 1 of 2 aciRestrictedTextType*



aciRestrictedTextType-PNG

*Fig 10, Sheet 2 of 2 aciRestrictedTextType*

---

**1.11 aciSimpleFontSubstitution**



aciSimpleFontSubstitution-CGM

*Fig 11, Sheet 1 of 2 aciSimpleFontSubstitution*

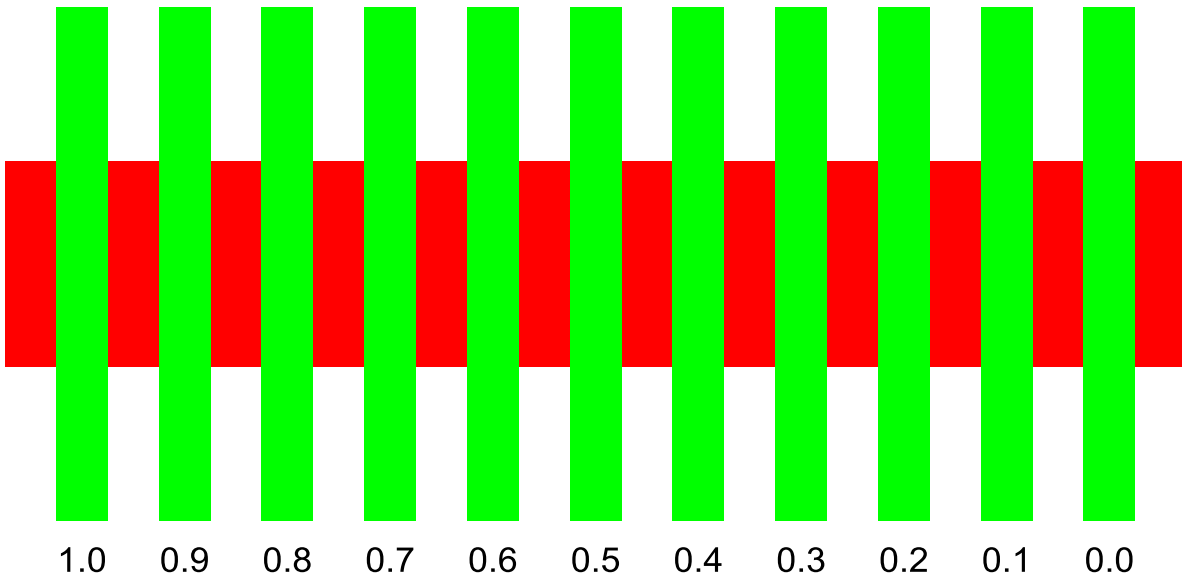
†Helvetica font†  
†Times-Roman font†

aciSimpleFontSubstitution-PNG

*Fig 11, Sheet 2 of 2 aciSimpleFontSubstitution*

1.12 alphaEscape

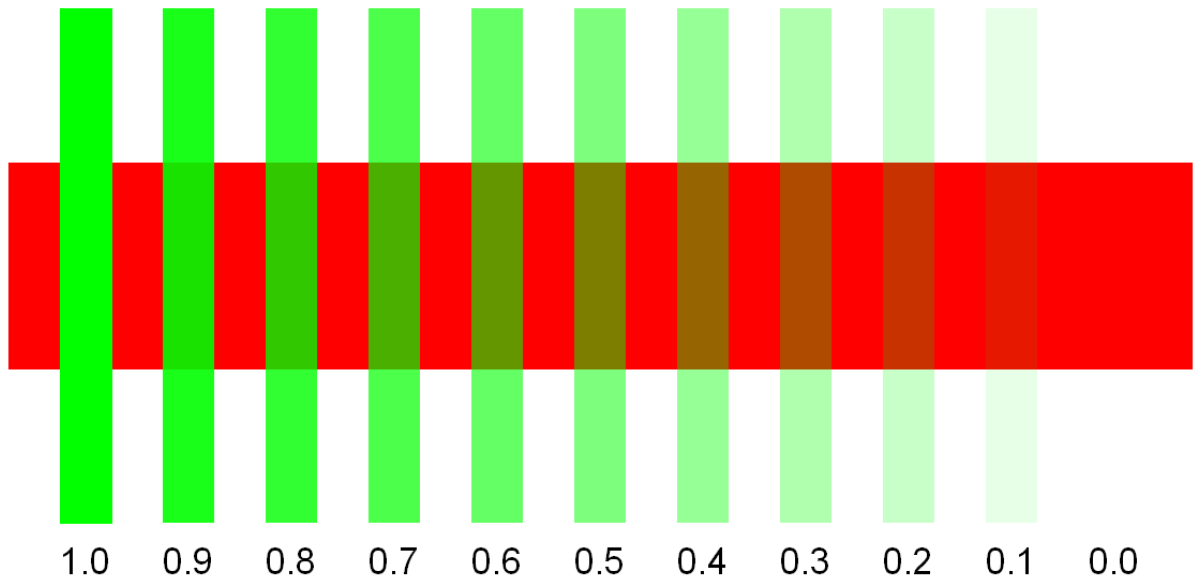
# Alpha Blending



alphaEscape-CGM

Fig 12, Sheet 1 of 2 alphaEscape

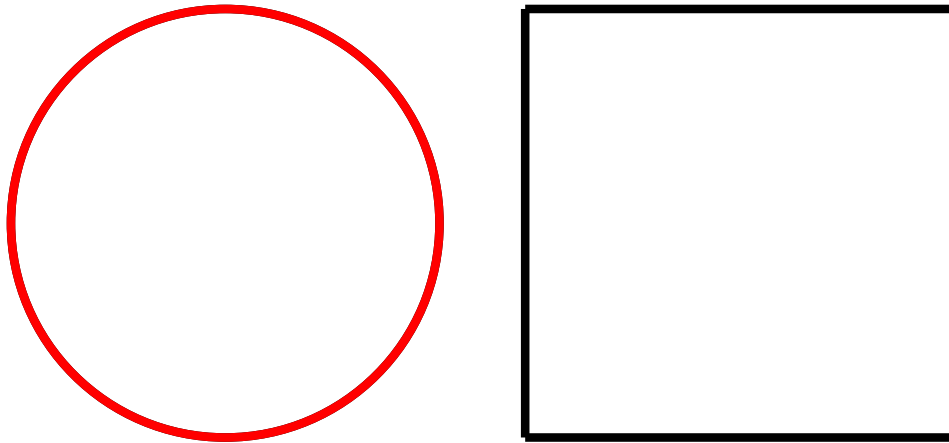
# Alpha Blending



alphaEscape-PNG

Fig 12, Sheet 2 of 2 alphaEscape

1.13 getObjectExtent

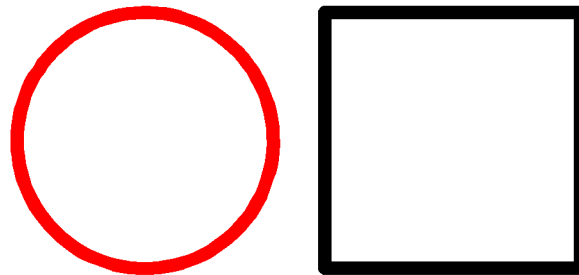


**Text String**

getObjectExtent-CGM

*Fig 13, Sheet 1 of 2 getObjectExtent*





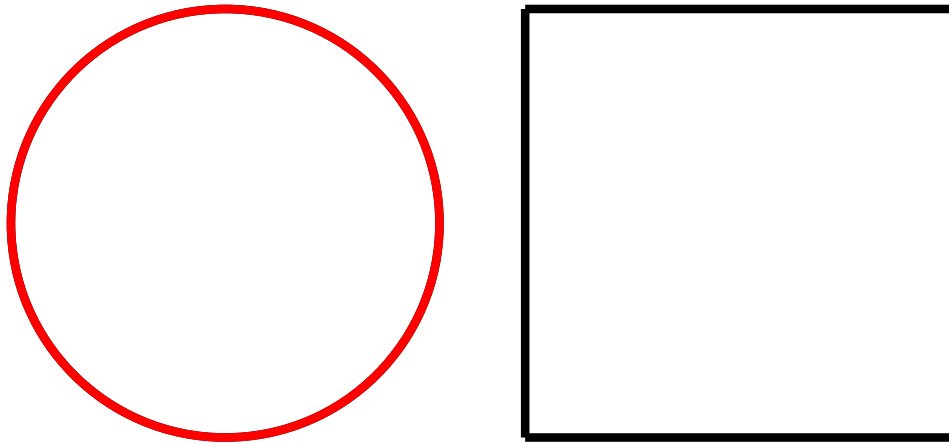
# Text String

getObjectExtent-PNG

*Fig 13, Sheet 2 of 2 getObjectExtent*

---

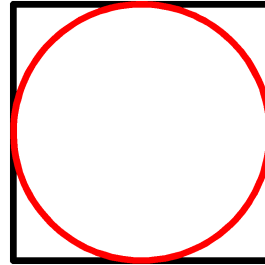
1.14 getObjectExtentTransformed



Text String

getObjectExtentTransformed-CGM

*Fig 14, Sheet 1 of 2 getObjectExtentTransformed*



# Text String

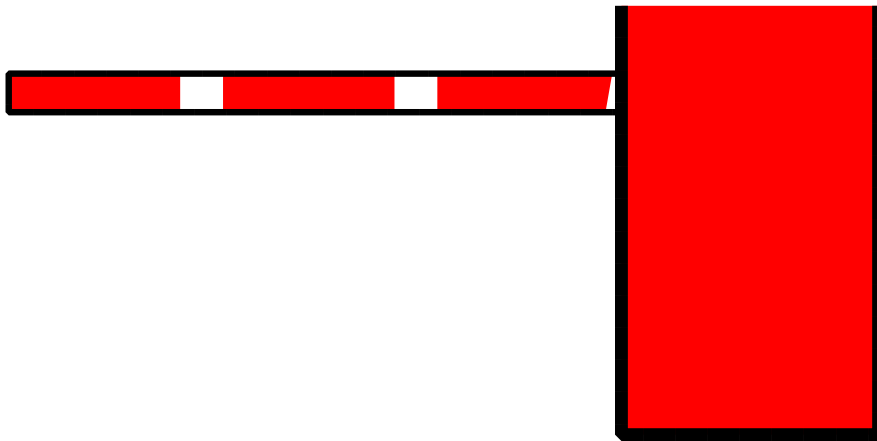
getObjectExtentTransformed-PNG

*Fig 14, Sheet 2 of 2 getObjectExtentTransformed*

---

1.15 lineAnimation

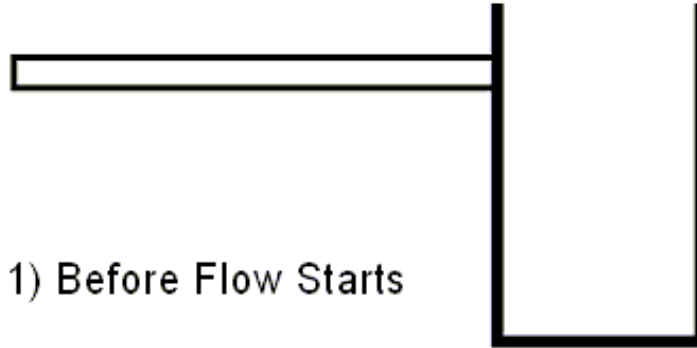
START



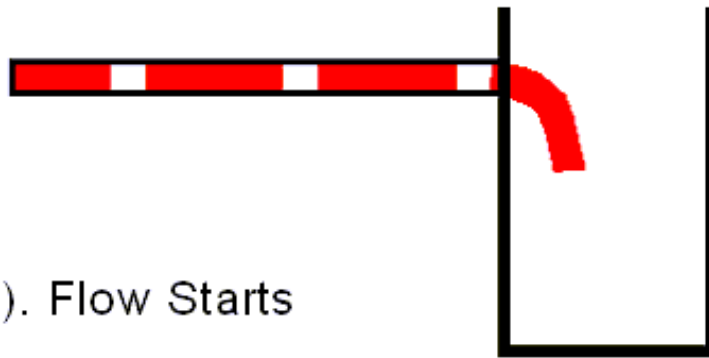
*Fig 15, Sheet 1 of 2 lineAnimation*

lineAnimation-CGM

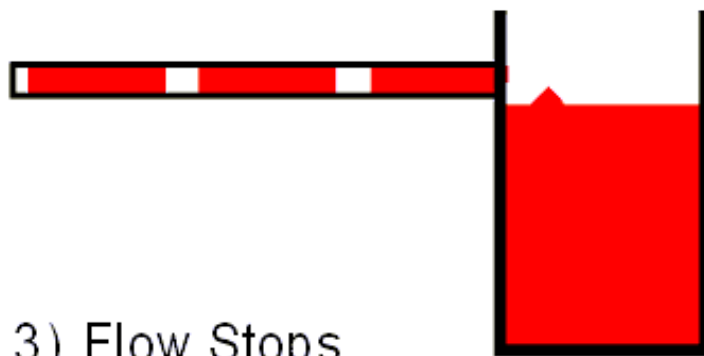
START



START



START

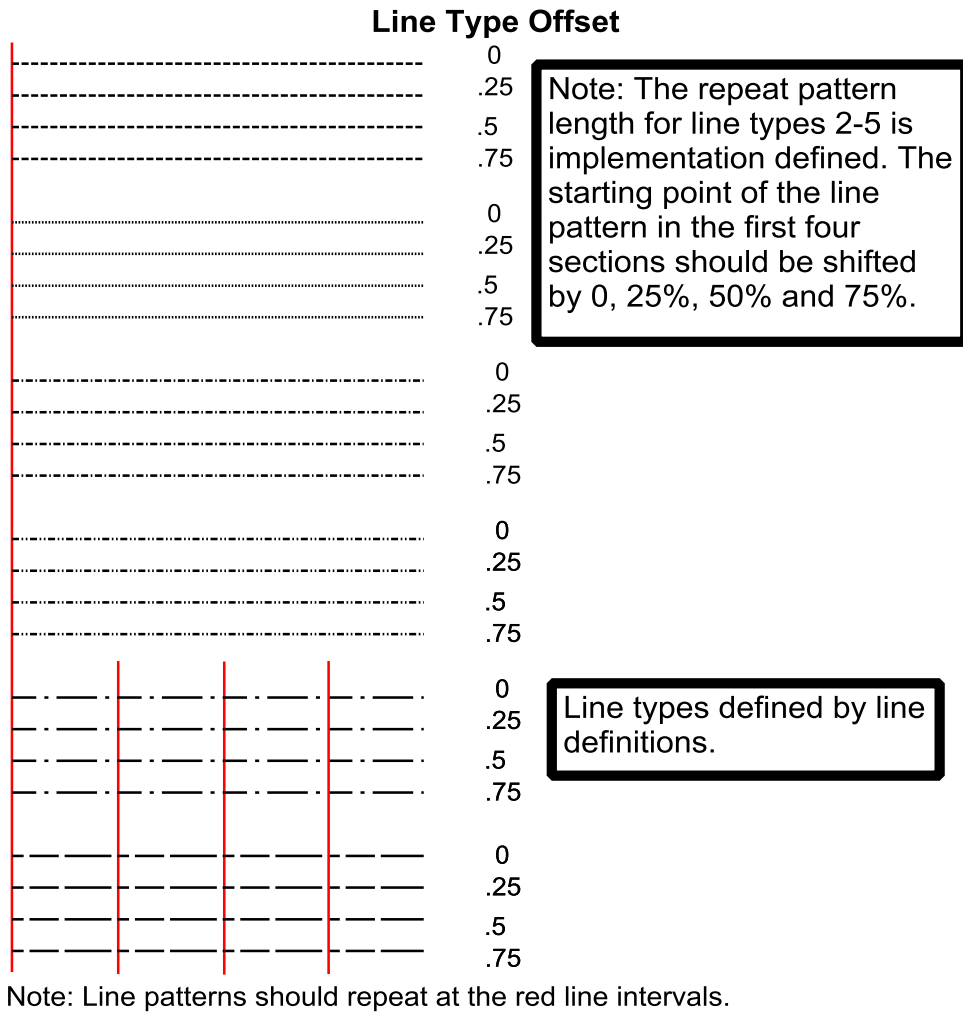


lineAnimation-PNG

Fig 15, Sheet 2 of 2 lineAnimation

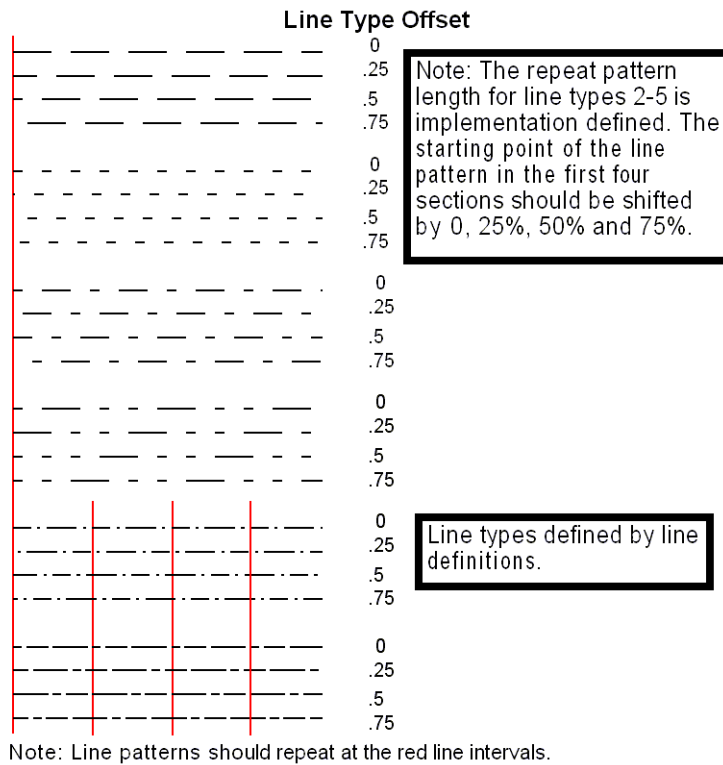
Produced by Docuneering Ltd.

1.16 lineOffset



lineOffset-CGM

Fig 16, Sheet 1 of 2 lineOffset

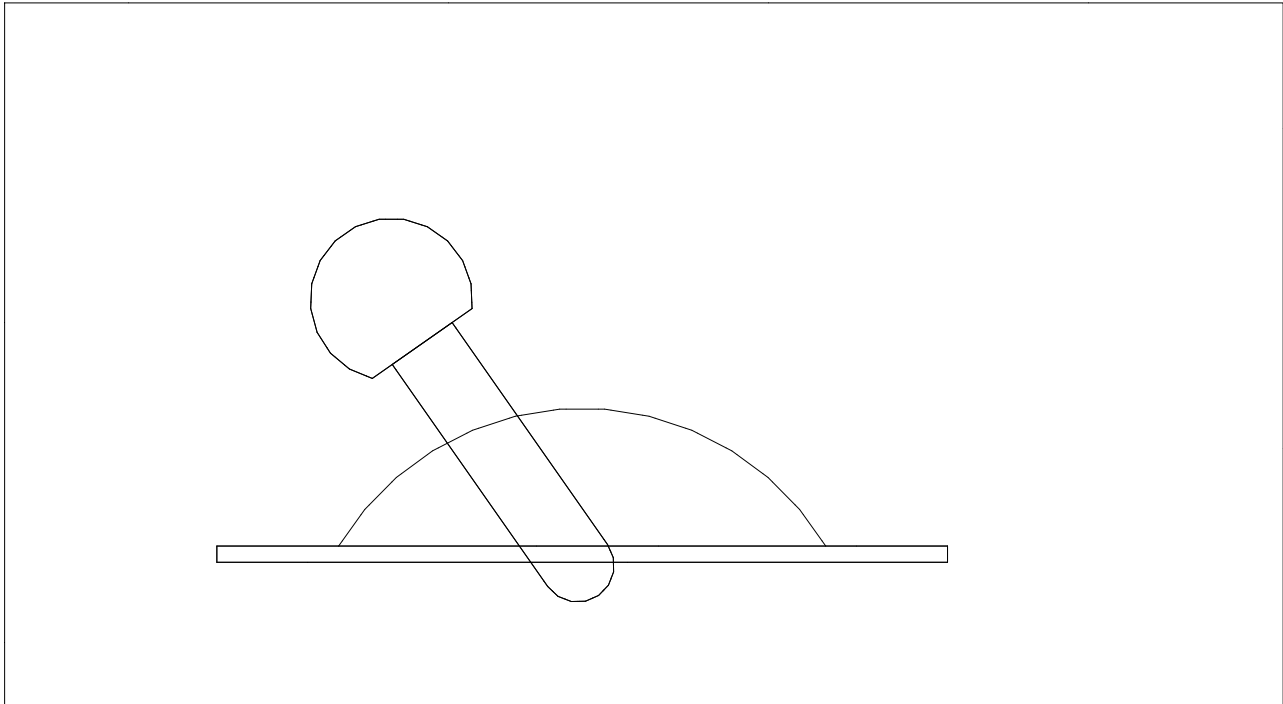


lineOffset-PNG

Fig 16, Sheet 2 of 2 lineOffset

---

**1.17 rotateAnimation**

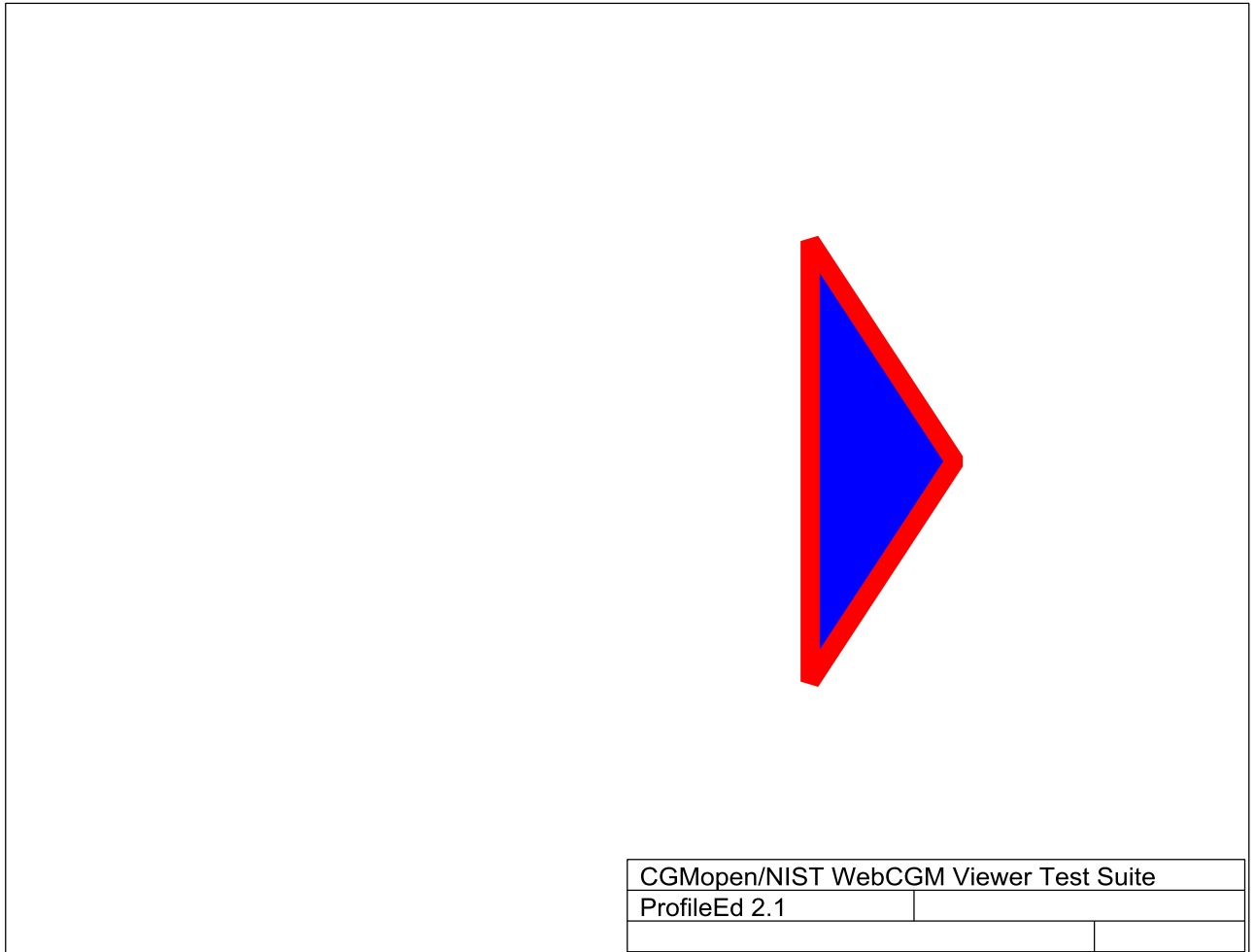


rotateAnimation-CGM

*Fig 17 rotateAnimation*

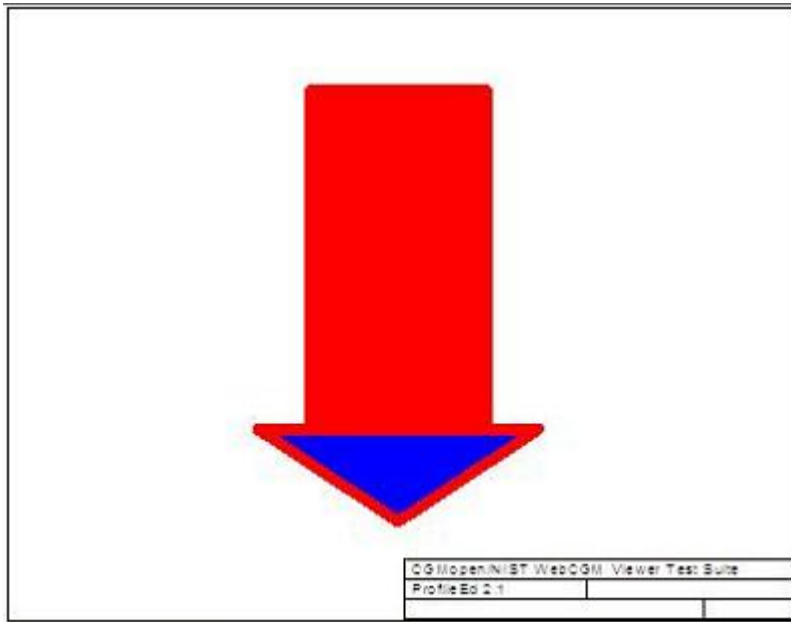


1.18 rotateAPS



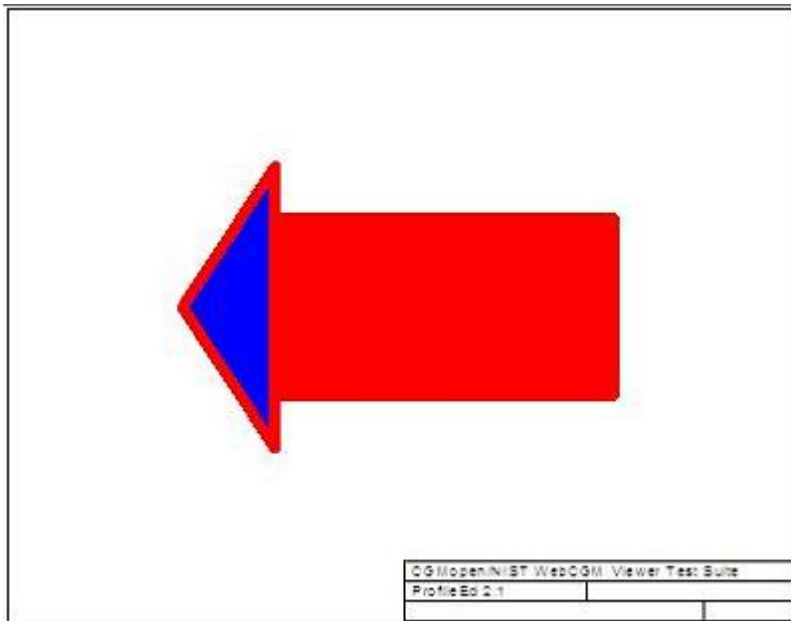
rotateAPS-CGM

Fig 18, Sheet 1 of 4 rotateAPS



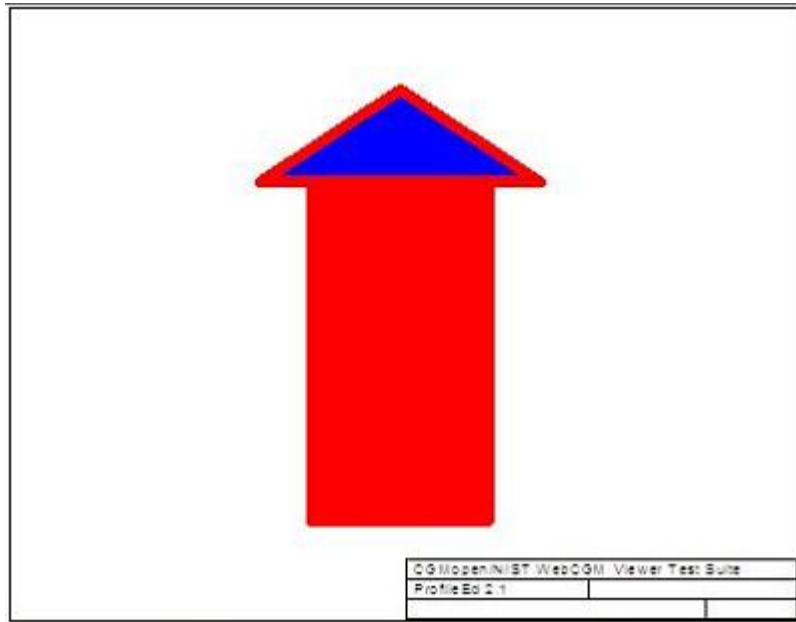
rotateAPS\_Down-JPG

Fig 18, Sheet 2 of 4 rotateAPS



rotateAPS\_Left-JPG

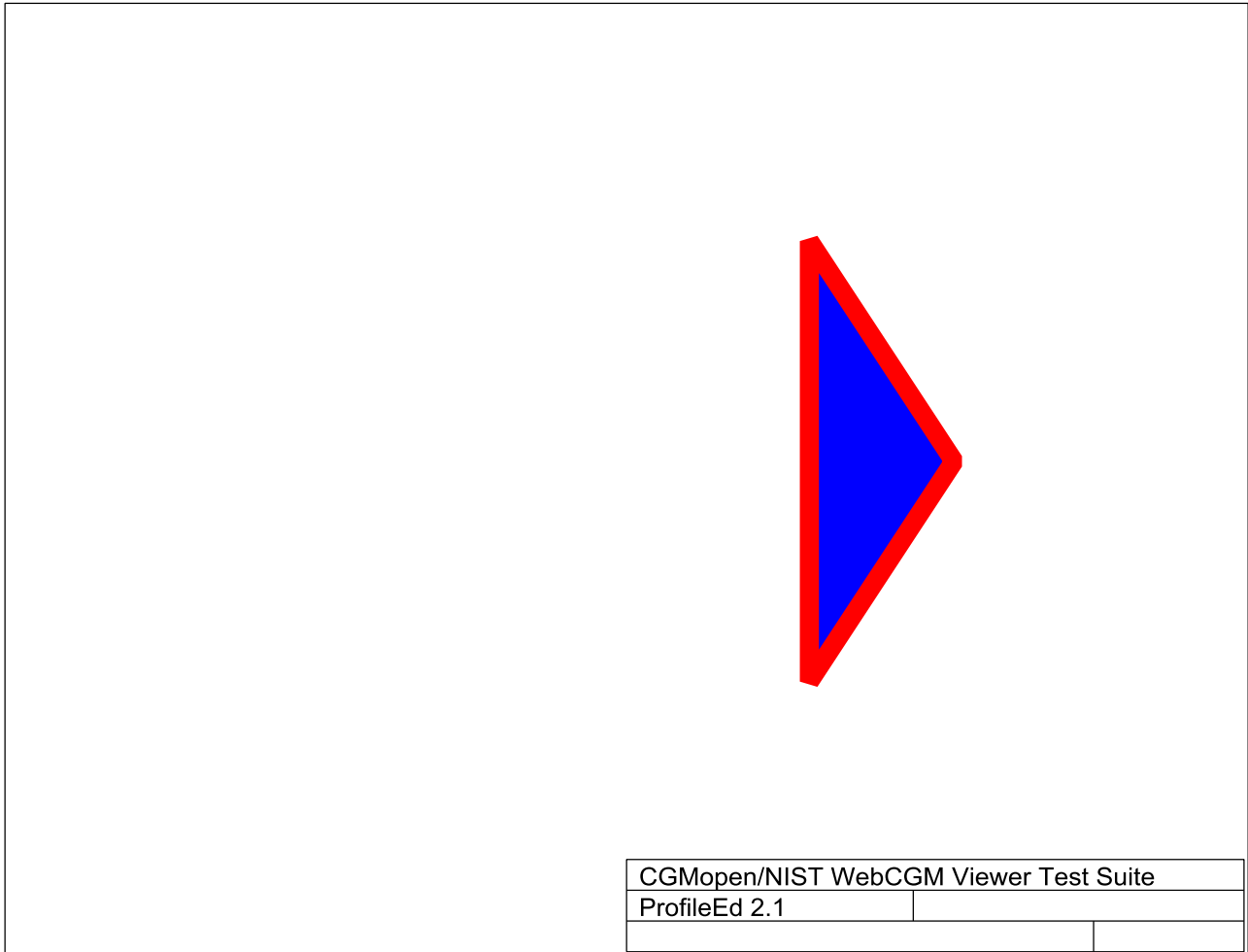
Fig 18, Sheet 3 of 4 rotateAPS



rotateAPS\_Up-JPG

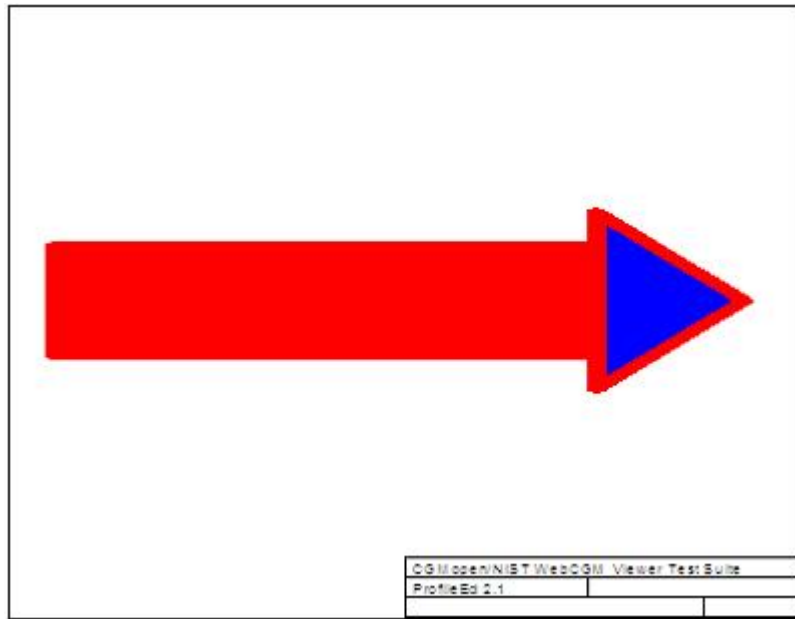
Fig 18, Sheet 4 of 4 rotateAPS

1.19 scaleAPS



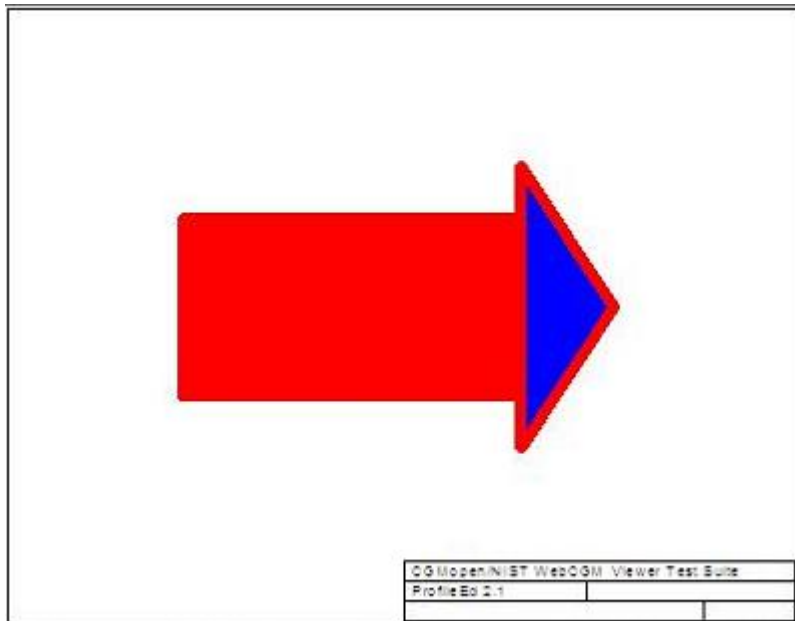
scaleAPS-CGM

Fig 19, Sheet 1 of 4 scaleAPS



scaleAPS\_Long-JPG

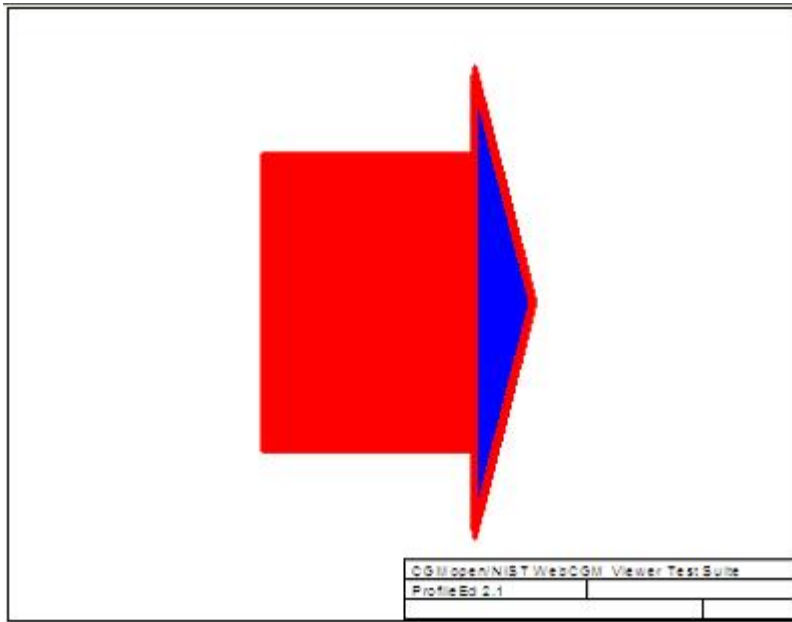
Fig 19, Sheet 2 of 4 scaleAPS



scaleAPS\_Orig-JPG

Fig 19, Sheet 3 of 4 scaleAPS

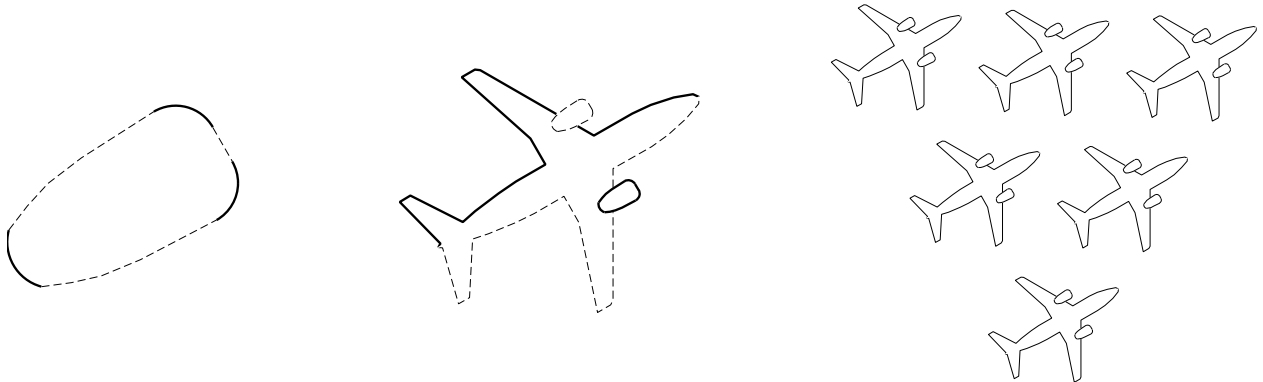
Produced by Docuneering Ltd.



scaleAPS\_Short-JPG

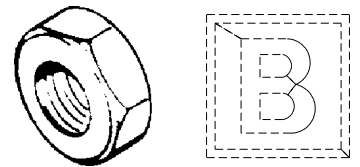
Fig 19, Sheet 4 of 4 scaleAPS

**1.20 setGetBGColor**



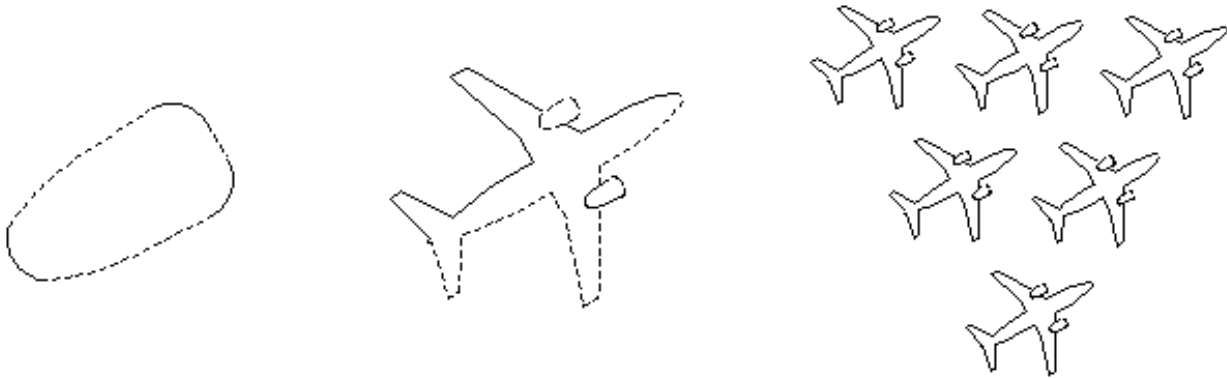
First line wraps after this "word"  
and ends with a hard return here.

This is the second line which  
completes the text object.



setGetBGColor-CGM

Fig 20, Sheet 1 of 2 setGetBGColor



First line wraps after this "word"  
and ends with a hard return here.

This is the second line which  
completes the text object.



setGetBGColor-PNG

Fig 20, Sheet 2 of 2 setGetBGColor



## 1.21 setGetEdgeVisibility

setGetEdgeVisibility-CGM

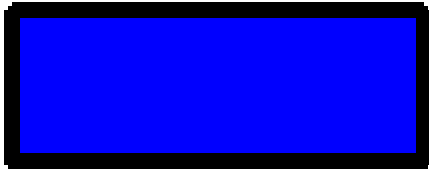
*Fig 21, Sheet 1 of 2 setGetEdgeVisibility*

Produced by Docuneering Ltd.

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Applicable to: All

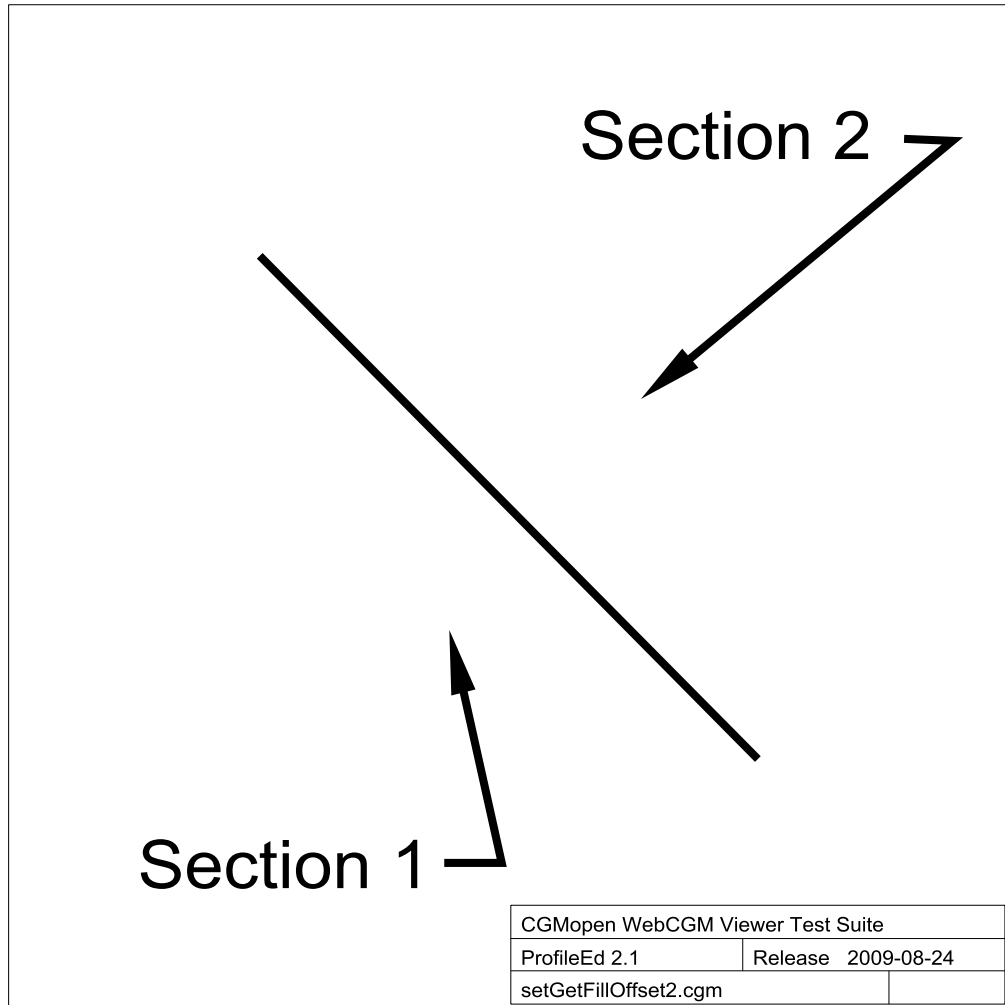
TEST41-A-00-00-00-04A-040A-A



*Fig 21, Sheet 2 of 2 setGetEdgeVisibility*

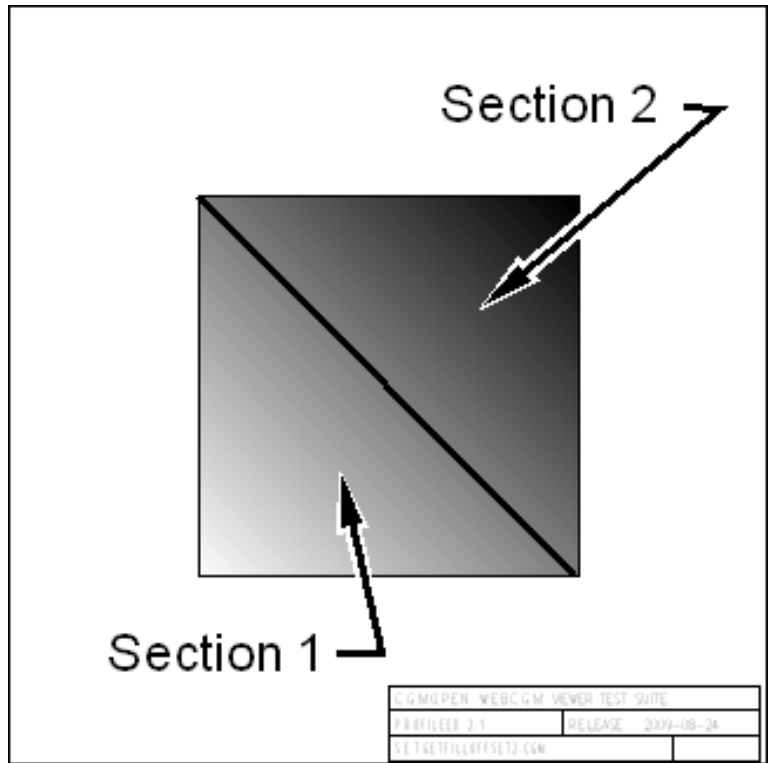
setGetEdgeVisibility-PNG

1.22 setGetFillOffset2



setGetFillOffset2-CGM

Fig 22, Sheet 1 of 2 setGetFillOffset2



setGetFillOffset2-PNG

Fig 22, Sheet 2 of 2 setGetFillOffset2

**1.23 setGetFillStyles2.0**

setGetFillStyles2.0-CGM

*Fig 23, Sheet 1 of 2 setGetFillStyles2.0*

Produced by Docuneering Ltd.

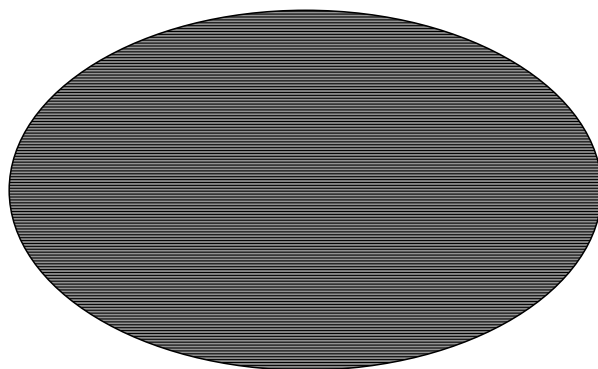


*Fig 23, Sheet 2 of 2 setGetFillStyles2.0*

setGetFillStyles2.0-PNG



**1.24 setGetHatchIndex**



setGetHatchIndex-CGM

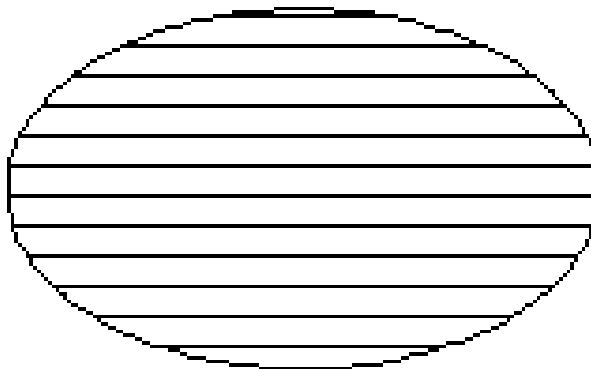
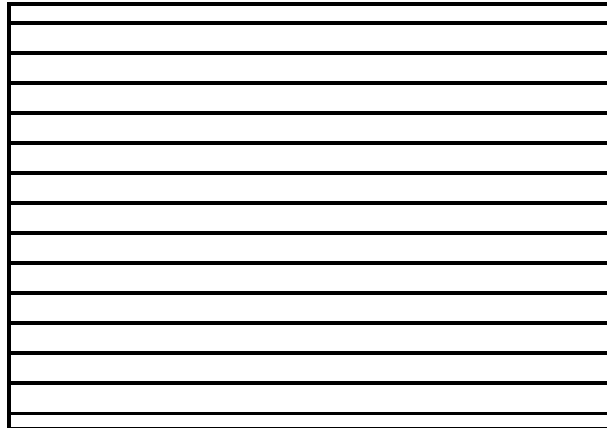
*Fig 24, Sheet 1 of 2 setGetHatchIndex*

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Applicable to: All

**TEST41-A-00-00-00-04A-040A-A**



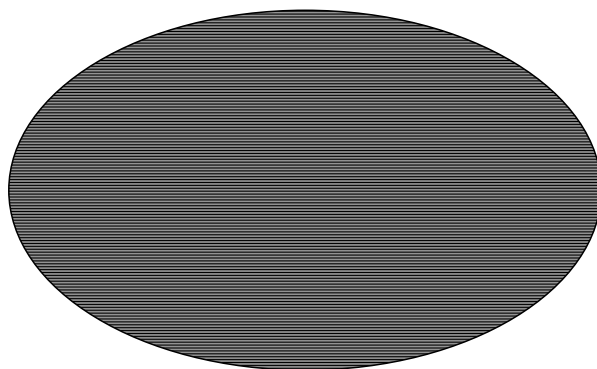


setGetHatchIndex-PNG

*Fig 24, Sheet 2 of 2 setGetHatchIndex*



**1.25 setGetInteriorStyle**



Produced by Docuneering Ltd.

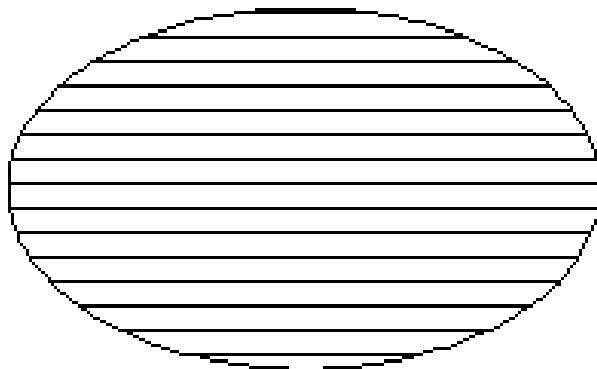
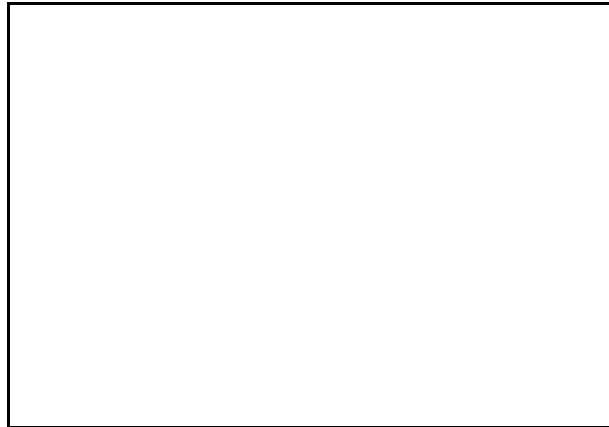
setGetInteriorStyle-CGM

*Fig 25, Sheet 1 of 2 setGetInteriorStyle*

---

Applicable to: All

**TEST41-A-00-00-00-04A-040A-A**

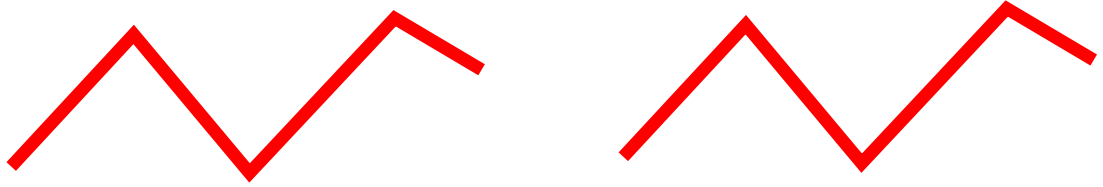


setGetInteriorStyle-PNG

*Fig 25, Sheet 2 of 2 setGetInteriorStyle*

---

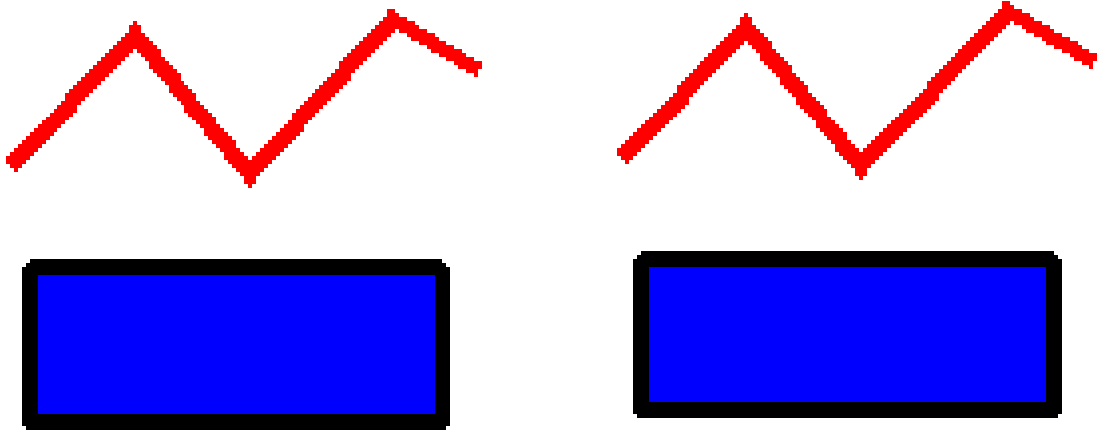
**1.26 setGetLineStyle2.0**



setGetLineStyle2.0-CGM

*Fig 26, Sheet 1 of 2 setGetLineStyle2.0*

Produced by Docuneering Ltd.

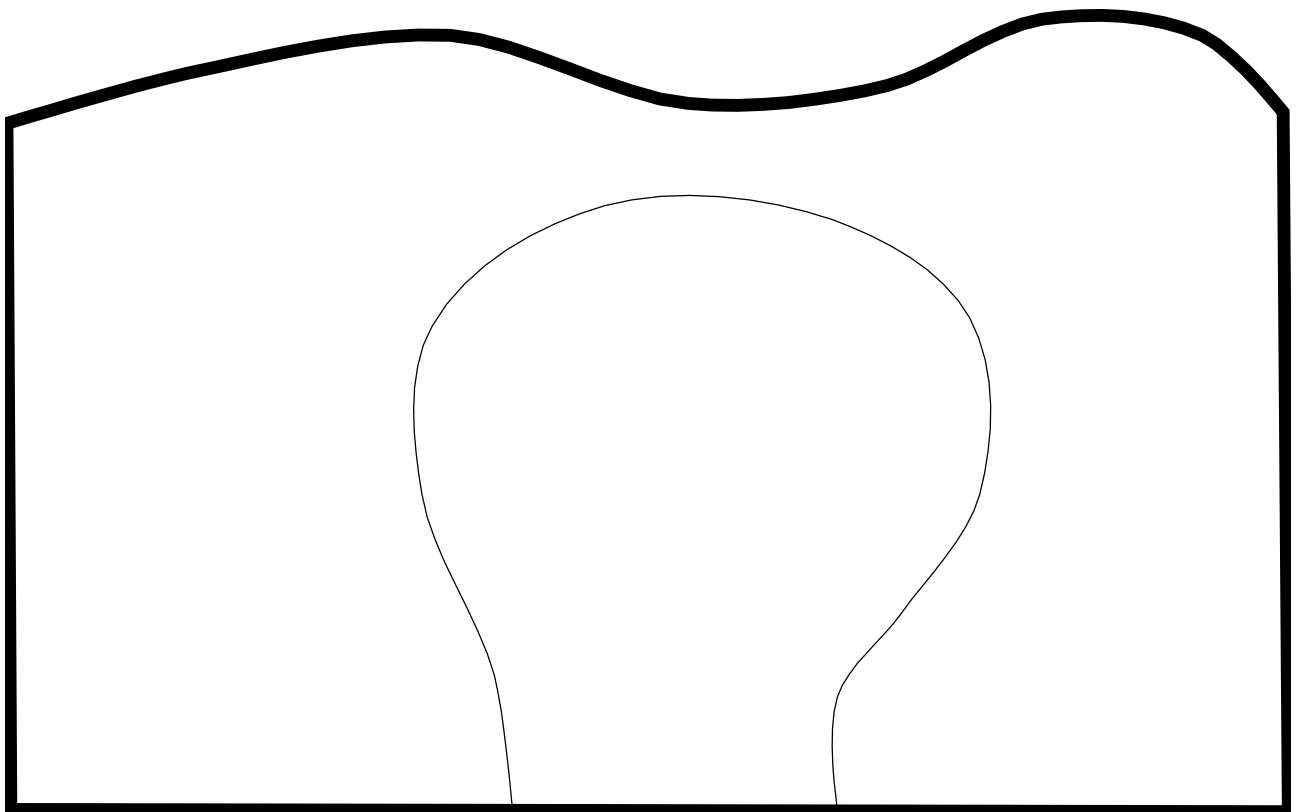


*Fig 26, Sheet 2 of 2 setGetLineStyle2.0*

setGetLineStyle2.0-PNG

1.27 setGetPatternIndex

# Pattern Index Test

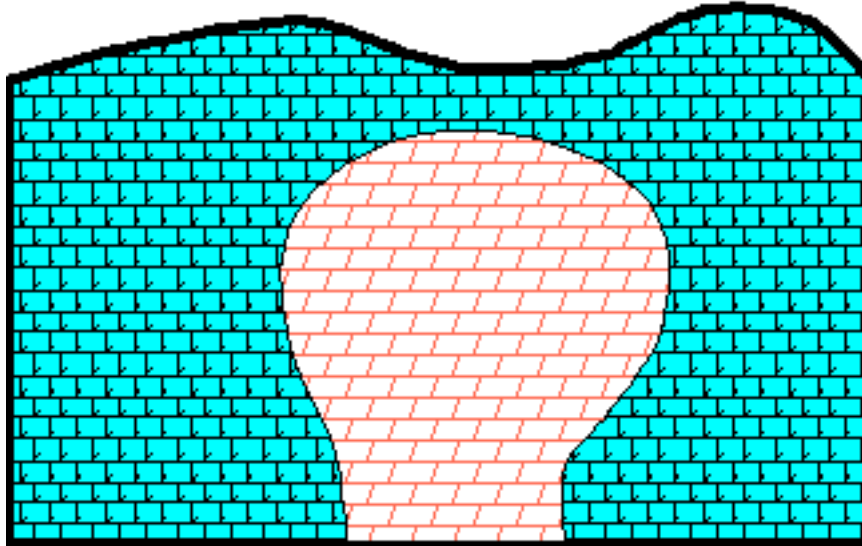


setGetPatternIndex-CGM

*Fig 27, Sheet 1 of 2 setGetPatternIndex*

Produced by Docuneering Ltd.

# Pattern Index Test



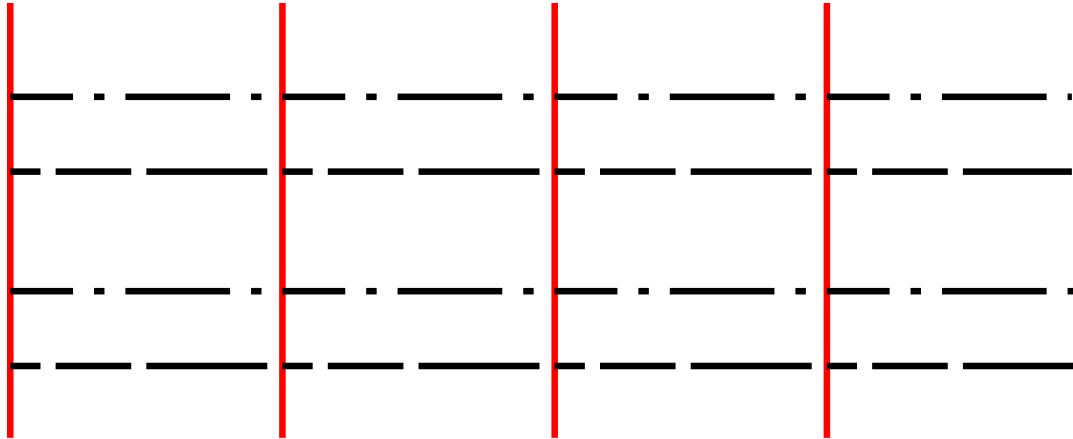
setGetPatternIndex-PNG

Fig 27, Sheet 2 of 2 setGetPatternIndex



1.28 setGetStrokeOffset

# Line Type Offset

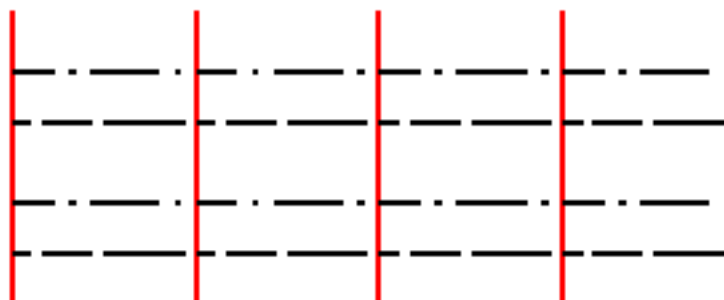


Note: Line patterns should repeat at the red line intervals.

setGetStrokeOffset-CGM

Fig 28, Sheet 1 of 2 setGetStrokeOffset

# Line Type Offset



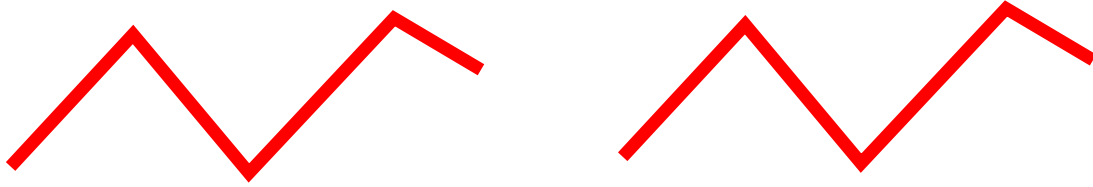
Note: Line patterns should repeat at the red line intervals.

setGetStrokeOffset-PNG

Fig 28, Sheet 2 of 2 setGetStrokeOffset

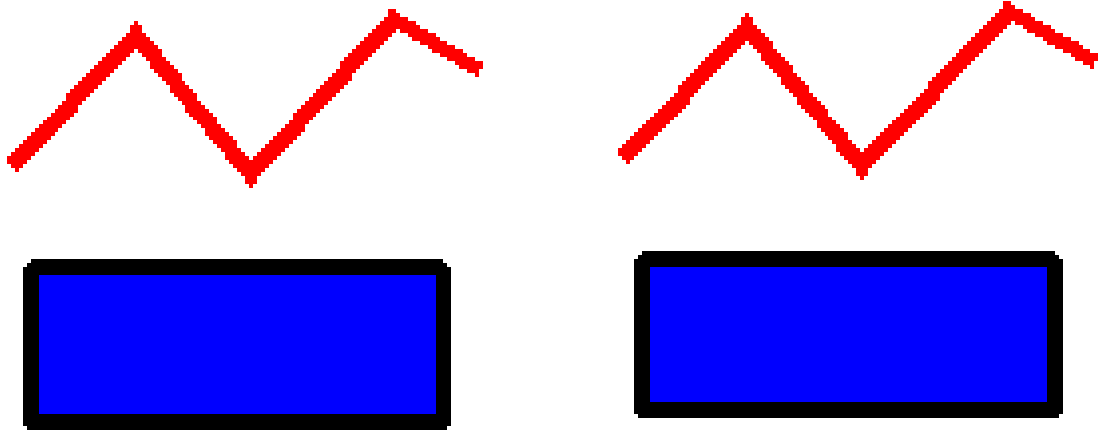
Produced by Docuneering Ltd.

**1.29 setGetStrokeType**



setGetStrokeType-CGM

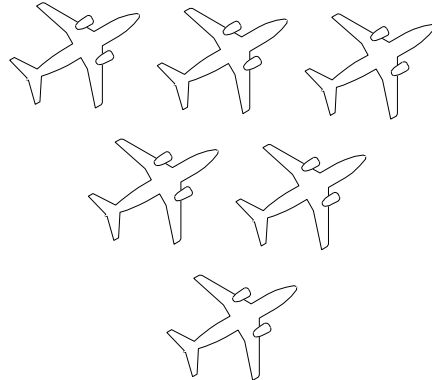
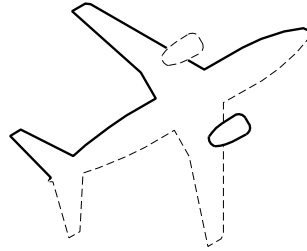
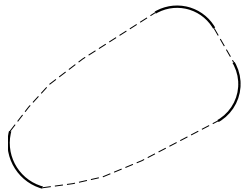
*Fig 29, Sheet 1 of 2 setGetStrokeType*



setGetStrokeType-PNG

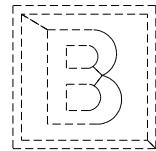
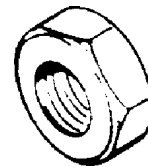
Fig 29, Sheet 2 of 2 setGetStrokeType

**1.30 setGetTextStyles**



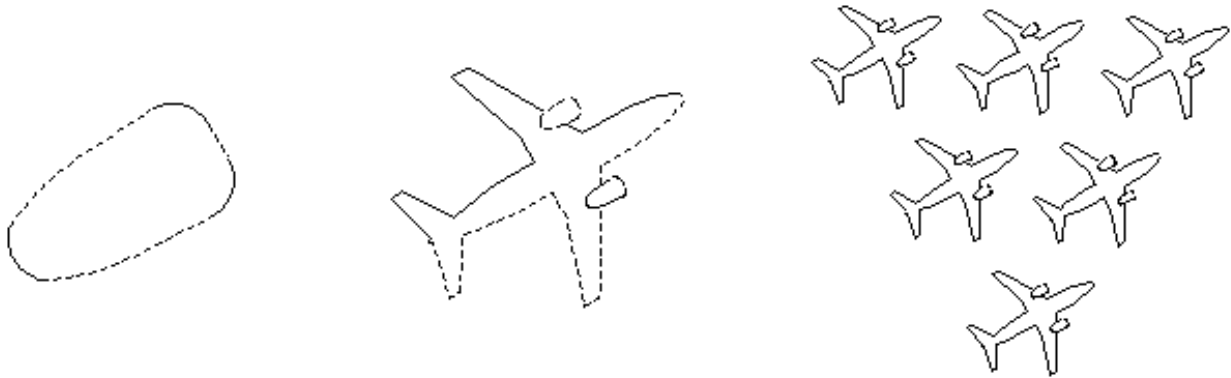
First line wraps after this "word"  
and ends with a hard return here.

This is the second line which  
completes the text object.



setGetTextStyles-CGM

*Fig 30, Sheet 1 of 2 setGetTextStyles*



First line wraps after this "word"  
and ends with a hard return here.

This is the second line which  
completes the text object.



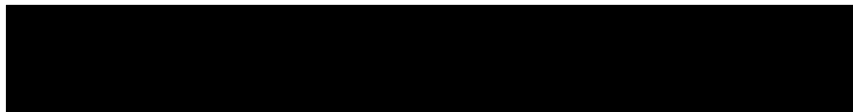
setGetTextStyles-PNG

Fig 30, Sheet 2 of 2 setGetTextStyles

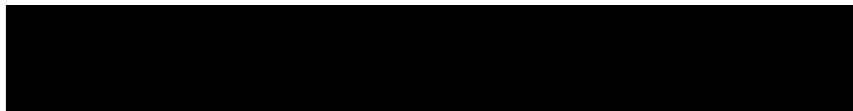
**1.31 setRedraw001**

WebCGMMetafile::setRedraw()

setRedraw( "enableAll" )

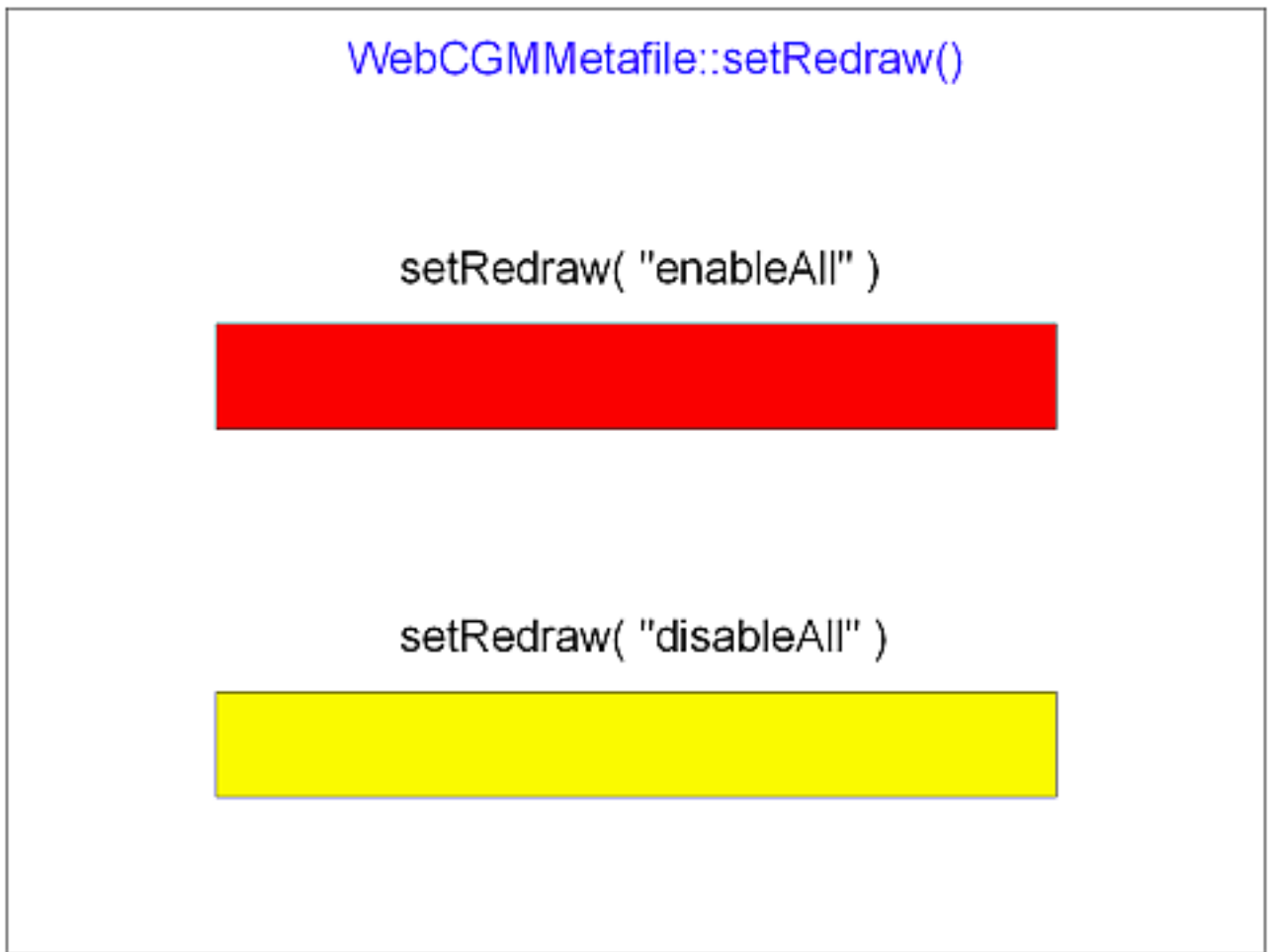


setRedraw( "disableAll" )



setRedraw001-CGM

*Fig 31, Sheet 1 of 2 setRedraw001*



setRedraw001-PNG

Fig 31, Sheet 2 of 2 setRedraw001

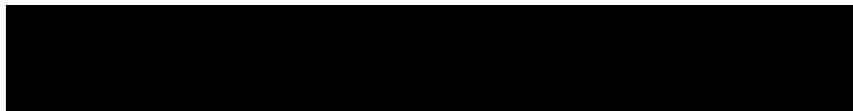
**1.32 setRedraw002**

WebCGMMetafile::setRedraw()

setRedraw( "enableAll" )



setRedraw( "disableAll" )



setRedraw002-CGM

*Fig 32, Sheet 1 of 2 setRedraw002*

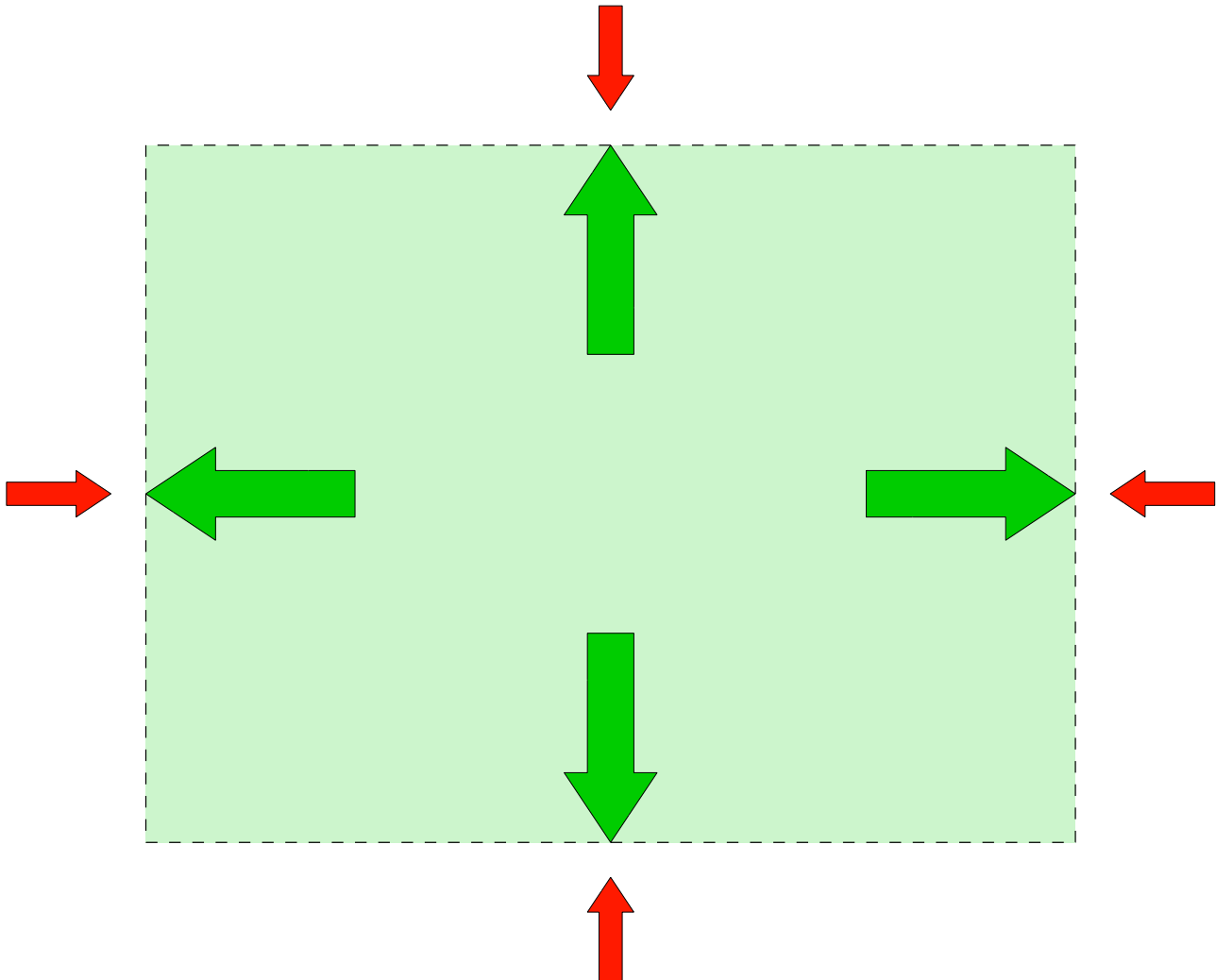




setRedraw002-PNG

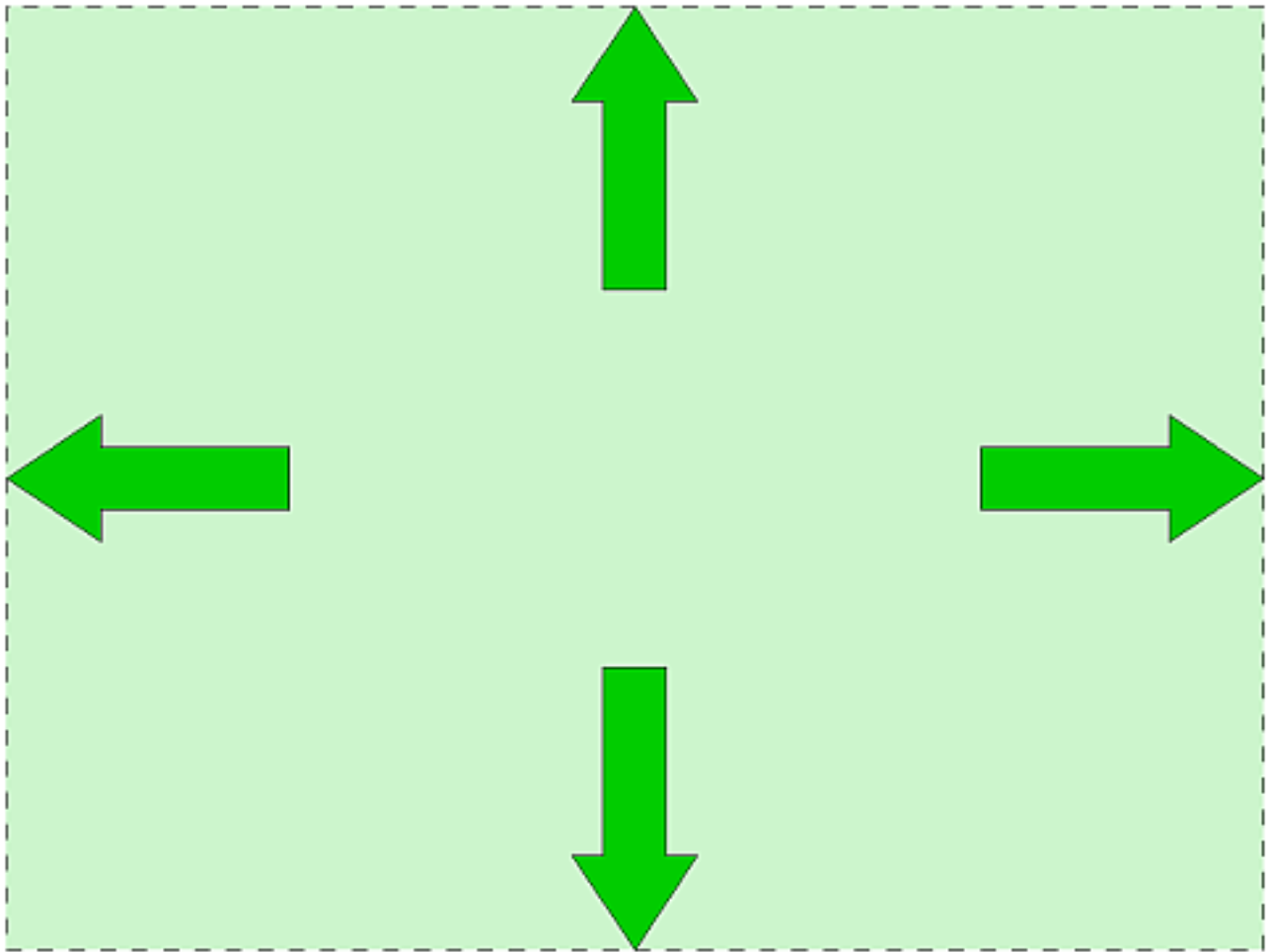
Fig 32, Sheet 2 of 2 setRedraw002

1.33 setView001



setView001-CGM

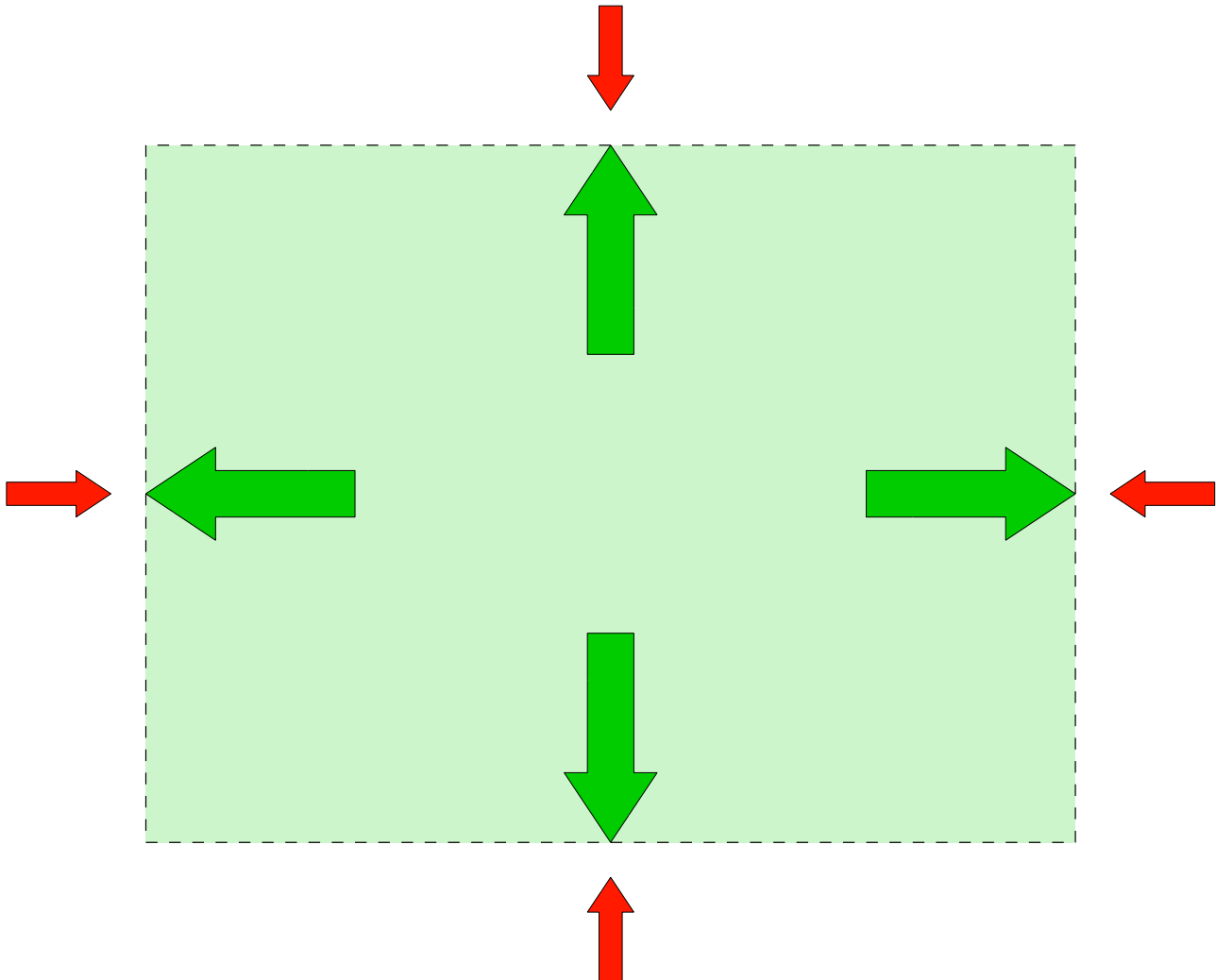
Fig 33, Sheet 1 of 2 setView001



setView001-PNG

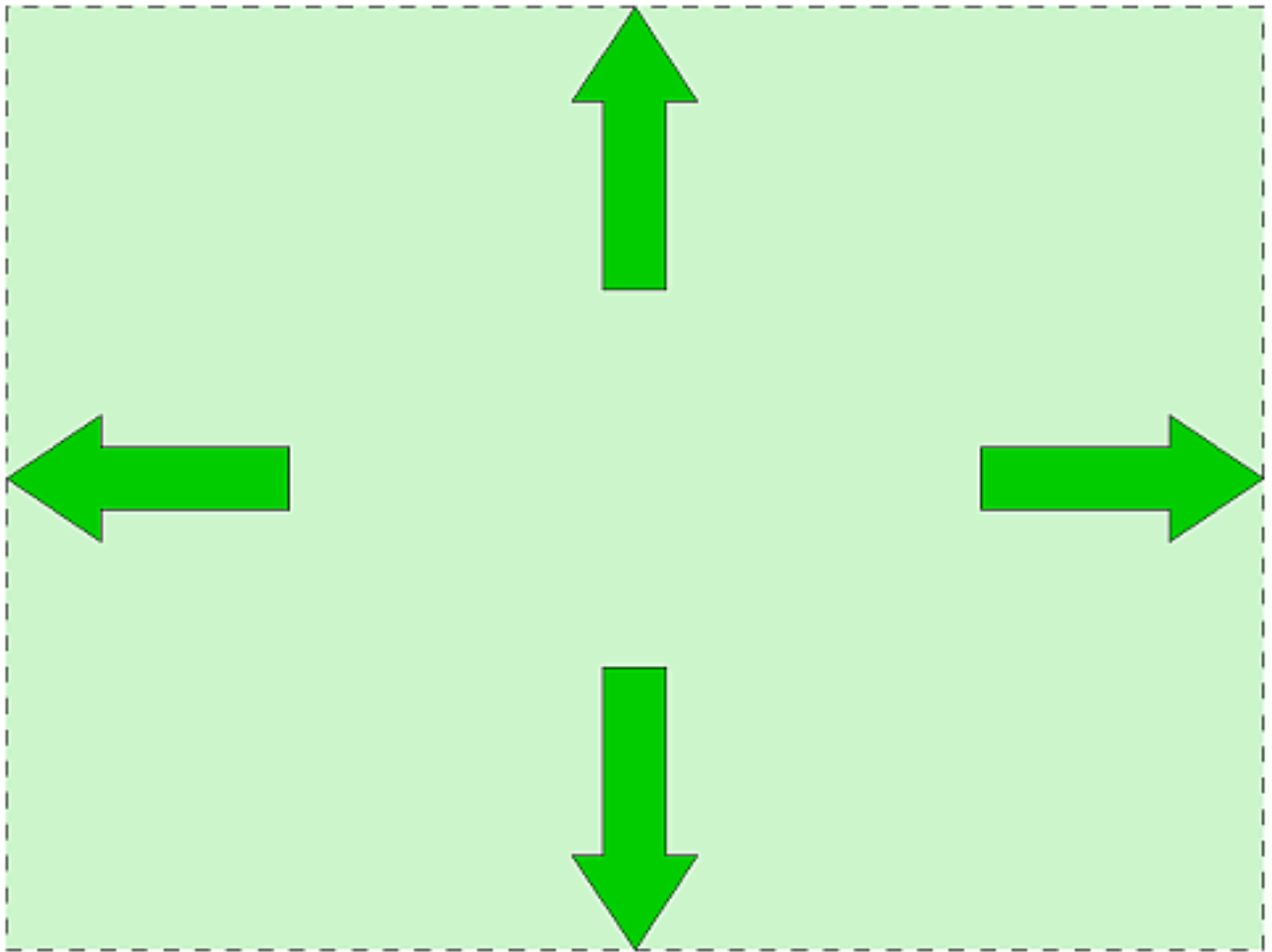
Fig 33, Sheet 2 of 2 setView001

1.34 setView002



setView002-CGM

Fig 34, Sheet 1 of 2 setView002

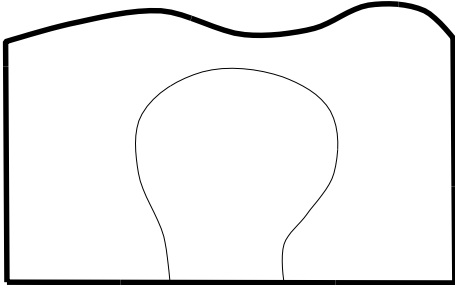


setView002-PNG

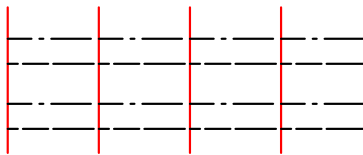
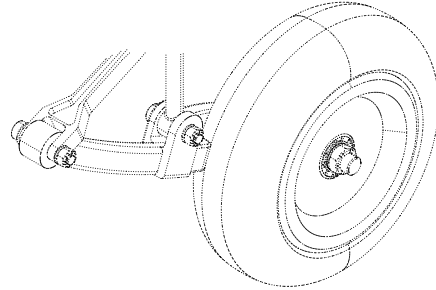
Fig 34, Sheet 2 of 2 setView002

1.35 spXCF

Pattern Index



Stroke Type



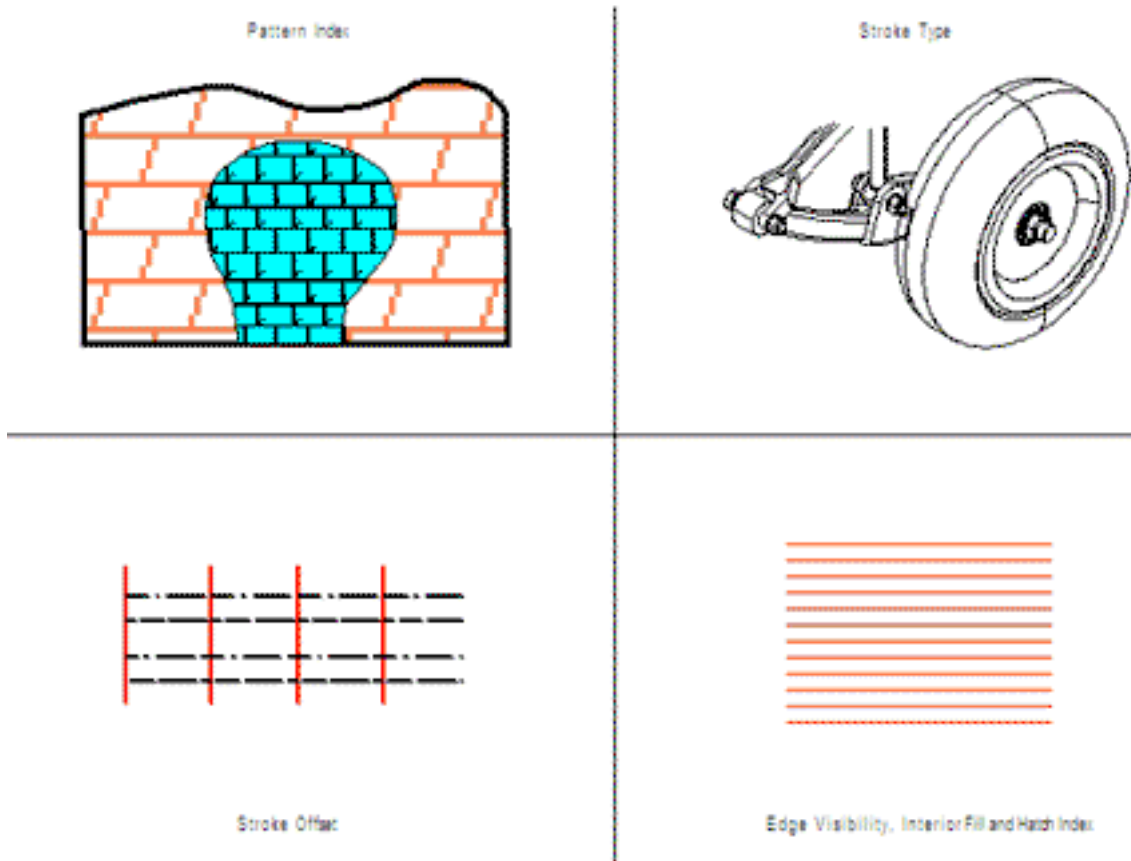
Stroke Offset



Edge Visibility, Interior Fill and Hatch Index

spXCF-CGM

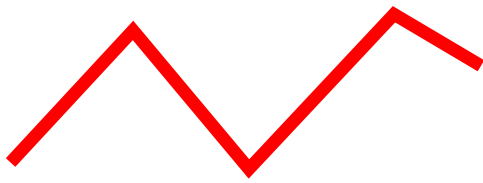
Fig 35, Sheet 1 of 2 spXCF



spXCF-PNG

Fig 35, Sheet 2 of 2 spXCF

1.36 style



Text String

Text String

style-CGM

*Fig 36, Sheet 1 of 2 style*





Text String

Text String



style-PNG

Fig 36, Sheet 2 of 2 style

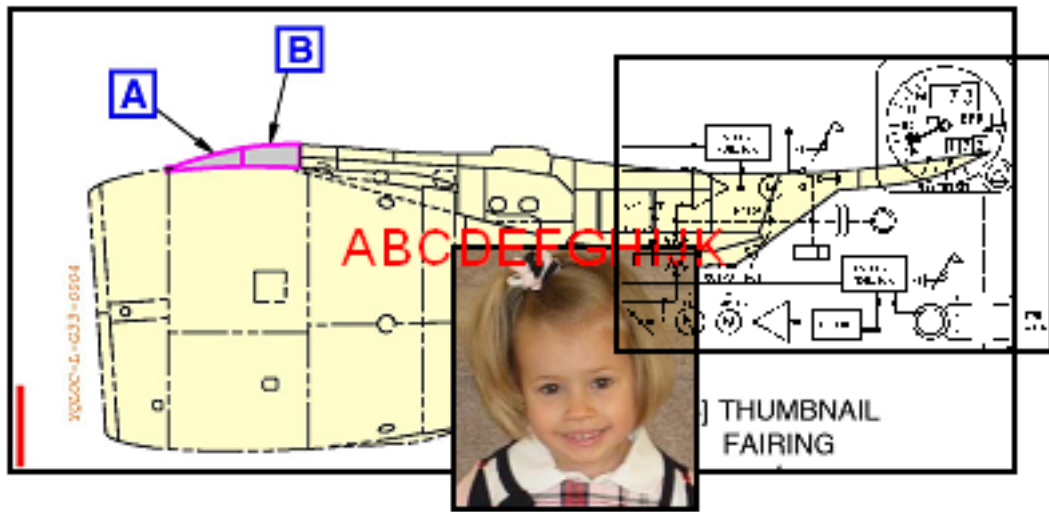
1.37 subString

link first first first  
middle link middle  
last last last link

subString-PNG

*Fig 37 subString*

1.38 transCellColor

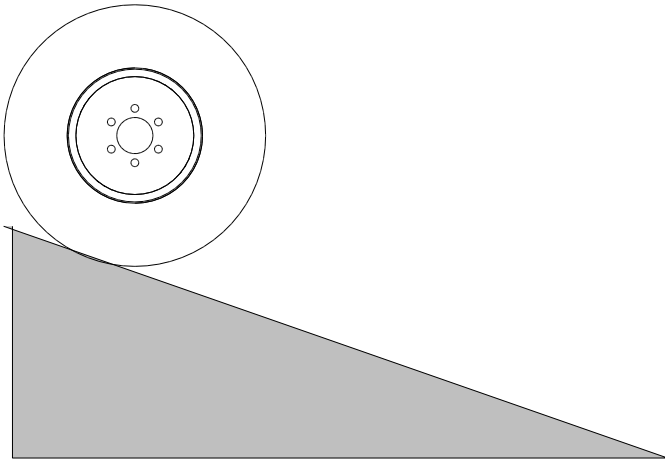


transCellColor-PNG

Fig 38 transCellColor

---

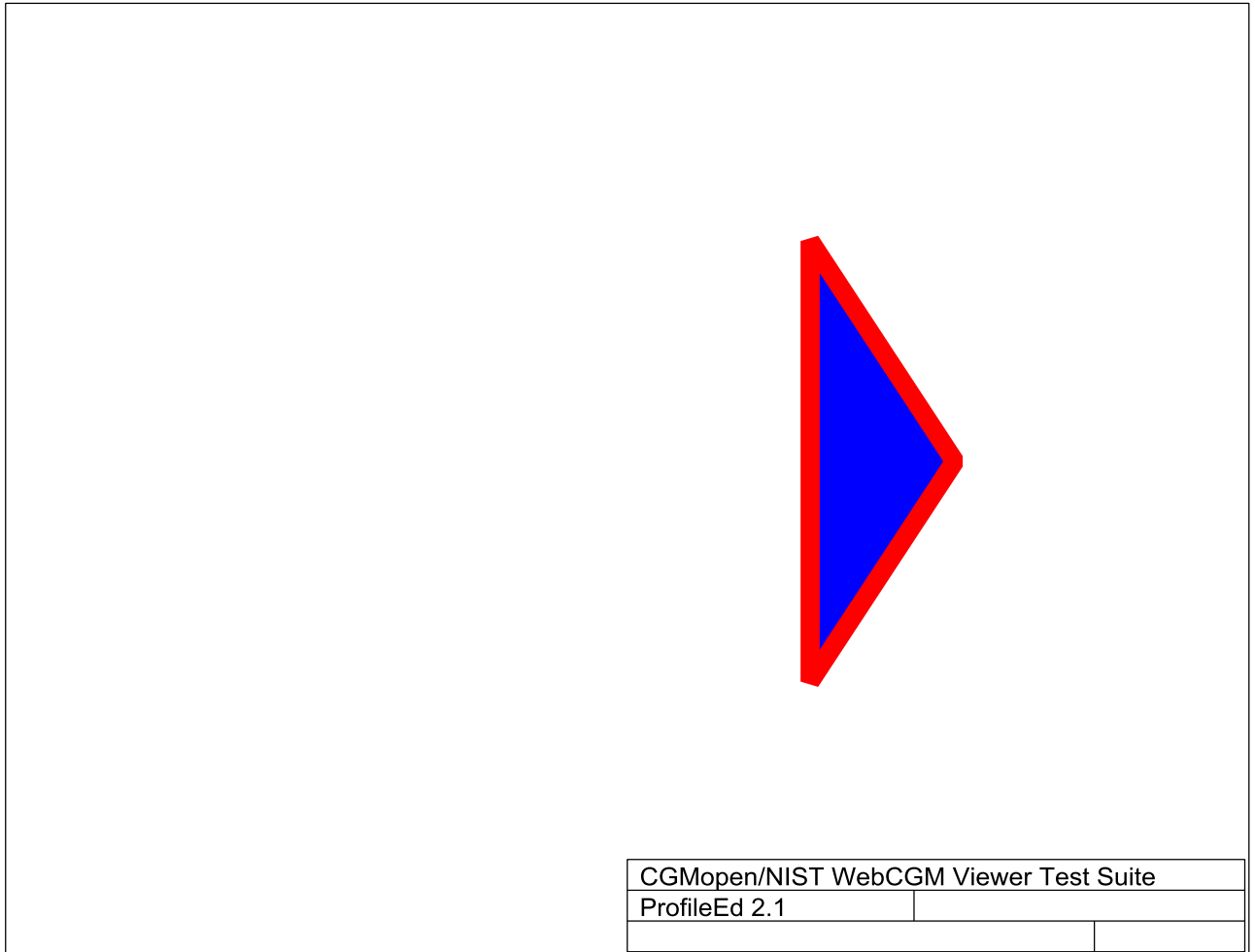
**1.39 transformAnimation**



transformAnimation-CGM

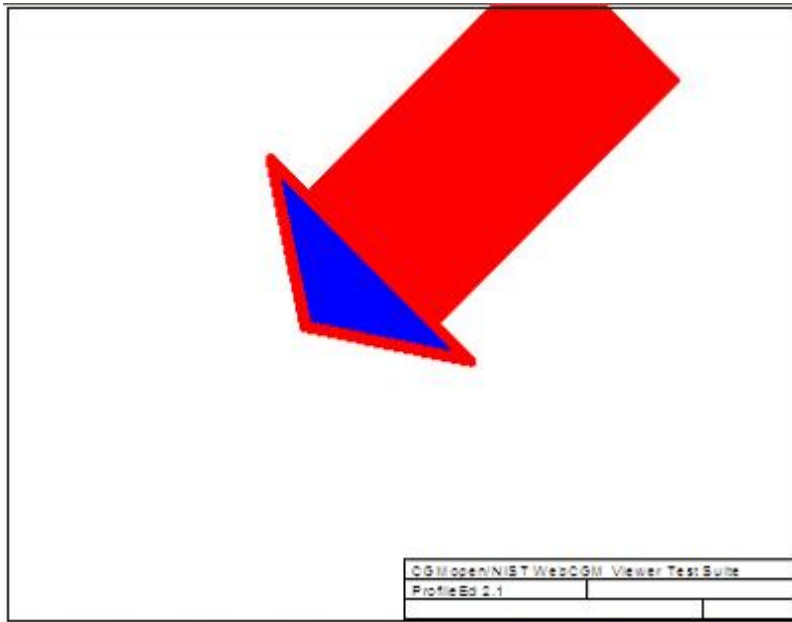
*Fig 39 transformAnimation*

1.40 transformAPS



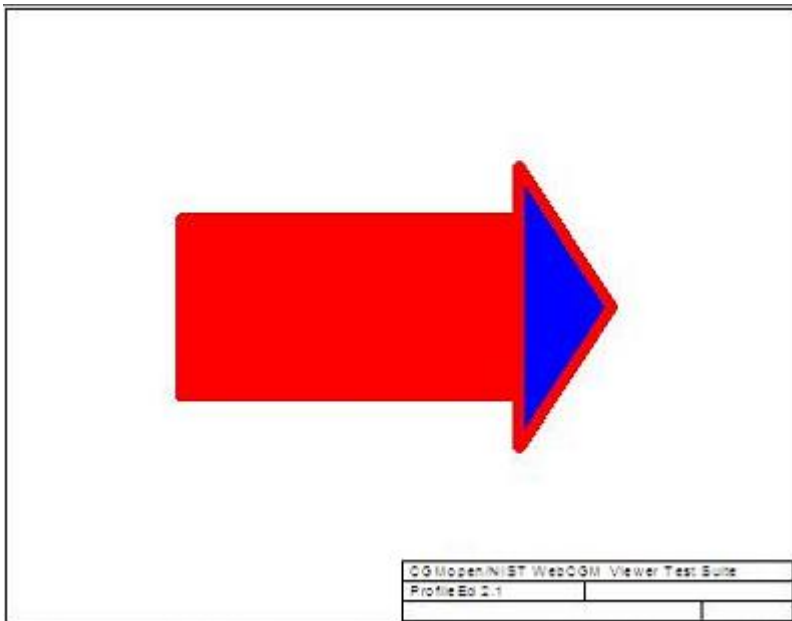
transformAPS-CGM

Fig 40, Sheet 1 of 4 transformAPS



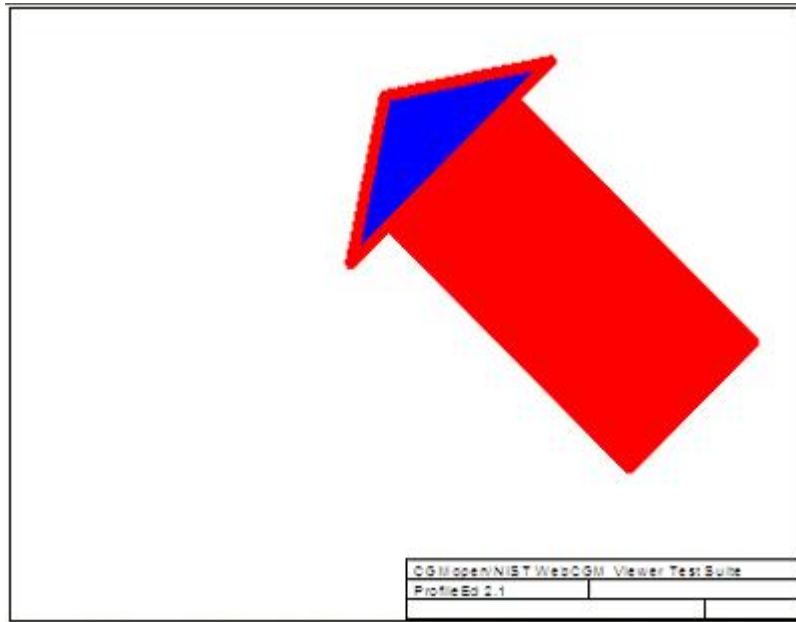
transformAPS\_DownLeft-JPG

Fig 40, Sheet 2 of 4 transformAPS



transformAPS\_Orig-JPG

Fig 40, Sheet 3 of 4 transformAPS



transformAPS\_UpRight-JPG

Fig 40, Sheet 4 of 4 transformAPS

1.41 translateAnimation

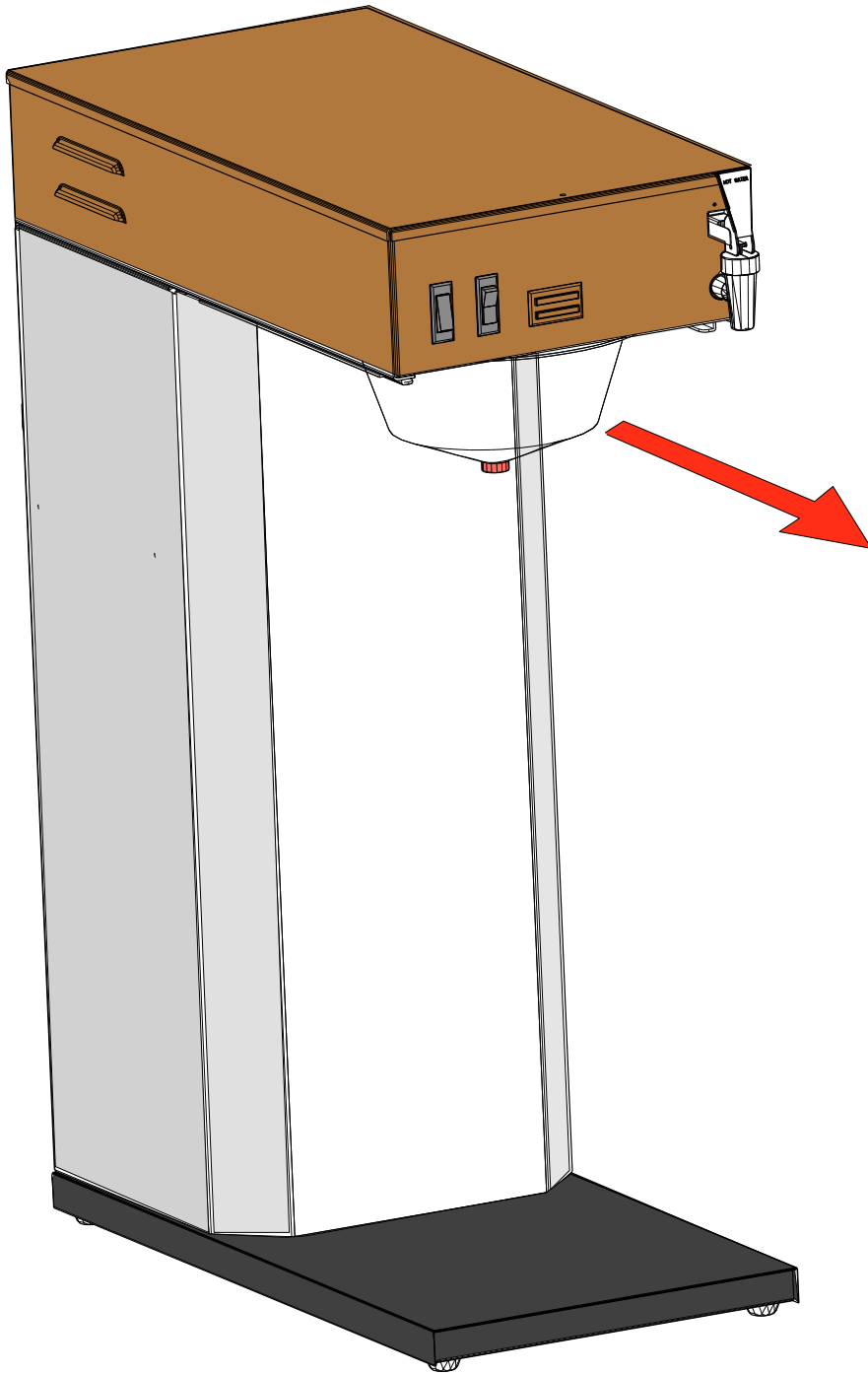
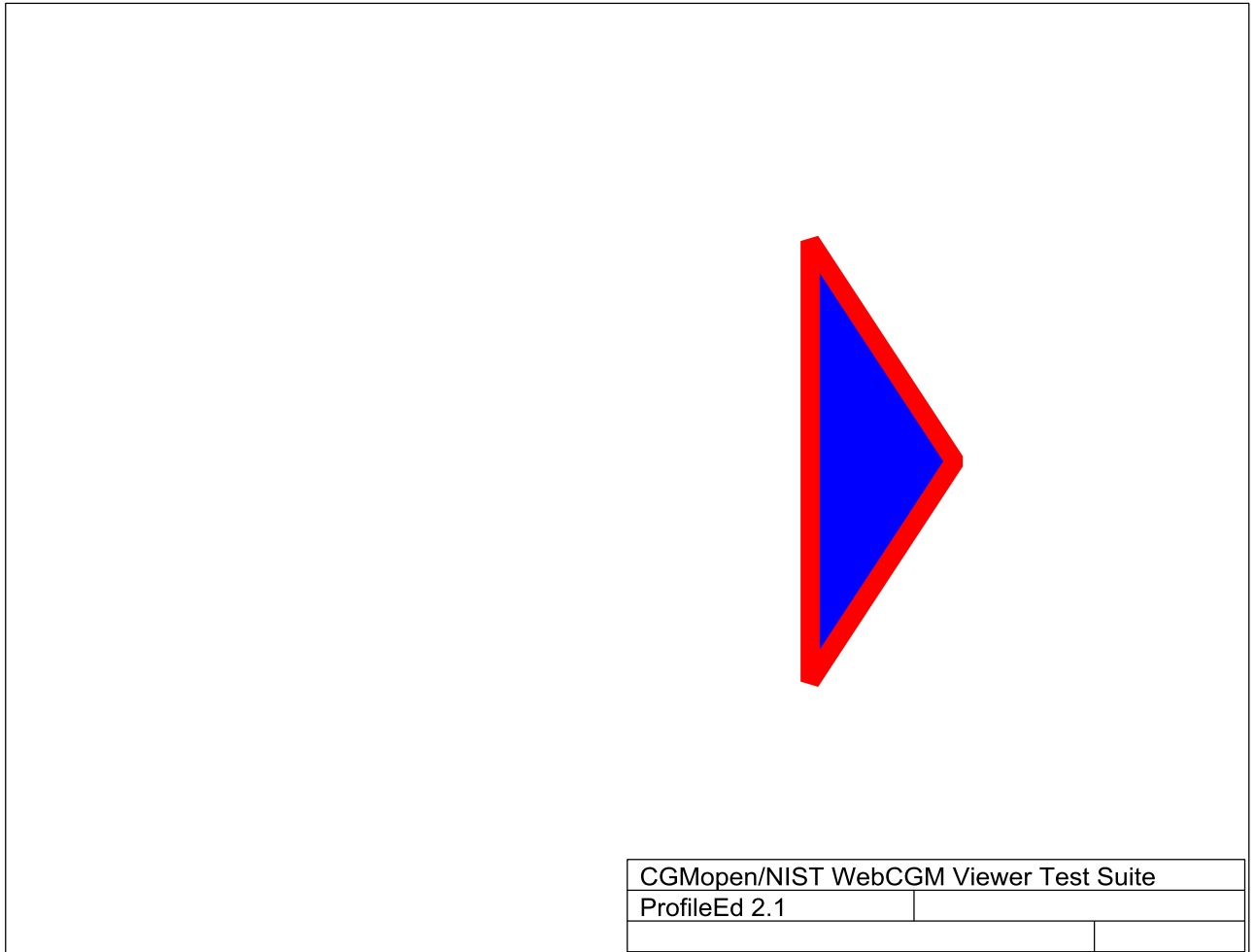


Fig 41 translateAnimation

translateAnimation-CGM

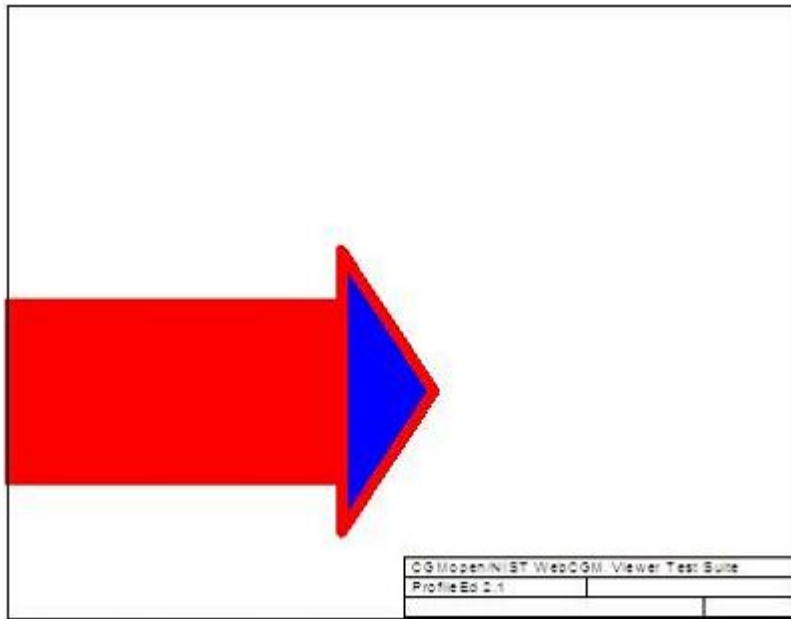


1.42 translateAPS



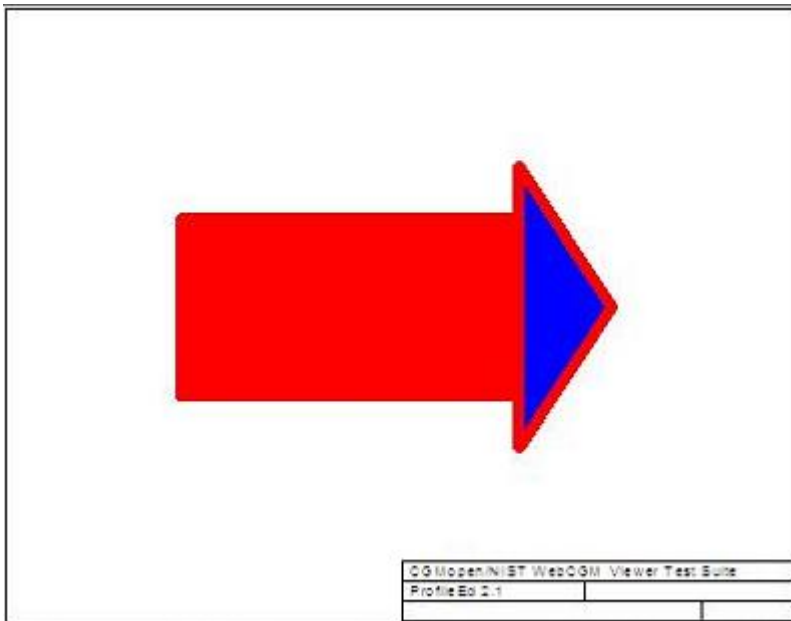
translateAPS-CGM

Fig 42, Sheet 1 of 4 translateAPS



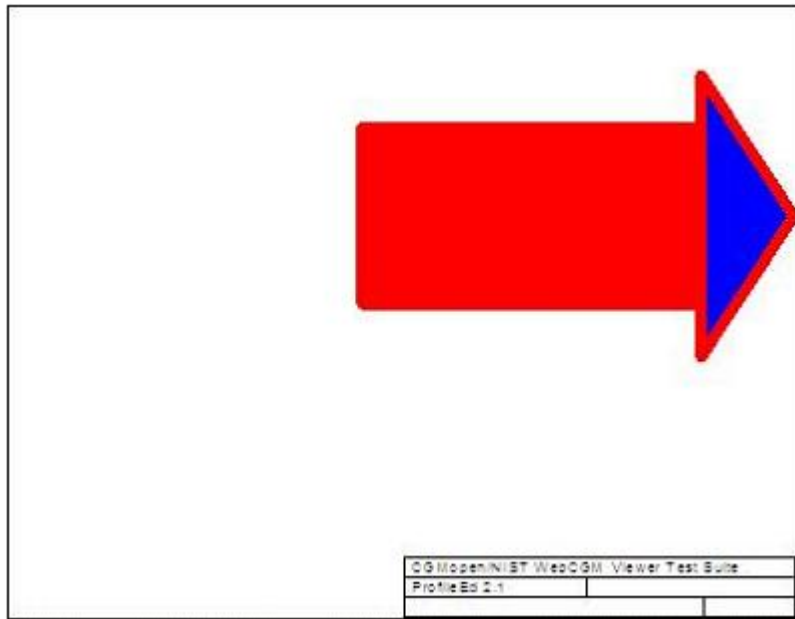
translateAPS\_DownLeft-JPG

Fig 42, Sheet 2 of 4 translateAPS



translateAPS\_Orig-JPG

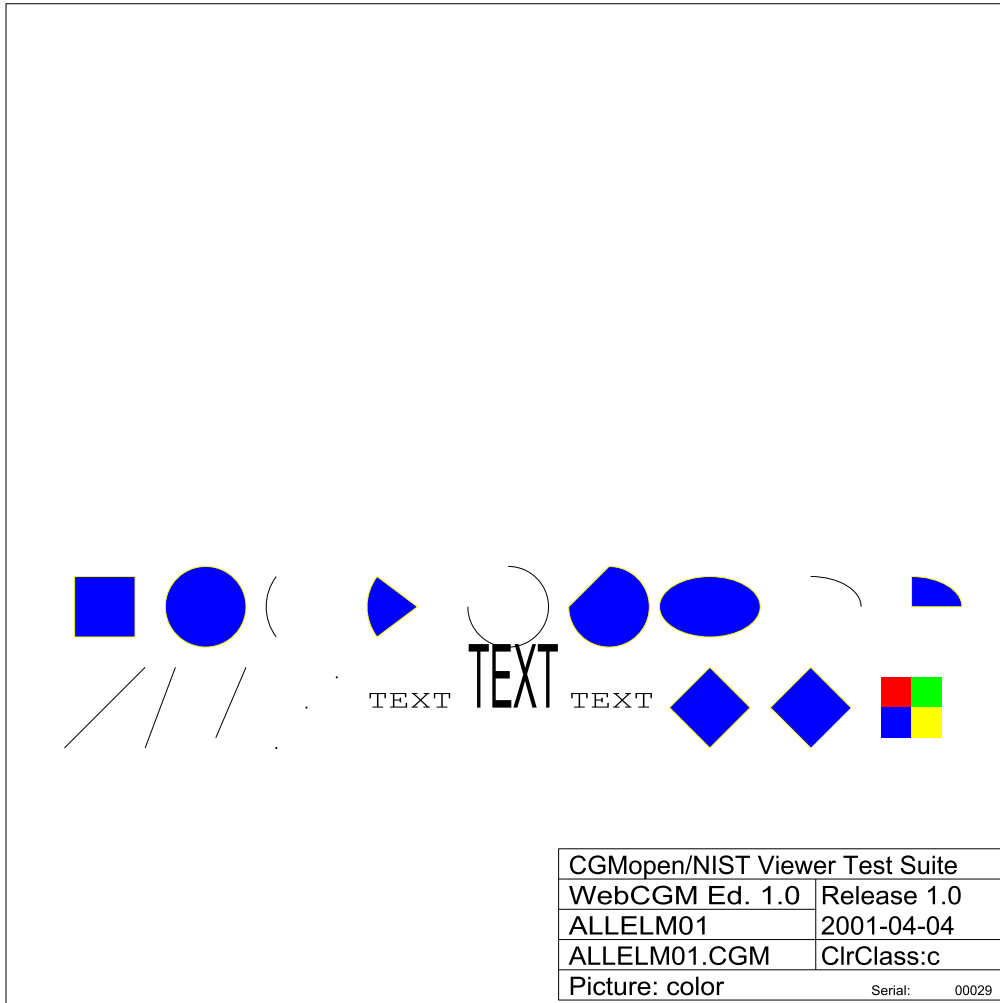
Fig 42, Sheet 3 of 4 translateAPS



translateAPS\_UpRight-JPG

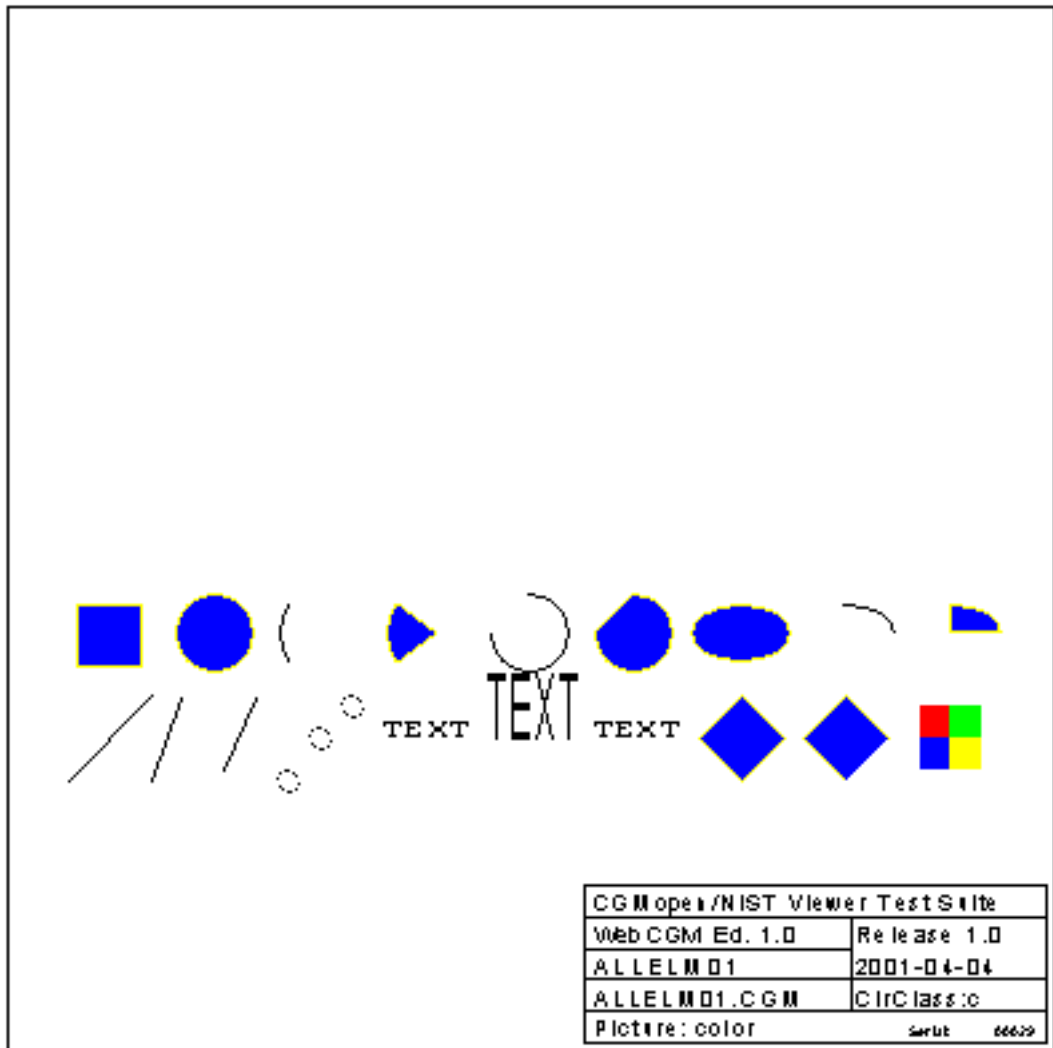
Fig 42, Sheet 4 of 4 translateAPS

1.43 zCompress



zCompress-CGM

Fig 43, Sheet 1 of 2 zCompress



zCompress-PNG

Fig 43, Sheet 2 of 2 zCompress

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## WebCGM 2.1 Test Suite

### *WebCGM20*

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## References

*Table 1 References*

---

Data module / Technical publication	Title
None	

---

## Description

### 1 WebCGM20

WebCGM20 TEST illustrations follow:



**1.1 AppAttContent**

There once was a man from Nantucket,  
Who kept all of his cash in a bucket,  
But his daughter, named Nan,  
Ran away with a man,  
And as for the bucket, Nantucket.

AppAttContent-CGM

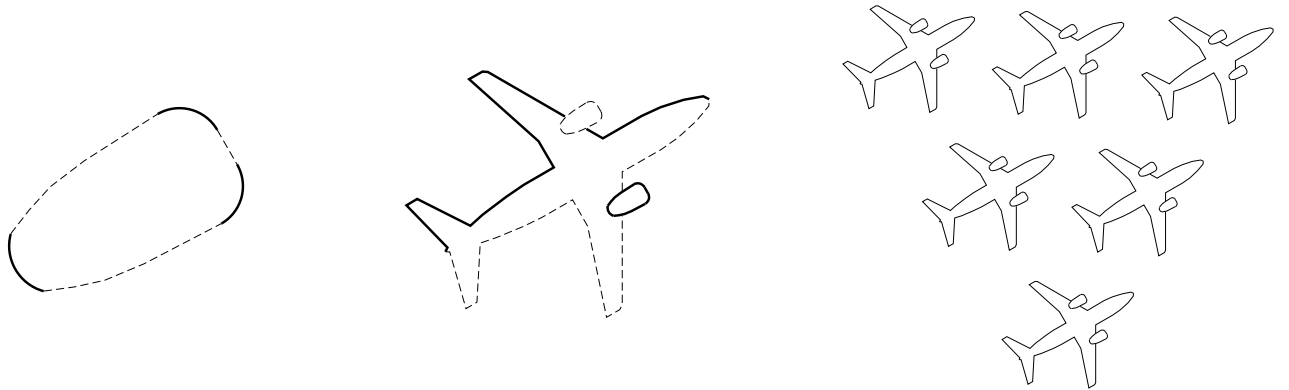
*Fig 1, Sheet 1 of 2 AppAttContent*

There once was a man from Nantucket,  
Who kept all of his cash in a bucket,  
But his daughter, named Nan,  
Ran away with a man,  
And as for the bucket, Nantucket.

AppAttContent-PNG

*Fig 1, Sheet 2 of 2 AppAttContent*

**1.2 AppStructure-interactivity**



AppStructure-interactivity-CGM

Fig 2, Sheet 1 of 2 AppStructure-interactivity



AppStructure-interactivity-PNG

Fig 2, Sheet 2 of 2 AppStructure-interactivity

1.3 AppStructure-layerdesc



layerdesc=Single Plane Engine



layerdesc=Single Plane



layerdesc=6 Planes

AppStructure-layerdesc-PNG

Fig 3 AppStructure-layerdesc

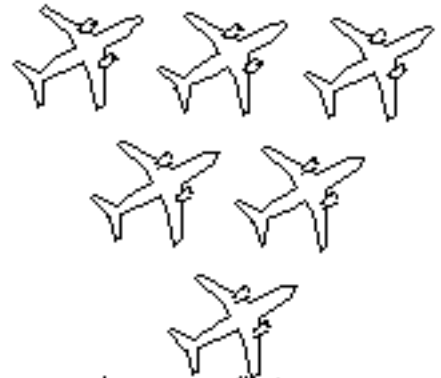
## 1.4 AppStructure-layername



layemame=engine



layemame=plane



layemame=fleet

AppStructure-layername-PNG

Fig 4 AppStructure-layername

1.5 AppStructure-linkuri

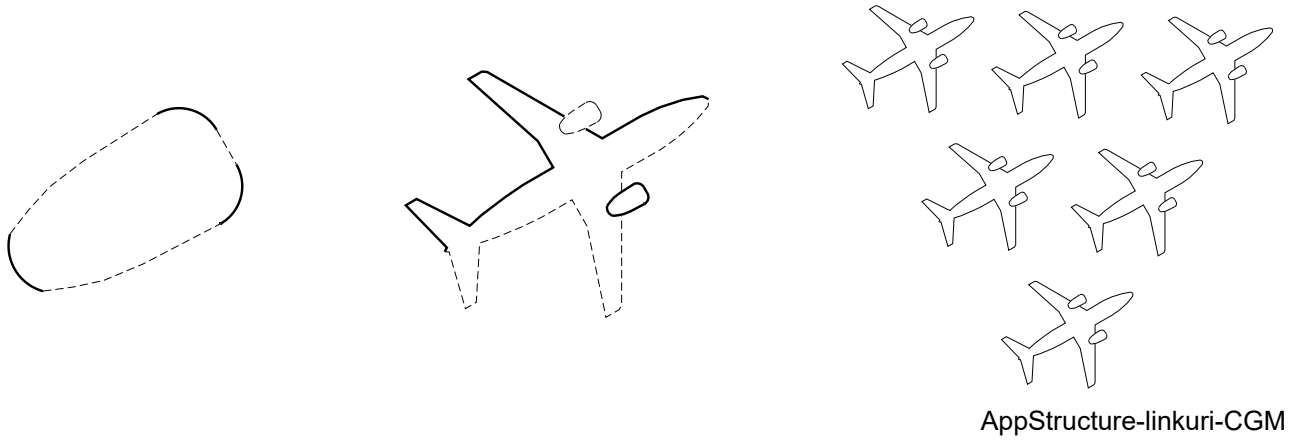


Fig 5, Sheet 1 of 2 AppStructure-linkuri

AppStructure-linkuri-CGM

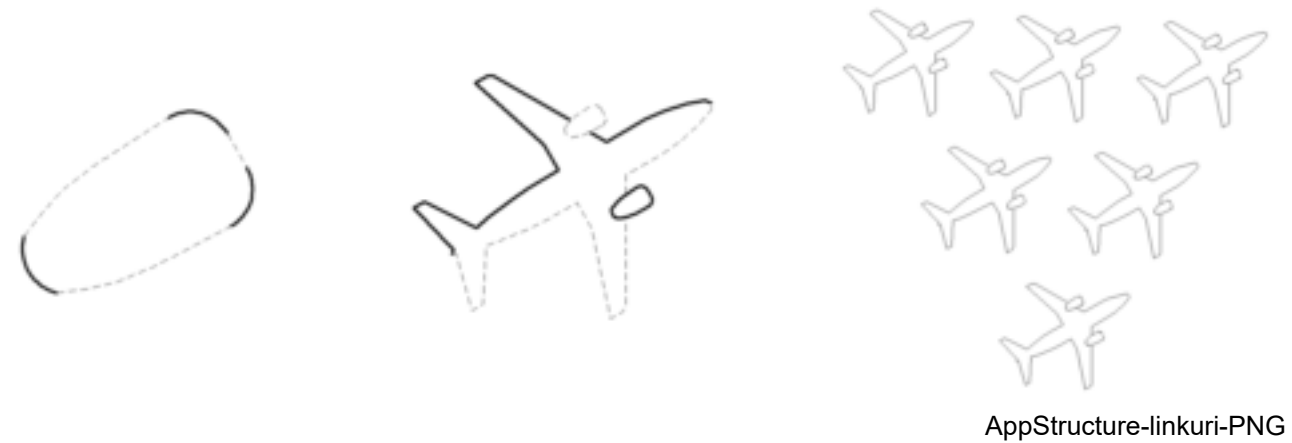


Fig 5, Sheet 2 of 2 AppStructure-linkuri

AppStructure-linkuri-PNG

## 1.6 AppStructure-name

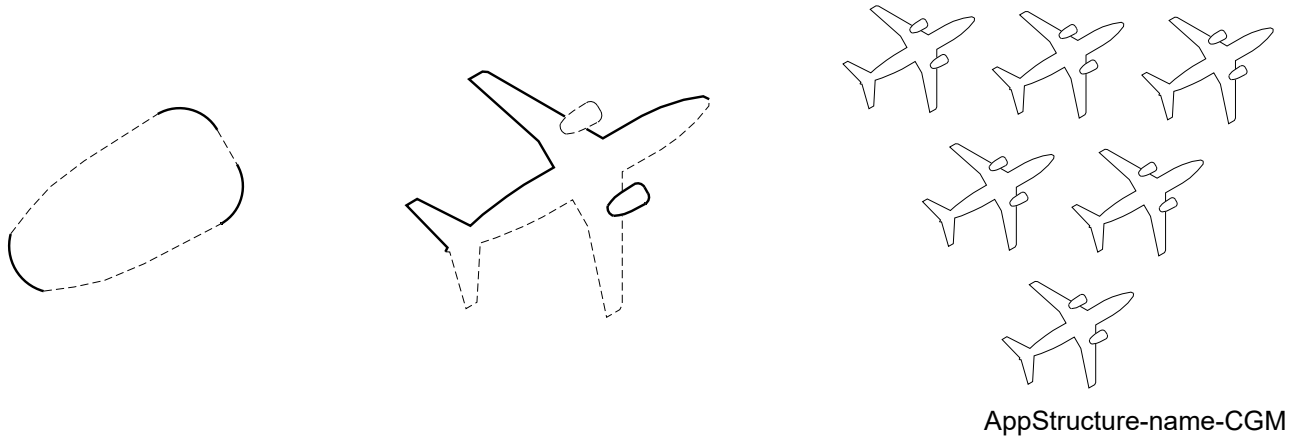
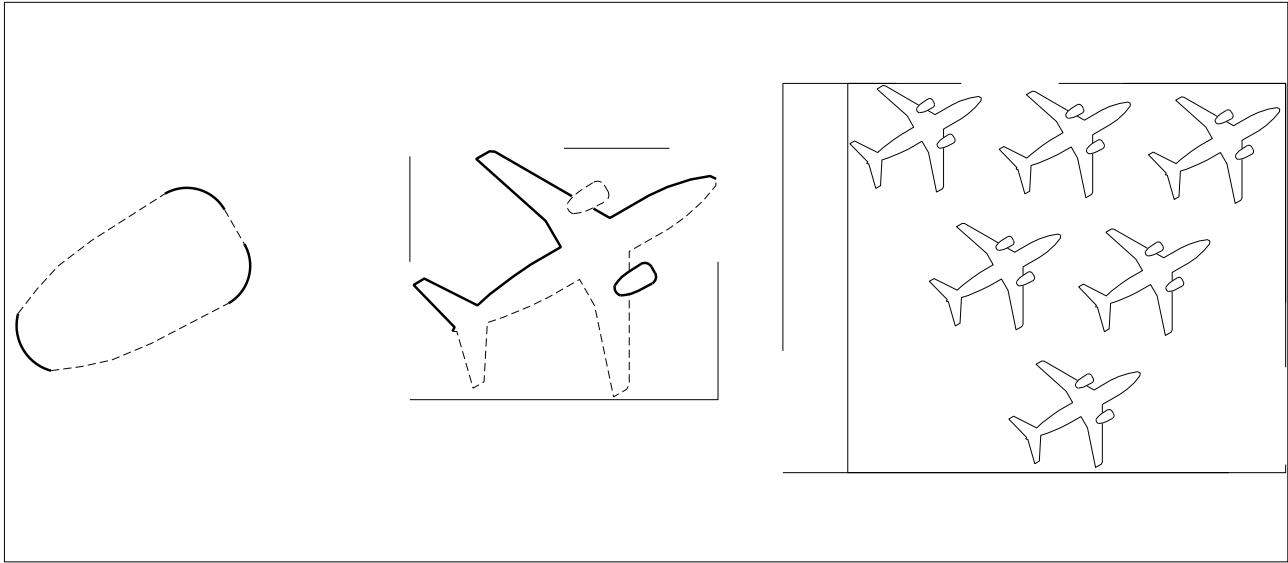


Fig 6, Sheet 1 of 2 AppStructure-name



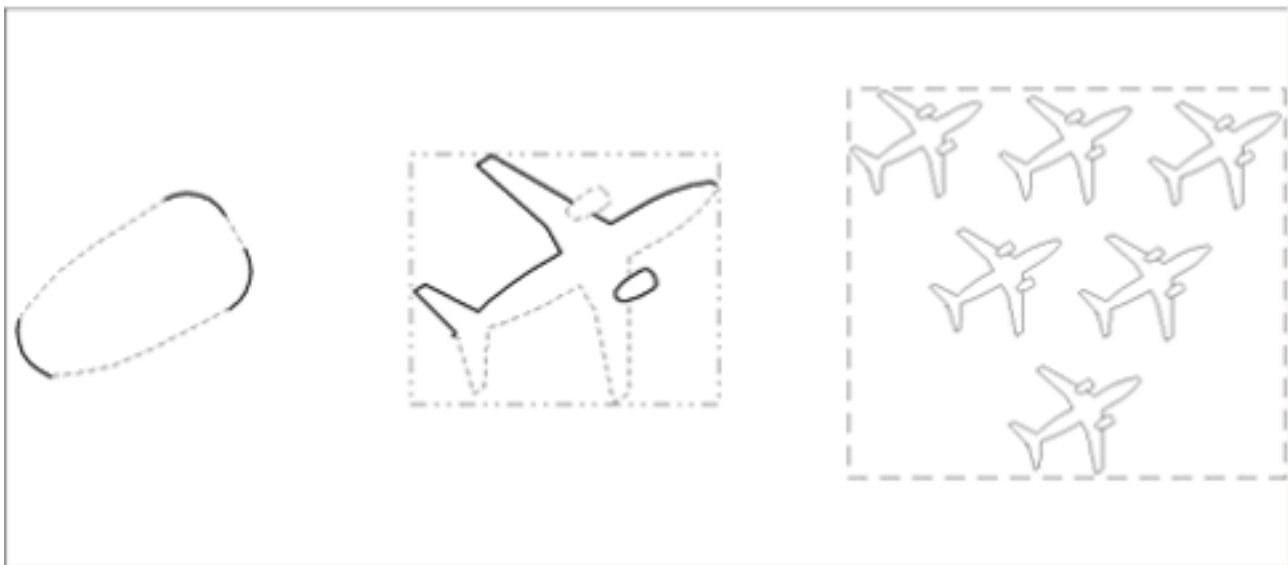
Fig 6, Sheet 2 of 2 AppStructure-name

1.7 AppStructure-region



AppStructure-region-CGM

Fig 7, Sheet 1 of 2 AppStructure-region



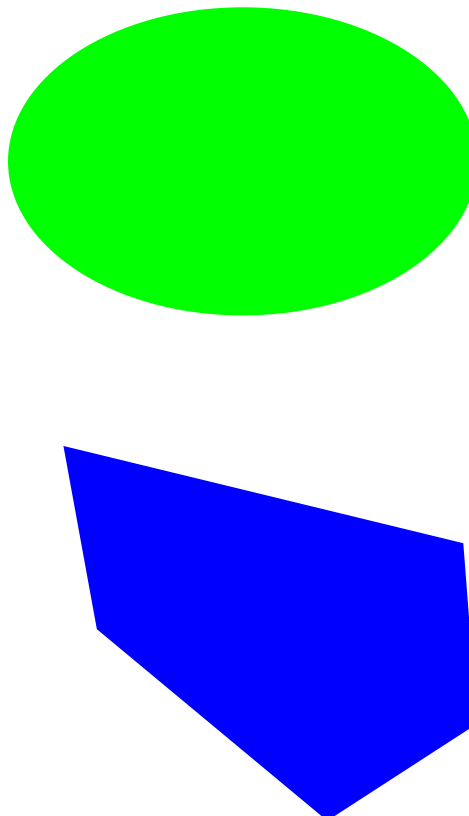
AppStructure-region-PNG

Fig 7, Sheet 2 of 2 AppStructure-region





1.8 AppStructure-screentip



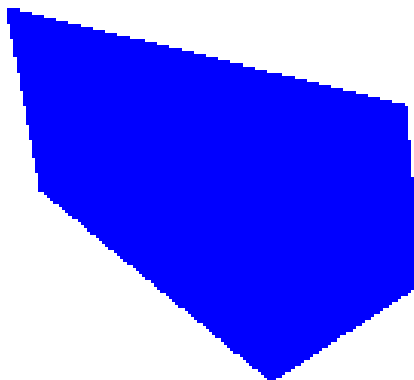
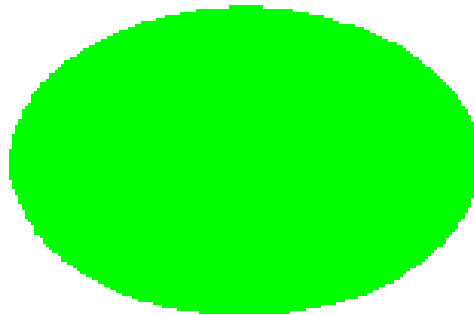
AppStructure-screentip-CGM

*Fig 8, Sheet 1 of 2 AppStructure-screentip*

---

Applicable to: All

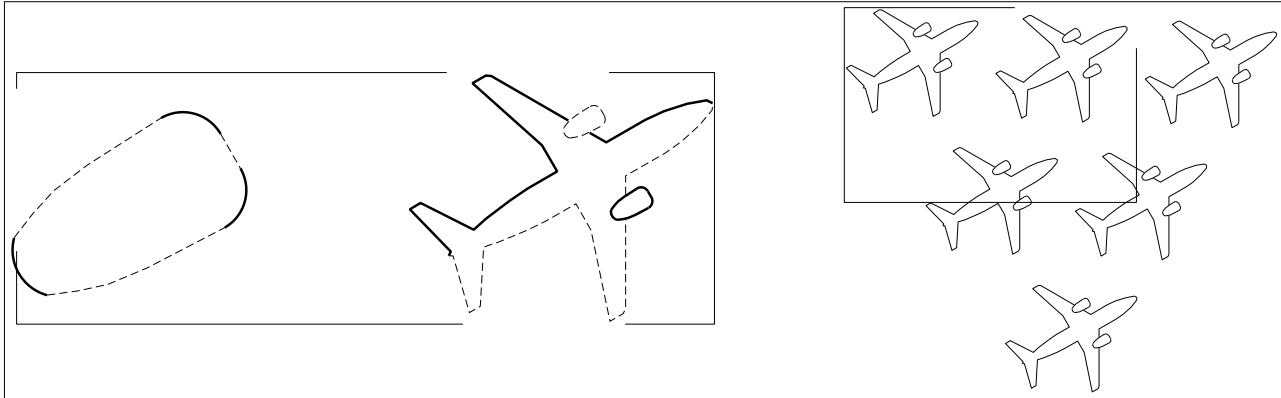
**TEST41-A-00-00-00-03A-040A-A**



AppStructure-screentip-PNG

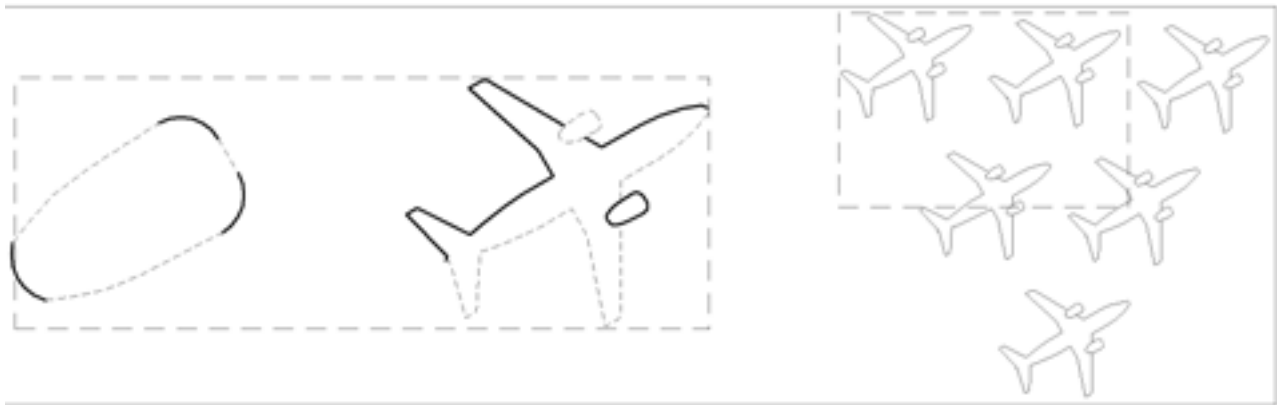
*Fig 8, Sheet 2 of 2 AppStructure-screentip*

1.9 AppStructure-viewcontext



AppStructure-viewcontext-CGM

Fig 9, Sheet 1 of 2 AppStructure-viewcontext



AppStructure-viewcontext-PNG

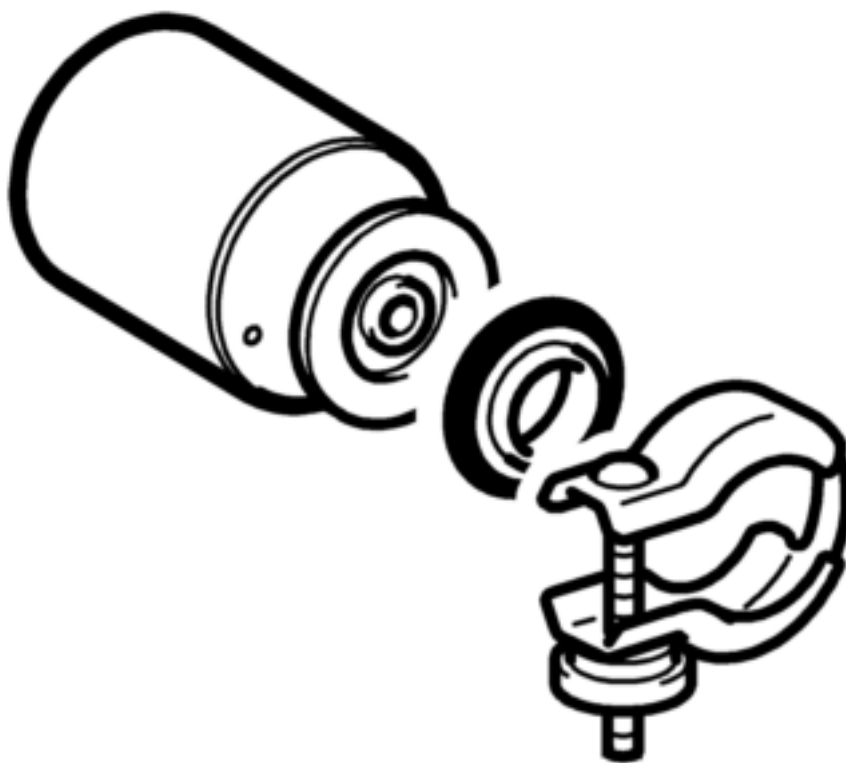
Fig 9, Sheet 2 of 2 AppStructure-viewcontext

**1.10 AppStructure-visibility**



AppStructure-visibility-CGM

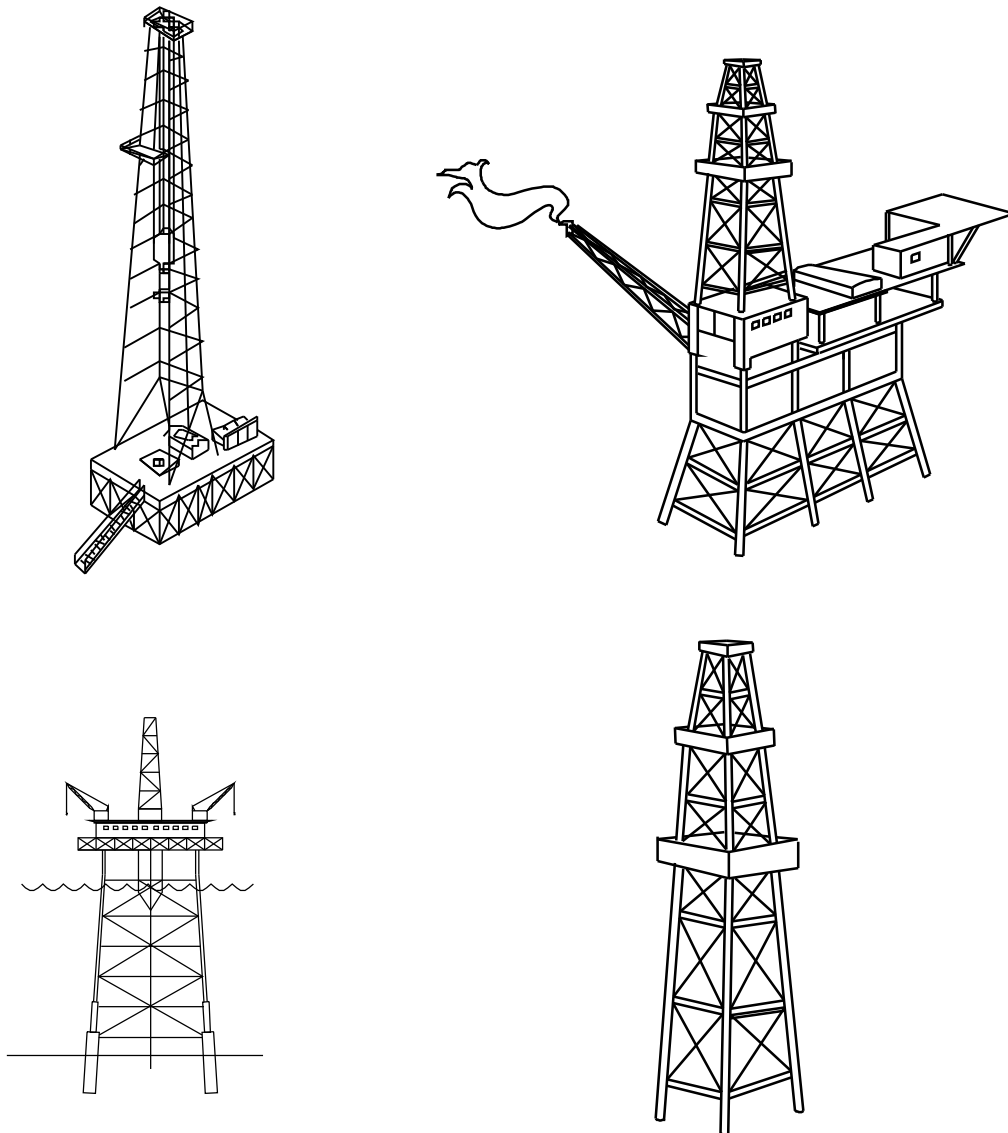
*Fig 10, Sheet 1 of 2 AppStructure-visibility*



AppStructure-visibility-PNG

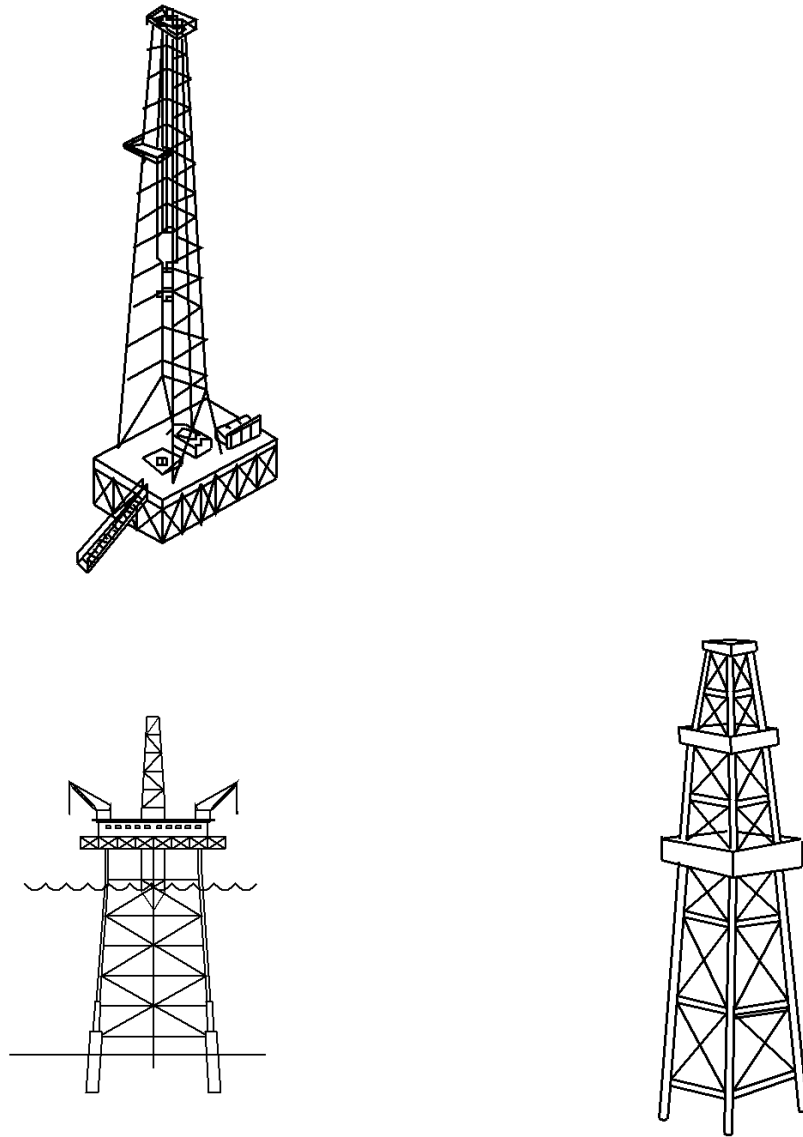
*Fig 10, Sheet 2 of 2 AppStructure-visibility*

1.11 AppStructure-visibility2



AppStructure-visibility2-CGM

Fig 11, Sheet 1 of 2 AppStructure-visibility2

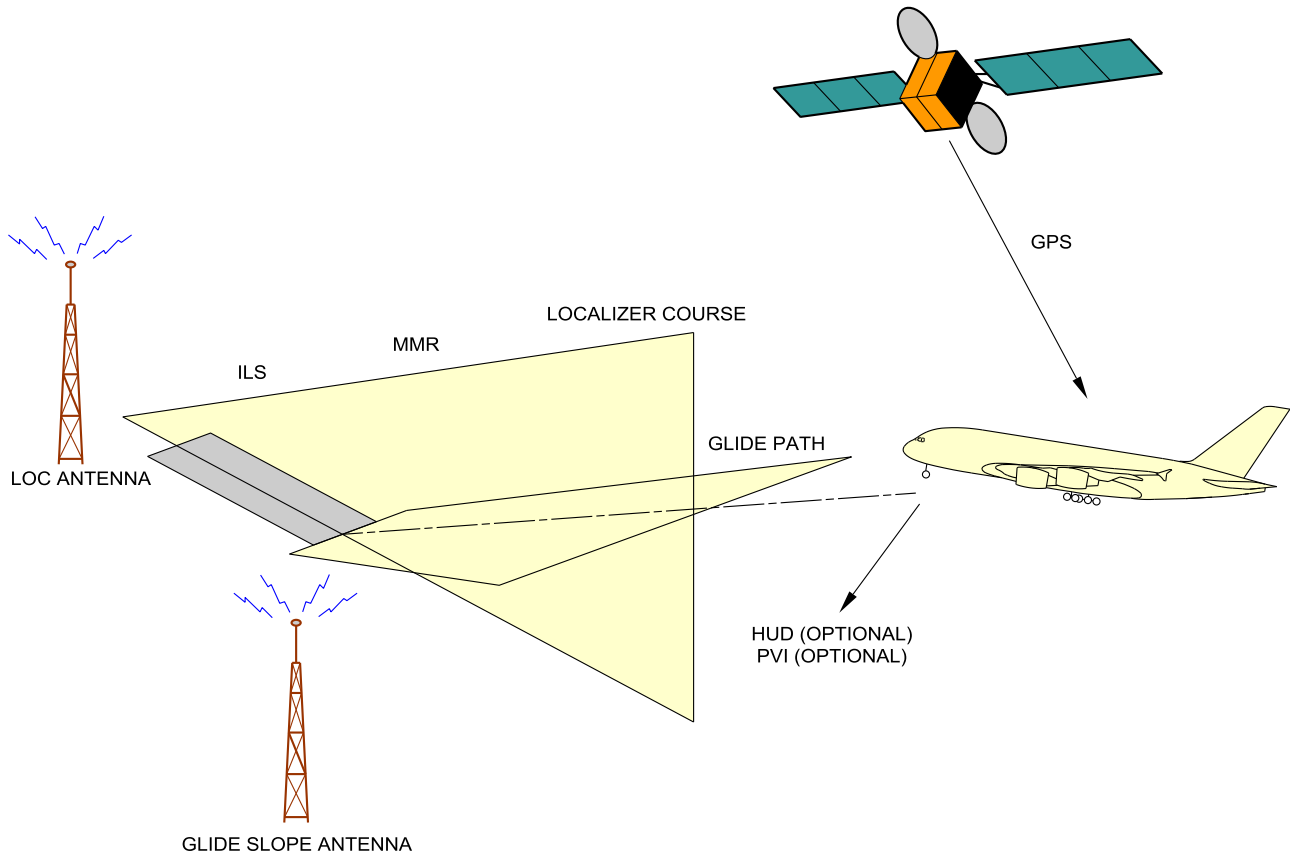


AppStructure-visibility2-PNG

Fig 11, Sheet 2 of 2 AppStructure-visibility2

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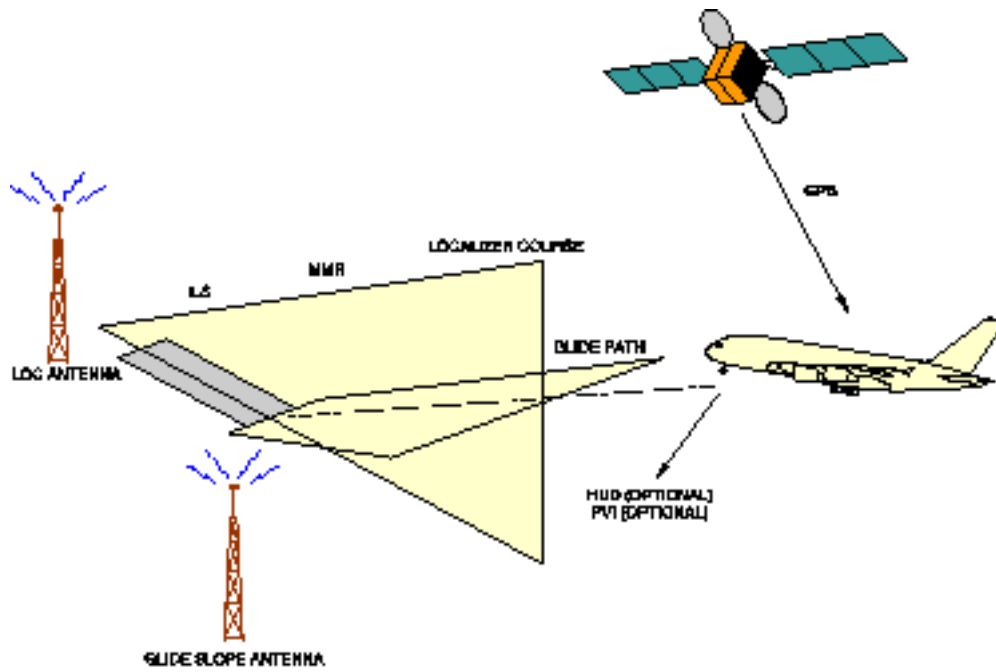
1.12 CGM\_Metatile



CGM\_Metatile-CGM

Fig 12, Sheet 1 of 2 CGM\_Metatile

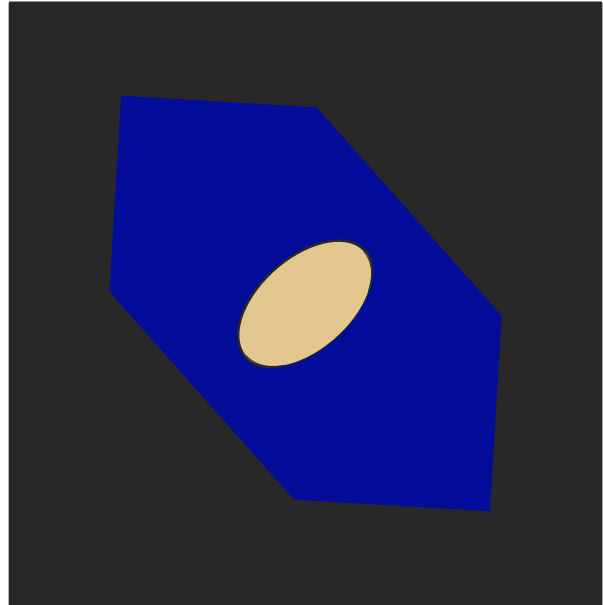
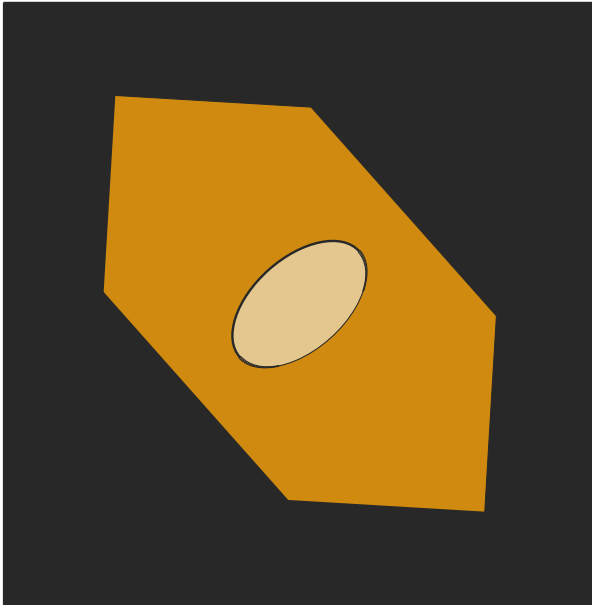




CGM\_Metatile-PNG

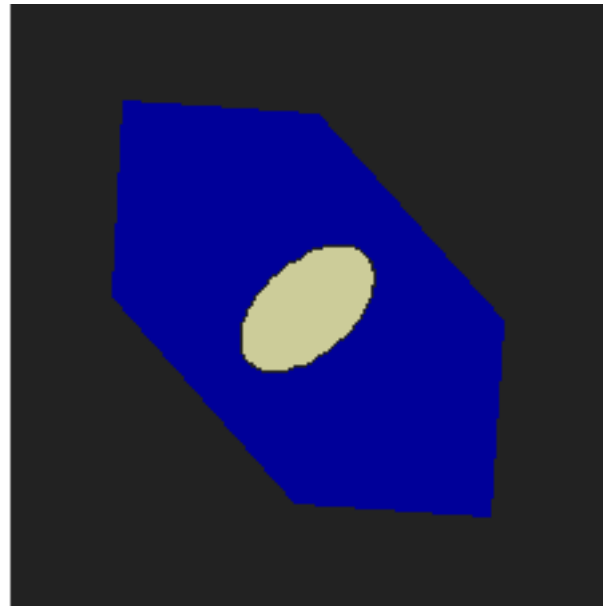
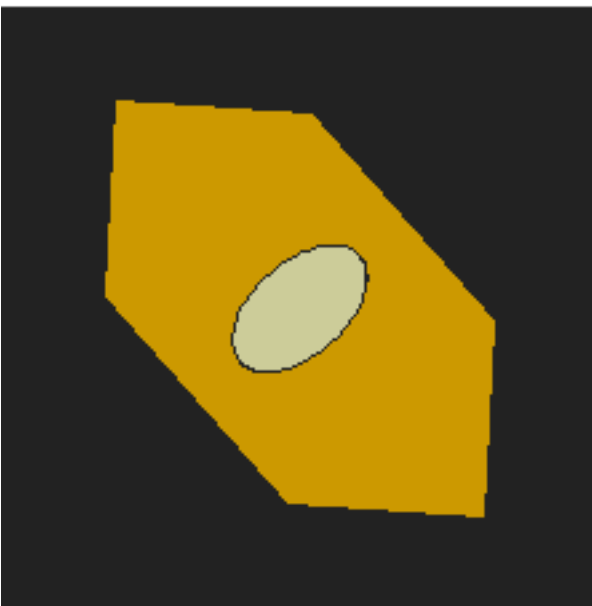
Fig 12, Sheet 2 of 2 CGM\_Metatile

1.13 gr-interactivity



gr-interactivity-CGM

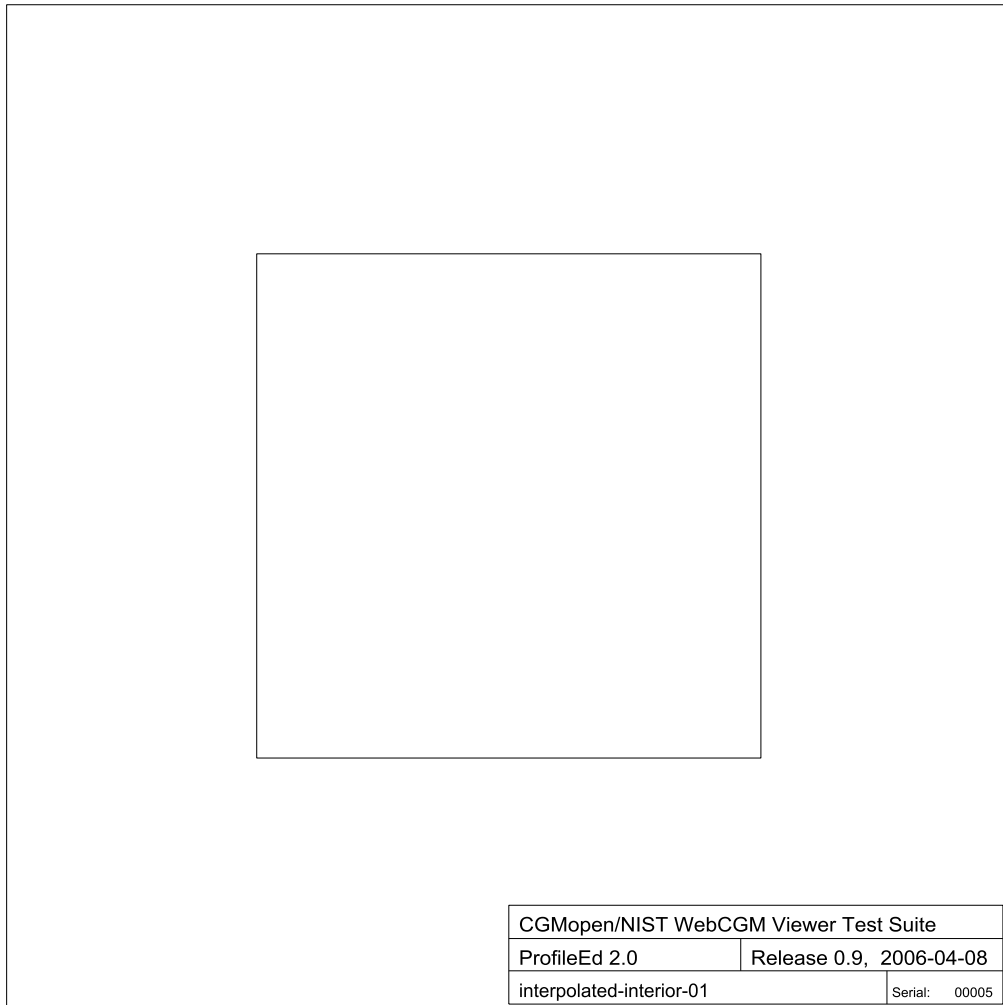
Fig 13, Sheet 1 of 2 gr-interactivity



gr-interactivity-PNG

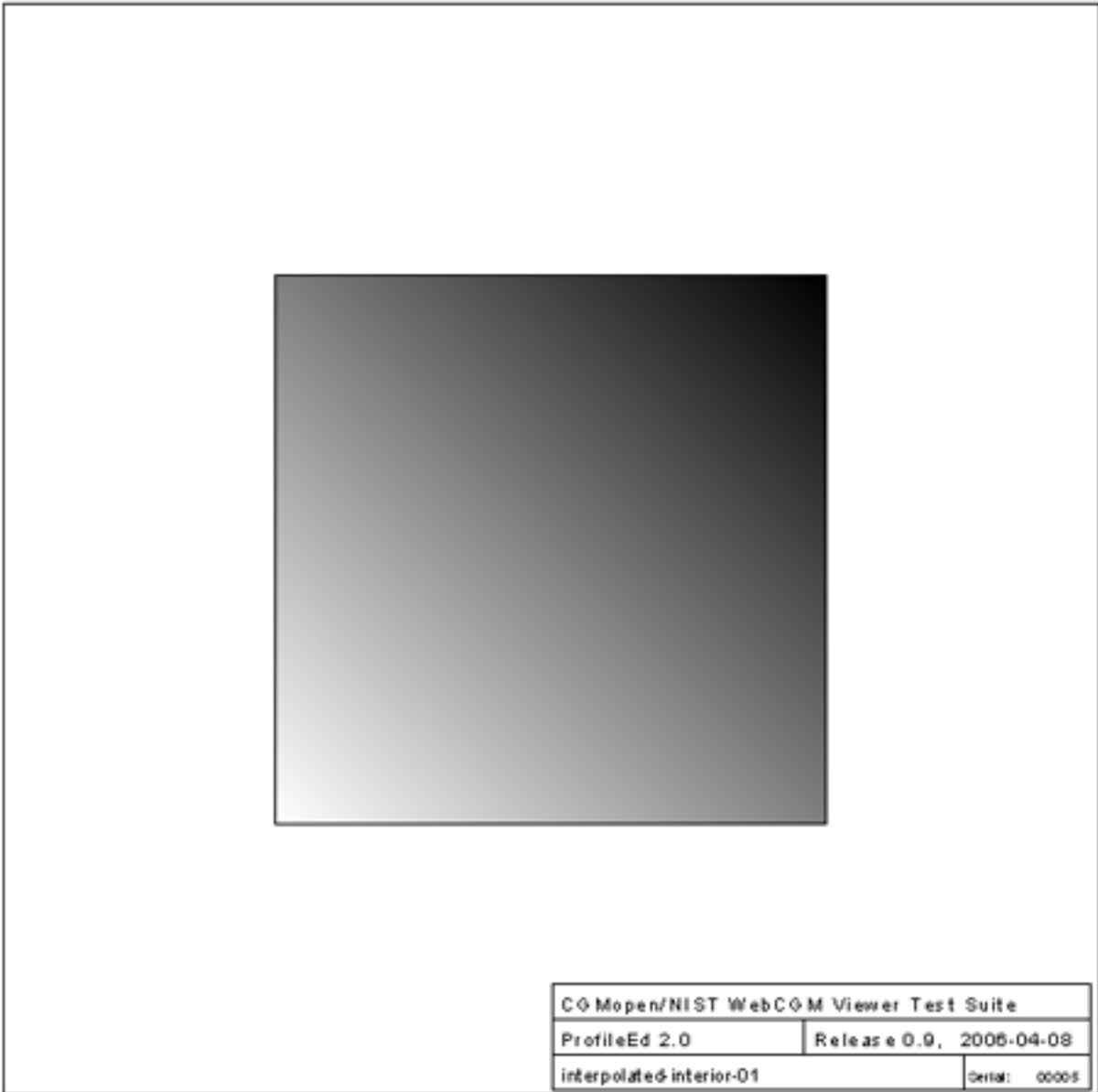
Fig 13, Sheet 2 of 2 gr-interactivity

1.14 interpolated-interior-01



interpolated-interior-01-CGM

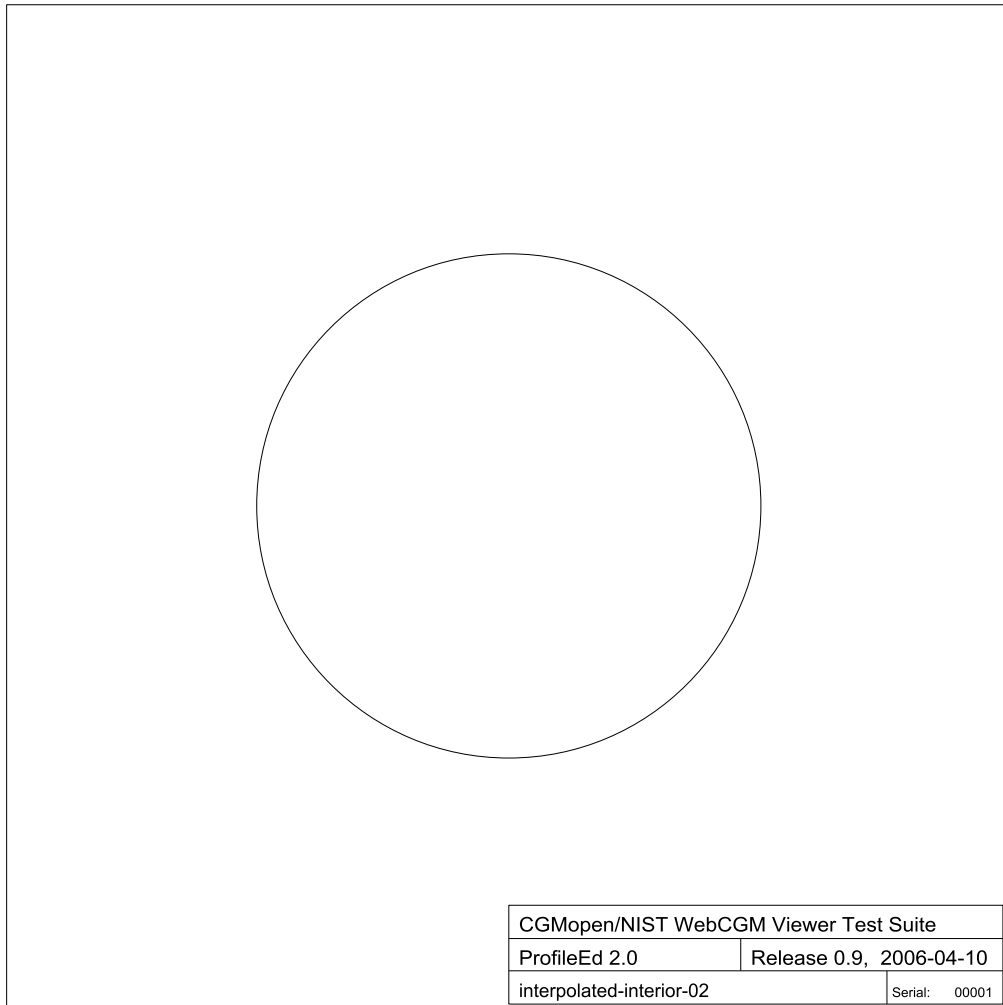
Fig 14, Sheet 1 of 2 interpolated-interior-01



interpolated-interior-01-PNG

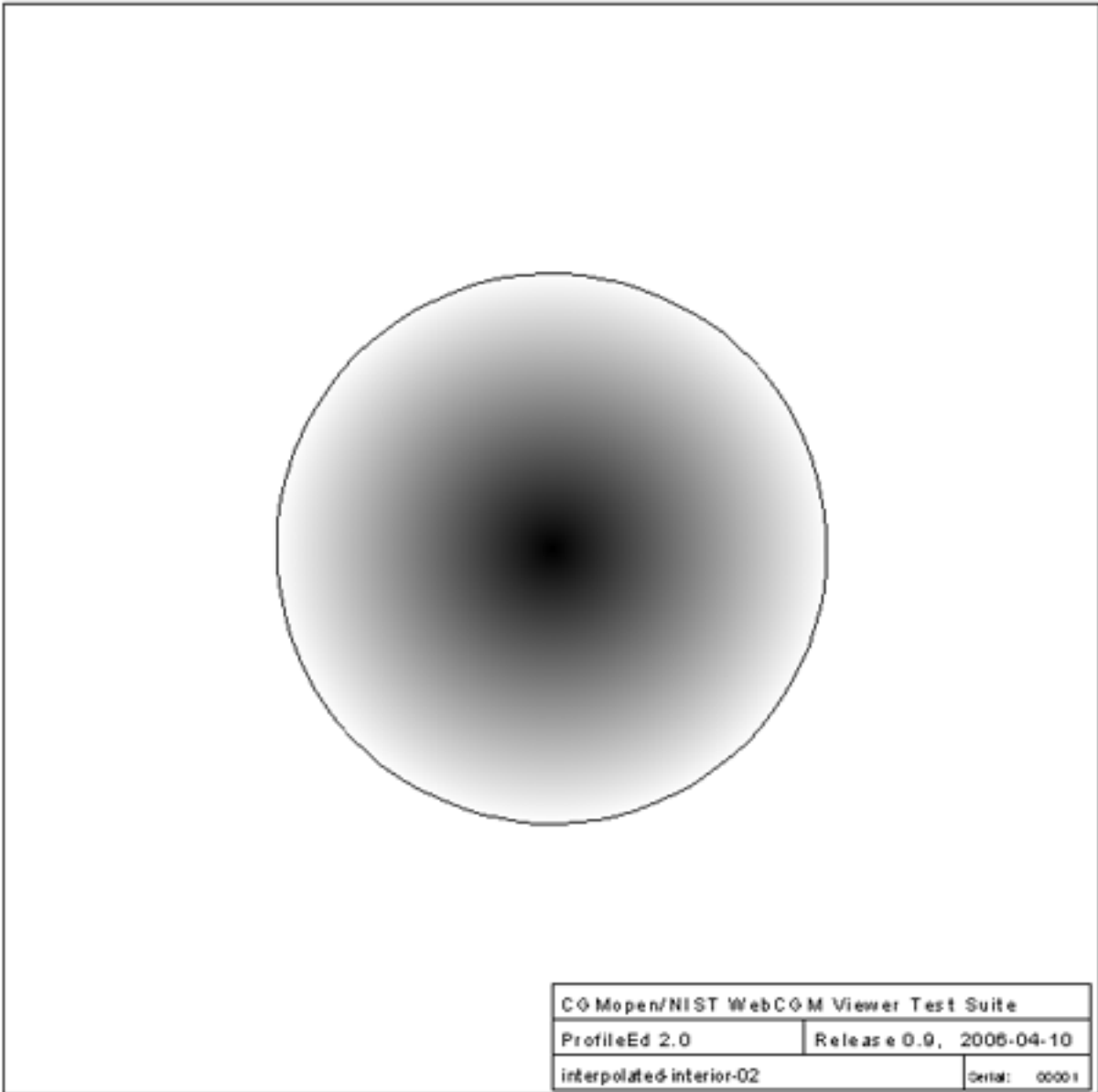
Fig 14, Sheet 2 of 2 interpolated-interior-01

**1.15 interpolated-interior-02**



interpolated-interior-02-CGM

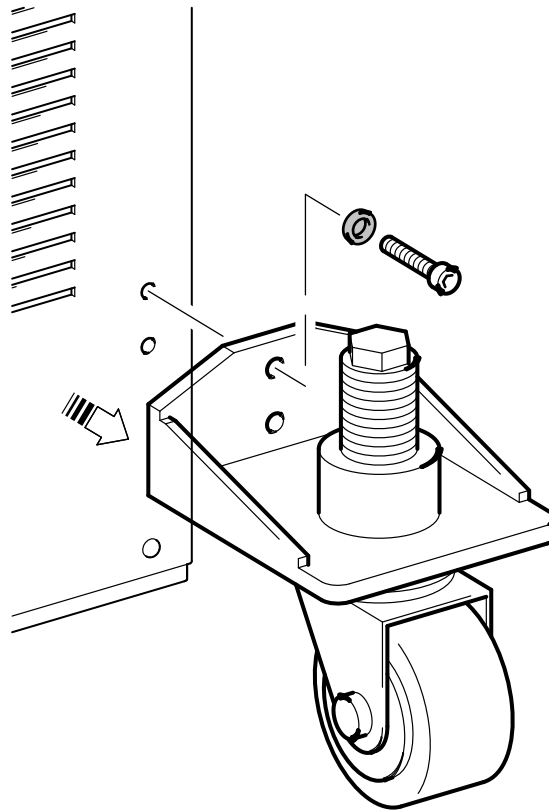
*Fig 15, Sheet 1 of 2 interpolated-interior-02*



interpolated-interior-02-PNG

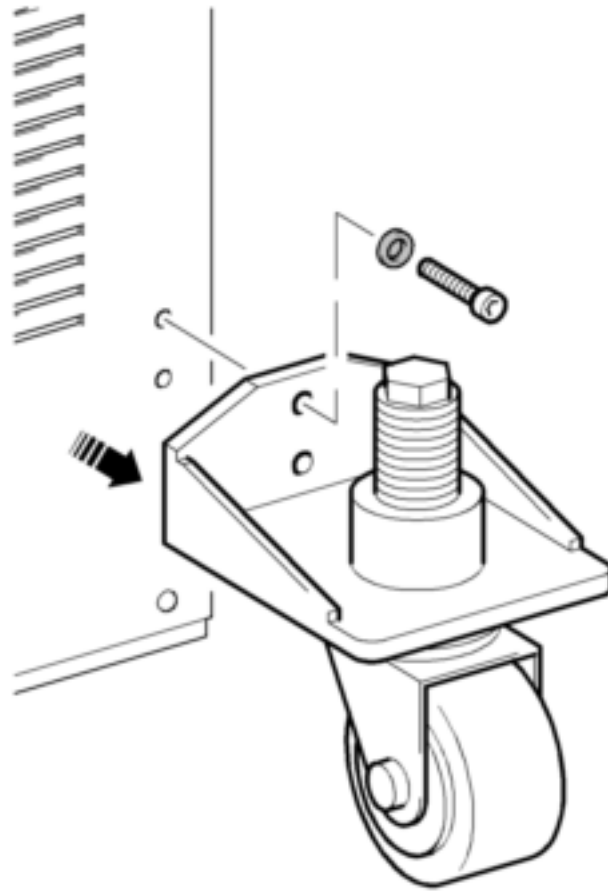
Fig 15, Sheet 2 of 2 interpolated-interior-02

**1.16 Node-aps**



*Fig 16, Sheet 1 of 2 Node-aps*

Node-aps-CGM

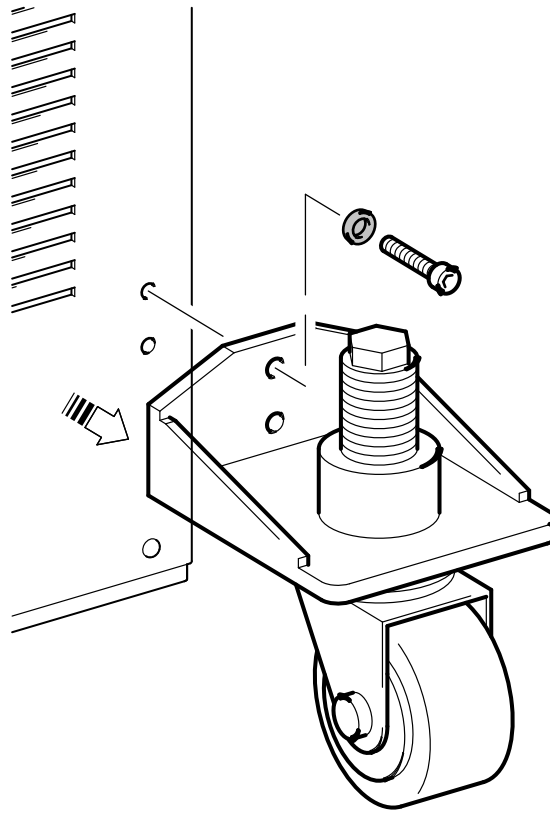


Node-aps-PNG

Fig 16, Sheet 2 of 2 Node-aps

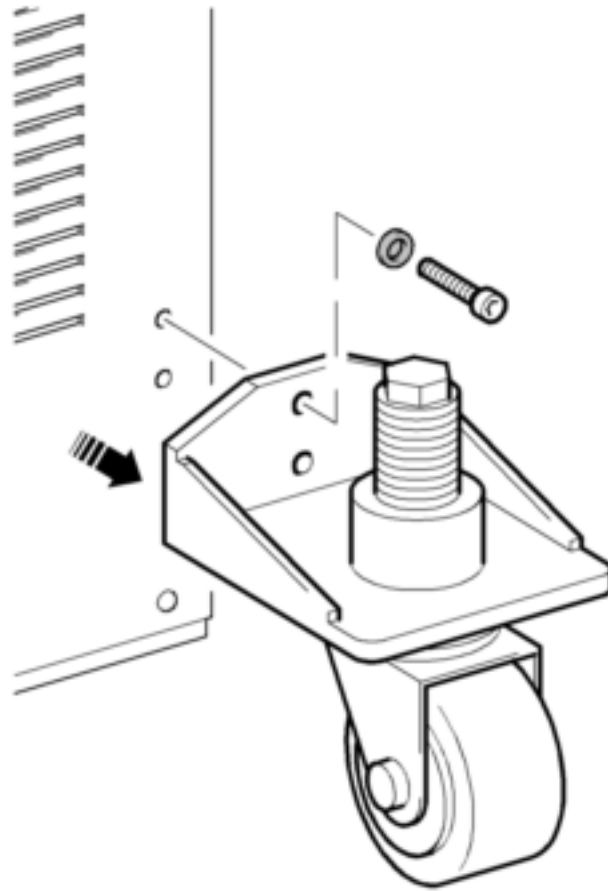


**1.17 Node-attr**



Node-attr-CGM

*Fig 17, Sheet 1 of 2 Node-attr*

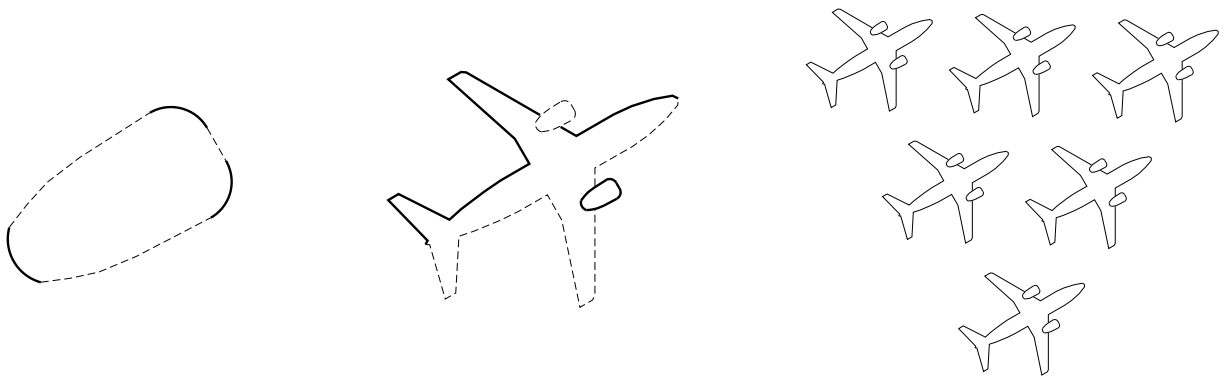


Node-attr-PNG

Fig 17, Sheet 2 of 2 Node-attr

---

**1.18 NodeList**

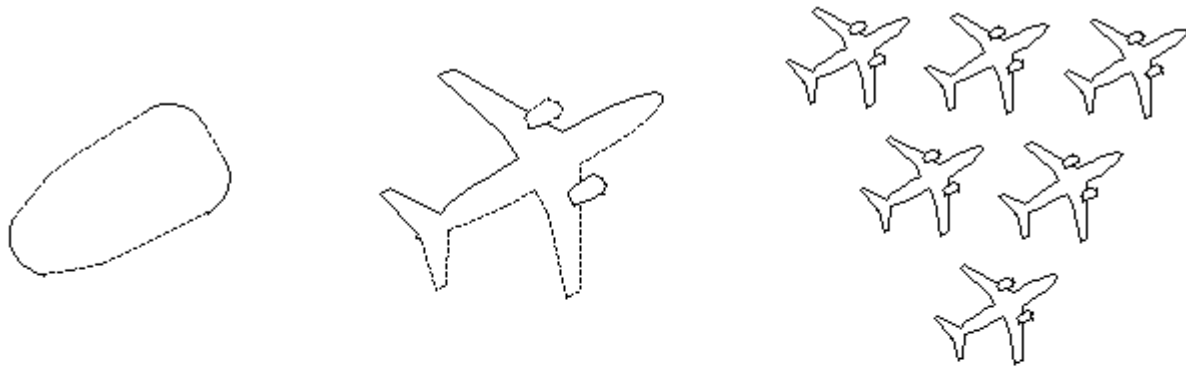


First line wraps after this "word"  
and ends with a hard return here.

This is the second line which  
completes the text object.

NodeList-CGM

*Fig 18, Sheet 1 of 2 NodeList*



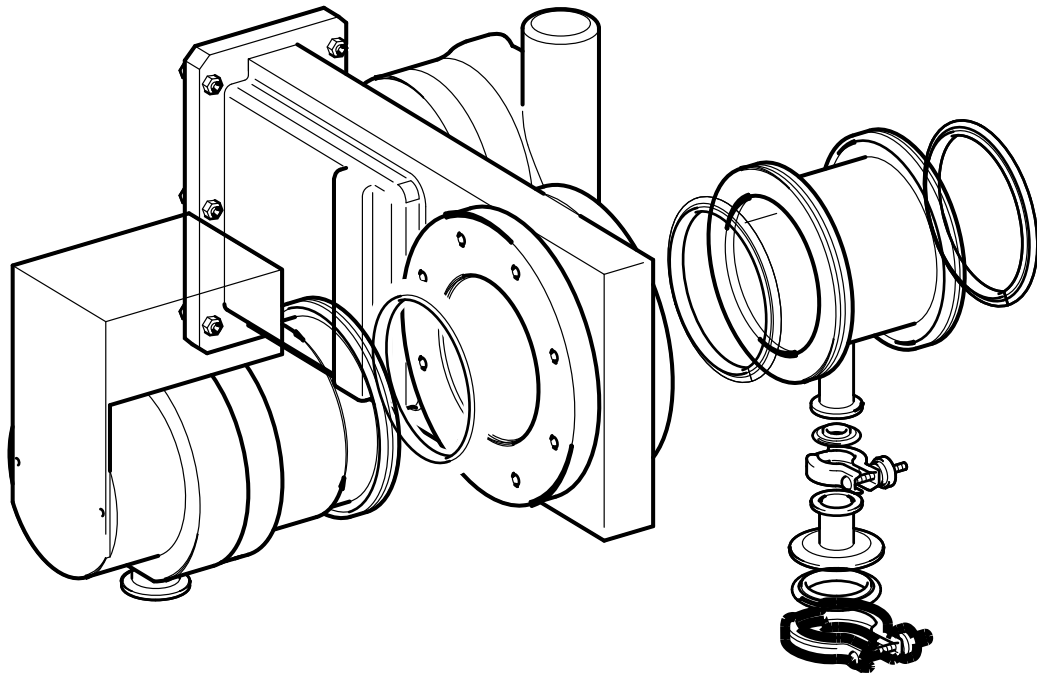
**First line wraps after this "word" and ends with a hard return here.**

**This is the second line which completes the text object.**

NodeList-PNG

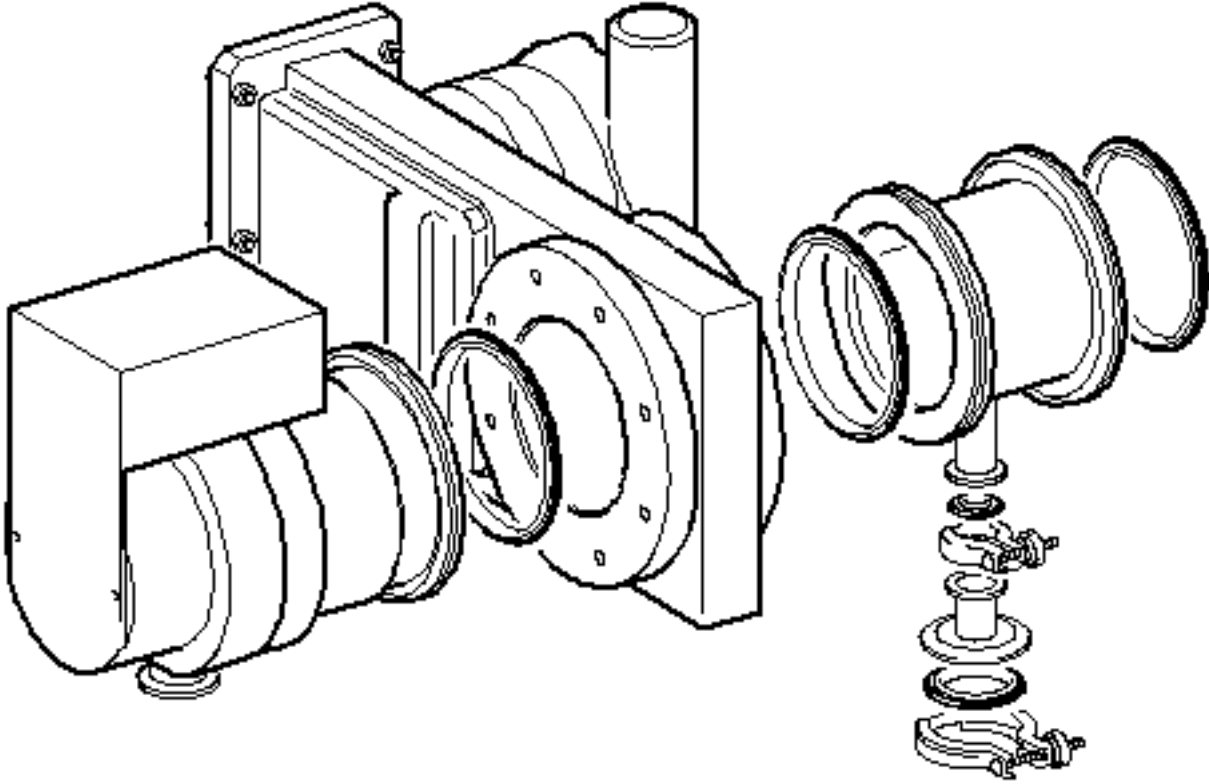
*Fig 18, Sheet 2 of 2 NodeList*

**1.19 Node-metadata**



Node-metadata-CGM

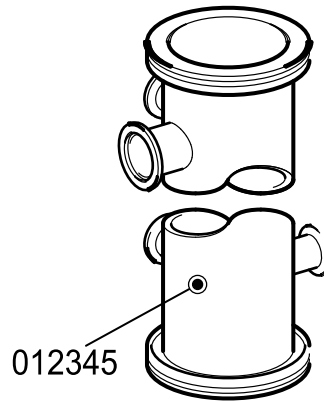
*Fig 19, Sheet 1 of 2 Node-metadata*



Node-metadata-PNG

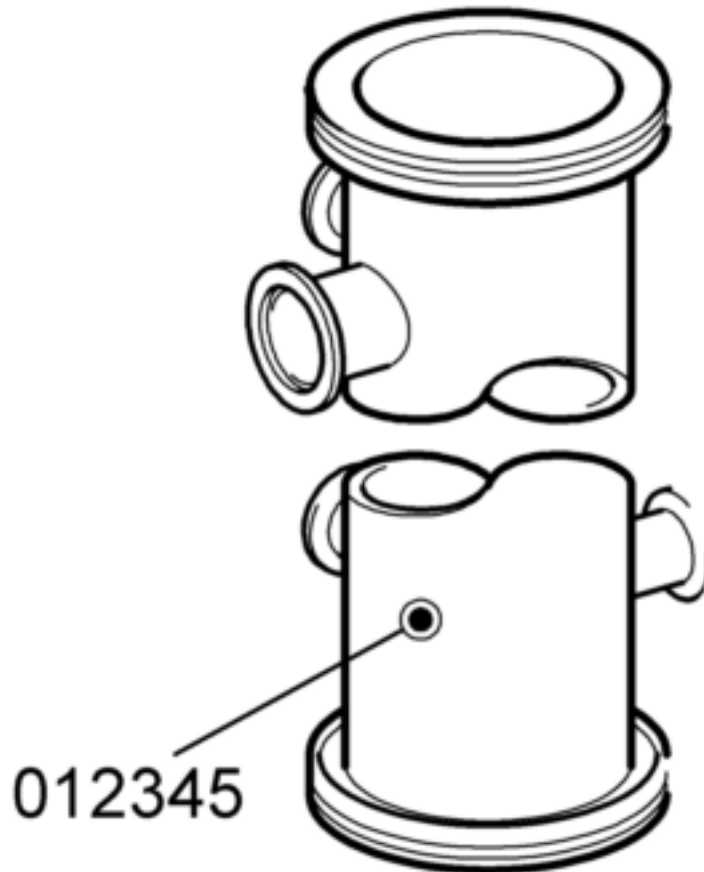
*Fig 19, Sheet 2 of 2 Node-metadata*

1.20 Node-ns



Node-ns-CGM

Fig 20, Sheet 1 of 2 Node-ns



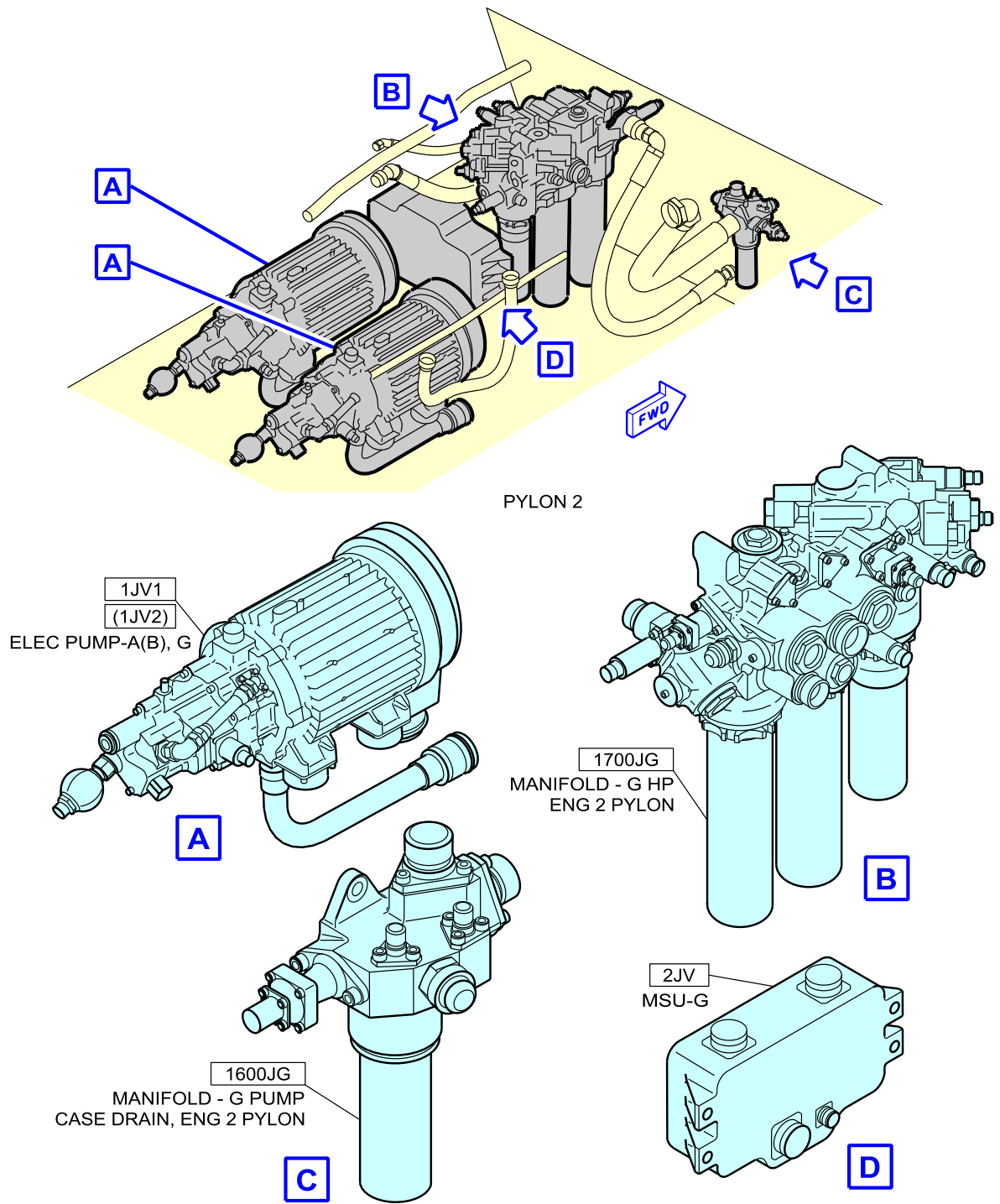
Node-ns-PNG

Fig 20, Sheet 2 of 2 Node-ns

Produced by Docuneering Ltd.

**1.21 Node-pict**

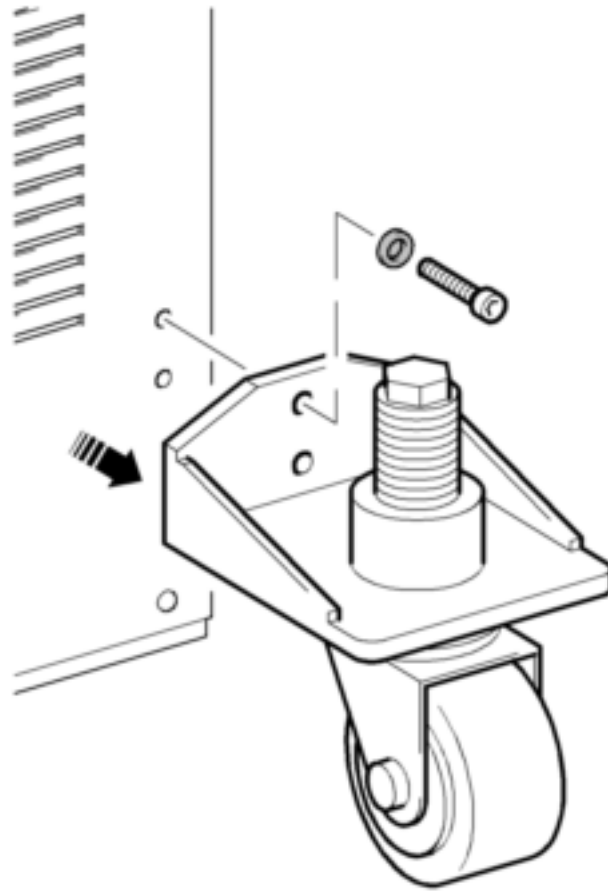




Produced by Docuneering Ltd.

Node-pict-CGM

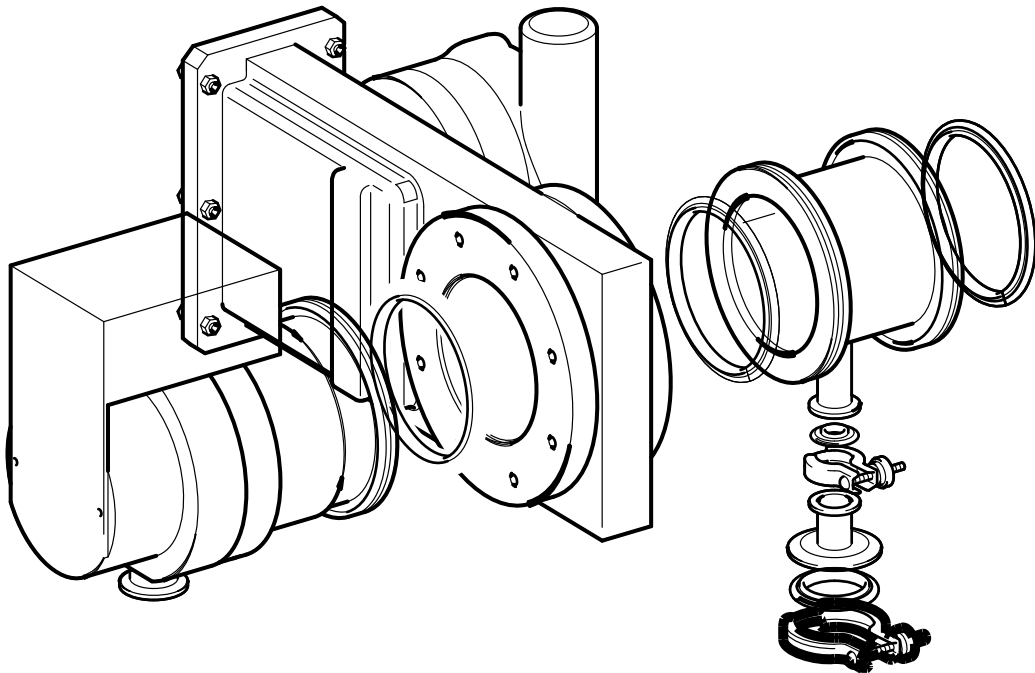
Fig 21, Sheet 1 of 2 Node-pict



Node-pict-PNG

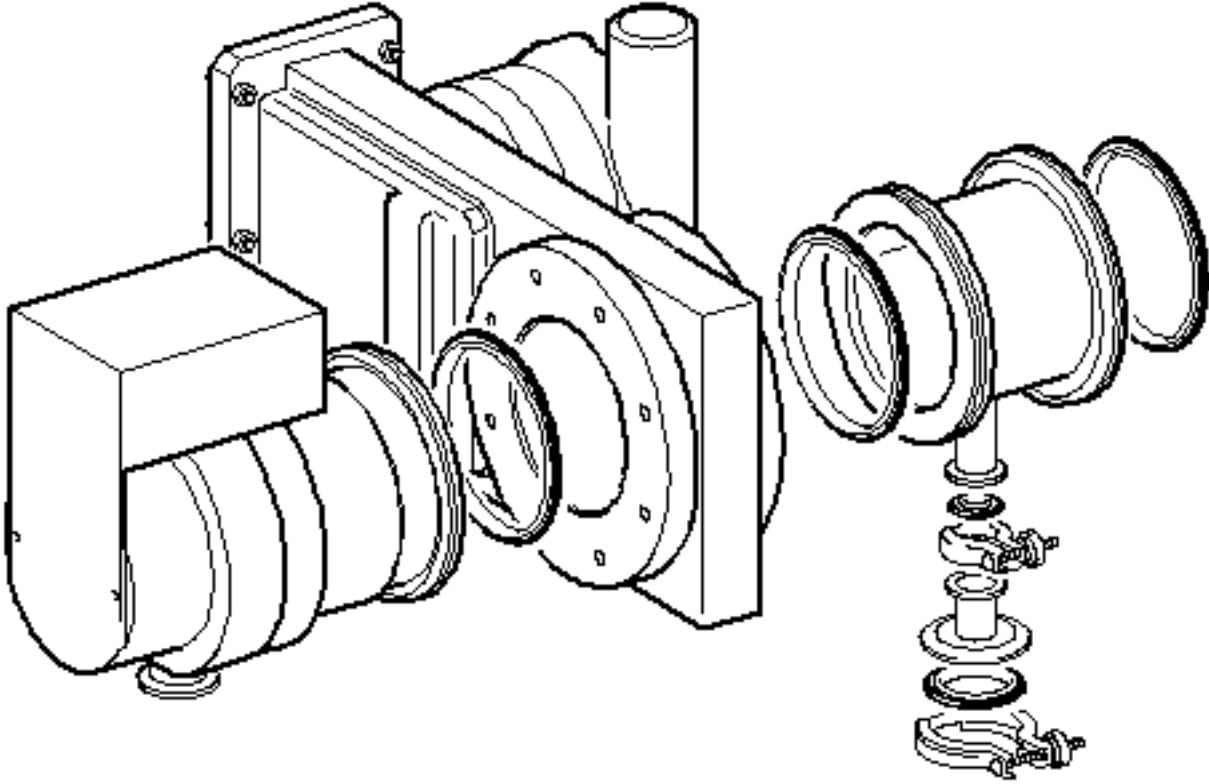
Fig 21, Sheet 2 of 2 Node-pict

**1.22 Node-text**



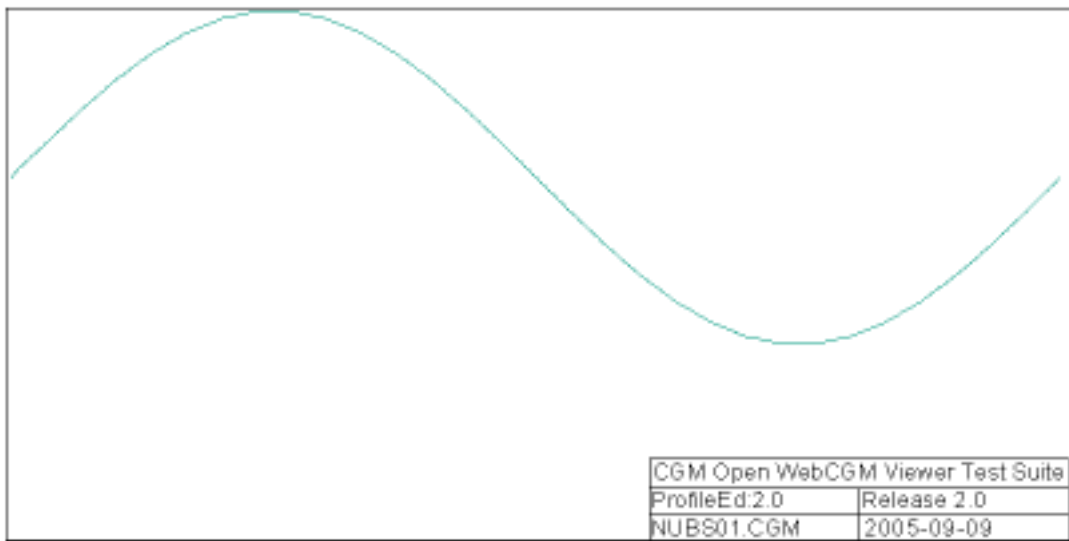
Node-text-CGM

*Fig 22, Sheet 1 of 2 Node-text*



Node-text-PNG

Fig 22, Sheet 2 of 2 Node-text



NUBS01-PNG

Fig 23, Sheet 2 of 2 NUBS01

Produced by Docuneering Ltd.

---

1.24 NUBS02



CGM Open WebCGM Viewer Test Suite	
ProfileEd:2.0	Release 2.0
NUBS02.CGM	2005-09-09

NUBS02-CGM

*Fig 24, Sheet 1 of 2 NUBS02*

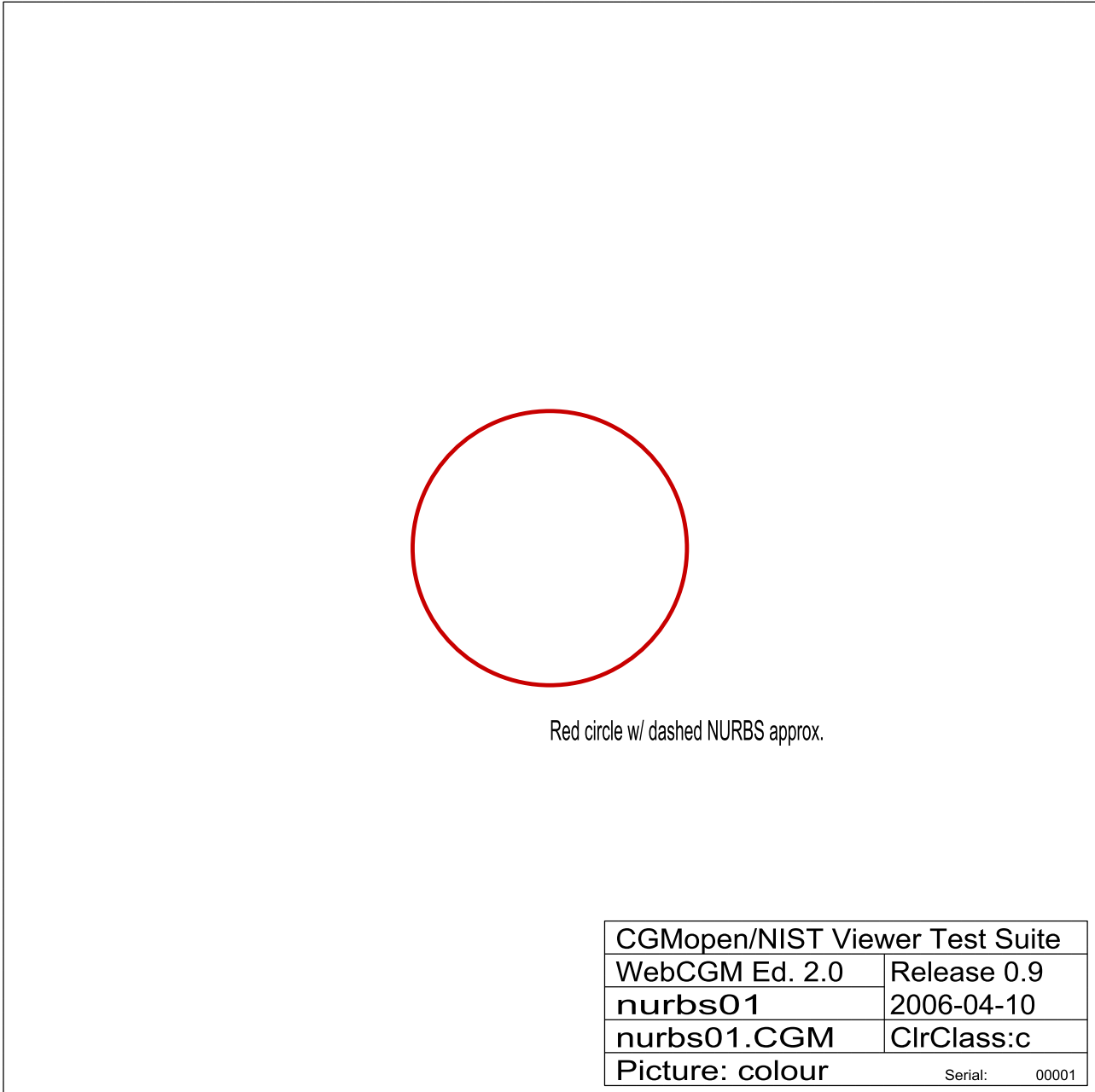


CGM Open WebCGM Viewer Test Suite	
ProfileEd:2.0	Release 2.0
NUBS02.CGM	2005-09-09

NUBS02-PNG

*Fig 24, Sheet 2 of 2 NUBS02*

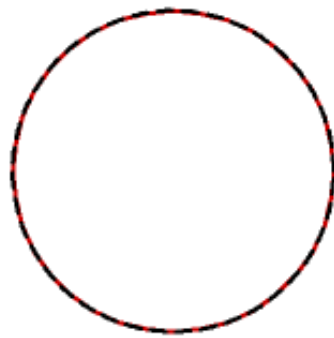
1.25 NURBS01



NURBS01-CGM

Fig 25, Sheet 1 of 2 NURBS01





Red circle w/ dashed NURBS approx.

CGMopen/NIST Viewer Test Suite	
WebCGM Ed. 2.0	Release 0.9
nurbs01	2006-04-10
nurbs01.CGM	ClrClass:c
Picture: colour	Serial: 00001

NURBS01-PNG

Fig 25, Sheet 2 of 2 NURBS01

Produced by Docuneering Ltd.

**1.26 NURBS02**

NURBS02-CGM

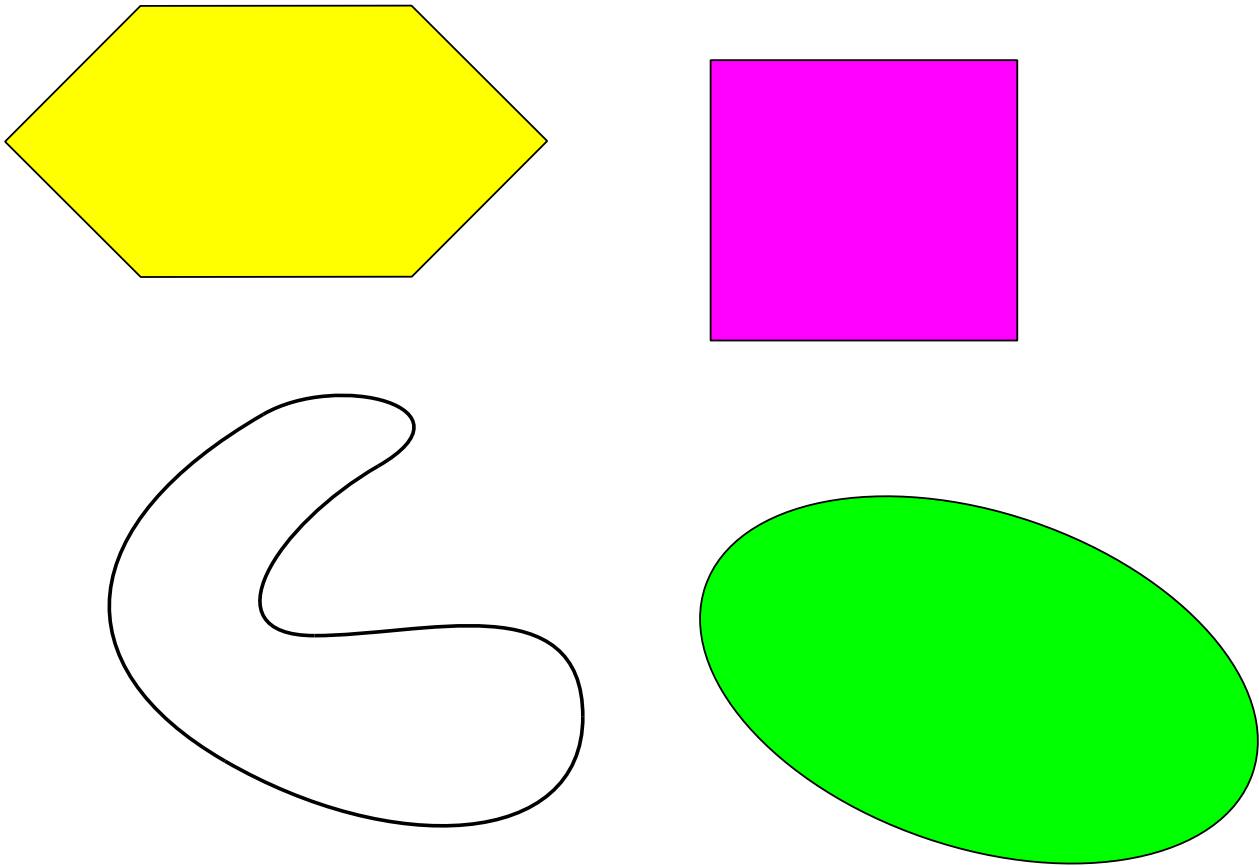
*Fig 26, Sheet 1 of 2 NURBS02*

Energy  
**Energy**  
Progress

*Fig 26, Sheet 2 of 2 NURBS02*

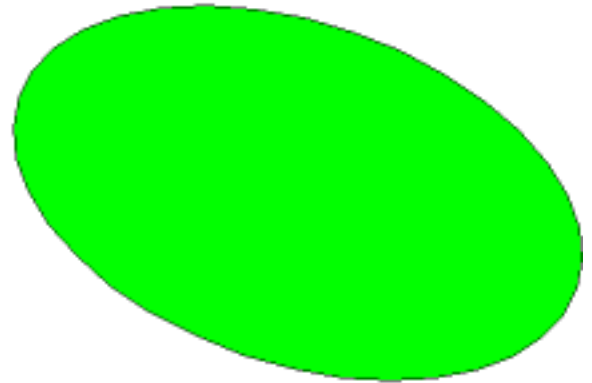
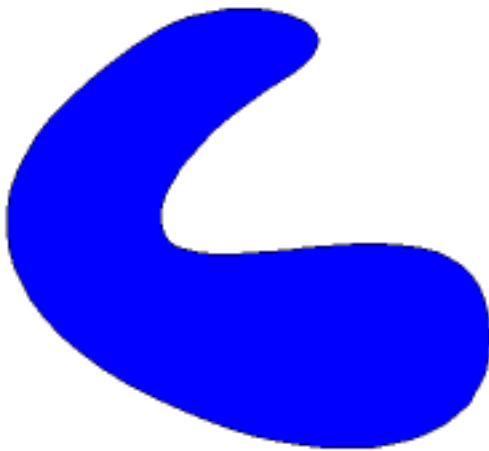
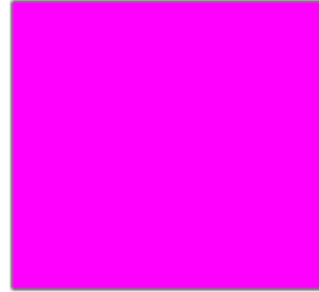
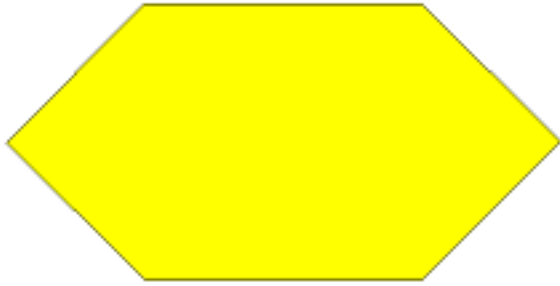
NURBS02-PNG

1.27 **object\_behaviors**



object\_behaviors-CGM

*Fig 27, Sheet 1 of 2 object\_behaviors*

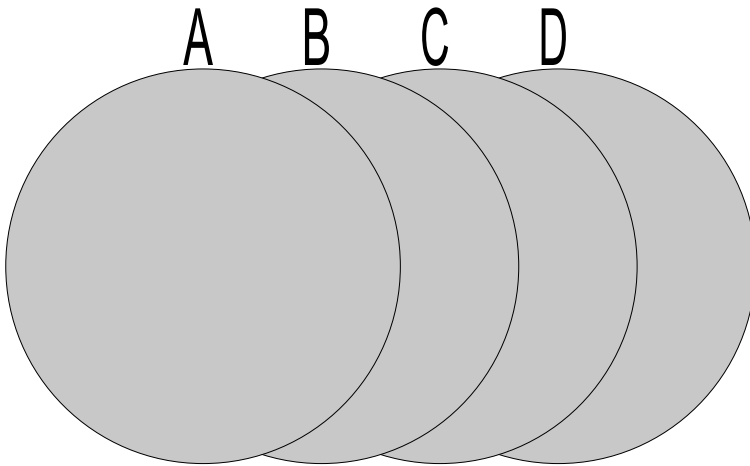


object\_behaviors-PNG

*Fig 27, Sheet 2 of 2 object\_behaviors*

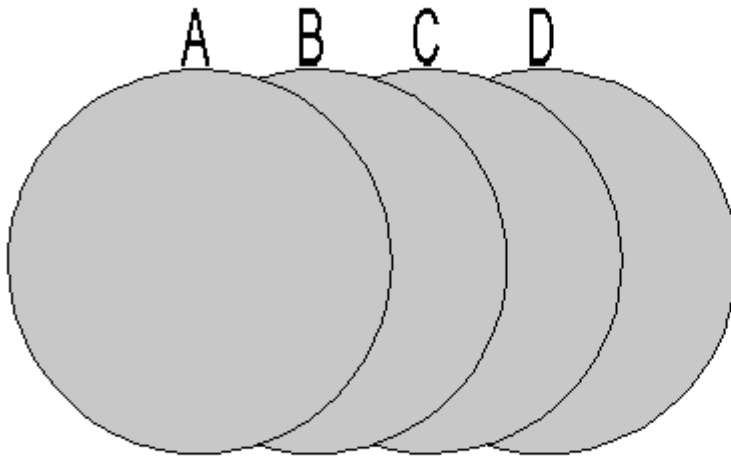
---

1.28 Picture-highlight



*Fig 28, Sheet 1 of 2 Picture-highlight*

Picture-highlight-CGM



*Fig 28, Sheet 2 of 2 Picture-highlight*

Picture-highlight-PNG

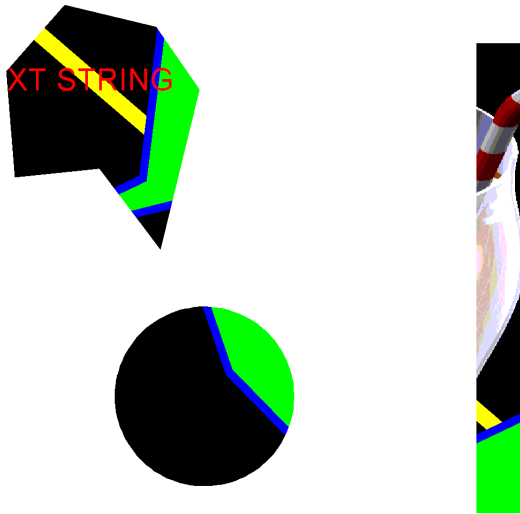
1.29 region\_clip



region\_clip-CGM

Fig 29, Sheet 1 of 2 region\_clip

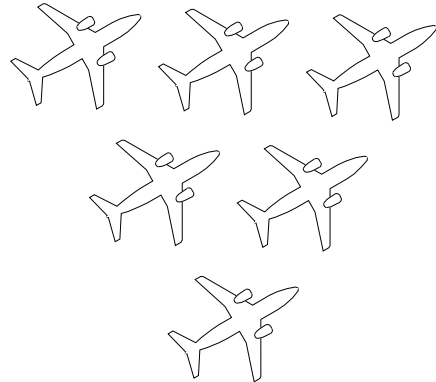
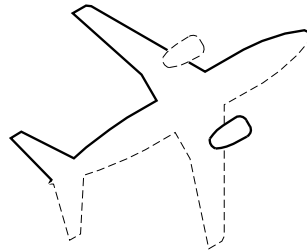
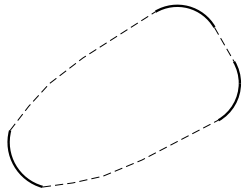




region\_clip-PNG

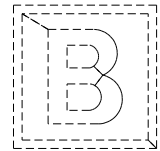
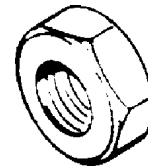
Fig 29, Sheet 2 of 2 region\_clip

**1.30 StyleProperties-aps**



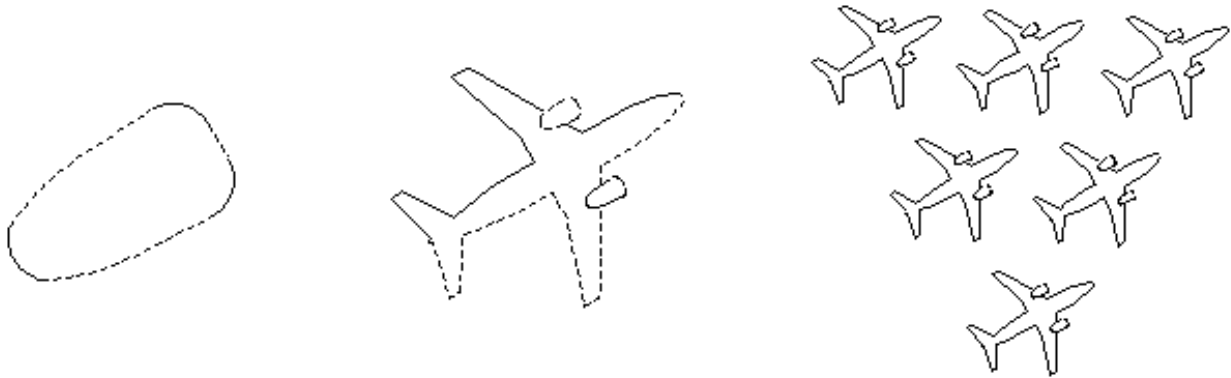
First line wraps after this "word"  
and ends with a hard return here.

This is the second line which  
completes the text object.



StyleProperties-aps-CGM

*Fig 30, Sheet 1 of 2 StyleProperties-aps*



First line wraps after this "word"  
and ends with a hard return here.

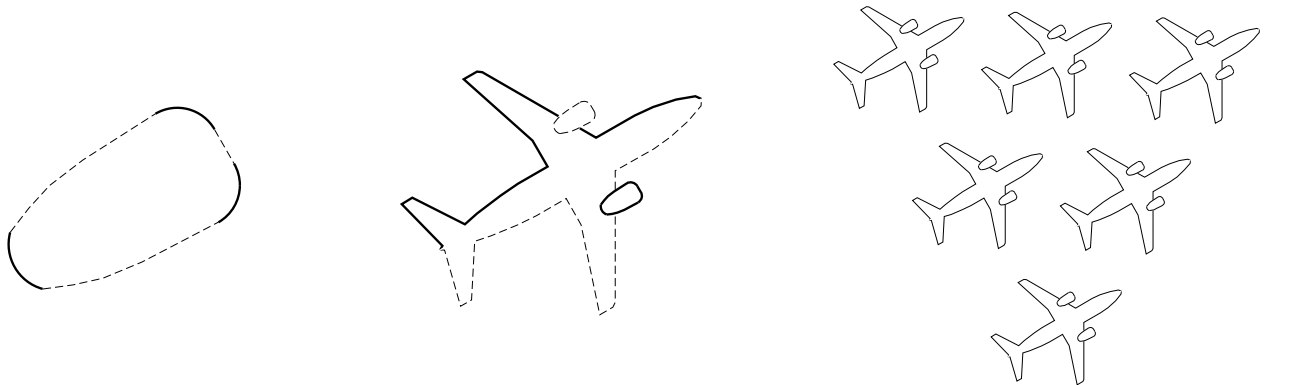
This is the second line which  
completes the text object.



StyleProperties-aps-PNG

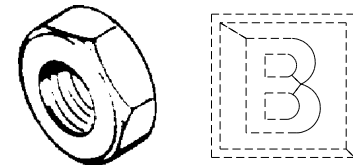
Fig 30, Sheet 2 of 2 StyleProperties-aps

1.31 StyleProperties-picture



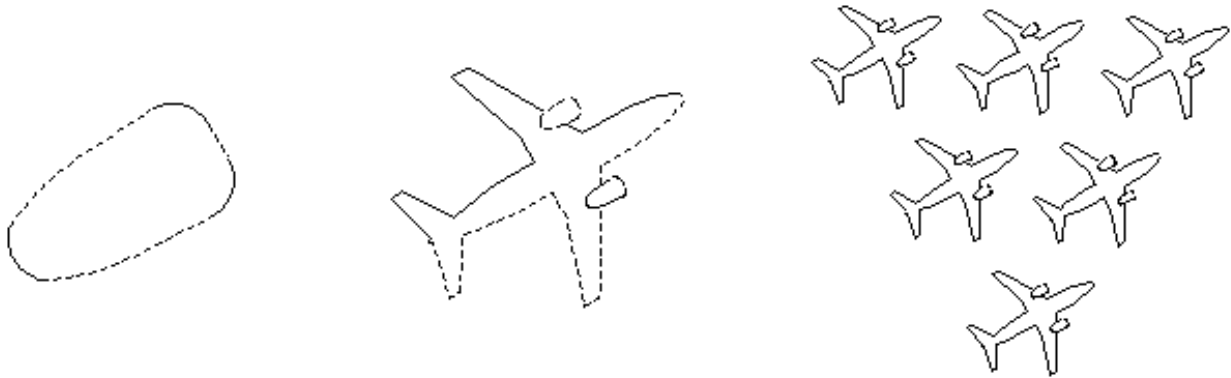
First line wraps after this "word" and ends with a hard return here.

This is the second line which completes the text object.



StyleProperties-picture-CGM

Fig 31, Sheet 1 of 2 StyleProperties-picture



First line wraps after this "word"  
and ends with a hard return here.

This is the second line which  
completes the text object.

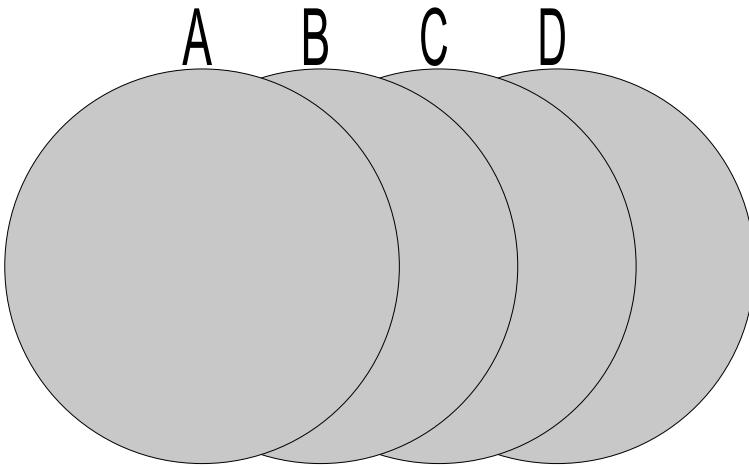


StyleProperties-picture-PNG

Fig 31, Sheet 2 of 2 StyleProperties-picture

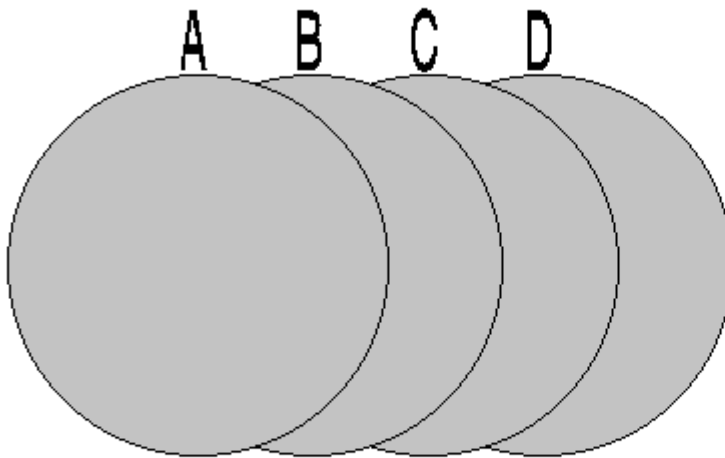
---

**1.32      StyleProperty-inherit**



StyleProperty-inherit-CGM

*Fig 32, Sheet 1 of 2 StyleProperty-inherit*



StyleProperty-inherit-PNG

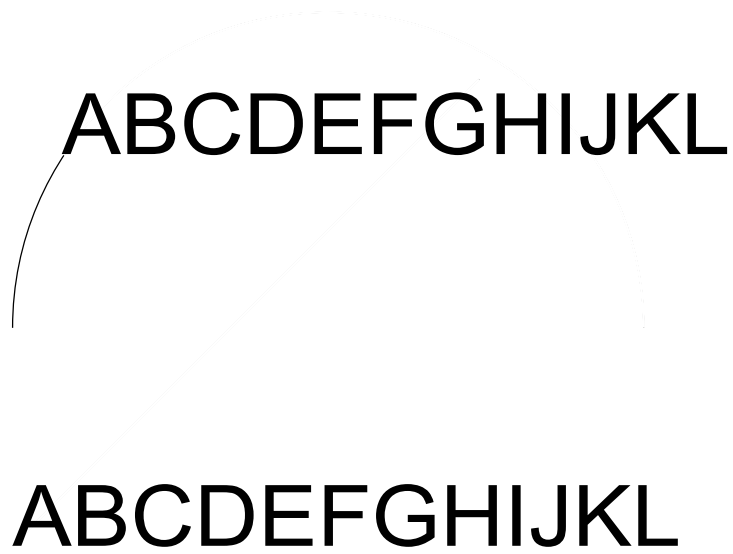
*Fig 32, Sheet 2 of 2 StyleProperty-inherit*

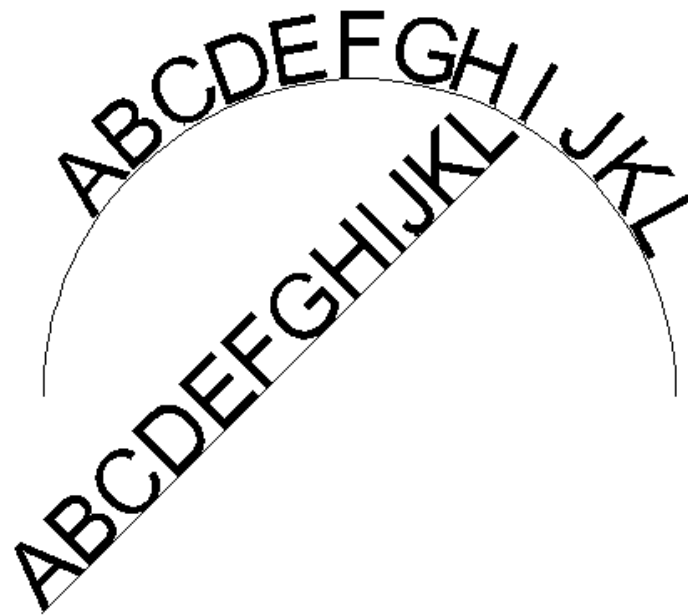




---

**1.33 Text-On-Path-cases**

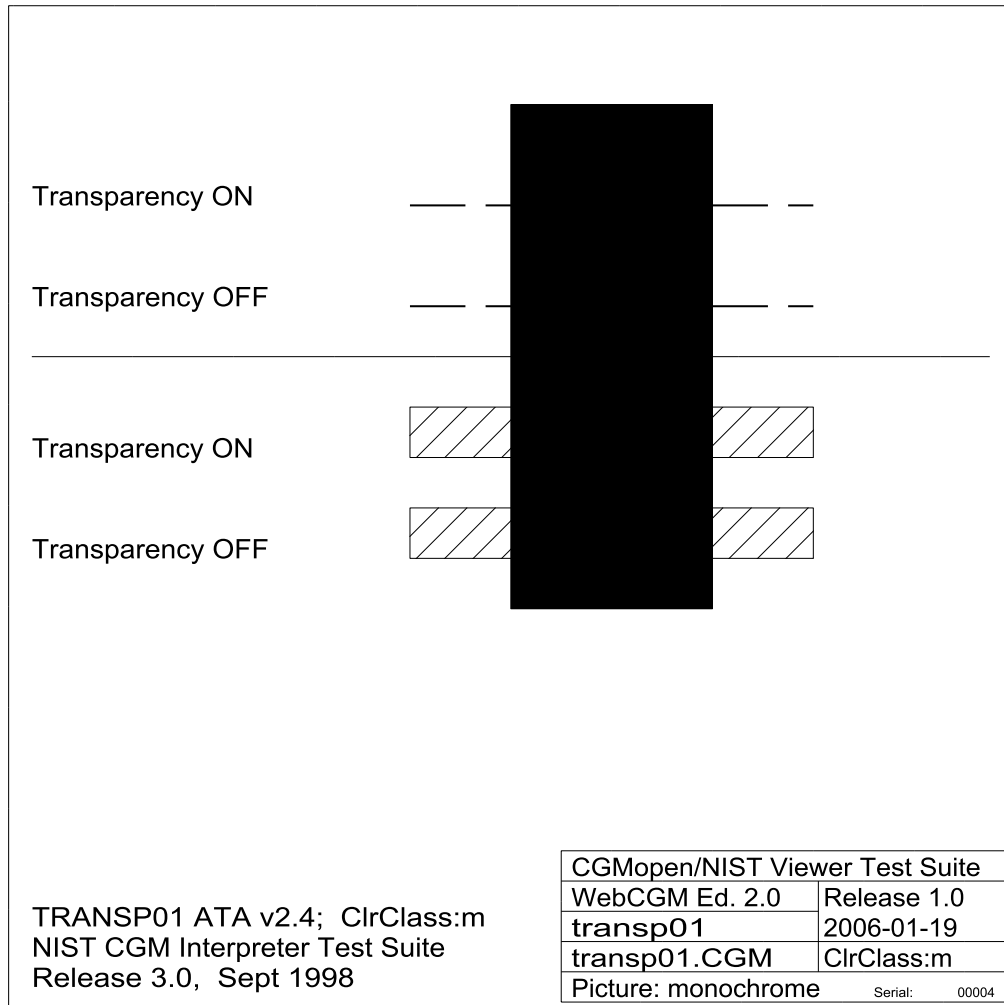




Text-On-Path-cases-PNG

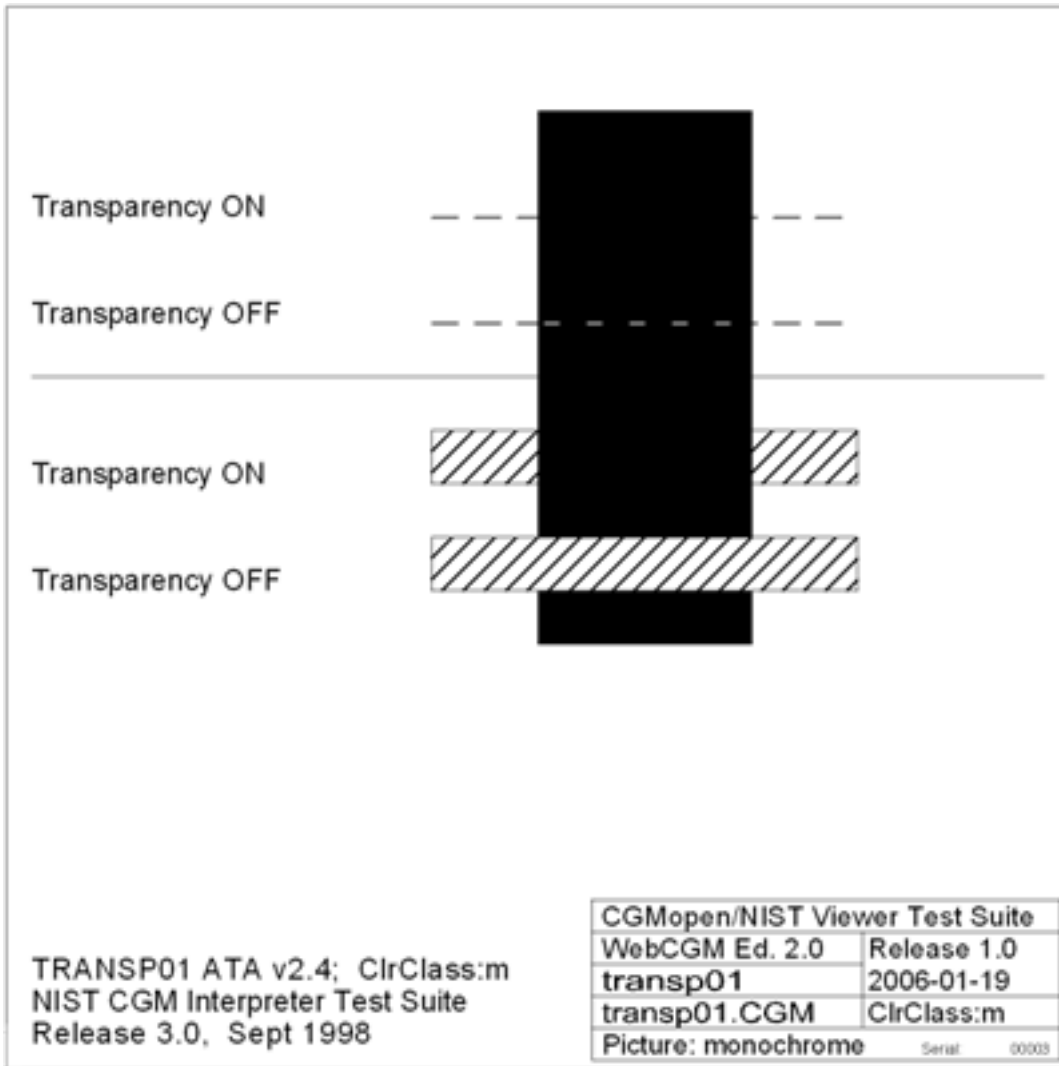
*Fig 33, Sheet 2 of 2 Text-On-Path-cases*

1.34 transp01



transp01-CGM

Fig 34, Sheet 1 of 2 transp01



transp01-PNG

Fig 34, Sheet 2 of 2 transp01



这是用中文的仿宋体写的  
在输入文字之后,你可以  
放大,也可以缩小字体. 你  
也可以旋转成任何角度

utf8-chinese-v10-PNG

*Fig 35, Sheet 2 of 2 utf8-chinese-v10*



这是用中文的仿宋体写的  
在输入文字之后,你可以  
放大,也可以缩小字体. 你  
也可以旋转成任何角度

utf8-chinese-v20-PNG

*Fig 36, Sheet 2 of 2 utf8-chinese-v20*



1.37 utf16-chinese-v10

Üf/u(N-e v Ny[ OSQ v  
W( Qee [WNKT ,O`SiNå  
e>Y',N\_SiNå )\ [WOS. O`  
N\_SiNåeË lb NûOU Ò^|

utf16-chinese-v10-CGM

Fig 37, Sheet 1 of 2 utf16-chinese-v10

Produced by Docuneering Ltd.

这是用中文的仿宋体写的  
在输入文字之后,你可以  
放大,也可以缩小字体. 你  
也可以旋转成任何角度

utf16-chinese-v10-PNG

*Fig 37, Sheet 2 of 2 utf16-chinese-v10*

1.38 utf16-chinese-v20

Üf/u(N-e v Ny[ OSQ v  
W( Qee [WNKT ,O`SiNå  
e>Y',N\_SiNå )\ [WOS. O`  
N\_SiNåeË lb NûOU Ò^|

utf16-chinese-v20-CGM

Fig 38, Sheet 1 of 2 utf16-chinese-v20

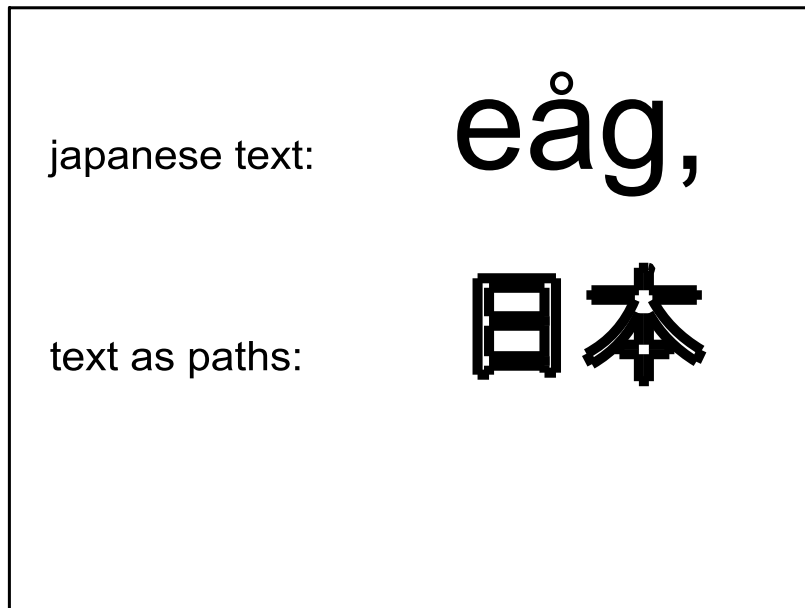
Produced by Docuneering Ltd.

这是用中文的仿宋体写的  
在输入文字之后,你可以  
放大,也可以缩小字体. 你  
也可以旋转成任何角度

utf16-chinese-v20-PNG

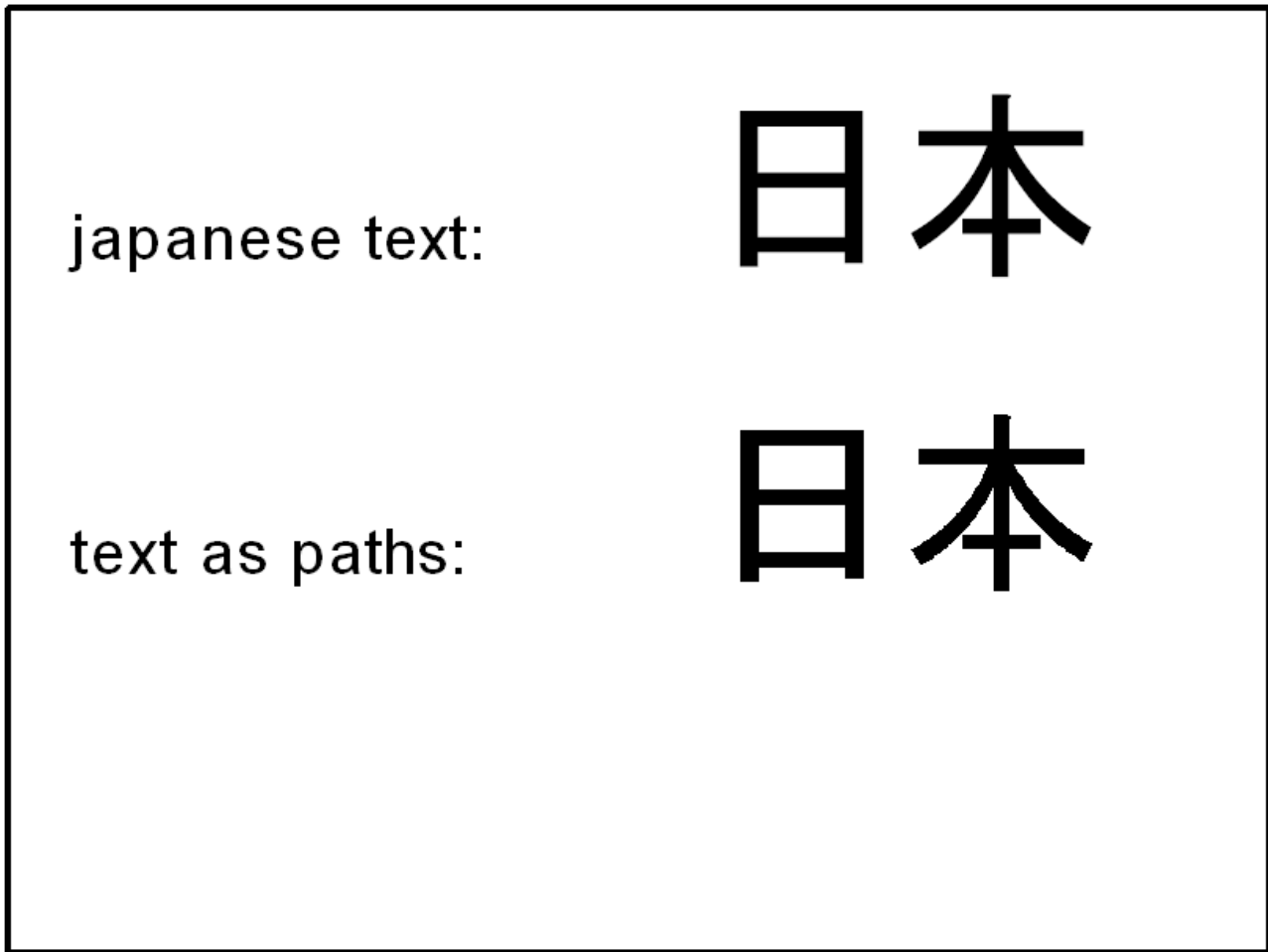
*Fig 38, Sheet 2 of 2 utf16-chinese-v20*

1.39 utf16-japanese-v10



utf16-japanese-v10-CGM

Fig 39, Sheet 1 of 2 utf16-japanese-v10



utf16-japanese-v10-PNG

Fig 39, Sheet 2 of 2 utf16-japanese-v10

1.40 utf16-sf-apsid-01

<p>Text: <b>123</b></p> <p>Details of gobject: ID: <b>日本</b> name: <b>none</b> screentip: <b>日本</b></p>	<p><b>456</b></p> <p>Details of gobject: ID: <b>myObj1</b> name: <b>none</b> linkuri: <b>#id(日本, zoom)</b></p>
---	--

utf16-sf-apsid-01-CGM

Fig 40, Sheet 1 of 2 utf16-sf-apsid-01

1 2 3

*Fig 40, Sheet 2 of 2 utf16-sf-apsid-01*

utf16-sf-apsid-01-PNG



1.41 utf16-sf-name-01

<p>Text: <b>123</b></p> <p>Details of gobject: ID: <b>日本</b> name: <b>館</b> screentip: <b>日本</b></p>	<p><b>456</b></p> <p>Details of gobject: ID: <b>myObj1</b> name: <b>館</b> linkuri: <b>#name (館, zoom)</b></p>
--	---

utf16-sf-name-01-CGM

Fig 41, Sheet 1 of 2 utf16-sf-name-01

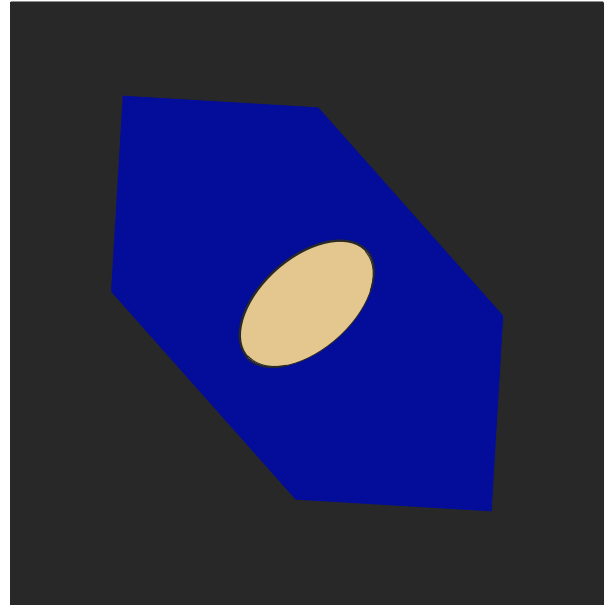
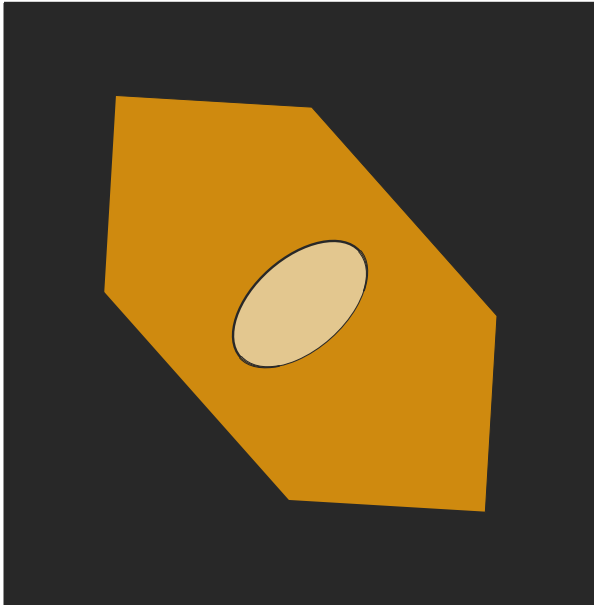
---

<p>123</p> <p>日本 船 — .</p>	<p>456</p> <p>Details of g ID: name: .. . . .</p>
------------------------------------	---

Fig 41, Sheet 2 of 2 utf16-sf-name-01

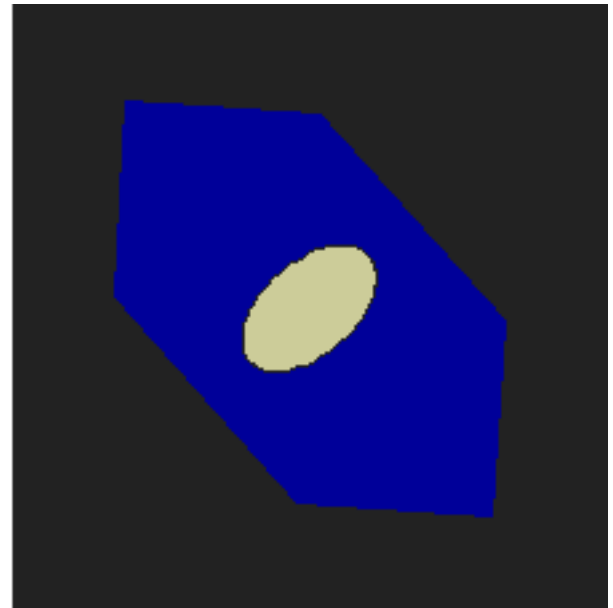
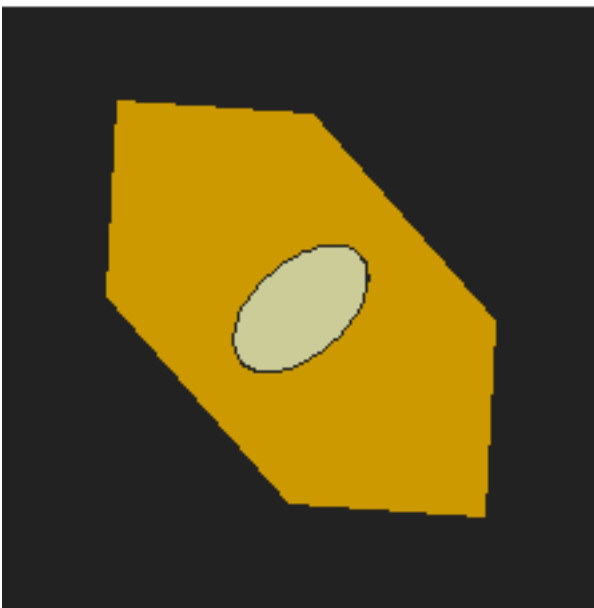
utf16-sf-name-01-PNG

1.42 WebCGM\_Event



WebCGM\_Event-CGM

Fig 42, Sheet 1 of 2 WebCGM\_Event

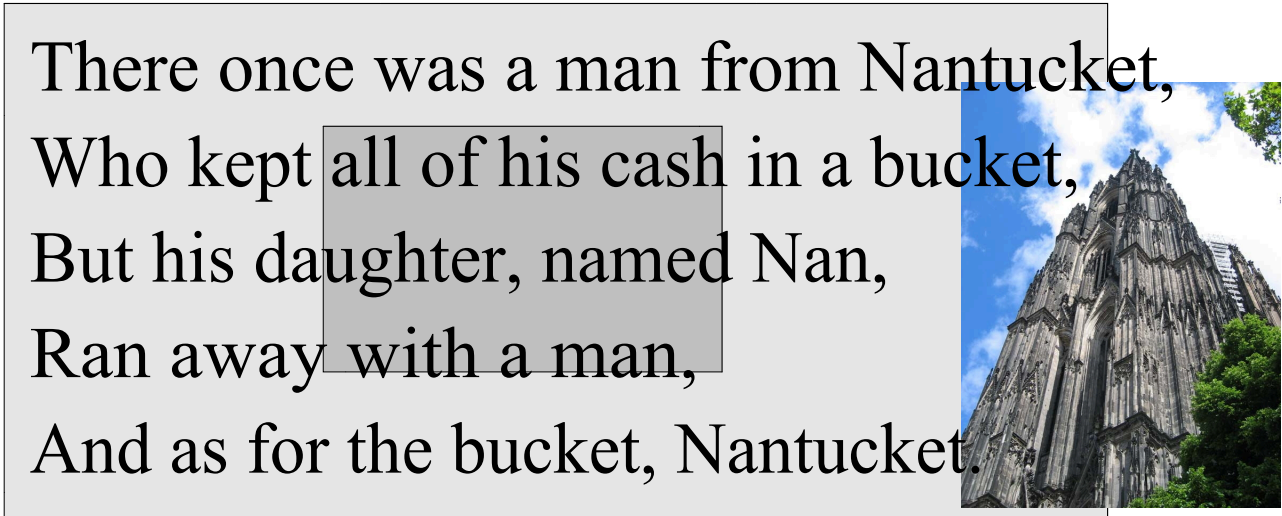


WebCGM\_Event-PNG

Fig 42, Sheet 2 of 2 WebCGM\_Event

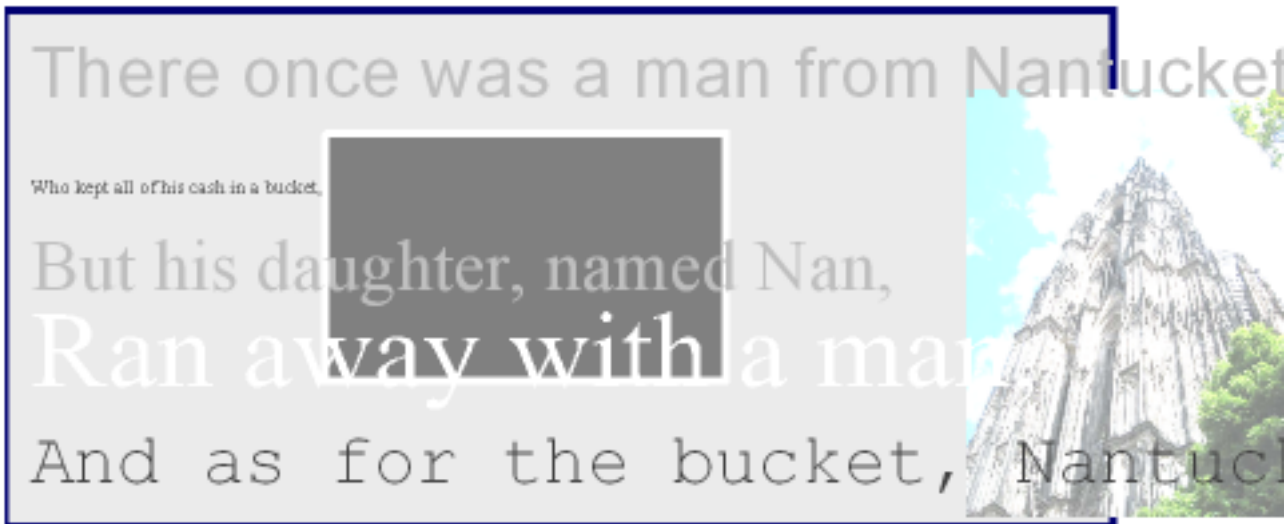
Produced by Docuneering Ltd.

1.43 xcf-styles



xcf-styles-CGM

Fig 43, Sheet 1 of 2 xcf-styles



xcf-styles-PNG

Fig 43, Sheet 2 of 2 xcf-styles

## WebCGM 2.1 Test Suite

### *WebCGM10 - CGM v4*

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### *References*

*Table 1 References*

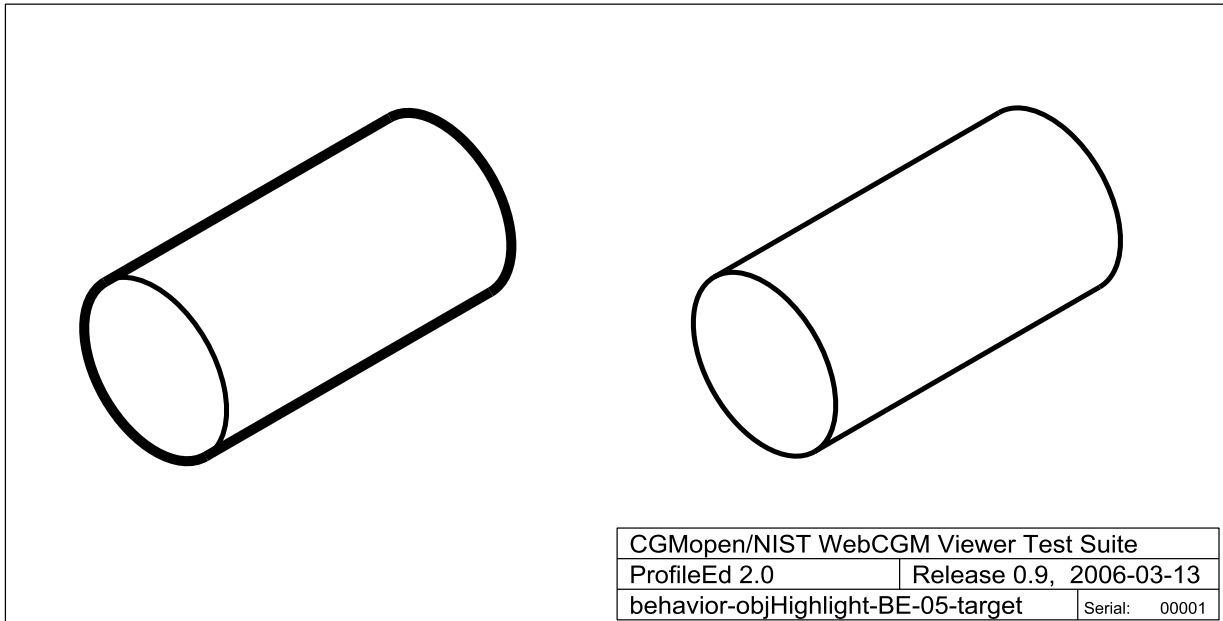
Data module / Technical publication	Title
None	

### *Description*

#### **1 WebCGM10 - CGM v4**

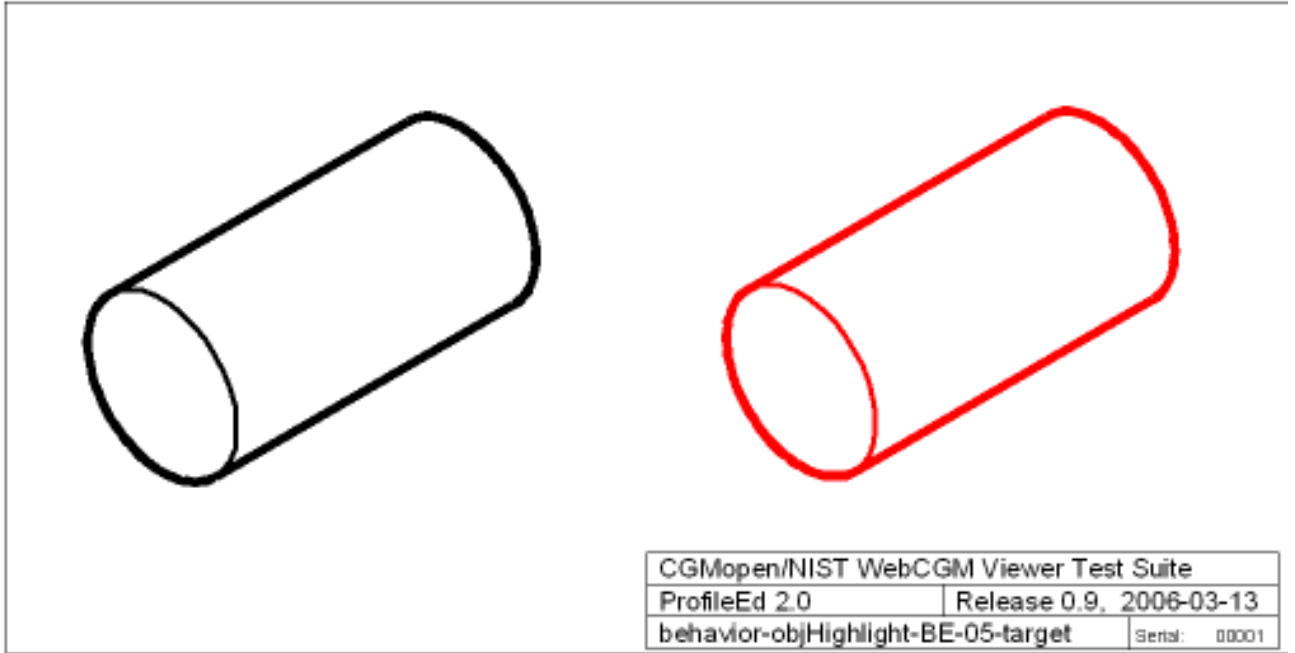
WebCGM10 - CGM v4 TEST illustrations follow:

1.1 behavior-objHighlight-BE-05



behavior-objHighlight-BE-05-target-CGM

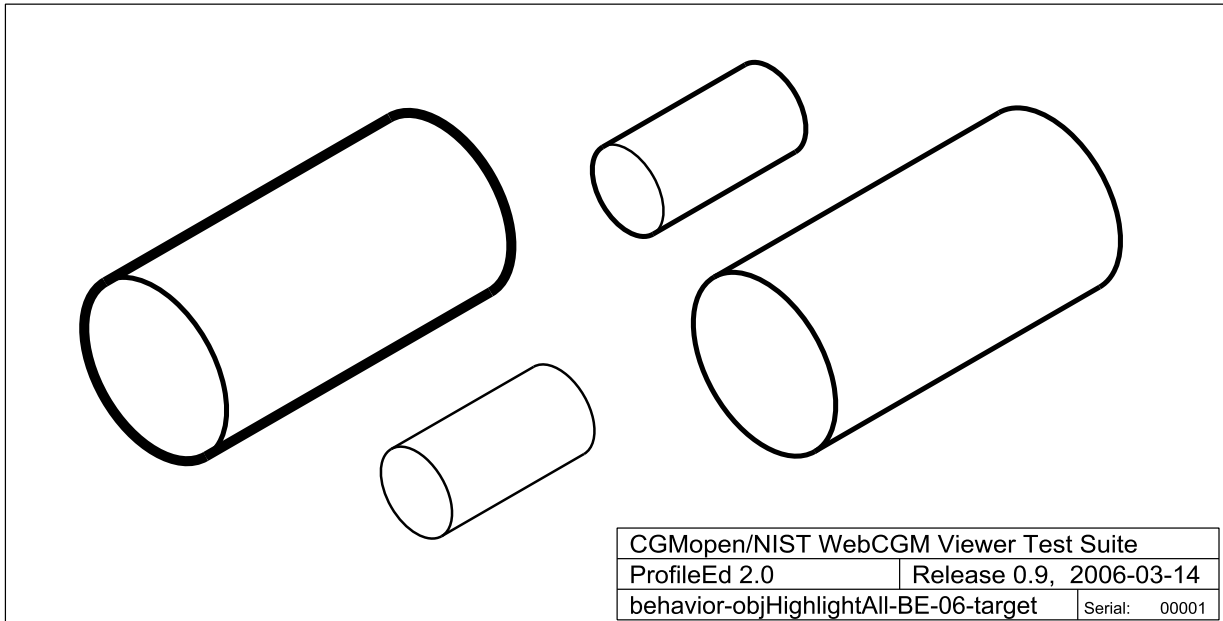
Fig 1, Sheet 1 of 2 behavior-objHighlight-BE-05



behavior-objHighlight-BE-05-PNG

Fig 1, Sheet 2 of 2 behavior-objHighlight-BE-05

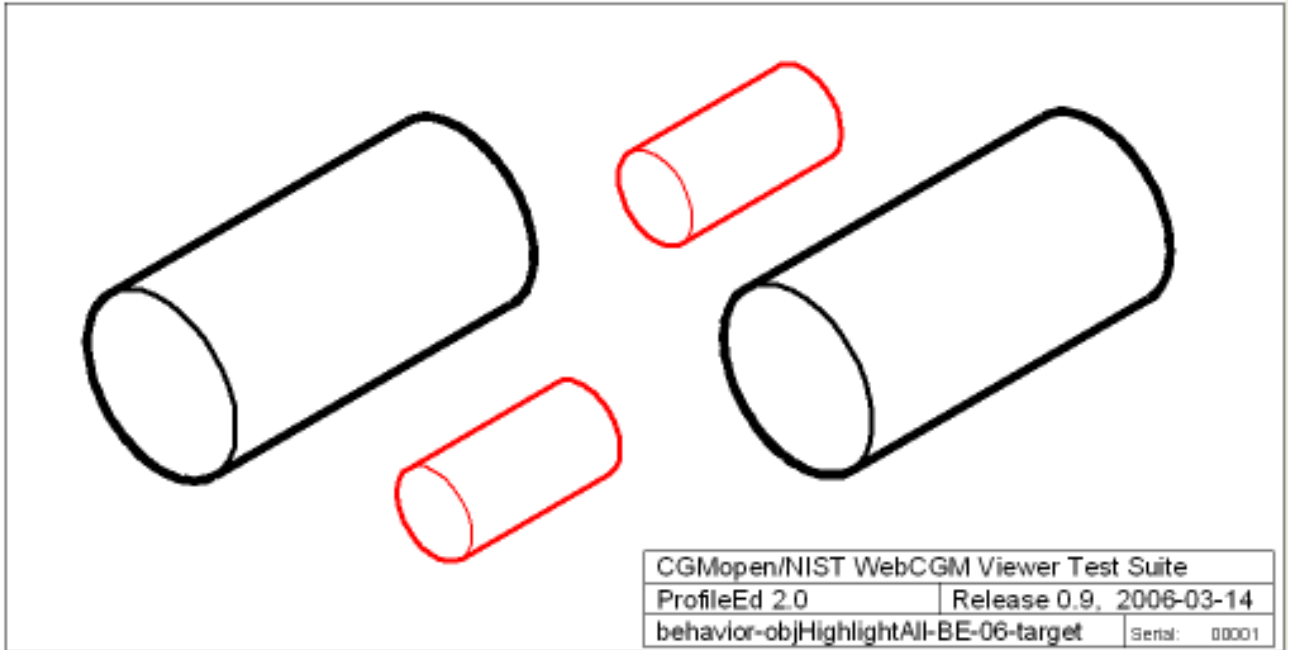
1.2 behavior-objHighlightAll-BE-06



behavior-objHighlightAll-BE-06-target-CGM

Fig 2, Sheet 1 of 2 behavior-objHighlightAll-BE-06

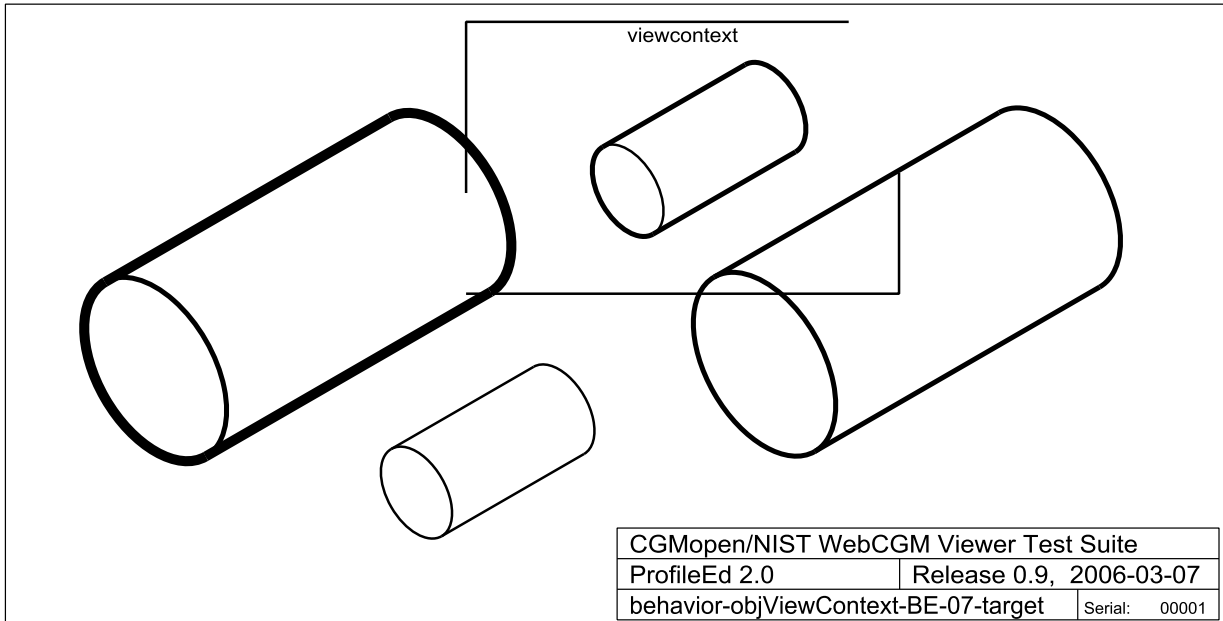




behavior-objHighlightAll-BE-06-PNG

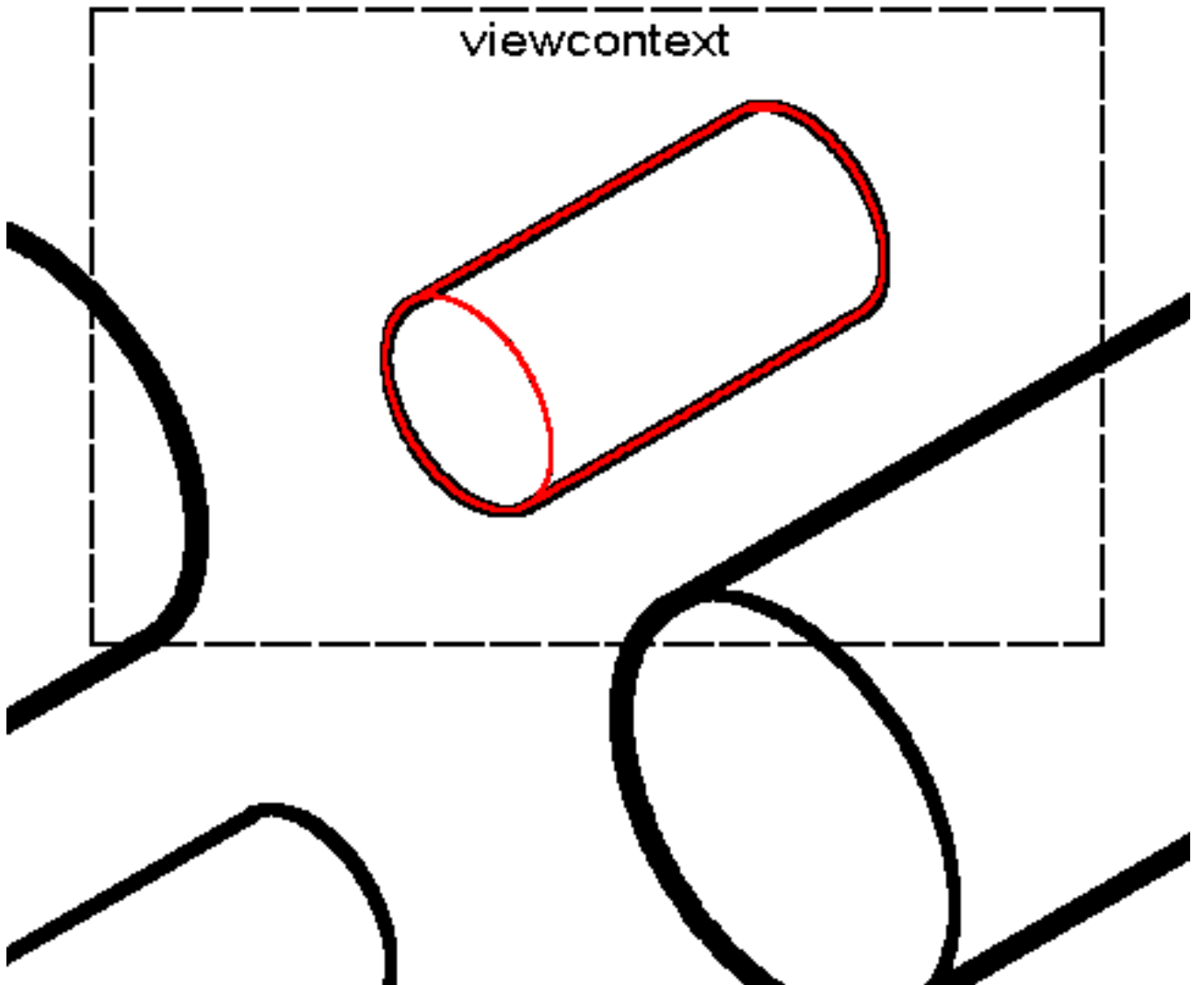
Fig 2, Sheet 2 of 2 behavior-objHighlightAll-BE-06

1.3 behavior-objViewContext-BE-07



behavior-objViewContext-BE-07-target-CGM

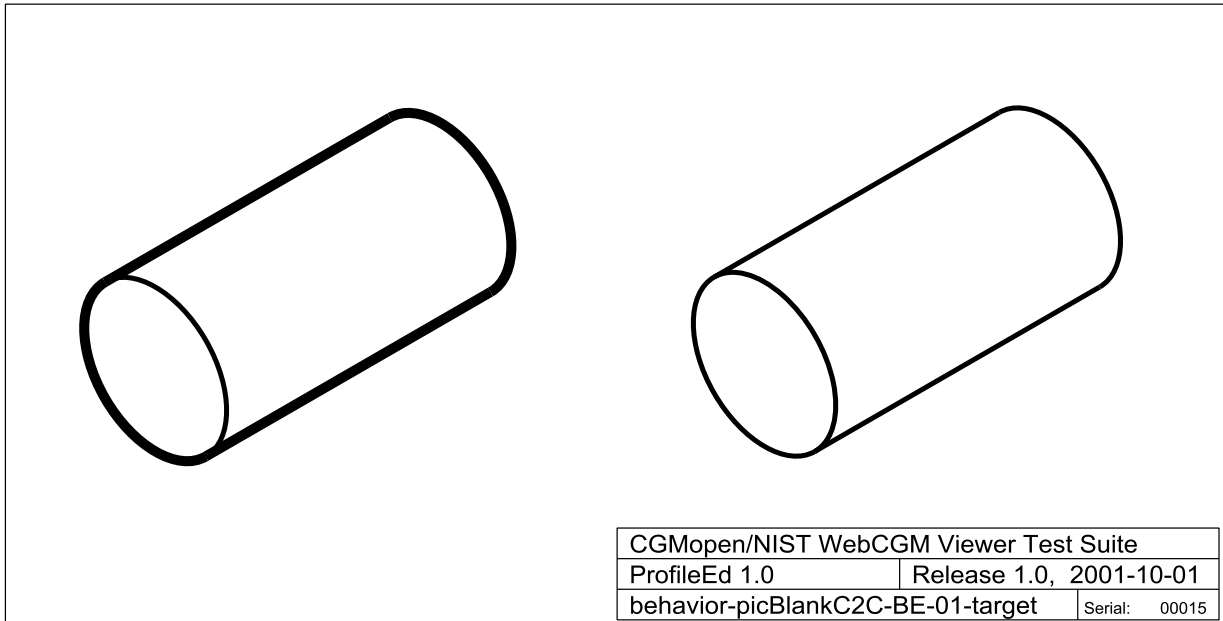
Fig 3, Sheet 1 of 2 behavior-objViewContext-BE-07



behavior-objViewContext-BE-07-PNG

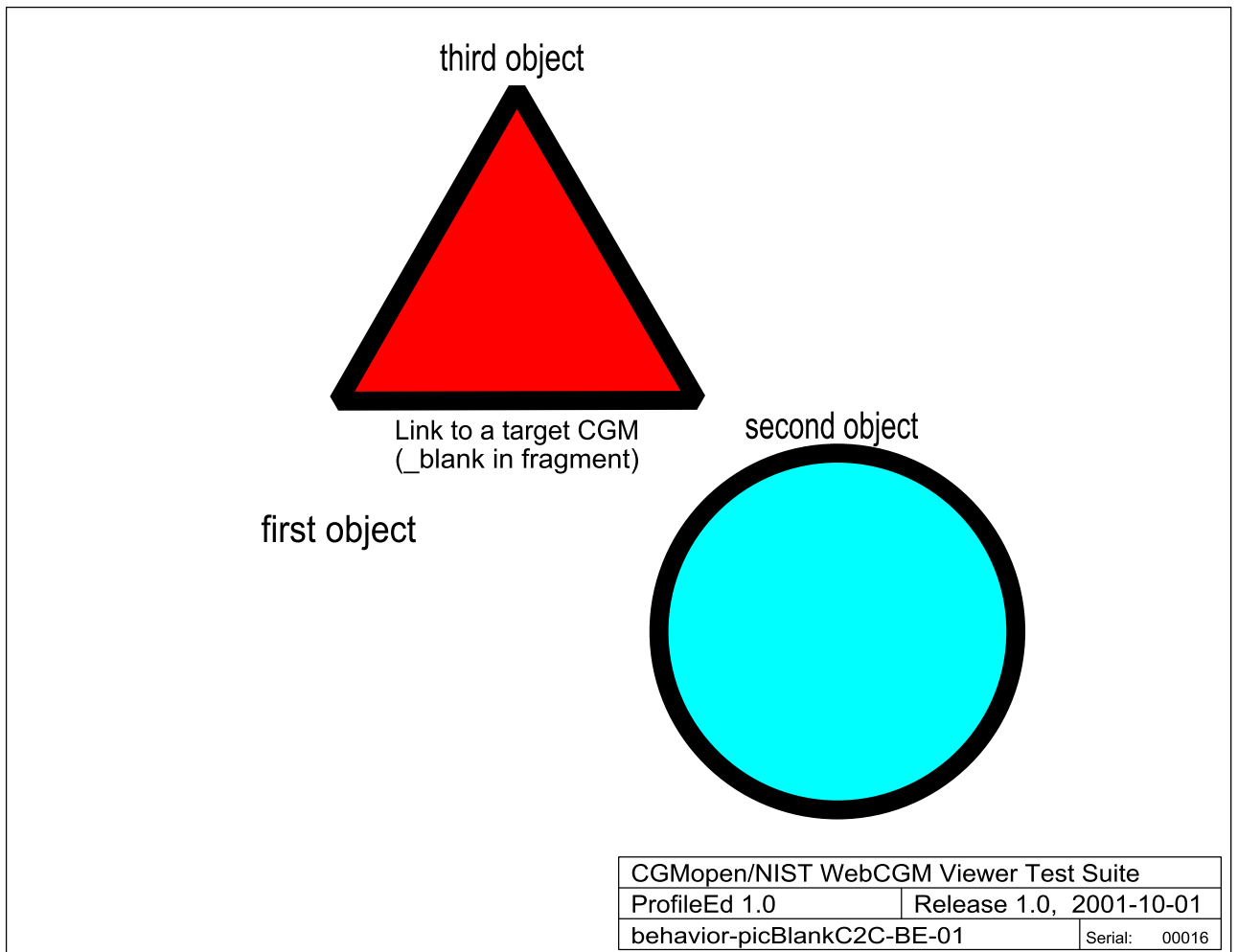
Fig 3, Sheet 2 of 2 behavior-objViewContext-BE-07

1.4 behavior-picBlankC2C-BE-01



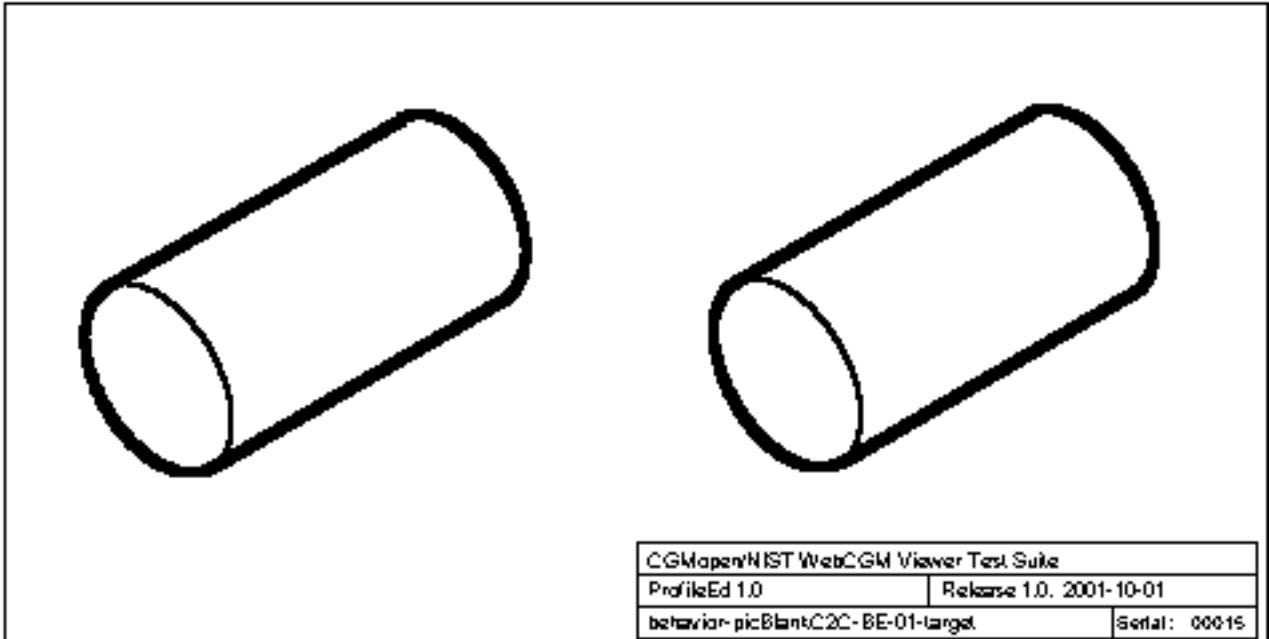
behavior-picBlankC2C-BE-01-target-CGM

Fig 4, Sheet 1 of 3 behavior-picBlankC2C-BE-01



behavior-picBlankC2C-BE-01-CGM

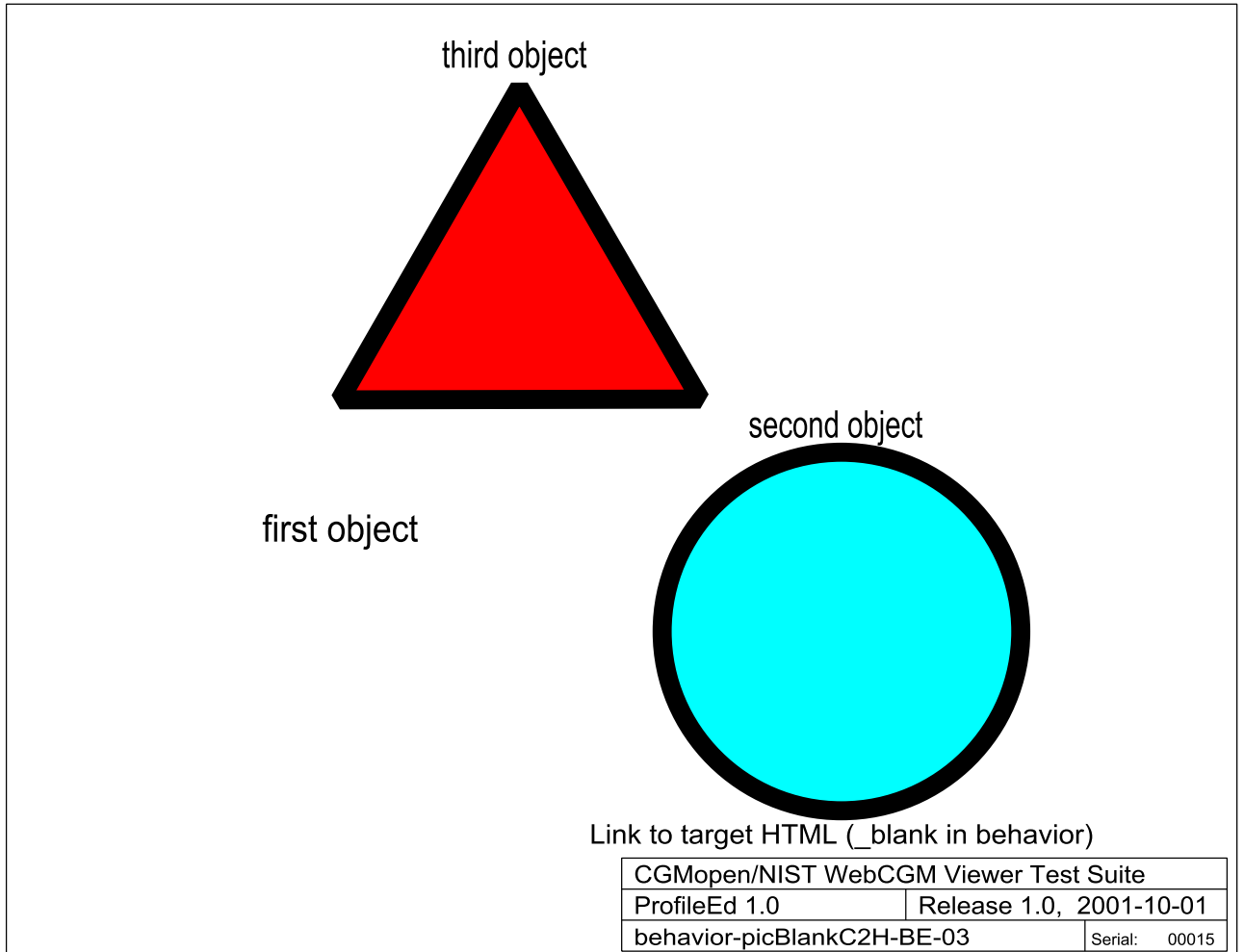
Fig 4, Sheet 2 of 3 behavior-picBlankC2C-BE-01



behavior-picBlankC2C-BE-01-PNG

Fig 4, Sheet 3 of 3 behavior-picBlankC2C-BE-01

1.5 behavior-picBlankC2H-BE-03



behavior-picBlankC2H-BE-03-CGM

Fig 5, Sheet 1 of 2 behavior-picBlankC2H-BE-03

### 3.1.2.2 Picture Behaviors

Picture behaviors describe to the viewer how to display the picture, which is the target of a hyperlink. Picture behaviors are based on the syntax and semantics of "Frame Target Names" defined in the HTML 4.0 Specification.

The reserved names listed below describe the various picture behaviors. All other Picture Behavior values shall be valid Frame Target Names as described in the HTML 4.0 specification. Frame Target Names must begin with an alphabetic character (a-zA-Z).

In what follows, the following conventions apply:

- "viewer" refers collectively to a browser and/or a CGM viewer (e.g., plugin). The logical result is described, not the method of achieving the result (which in general will require action by browser or viewer or both.)
- "content" refers to either source or destination or a link, and is either a picture (CGM) or a document (HTML), depending upon the formulation of the particular link.

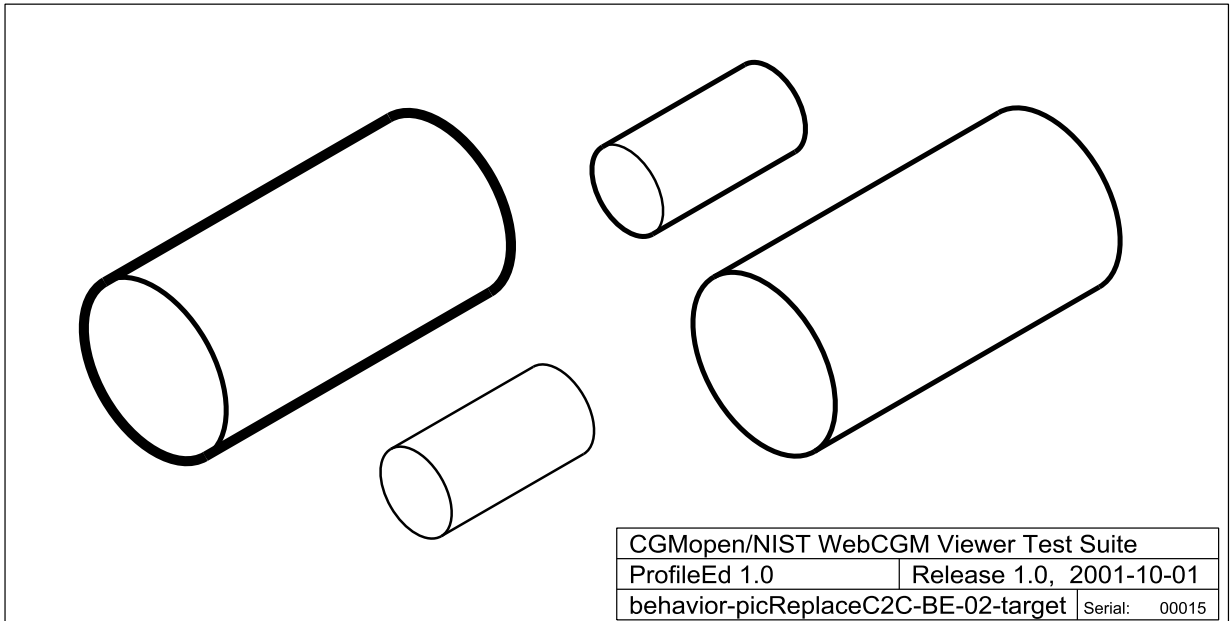
The following Picture Behavior values, except for `_replace`, are defined per HTML 4.0:

behavior-picBlankC2H-BE-03-PNG

*Fig 5, Sheet 2 of 2 behavior-picBlankC2H-BE-03*

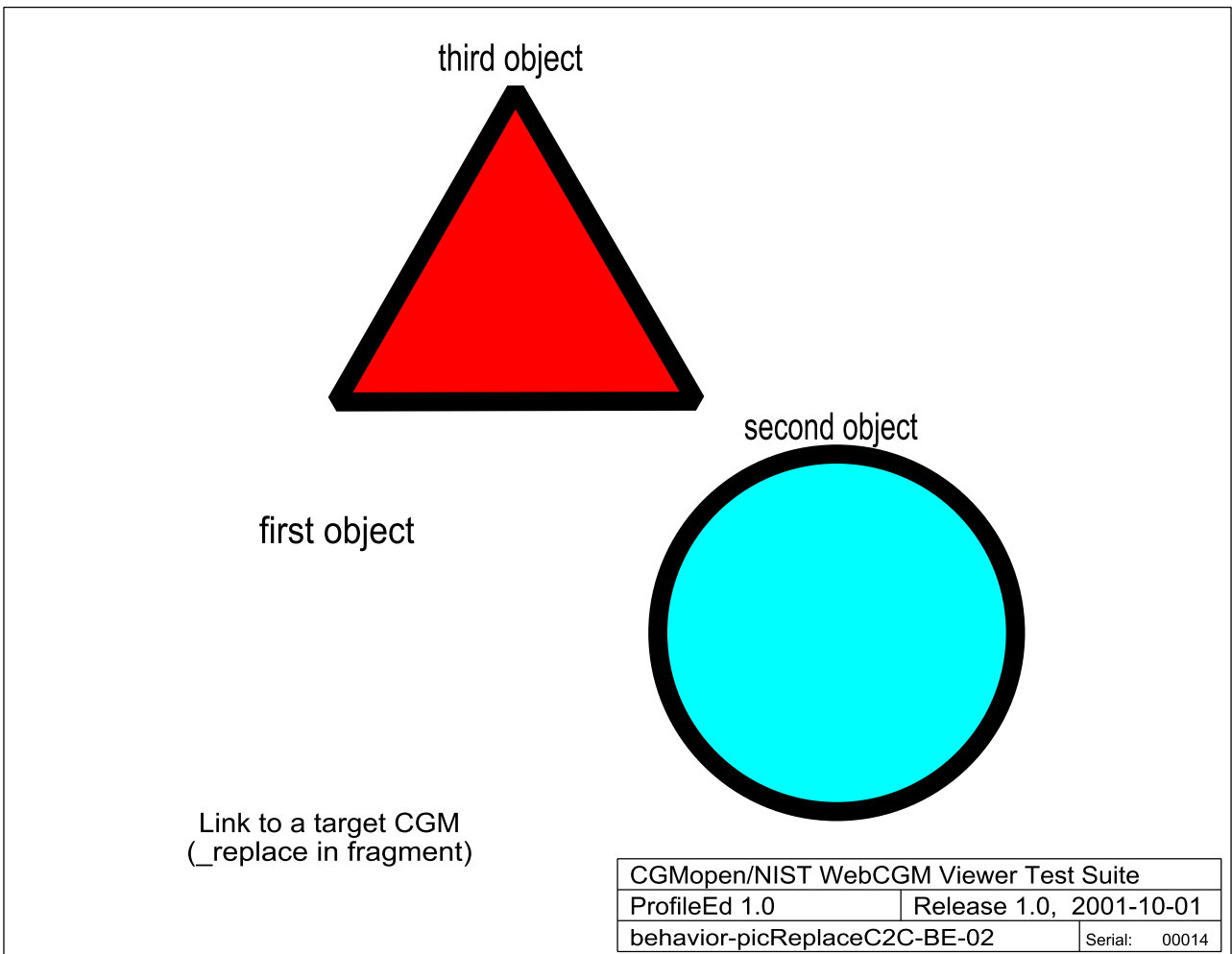


1.6 behavior-picReplaceC2C-BE-02



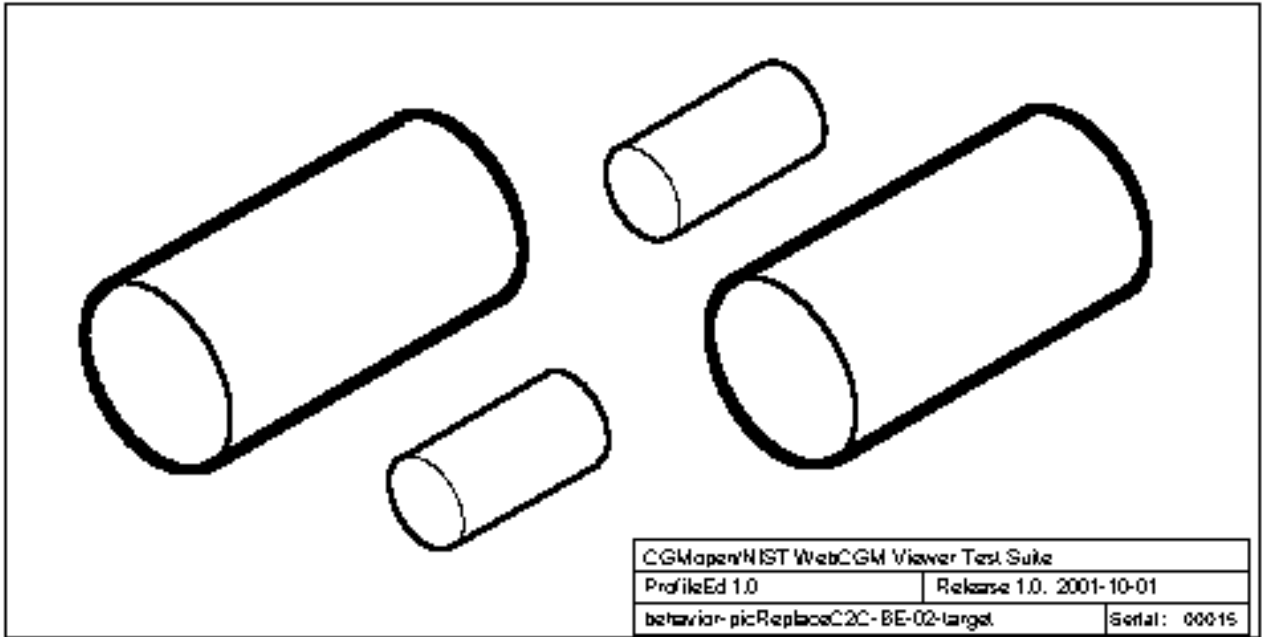
behavior-picReplaceC2C-BE-02-target-CGM

Fig 6, Sheet 1 of 3 behavior-picReplaceC2C-BE-02



behavior-picReplaceC2C-BE-02-CGM

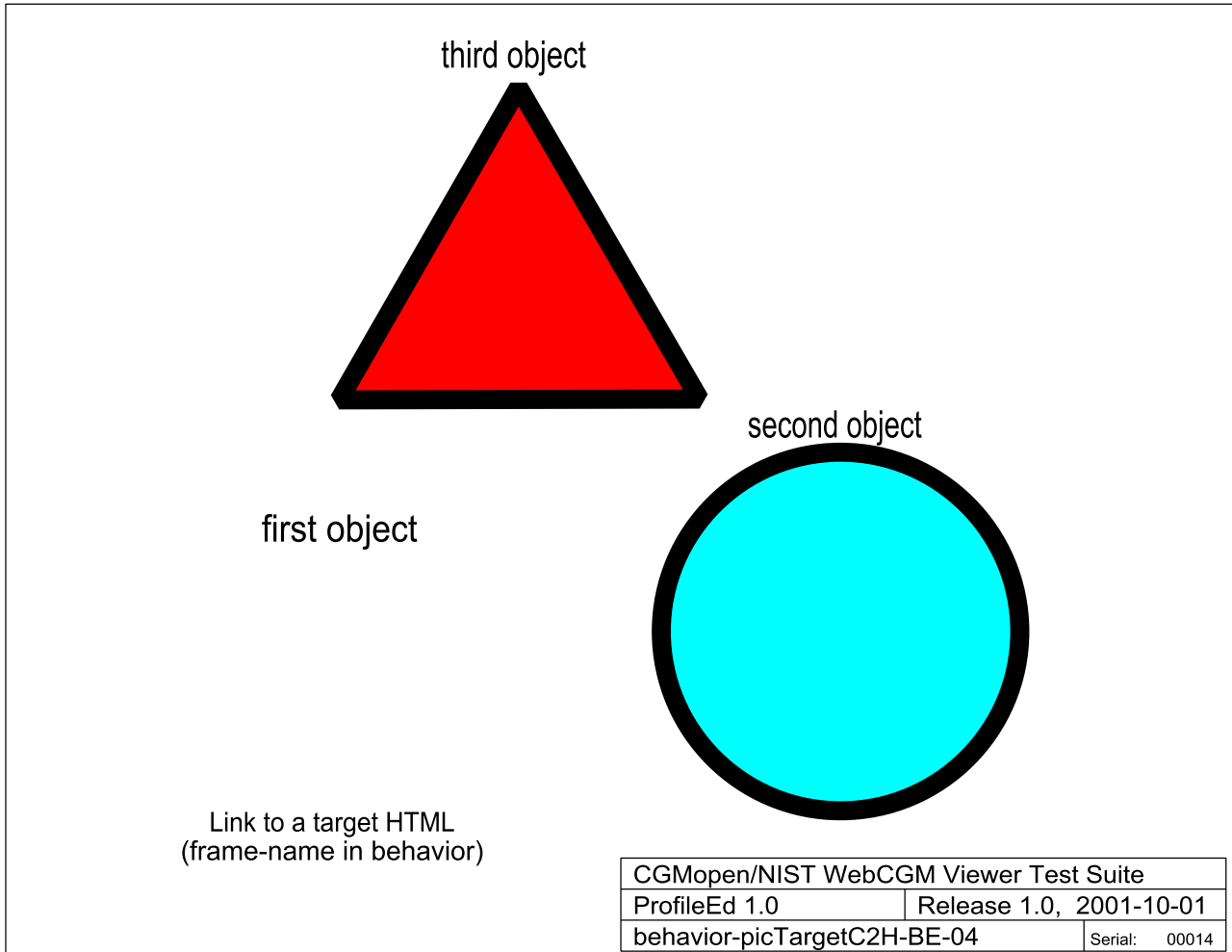
Fig 6, Sheet 2 of 3 behavior-picReplaceC2C-BE-02



behavior-picReplaceC2C-BE-02-PNG  
Fig 6, Sheet 3 of 3 behavior-picReplaceC2C-BE-02

Produced by Docuneering Ltd.

1.7 behavior-picTargetC2H-BE-04



behavior-picTargetC2H-BE-04-CGM

Fig 7, Sheet 1 of 2 behavior-picTargetC2H-BE-04

### 3.1.2.2 Picture Behaviors

Picture behaviors describe to the viewer how to display the picture, which is the target of a hyperlink. Picture behaviors are based on the syntax and semantics of "Frame Target Names" defined in the HTML 4.0 Specification.

The reserved names listed below describe the various picture behaviors. All other Picture Behavior values shall be valid Frame Target Names as described in the HTML 4.0 specification. Frame Target Names must begin with an alphabetic character (a-zA-Z).

#### -- PNG Reference --

In what follows, the following conventions apply:

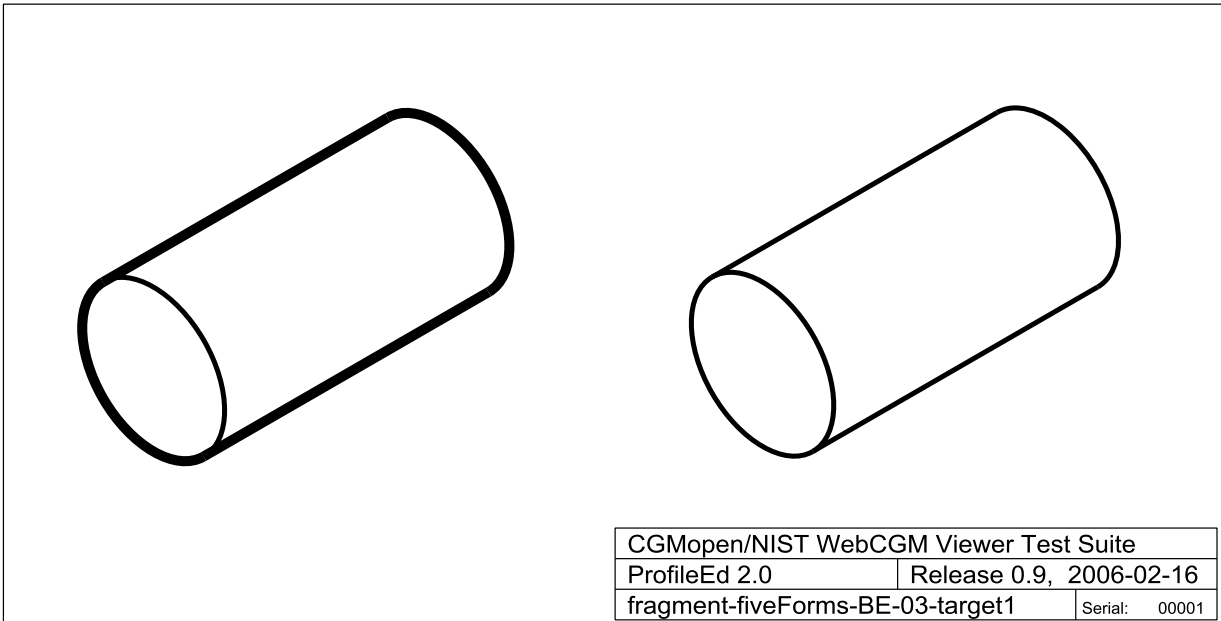
- "viewer" refers collectively to a browser and/or a CGM viewer (e.g., plugin). The logical result is described, not the method of achieving the result (which in general will require action by browser or viewer or both.)
- "content" refers to either source or destination or a link, and is either a picture (CGM) or a document (HTML), depending upon the formulation of the particular link.

The following Picture Behavior values, except for `_replace`, are defined per HTML 4.0:

behavior-picTargetC2H-BE-04-PNG

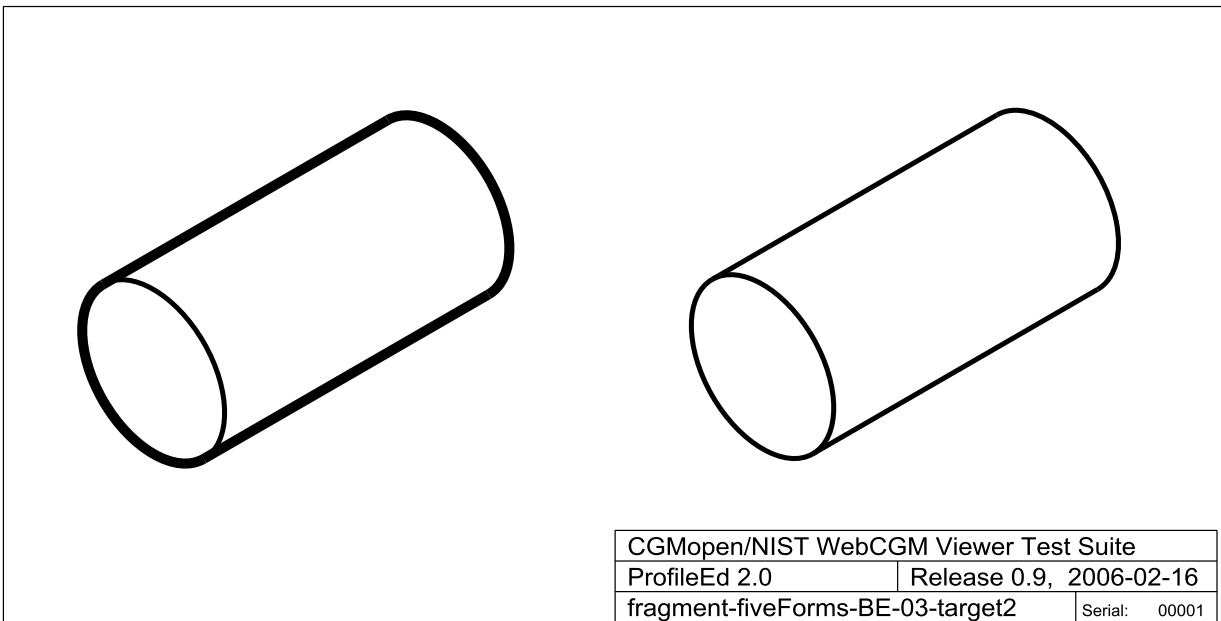
*Fig 7, Sheet 2 of 2 behavior-picTargetC2H-BE-04*

1.8 fragment-fiveForms-BE-03



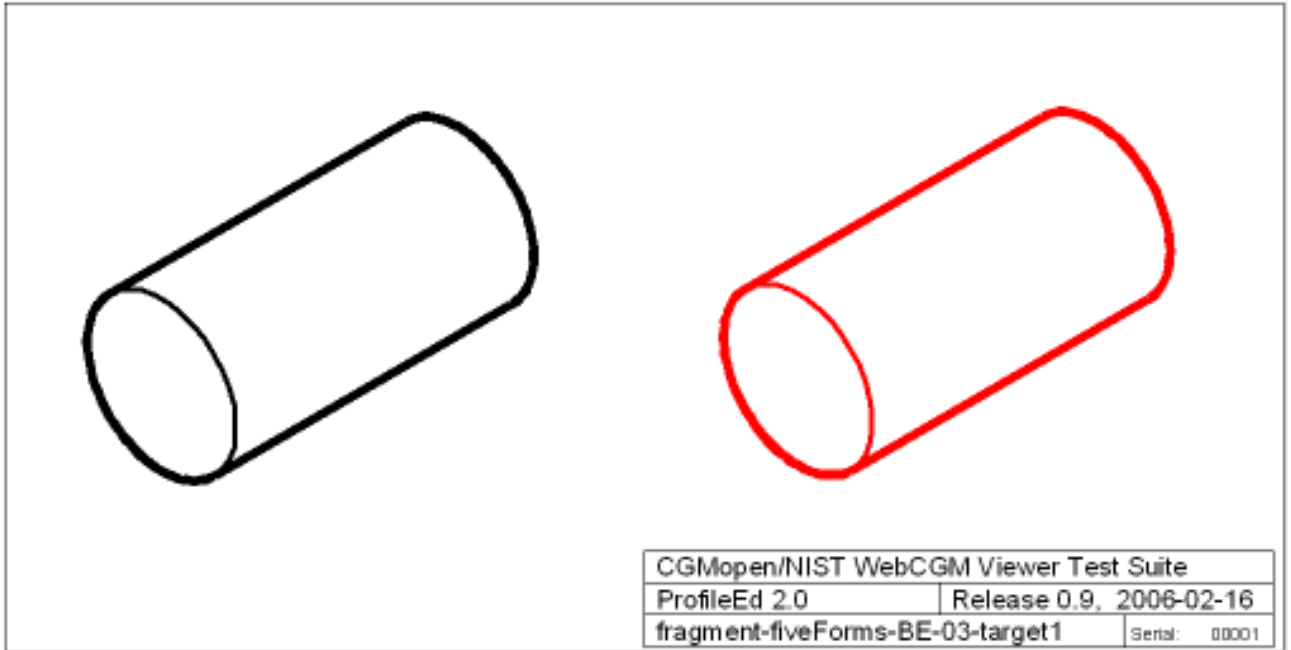
fragment-fiveForms-BE-03-target1-CGM

Fig 8, Sheet 1 of 3 fragment-fiveForms-BE-03



fragment-fiveForms-BE-03-target2-CGM

Fig 8, Sheet 2 of 3 fragment-fiveForms-BE-03



fragment-fiveForms-BE-03-PNG

Fig 8, Sheet 3 of 3 fragment-fiveForms-BE-03

1.9 fragment-idC2H-BE-01



fragment-idC2H-BE-01-CGM

Fig 9, Sheet 1 of 3 fragment-idC2H-BE-01



Here's the anchor (followed by a table).

[**Caveat:** this text is old WebCGM 1.0 text (test should be updated).]

**Picture behaviors and different source-to-destination data types.**

Behavior	CGM-to-HTML	CGM-to-CGM
_blank	The viewer shall load the designated document in a new, unnamed window.	The viewer shall load the designated picture in a new, unnamed window.
_self	The viewer shall load the document in the same frame as the one containing the CGM picture that refers to this target. This is the default for CGM-to-HTML links.	The viewer shall load the picture in the same frame as the one containing the CGM picture that refers to this target.
_parent	The viewer shall load the document into the immediate FRAMESET parent of the current frame in which the current picture is displayed. This value is equivalent to _self if the current frame has no parent.	The viewer shall load the picture into the immediate FRAMESET parent of the current frame in which the current picture is displayed. This value is equivalent to "_self" if the current frame has no parent.
_replace	Not applicable. Default to _self.	The viewer shall display the designated CGM picture in the same rectangular area in the same frame as the picture which refers to this target. If the ending resource (CGM) is the same as the linking resource, the viewer does not reload the resource. This is the default behavior for CGM-to-CGM links.

fragment-idC2H-BE-01-PNG

Fig 9, Sheet 2 of 3 fragment-idC2H-BE-01

---

---

The viewer shall load the content into the full, original window (thus canceling all other frames). This value is equivalent to `_self` if the current frame has no parent.

If the picture behavior value is any valid name string other than the above reserved names, (it begins with an alphabetic character (a-zA-Z)), remove the existing content (picture or document) from the frame whose name matches the string and display the specified content in the specified frame. If no frame exists by the specified name, the viewer shall load the designated content (picture or document) in a new window with the specified name.

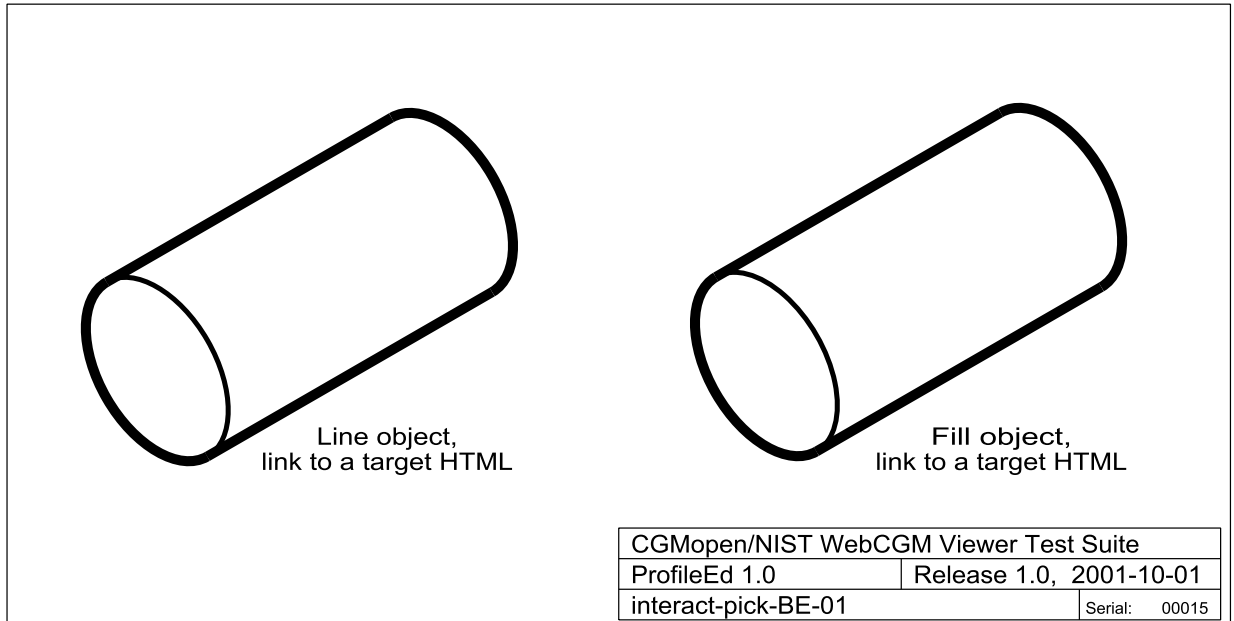
In the case that a link is HTML to CGM, the picture behavior should not be included in any fragment specification. Rather, the effect should be achieved with HTML TARGET attribute on the link specification in the HTML, per the specifications in the HTML 4.0 Recommendation. CGM viewers shall ignore picture behavior specifications in URI fragments which are part of links from non-CGM content.

The following table summarizes the rules for other link types, CGM-to-HTML and CGM-to-CGM:

fragment-idC2H-BE-01-old-PNG

*Fig 9, Sheet 3 of 3 fragment-idC2H-BE-01*

1.10 interact-pick-BE-01



interact-pick-BE-01-CGM

Fig 10, Sheet 1 of 2 interact-pick-BE-01

### 3.2.1.1 Grobject

Description. The application structure (APS) of type 'grobject' is used to group graphical primitives in a picture together and assign certain attributes to the group. The object is geometrically identified either by the set of primitives enclosed between the BEGIN APS and END APS elements (if any), or by the spatial region associated with the 'region' APS Attribute (if present). 'Grobject' APSs may contain any CGM graphical content allowed by this profile, and may contain other APS and APS attribute content as defined in section 3.3 (the complete, normative WebCGM content model).

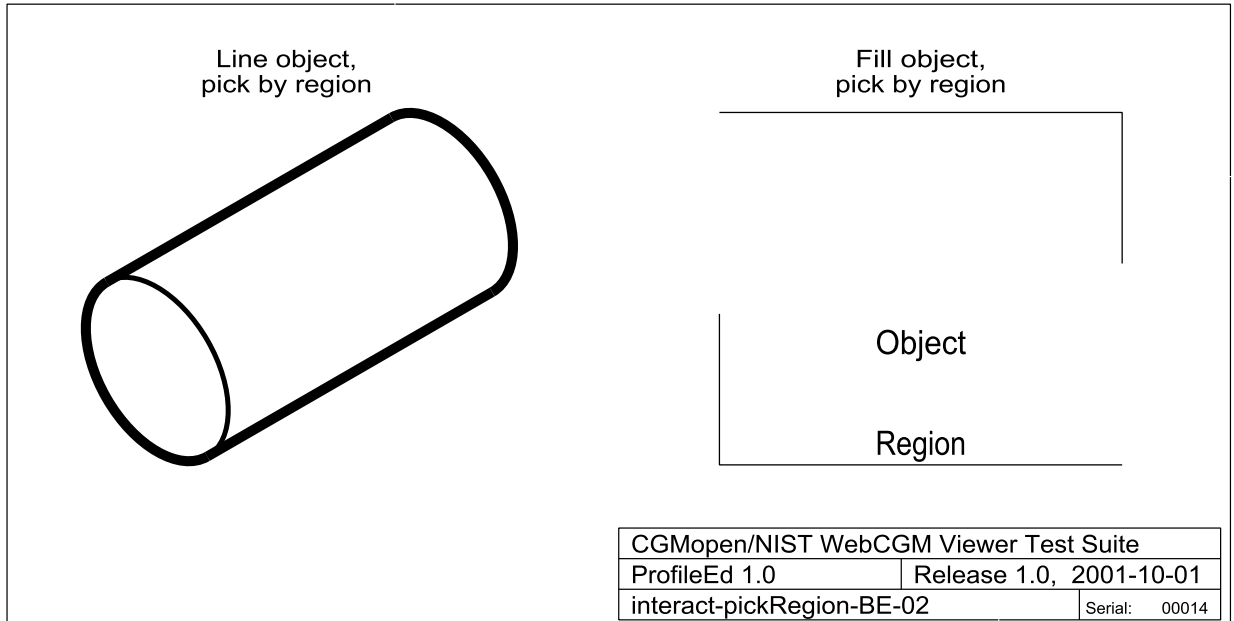
Viewer Behavior. A 'grobject' APS may be selected by the user ("pick"). The viewer shall decide about the pick selection in the following manner:

1. If the object does not contain a 'region' attribute and contains no a LinkURI attributes no further action is required.
2. If the object contains at least one 'LinkURI' attribute but no 'region' attribute, a click on non-transparent areas of the graphical elements of the object selects the object. If the object does not contain any graphical primitives no further action is required. If the object contains more than one LinkURI attribute, the user shall be given a choice of which URI to navigate.

interact-pick-BE-01-PNG

*Fig 10, Sheet 2 of 2 interact-pick-BE-01*

1.11 interact-pickRegion-BE-02



interact-pickRegion-BE-02-CGM

Fig 11, Sheet 1 of 2 interact-pickRegion-BE-02

### 3.2.1.1 Grobject

[...]

Viewer Behavior. A 'grobject' APS may be selected by the user ("pick"). The viewer shall decide about the pick selection in the following manner:

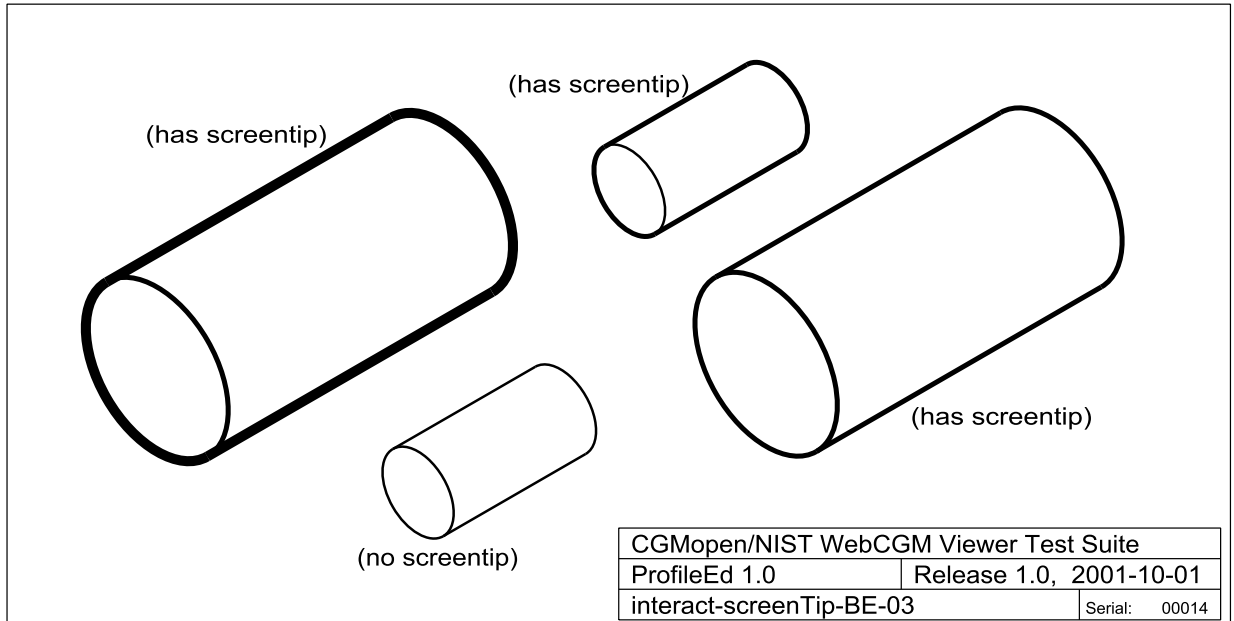
1. If the object does not contain a 'region' attribute and contains no a LinkURI attributes no further action is required.
2. If the object contains at least one 'LinkURI' attribute but no 'region' attribute, a click on non-transparent areas of the graphical elements of the object selects the object. If the object does not contain any graphical primitives no further action is required. If the object contains more than one LinkURI attribute, the user shall be given a choice of which URI to navigate.
3. If the object contains a 'region' attribute and contains at least one LinkURI attribute, then the 'region' shall be used for selection. If the object contains more than one LinkURI attribute, the user shall be given a choice of which URI to navigate.
4. If the object contains a 'region' attribute but no LinkURI attributes no further action is required.

It is possible that a user selection ("pick") of a object in a displayed

interact-pickRegion-BE-02-PNG

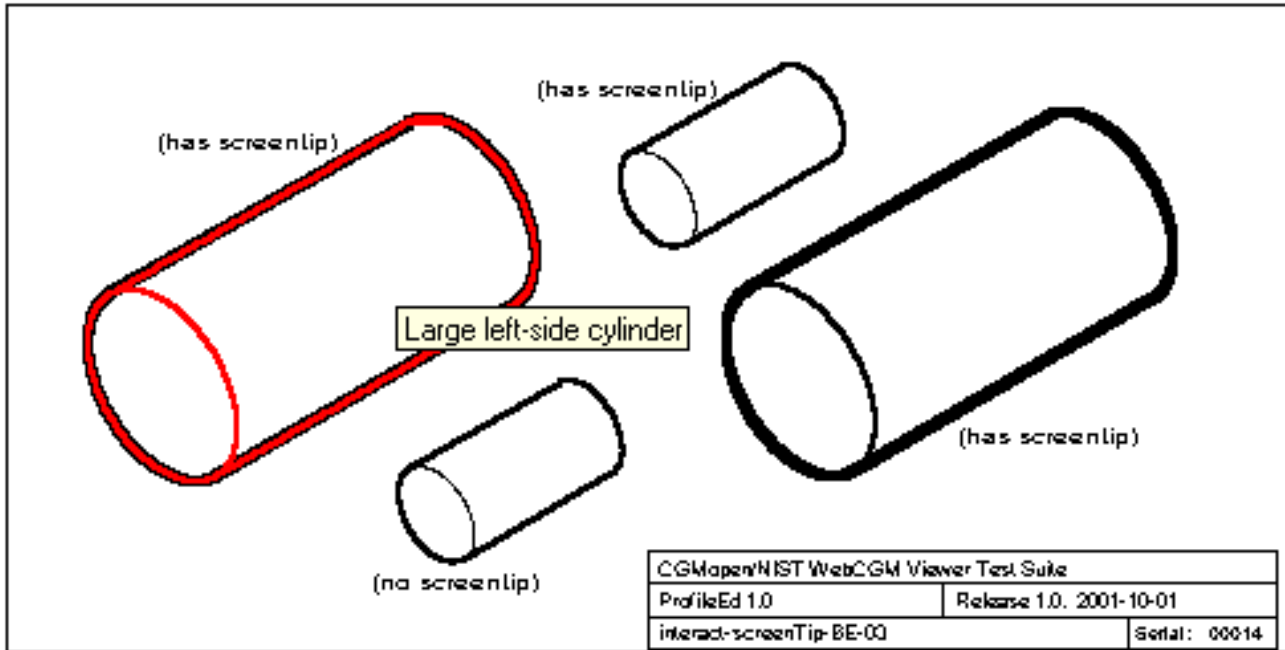
*Fig 11, Sheet 2 of 2 interact-pickRegion-BE-02*

1.12 interact-screenTip-BE-03



interact-screenTip-BE-03-CGM

Fig 12, Sheet 1 of 2 interact-screenTip-BE-03

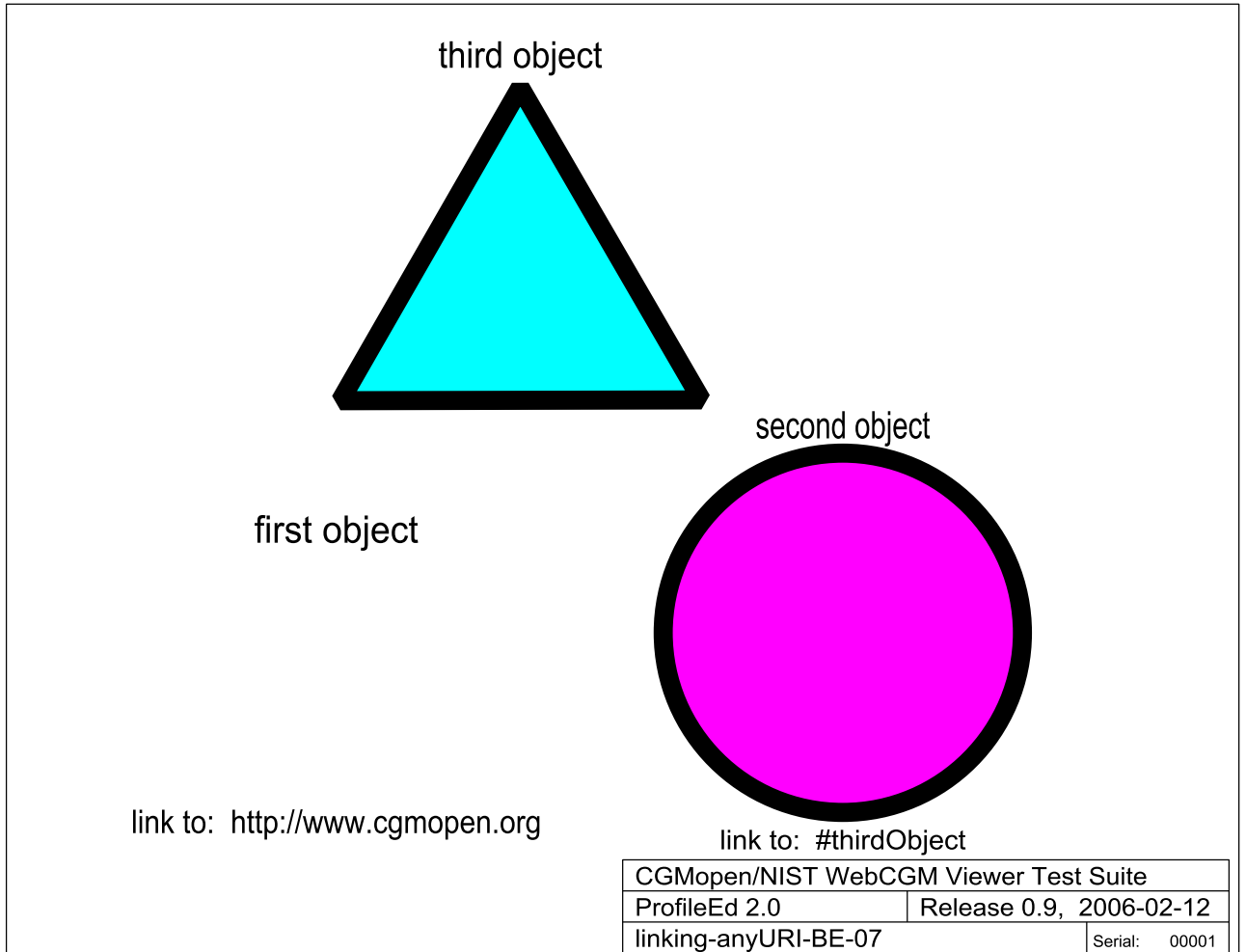


interact-screenTip-BE-03-PNG

Fig 12, Sheet 2 of 2 interact-screenTip-BE-03

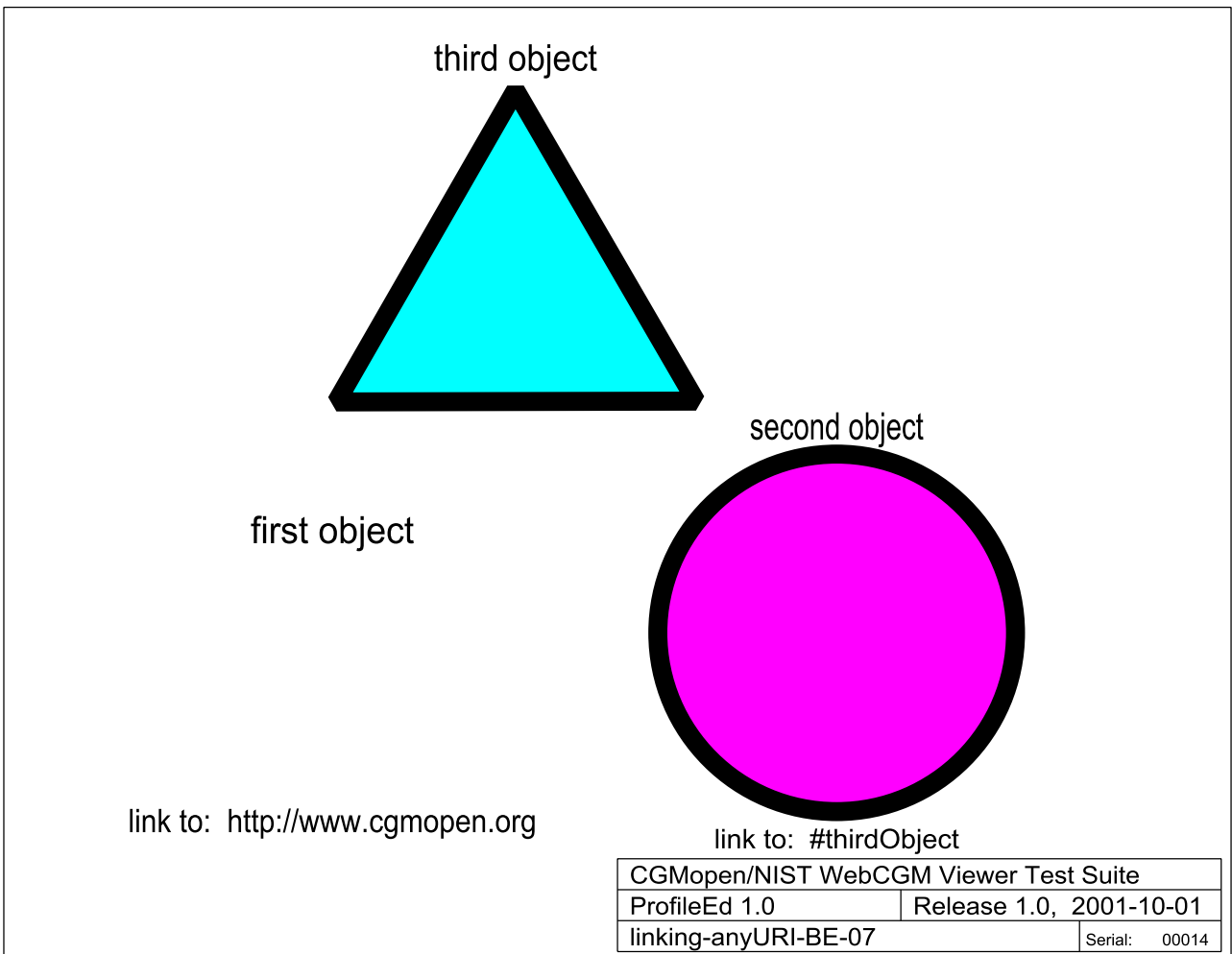


1.13 linking-anyURI-BE-07



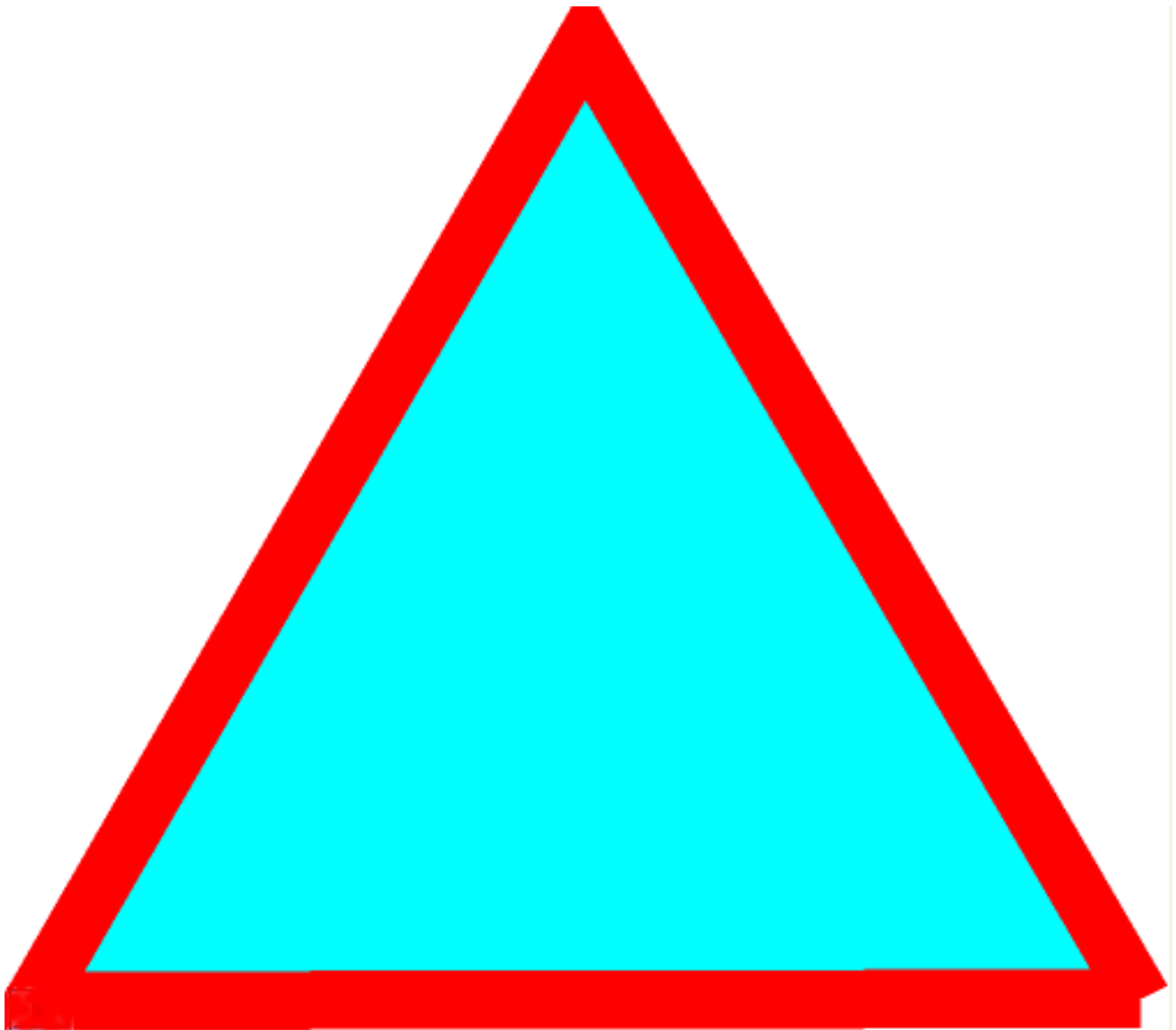
linking-anyURI-BE-07-CGM

Fig 13, Sheet 1 of 3 linking-anyURI-BE-07



linking-anyURI-BE-07org-CGM

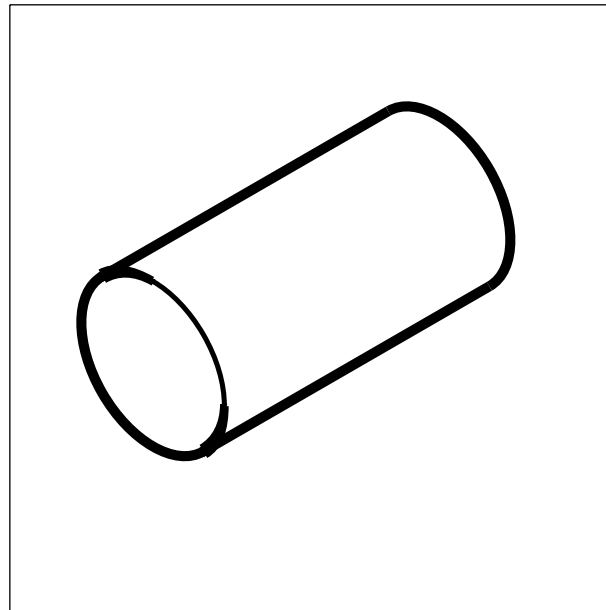
Fig 13, Sheet 2 of 3 linking-anyURI-BE-07



linking-anyURI-BE-07-PNG

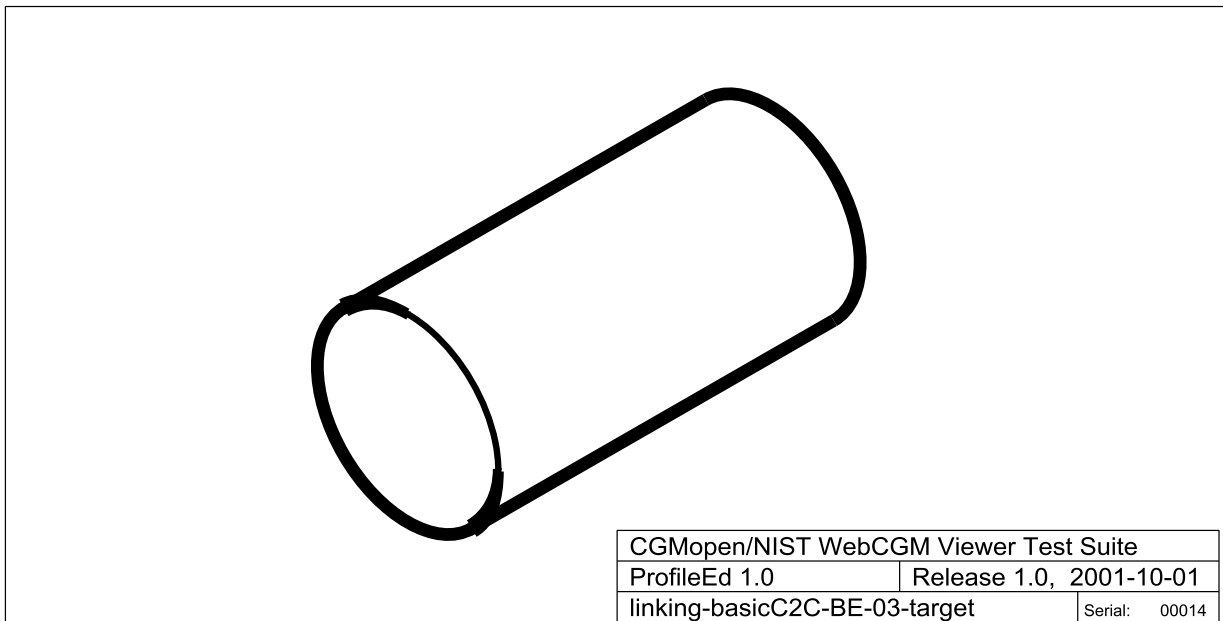
*Fig 13, Sheet 3 of 3 linking-anyURI-BE-07*

1.14 linking-basicC2C-BE-03



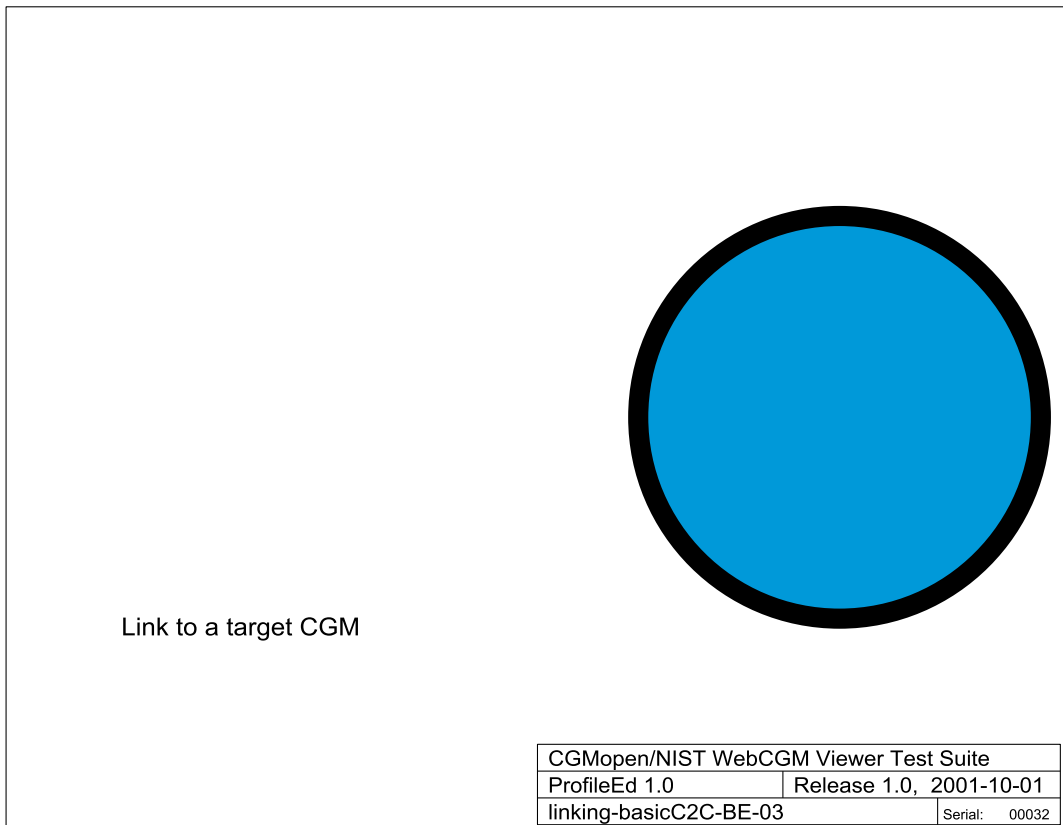
linking-basicC2C-BE-03-target-old-CGM

Fig 14, Sheet 1 of 4 linking-basicC2C-BE-03



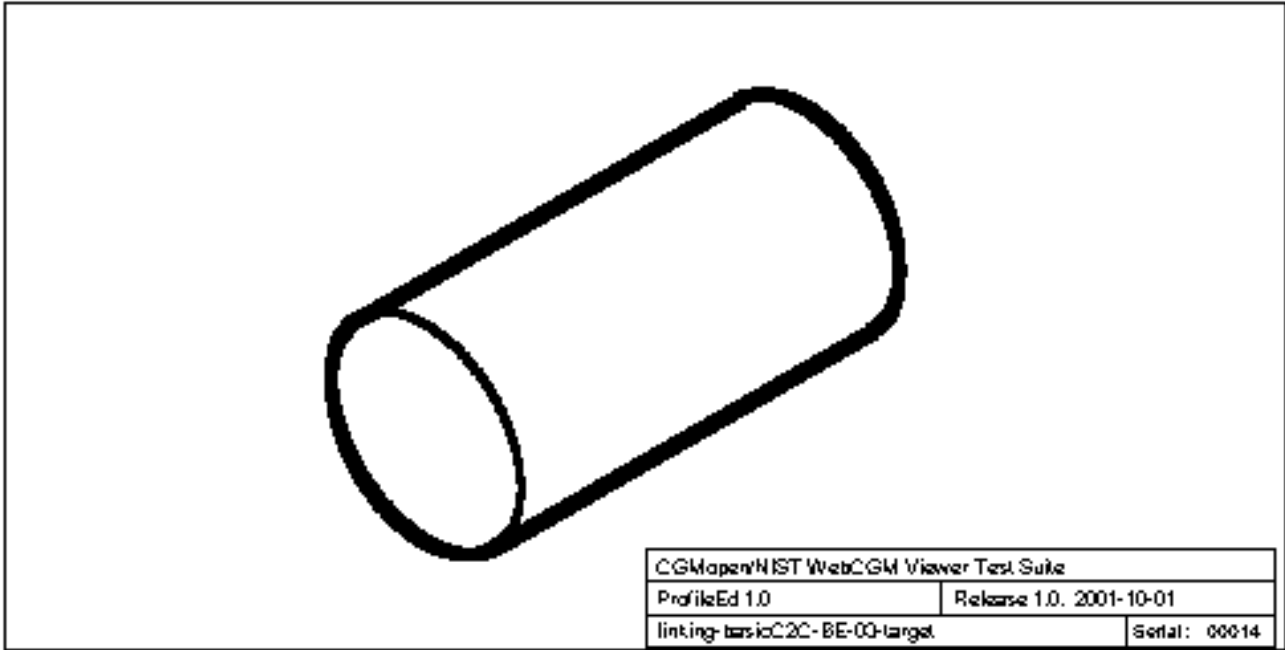
linking-basicC2C-BE-03-target-CGM

Fig 14, Sheet 2 of 4 linking-basicC2C-BE-03



linking-basicC2C-BE-03-CGM

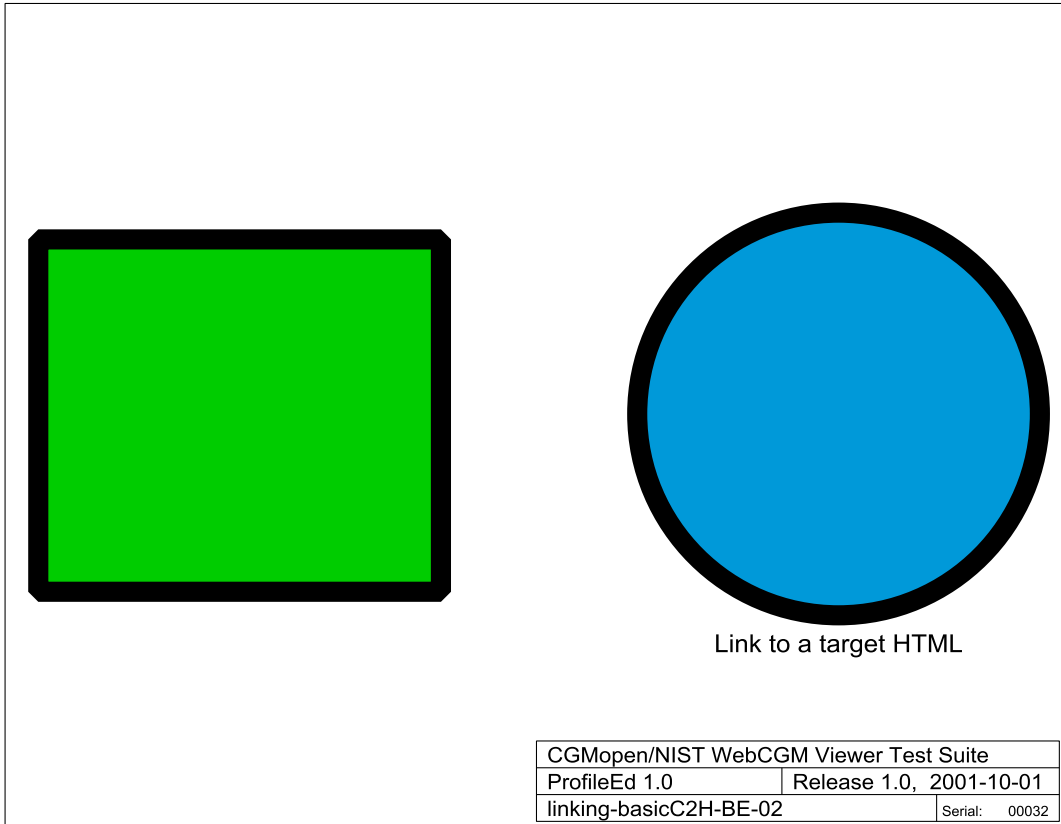
Fig 14, Sheet 3 of 4 linking-basicC2C-BE-03



linking-basicC2C-BE-03-PNG

Fig 14, Sheet 4 of 4 linking-basicC2C-BE-03

1.15 linking-basicC2H-BE-02



linking-basicC2H-BE-02-CGM

Fig 15, Sheet 1 of 2 linking-basicC2H-BE-02

---

### 3.2.2.3 linkuri

Description. The 'linkuri' APS Attribute defines a URI, to be associated with the object containing this attribute. When the object is selected by a graphical pick operation, then the viewer shall take necessary action to navigate the link. Multiple 'linkuri' attributes may be contained within a single APS.

Parameters. The data record is a SDR of one member, containing three strings (type SF, String Fixed). The first string is the link destination, a URI, the second string (possibly null) is a LinkTitle attribute, and the third string is (possibly null) the Behavior parameter. Note that a null string is a zero-length string, and is not the same as an omitted parameter.

The destination of a link is specified by a Uniform Resource Identifier, or URI. Any valid URL under the specifications of RFC-2396 is a valid value of this parameter. This specification does not constrain the syntax or semantics of a URI in a 'linkuri' that identifies a resource that is not a CGM file (for example, an HTML or XML document).

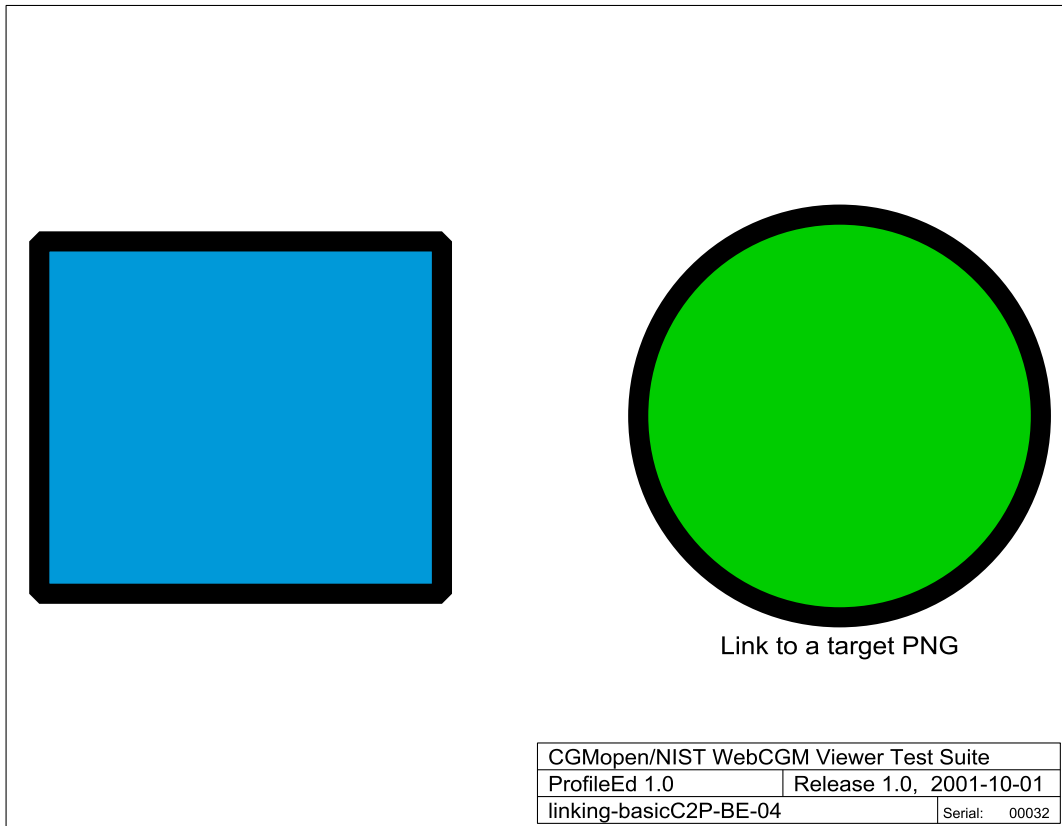
The Behavior string defines picture behavior associated with the link. The values and meanings are as defined in 3.1.2.2. In cases that the destination is not CGM media type, the 3rd parameter, Behavior, shall be used if

linking-basicC2H-BE-02-PNG

*Fig 15, Sheet 2 of 2 linking-basicC2H-BE-02*

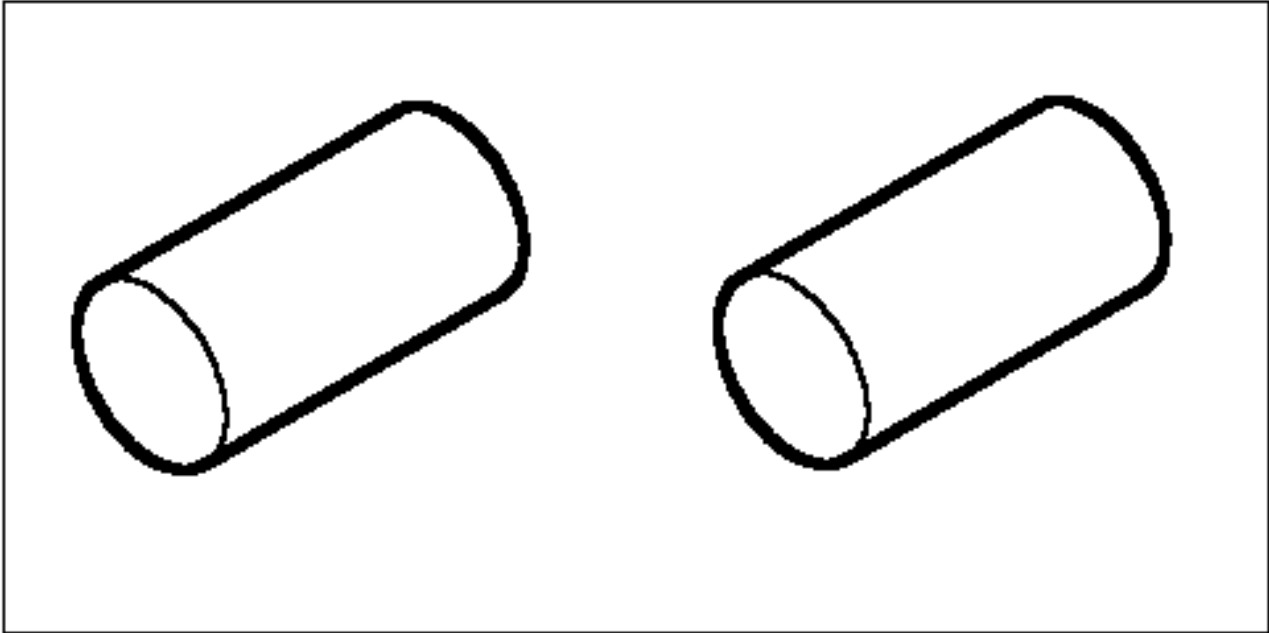


1.16 linking-basicC2P-BE-04



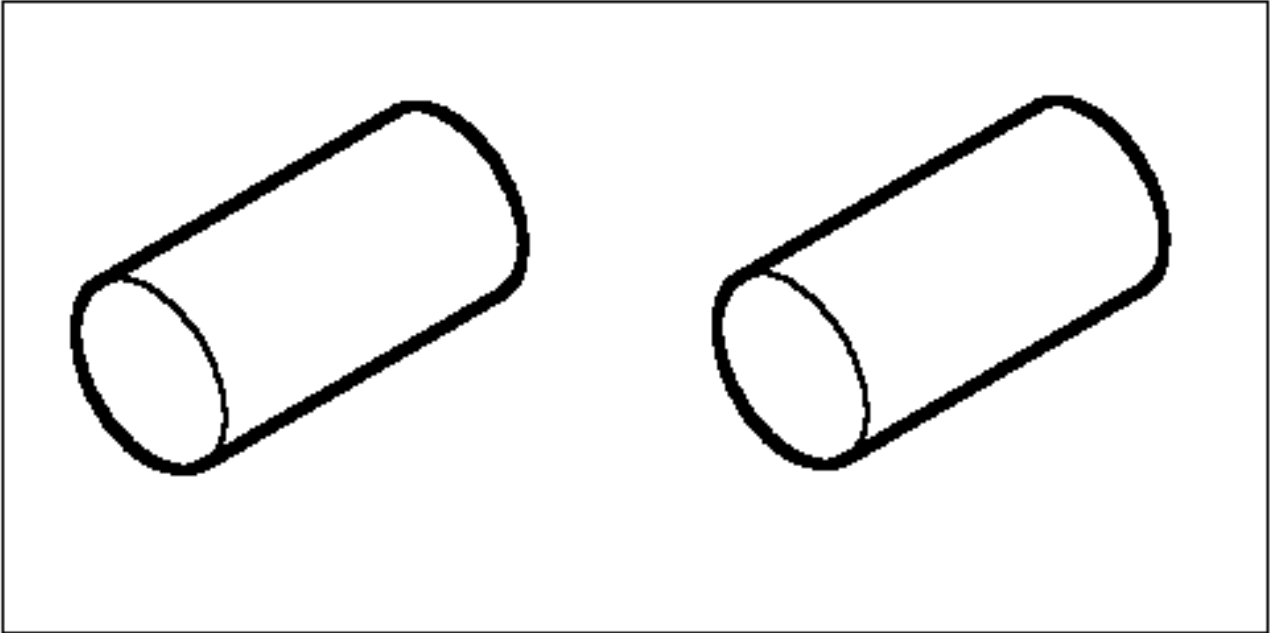
linking-basicC2P-BE-04-CGM

Fig 16, Sheet 1 of 3 linking-basicC2P-BE-04



linking-basicC2P-BE-04-PNG

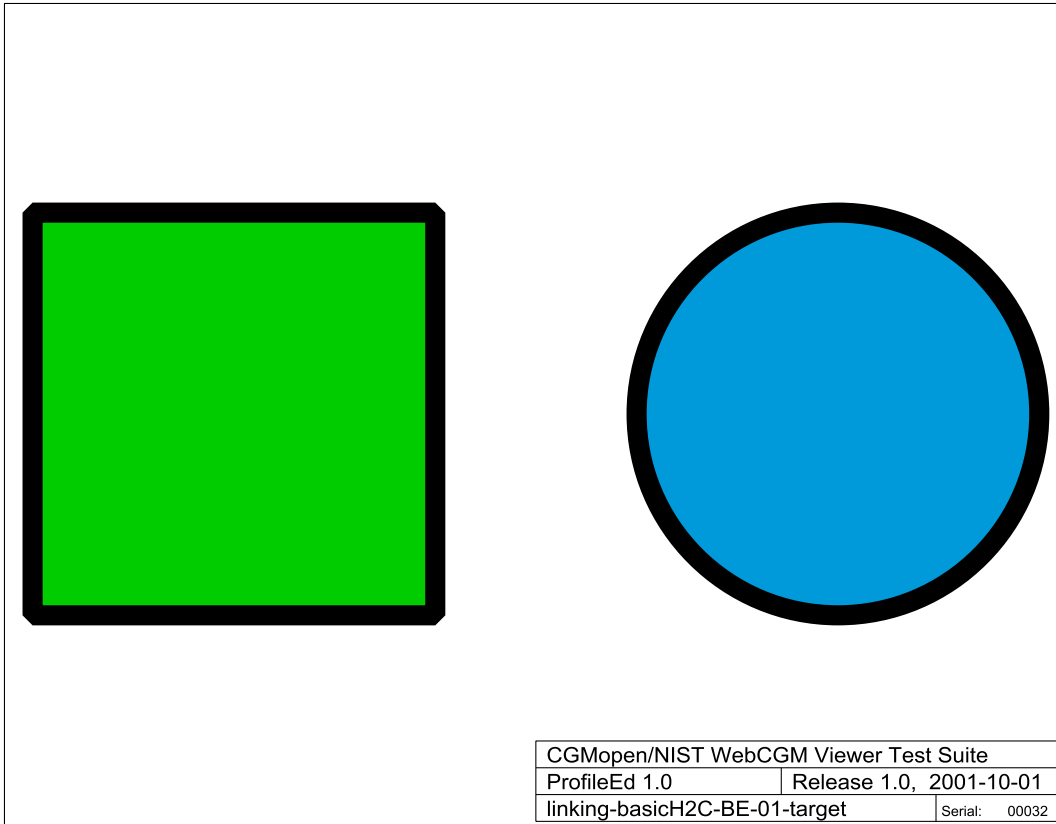
*Fig 16, Sheet 2 of 3 linking-basicC2P-BE-04*



linking-basicC2P-BE-04-target-PNG

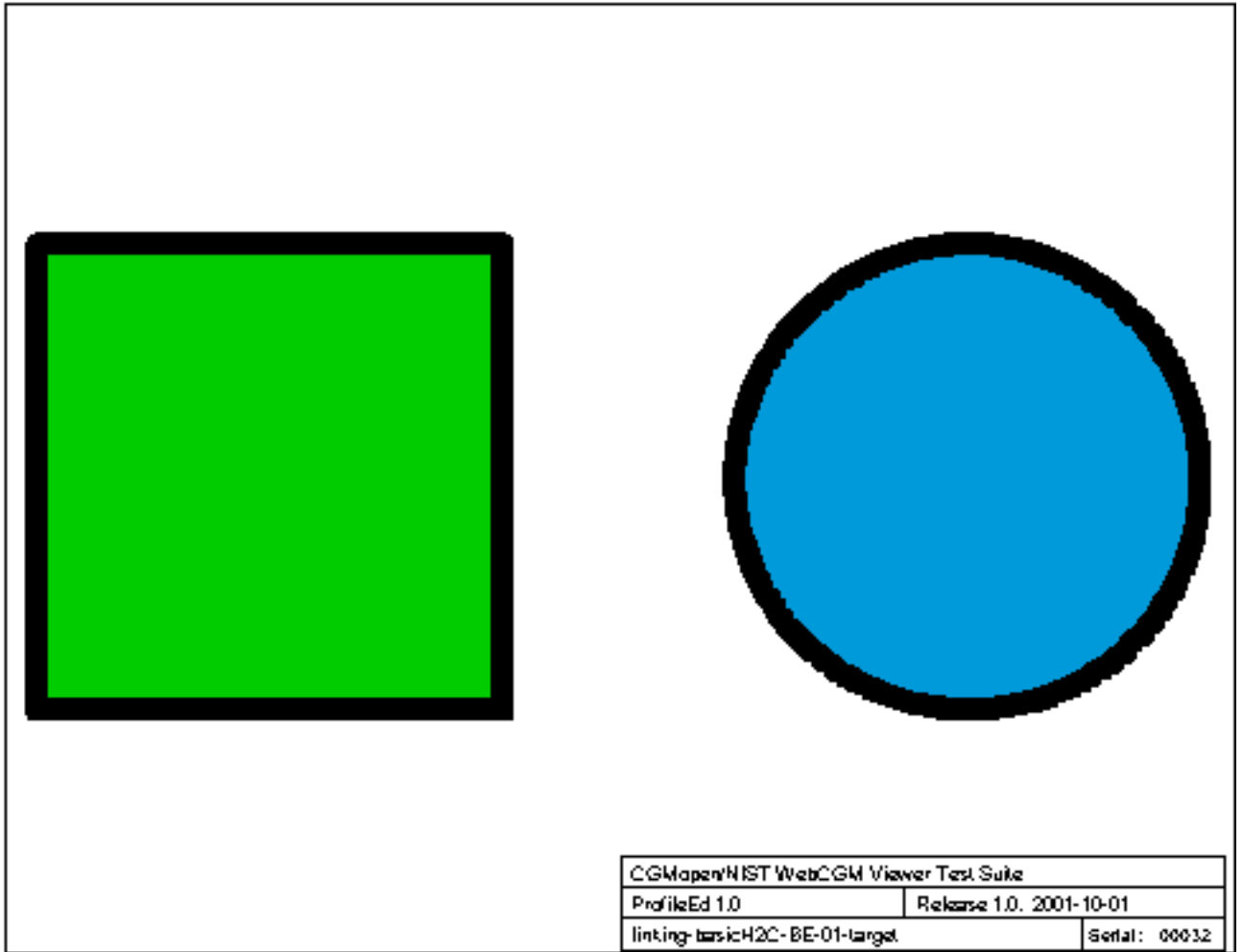
*Fig 16, Sheet 3 of 3 linking-basicC2P-BE-04*

1.17 linking-basicH2C-BE-01



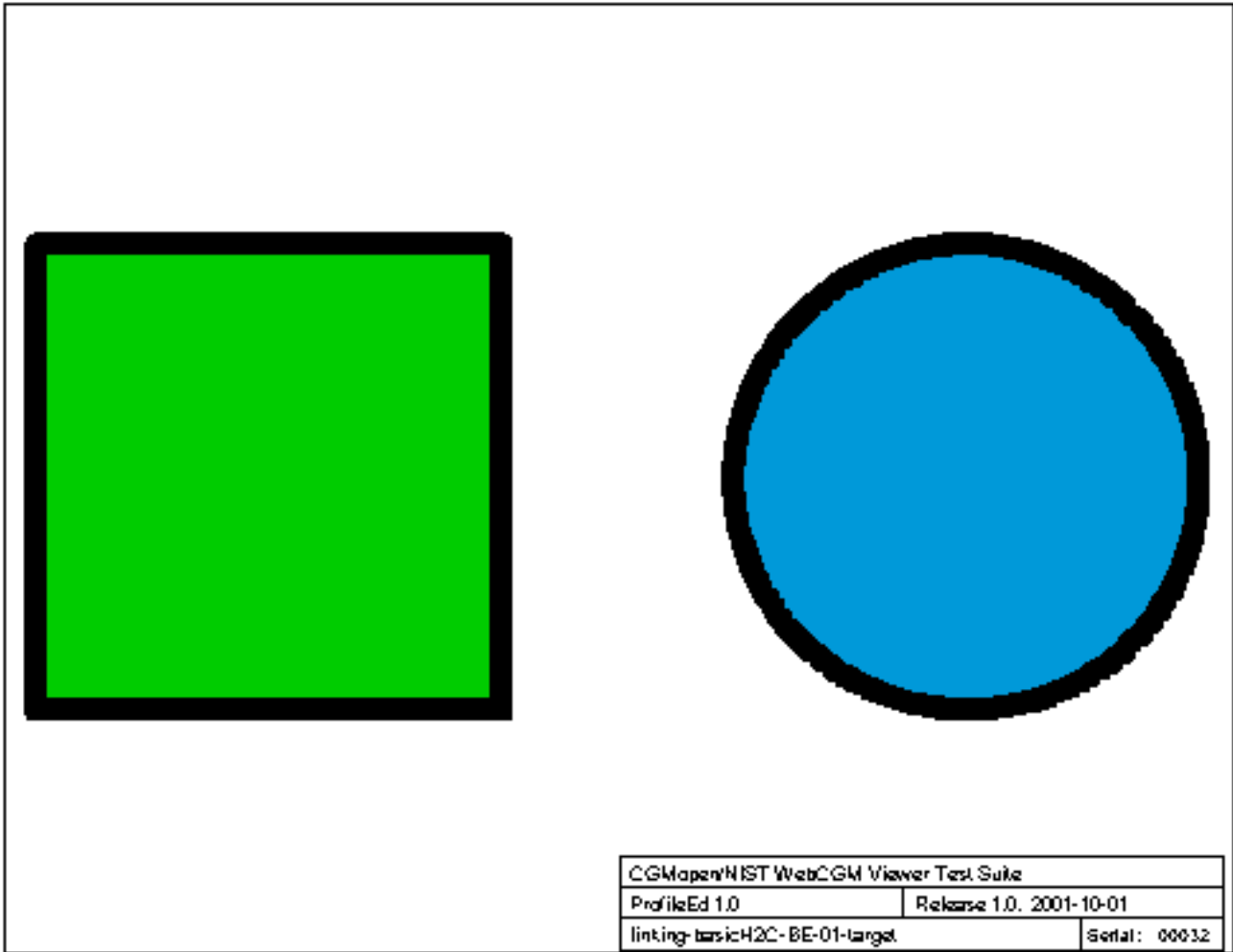
linking-basicH2C-BE-01-target-CGM

Fig 17, Sheet 1 of 4 linking-basicH2C-BE-01



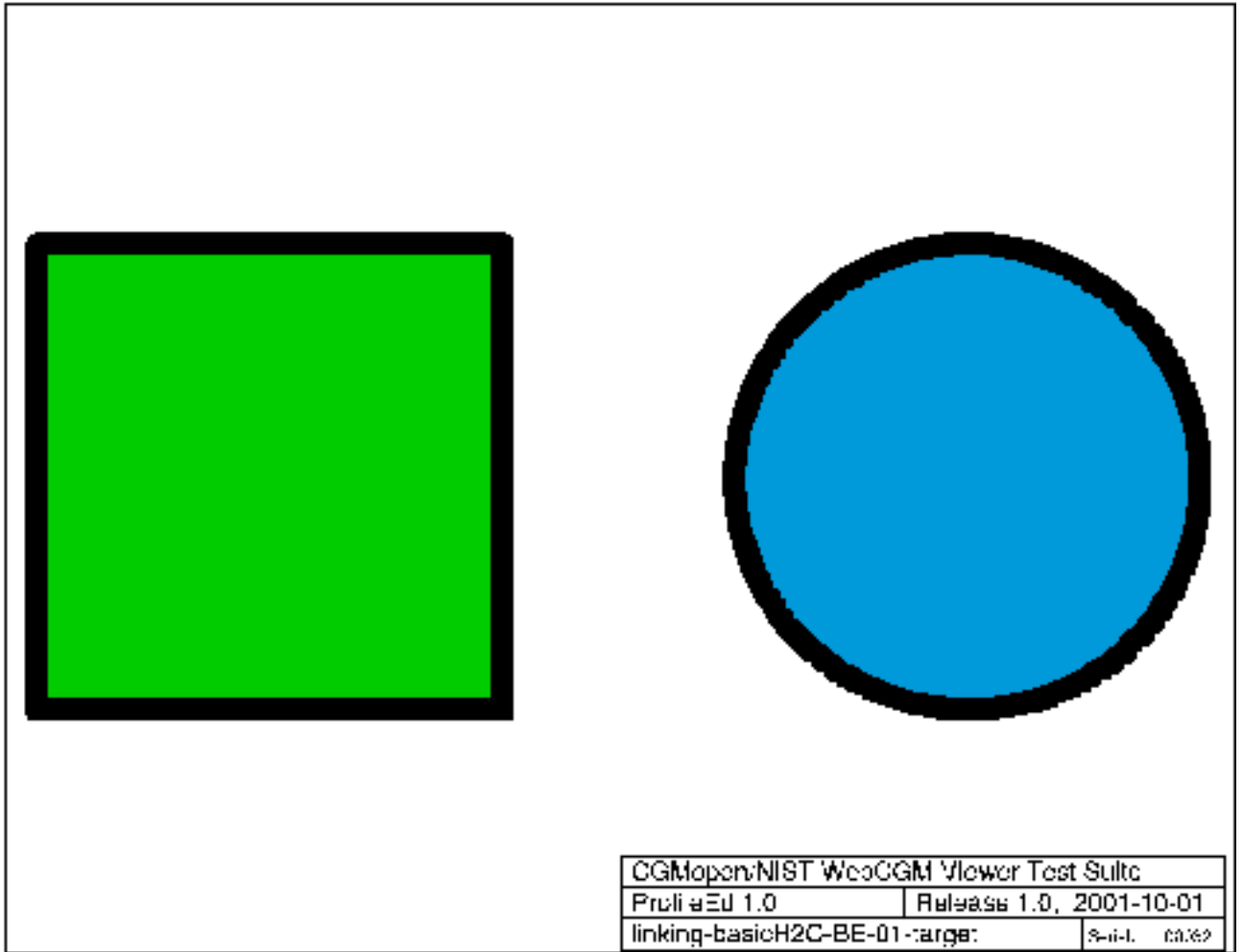
linking-basicH2C-BE-01-PNG  
Fig 17, Sheet 2 of 4 linking-basicH2C-BE-01

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linking-basicH2C-BE-01-hw-PNG

Fig 17, Sheet 3 of 4 linking-basicH2C-BE-01

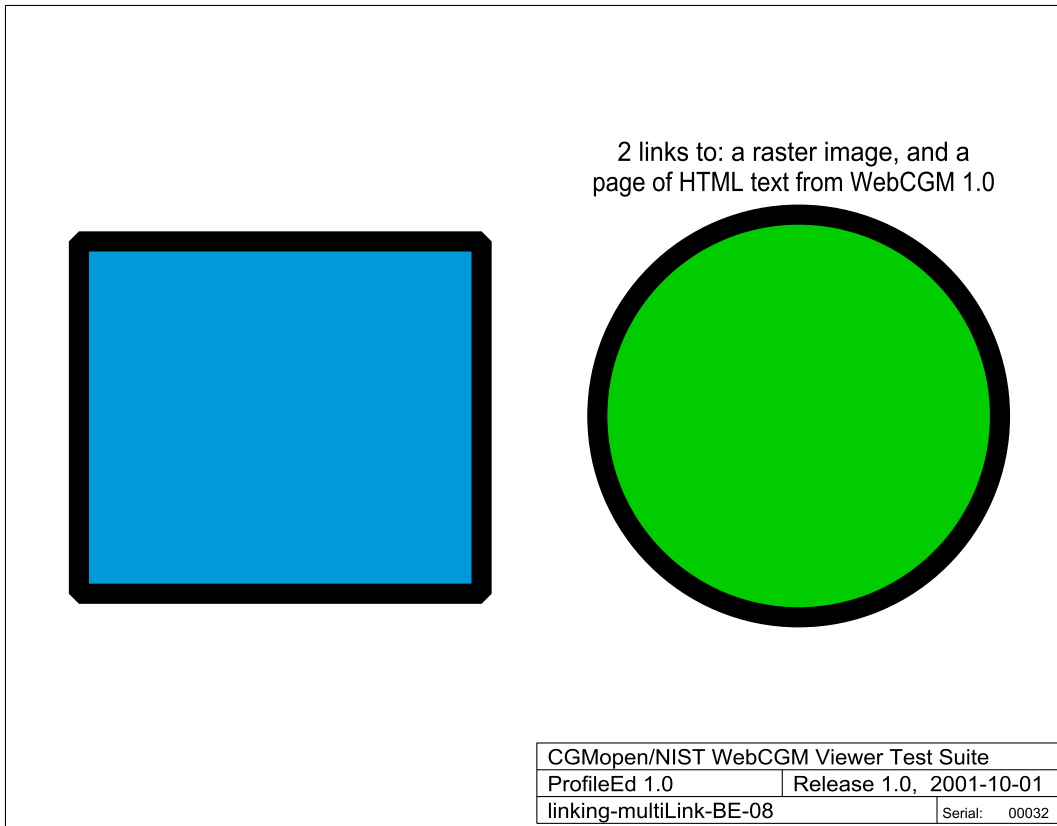


linking-basicH2C-BE-01-sw-PNG

Fig 17, Sheet 4 of 4 linking-basicH2C-BE-01

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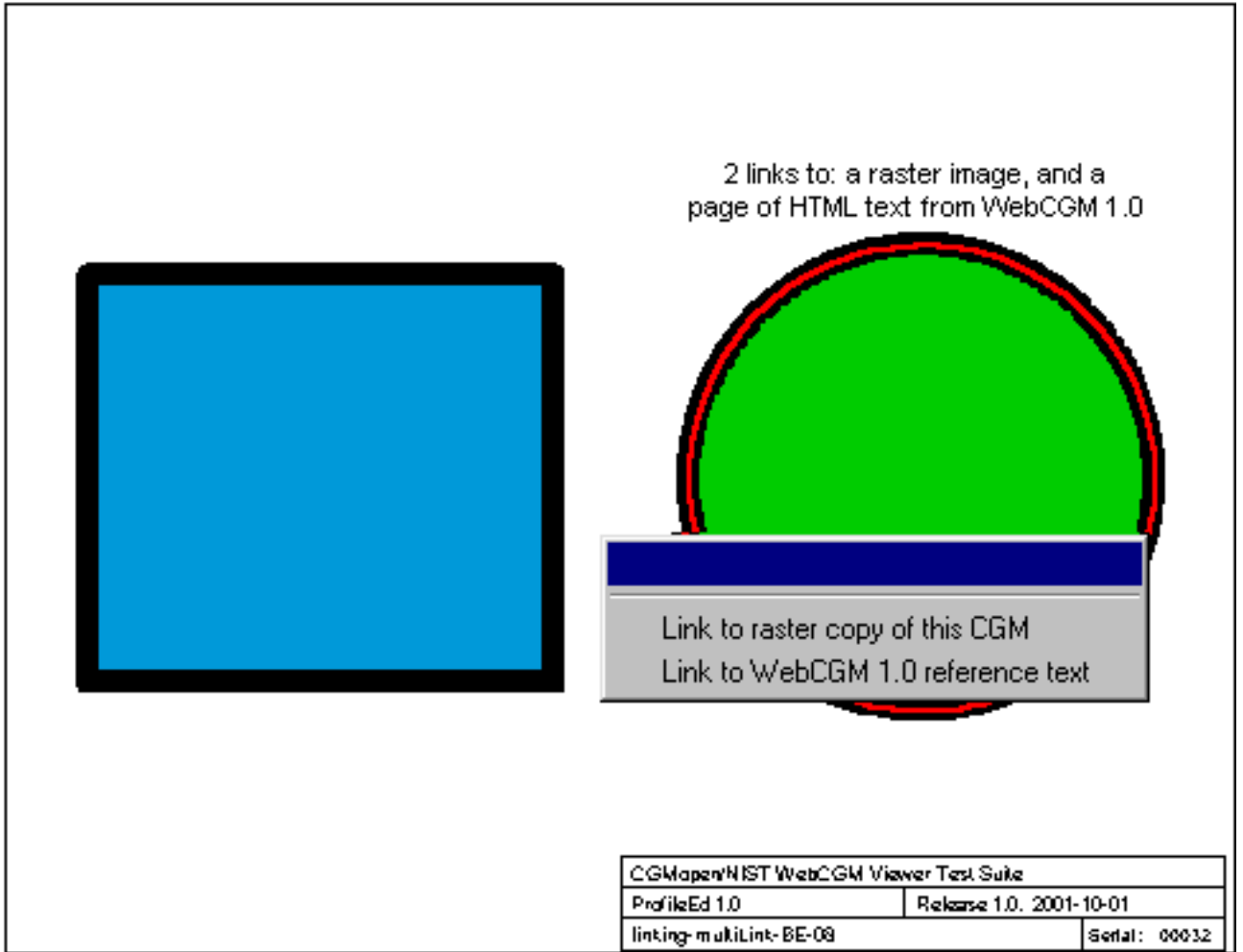
1.18 linking-multiLink-BE-08



linking-multiLink-BE-08-CGM

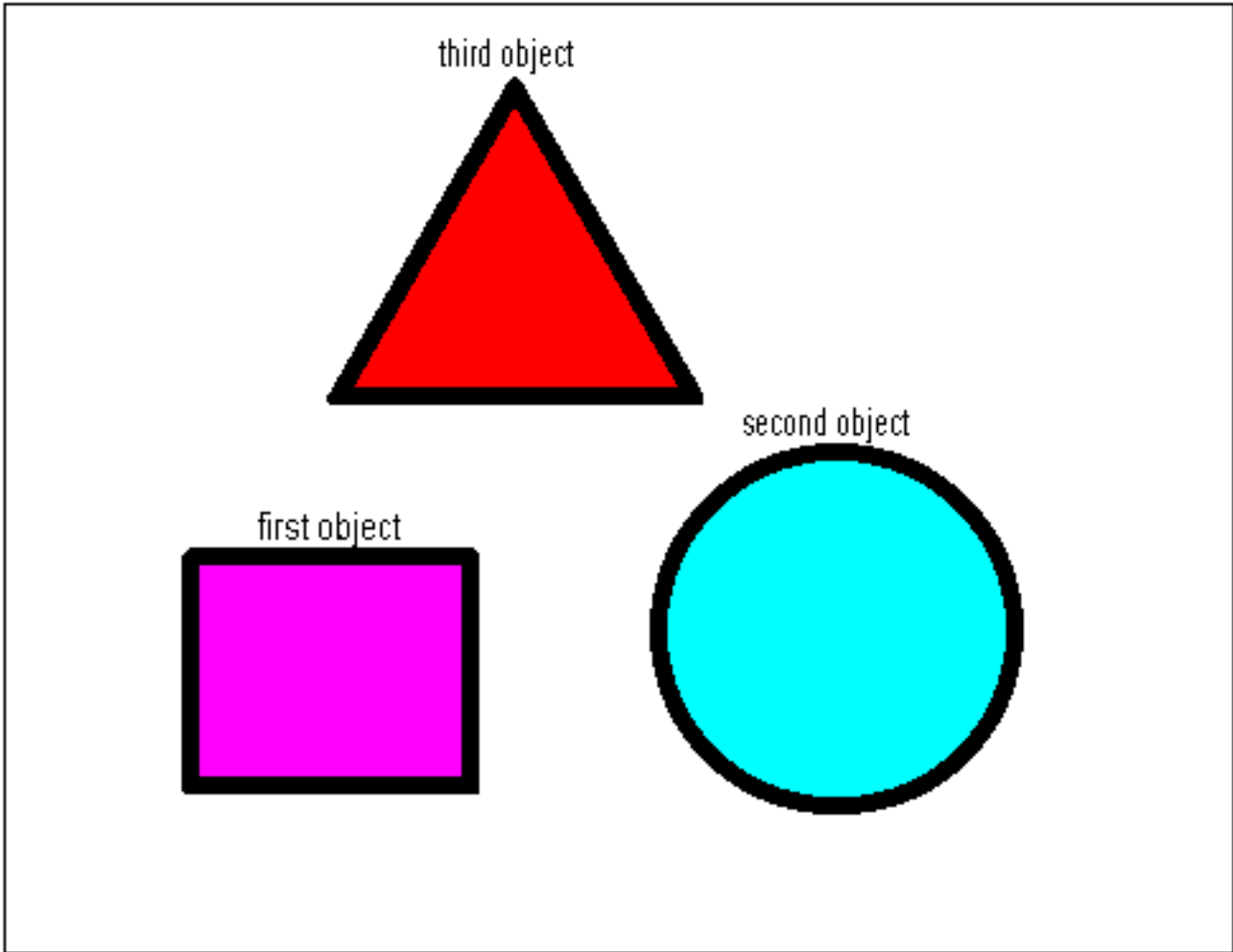
Fig 18, Sheet 1 of 3 linking-multiLink-BE-08





linking-multiLink-BE-08-PNG

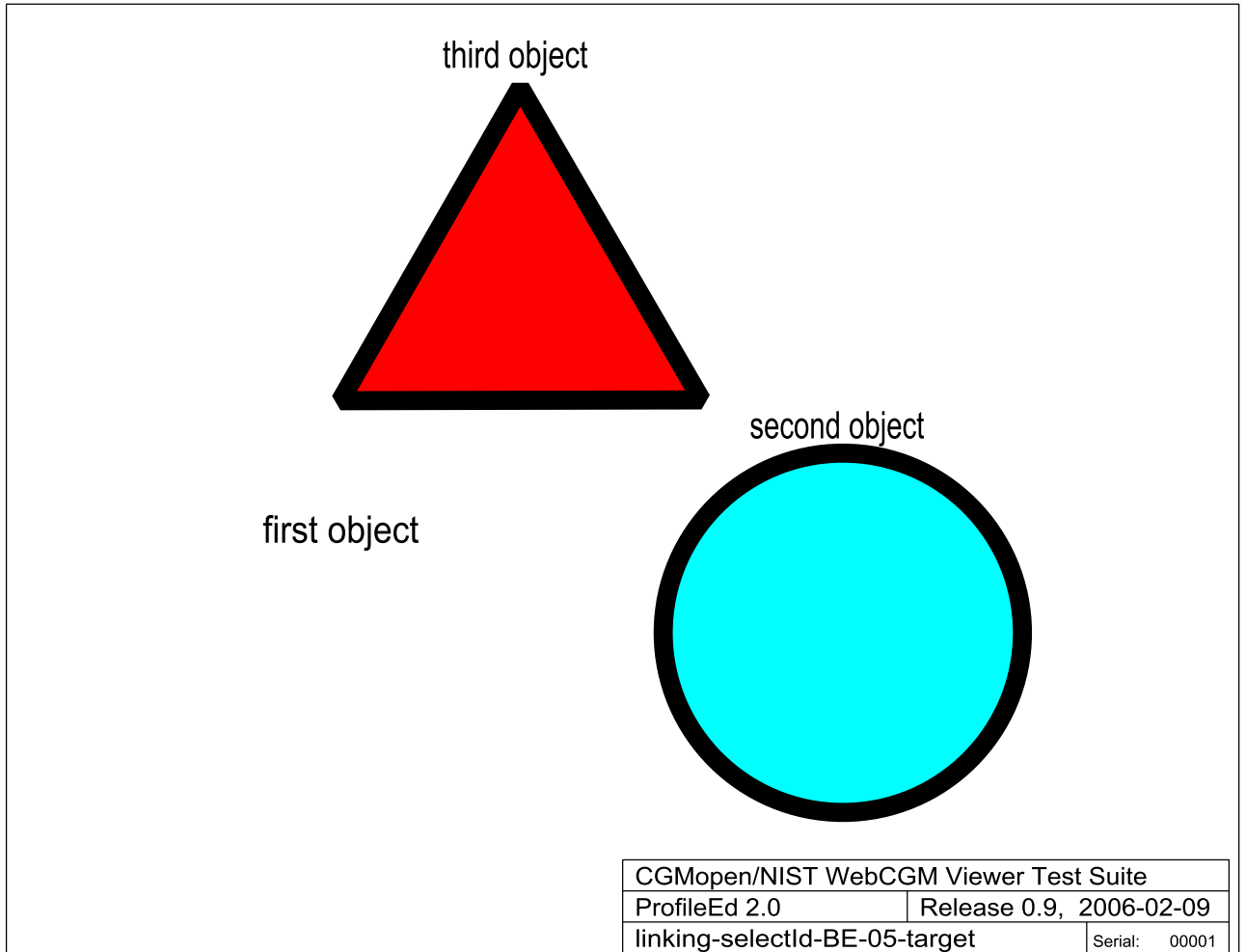
Fig 18, Sheet 2 of 3 linking-multiLink-BE-08



linking-multiLink-BE-08-target-PNG

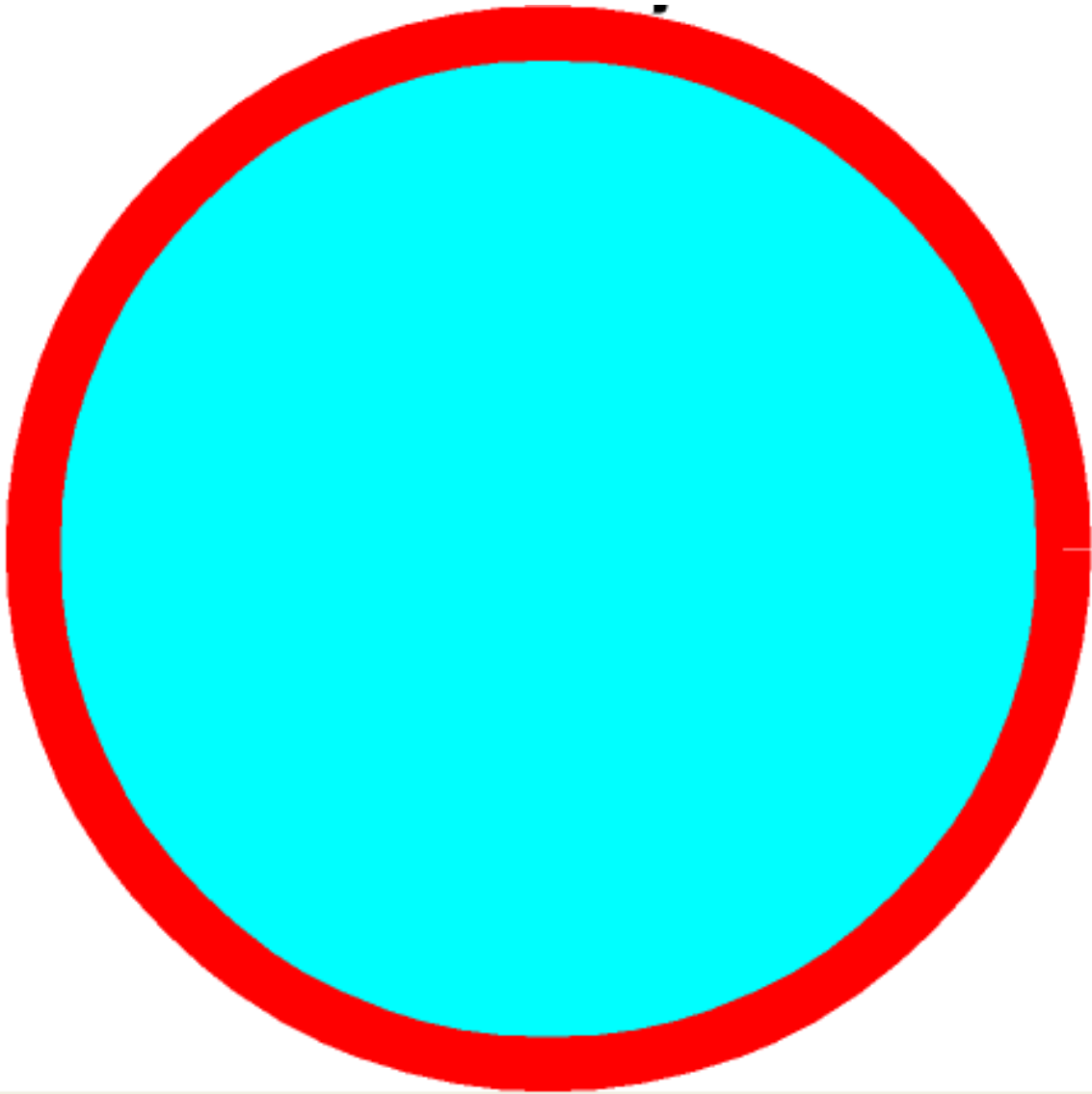
Fig 18, Sheet 3 of 3 linking-multiLink-BE-08

1.19 linking-selectId-BE-05



linking-selectId-BE-05-target-CGM

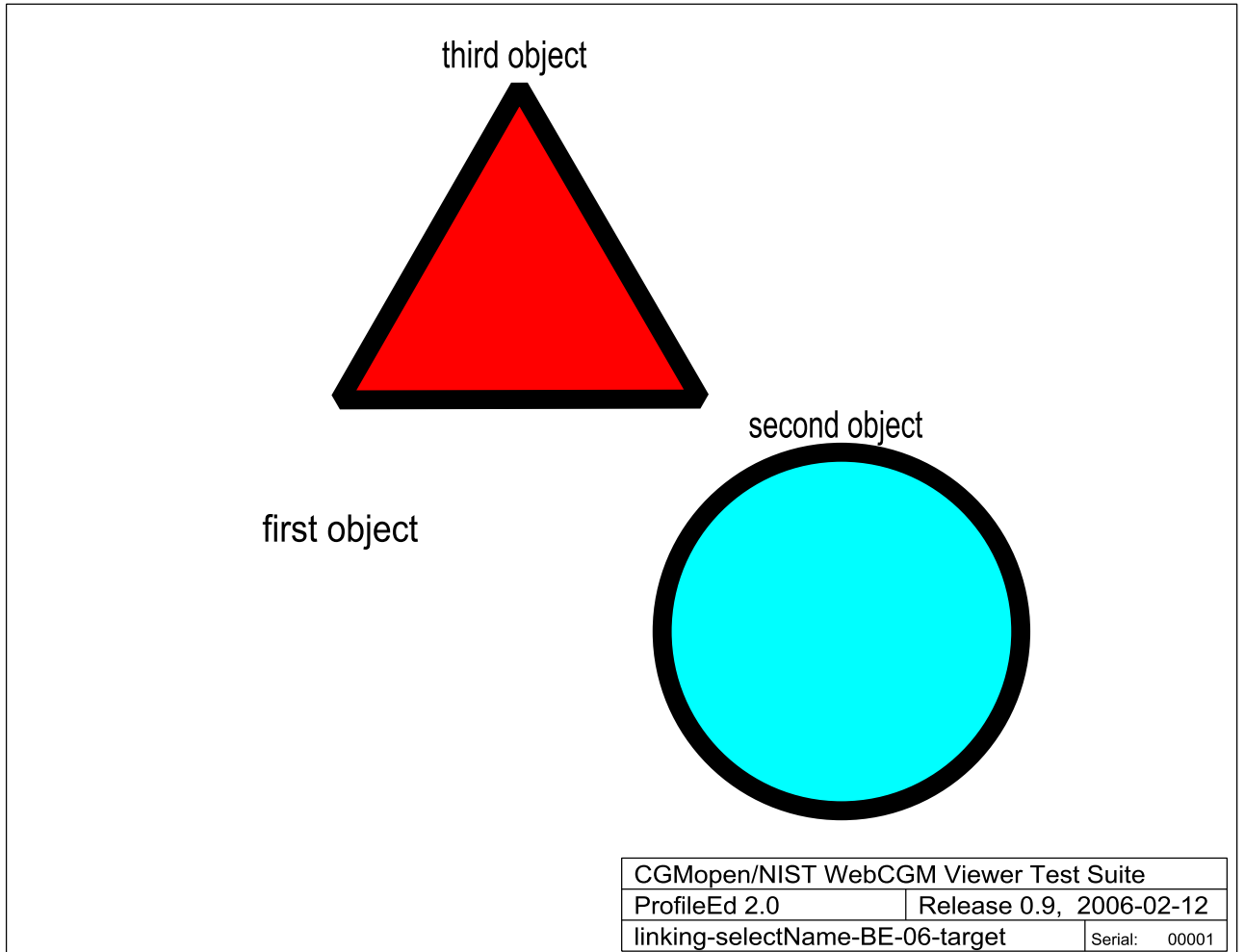
Fig 19, Sheet 1 of 2 linking-selectId-BE-05



linking-selectId-BE-05-PNG

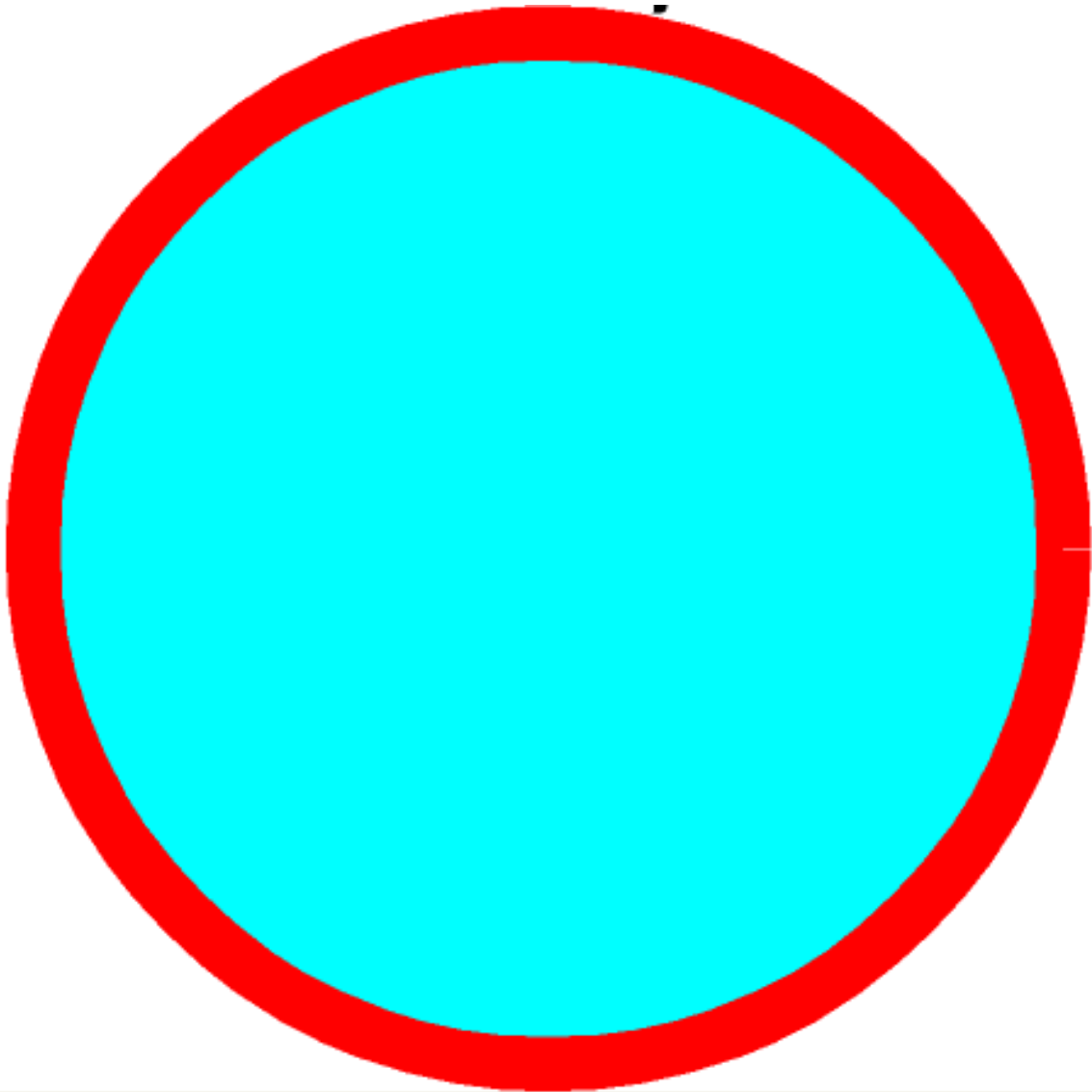
*Fig 19, Sheet 2 of 2 linking-selectId-BE-05*

1.20 linking-selectName-BE-06



linking-selectName-BE-06-target-CGM

Fig 20, Sheet 1 of 2 linking-selectName-BE-06



linking-selectName-BE-06-PNG

*Fig 20, Sheet 2 of 2 linking-selectName-BE-06*

1.21 otherAPS-para-BE-01

Para with only linkuri,  
link to a target CGM

The 'para' APS of WebCGM 1.0  
allows you to group multiple  
single lines of text together and  
to treat them as a single object.

Para with attributes,  
link to a target CGM

In almost all respects, 'para'  
behaves just like the normal  
'grobjct', allowing most of  
the same attributes.

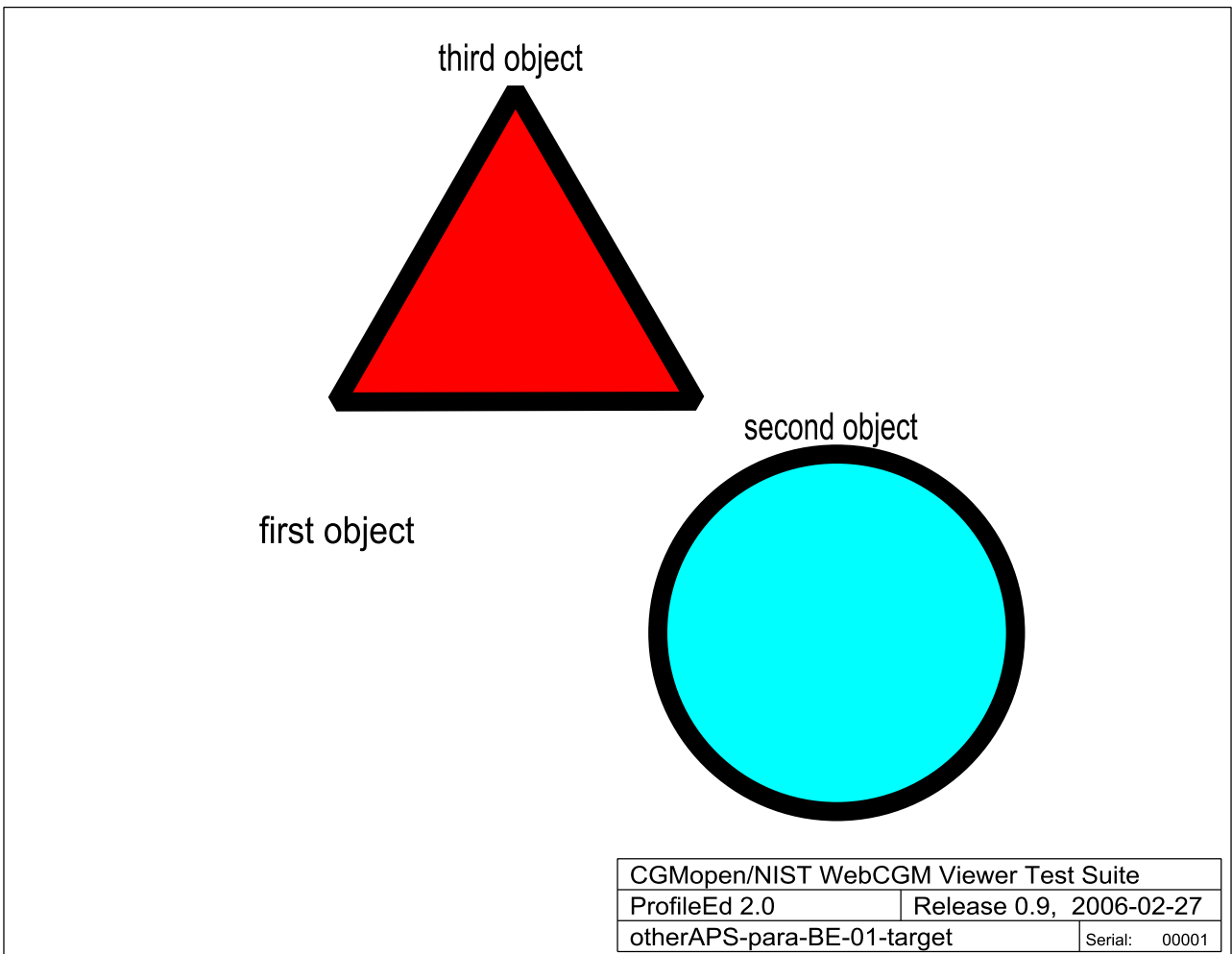
region

viewcontext

CGMopen/NIST WebCGM Viewer Test Suite		
ProfileEd 2.0	Release 0.9, 2006-02-27	
otherAPS-para-BE-01	Serial:	00001

otherAPS-para-BE-01-CGM

Fig 21, Sheet 1 of 4 otherAPS-para-BE-01



otherAPS-para-BE-01-target-CGM

Fig 21, Sheet 2 of 4 otherAPS-para-BE-01



Para with only linkuri,  
link to a target CGM

The 'para' APS of WebCGM 1.0  
allows you to group multiple  
single lines of text together and  
to treat them as a single object.

Para with attributes,  
link to a target CGM

In almost all respects, 'para'  
behaves just like the normal  
'grobect', allowing most of  
the same attributes.

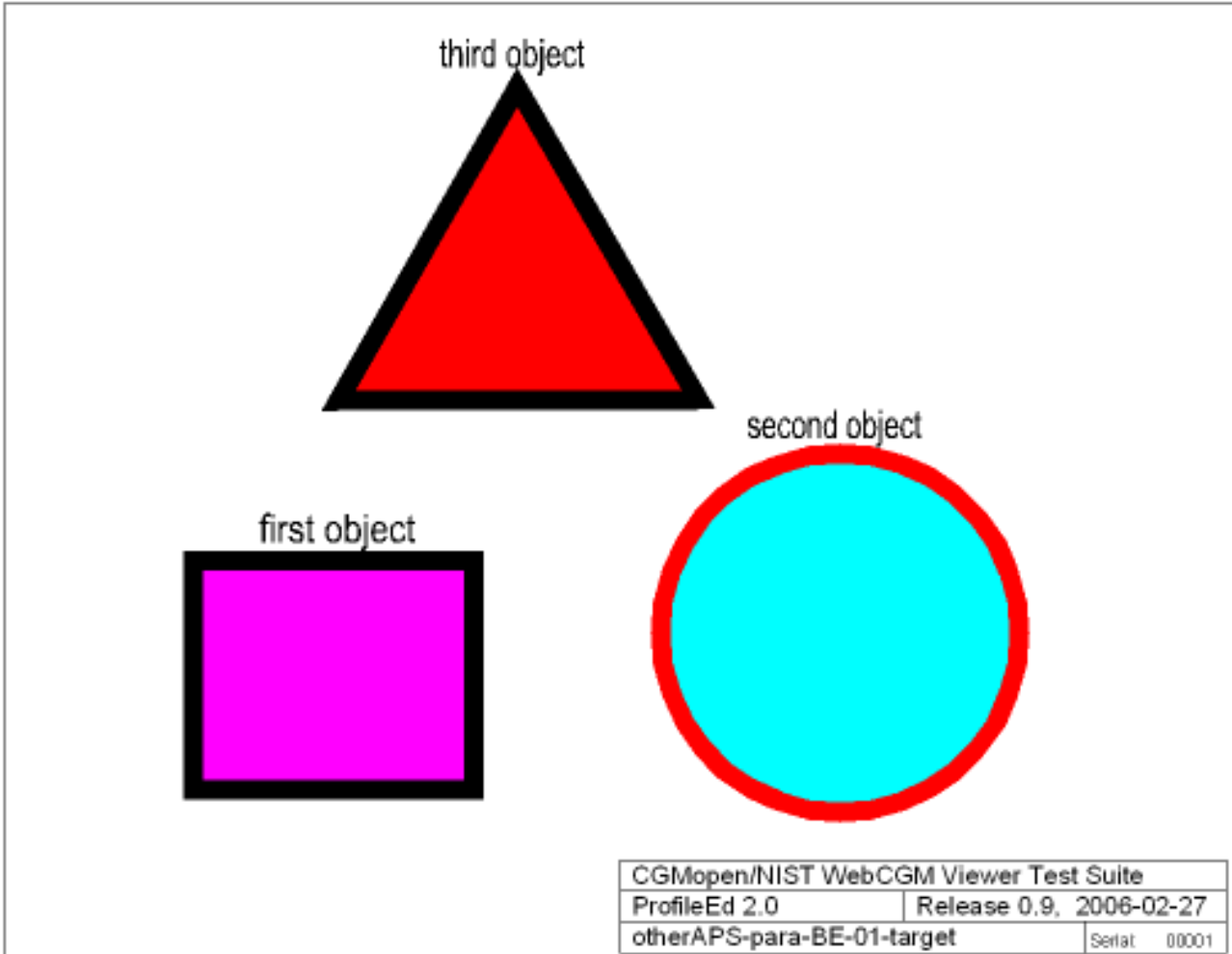
region

viewcontext

CGMOpen/NIST WebCGM Viewer Test Suite		
ProfileEd 1.0	Release 1.0, 2001-10-01	
otherAPS-para-BE-01	Serial:	00032

otherAPS-para-BE-01-test-CGM

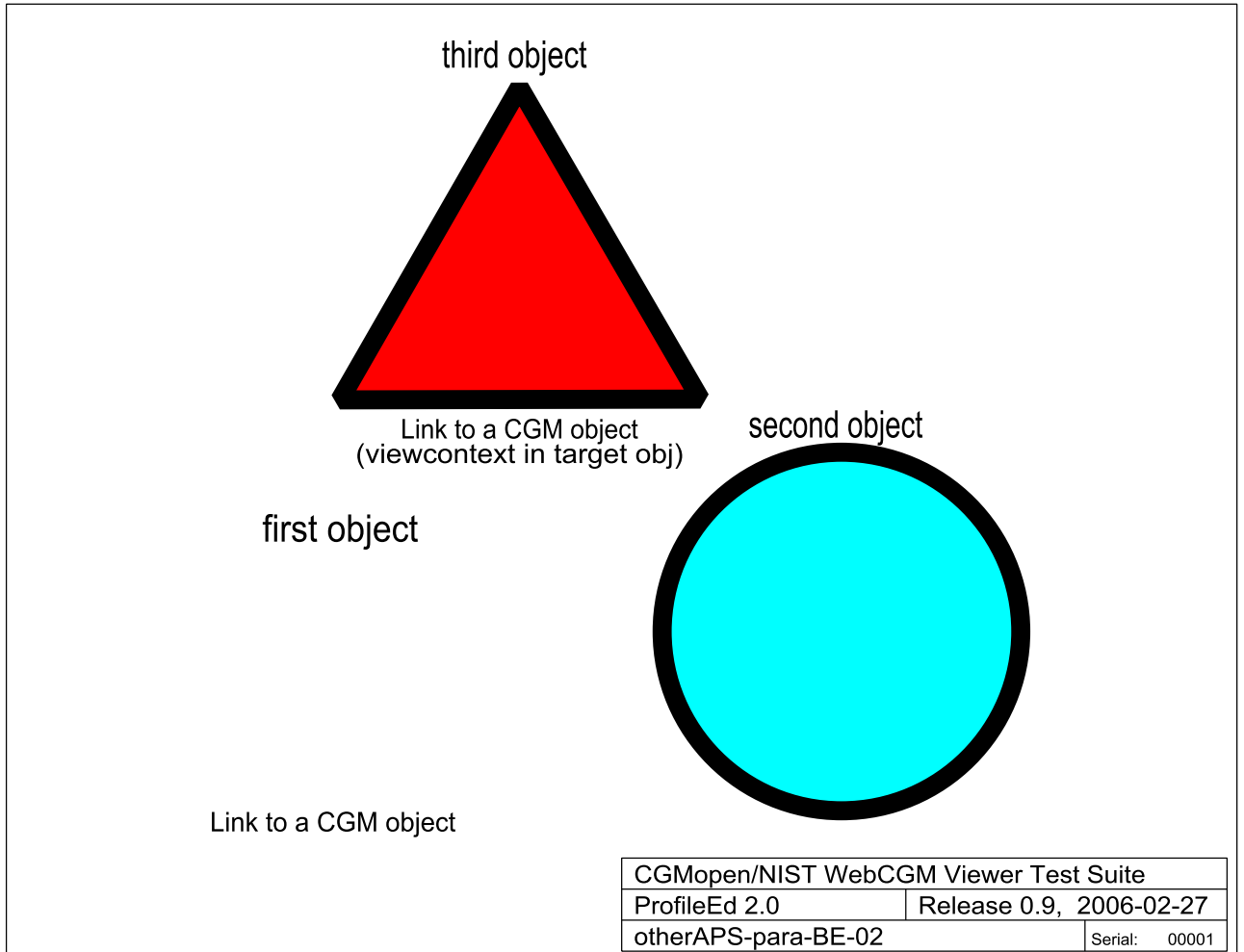
Fig 21, Sheet 3 of 4 otherAPS-para-BE-01



otherAPS-para-BE-01-PNG

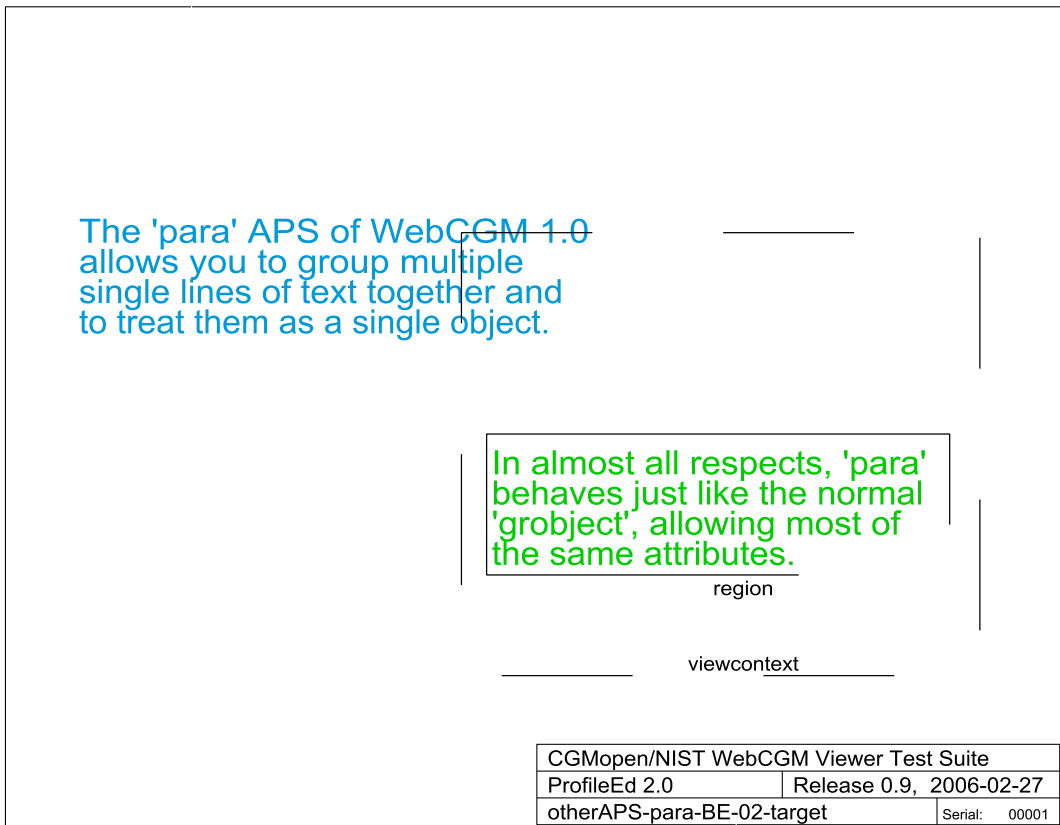
Fig 21, Sheet 4 of 4 otherAPS-para-BE-01

1.22 otherAPS-para-BE-02



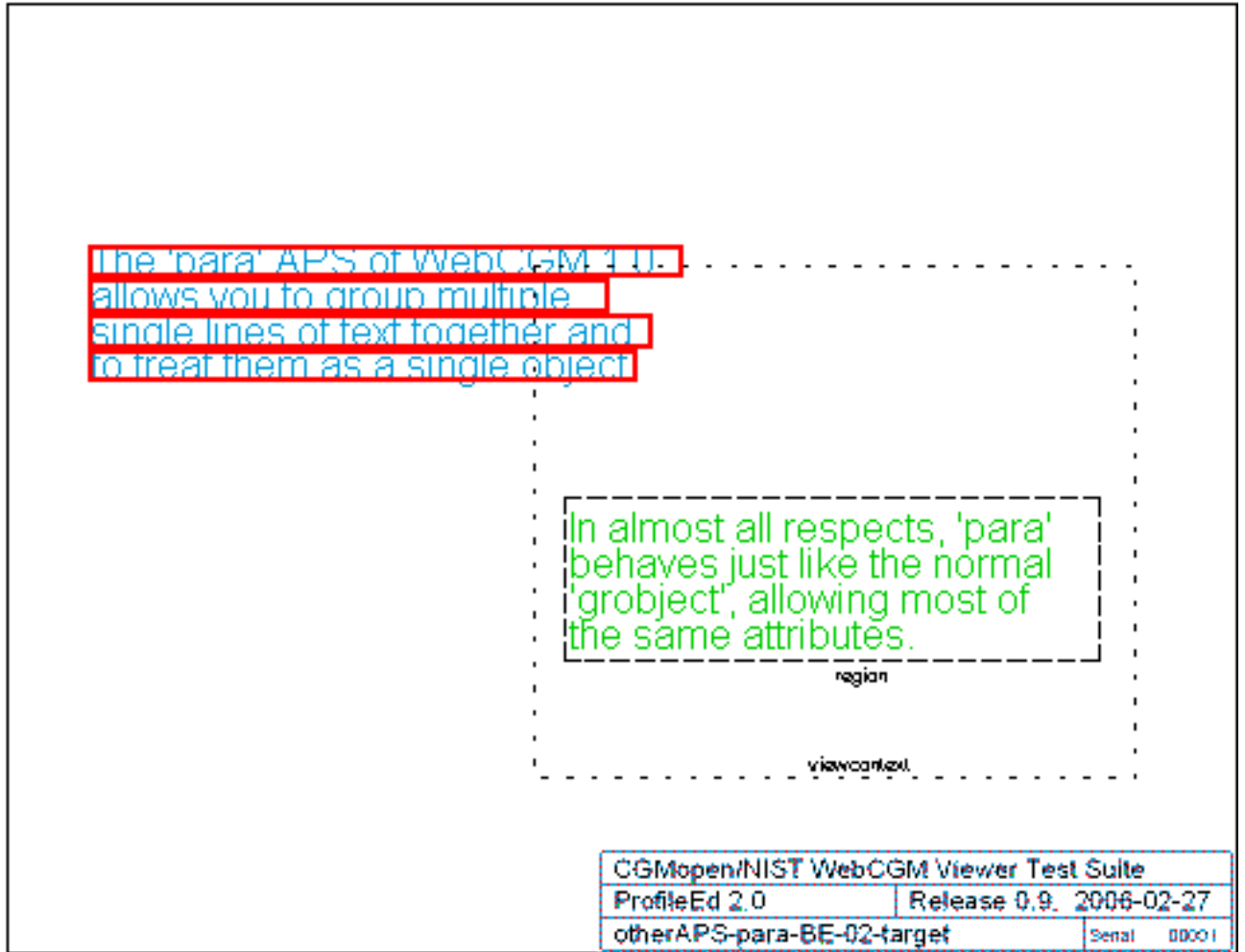
otherAPS-para-BE-02-CGM

Fig 22, Sheet 1 of 3 otherAPS-para-BE-02



otherAPS-para-BE-02-target-CGM

Fig 22, Sheet 2 of 3 otherAPS-para-BE-02



otherAPS-para-BE-02-PNG

Fig 22, Sheet 3 of 3 otherAPS-para-BE-02

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## WebCGM 2.1 Test Suite

### WebCGM10 - CGM v1-3

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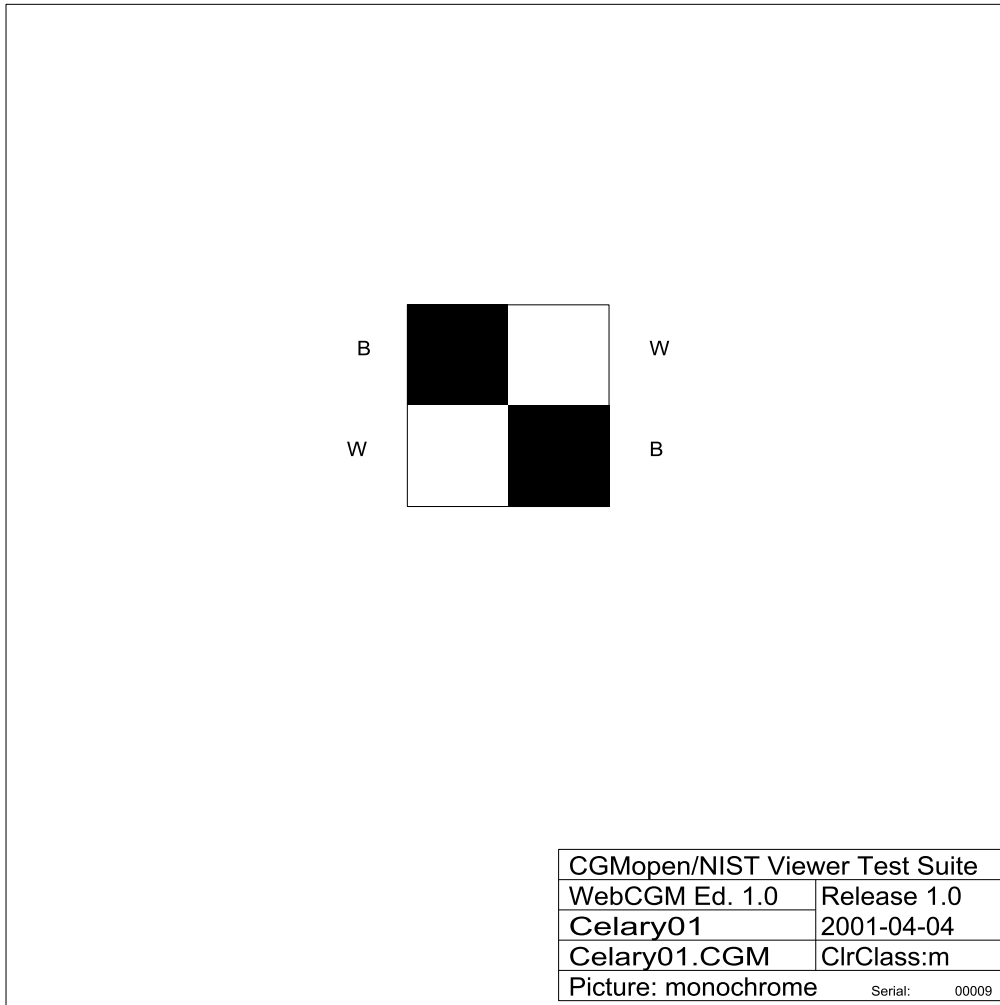
Data module / Technical publication	Title
None	

***Description***

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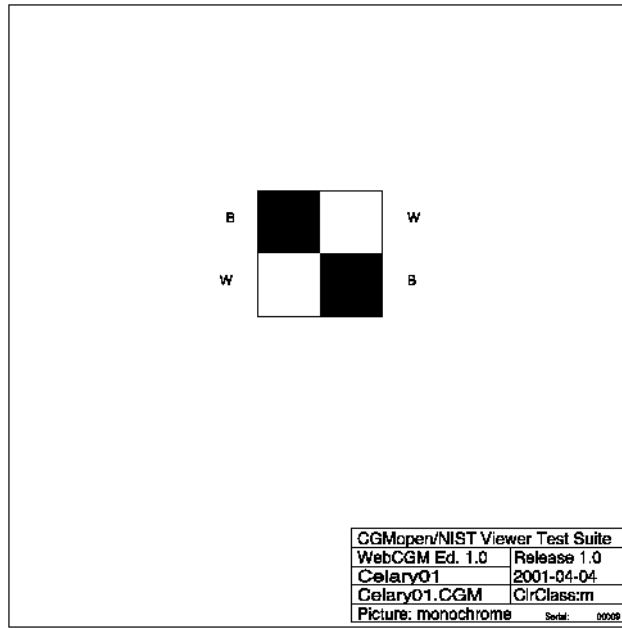
## 1.1 Cell Array Element

1.1.1 CELARY01



CELARY01-CGM

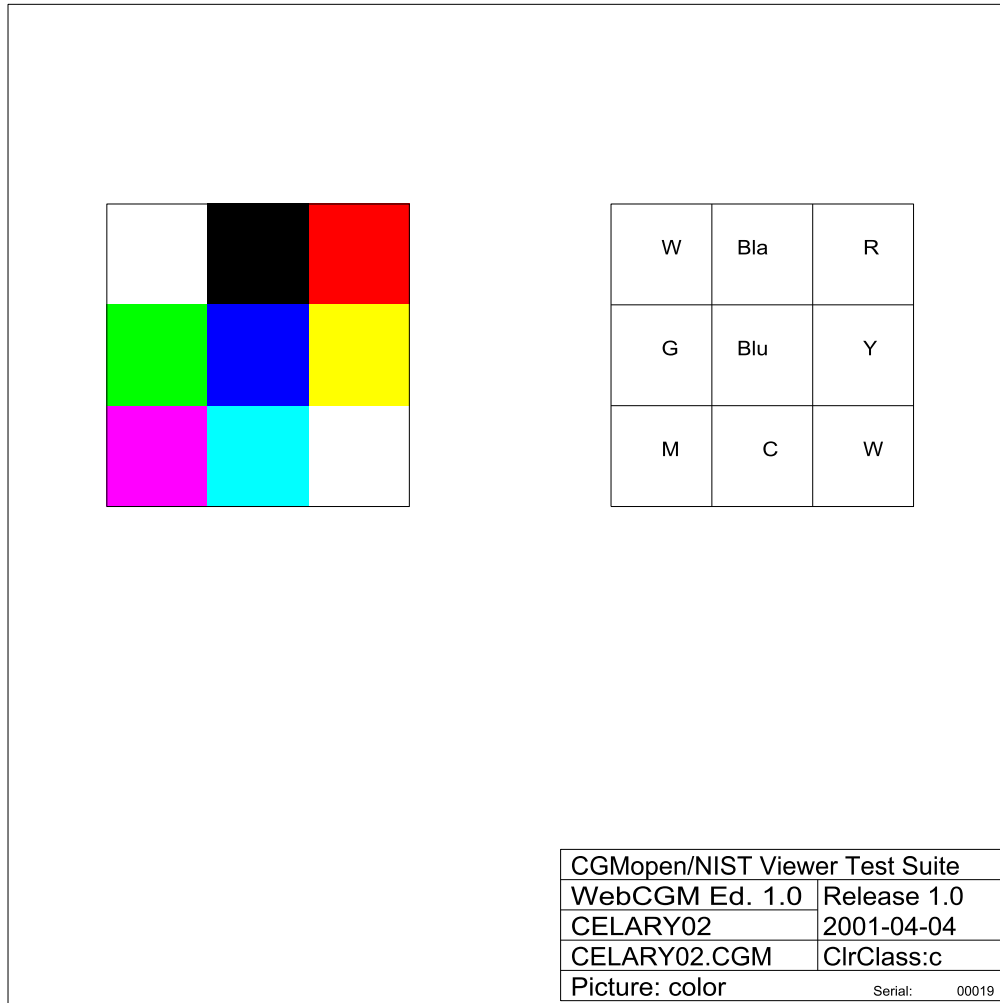
Fig 1, Sheet 1 of 2 CELARY01



CELARY01-PNG

Fig 1, Sheet 2 of 2 CELARY01

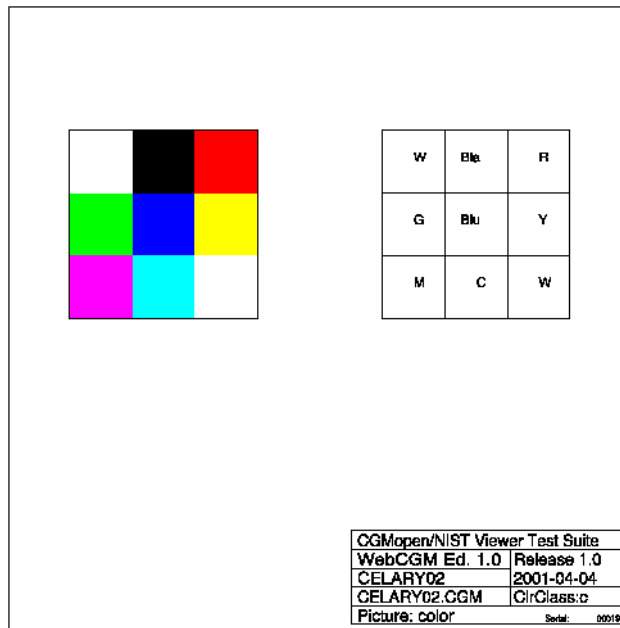
1.1.2 CELARY02



CELARY02-CGM

Fig 2, Sheet 1 of 2 CELARY02

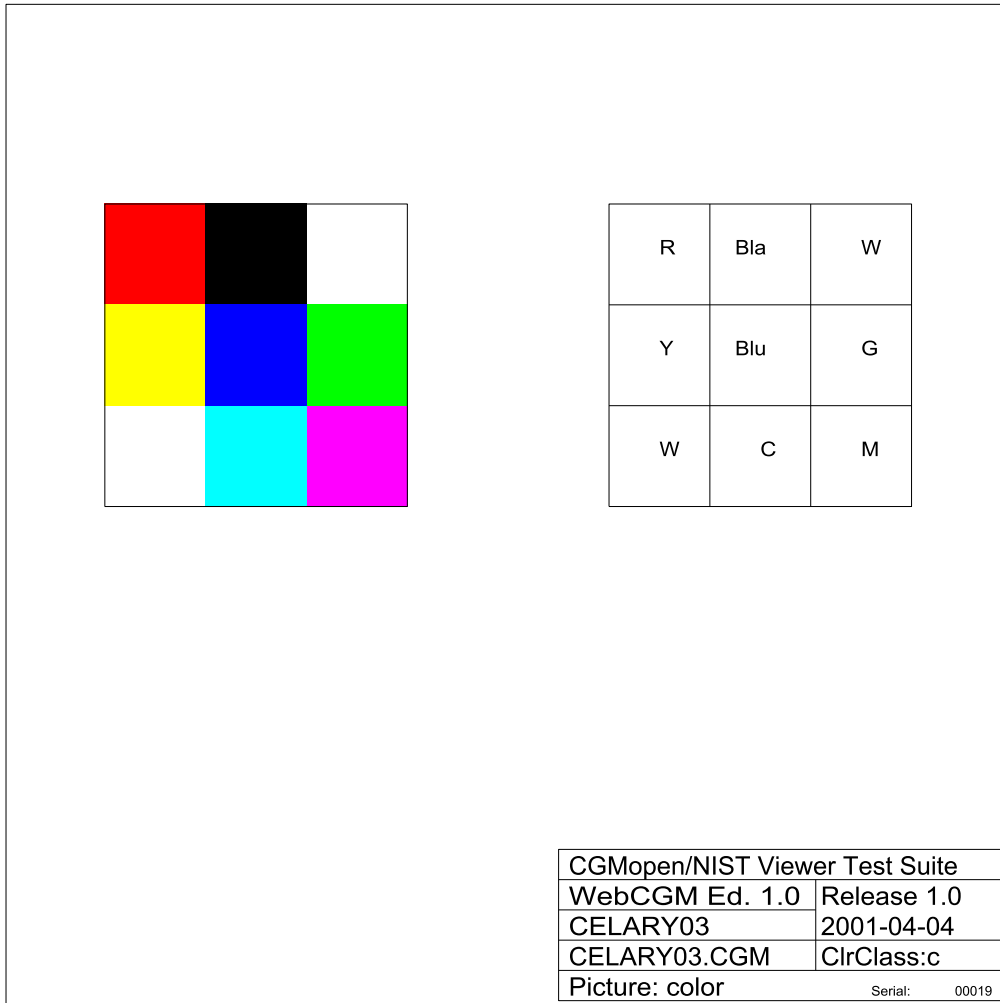




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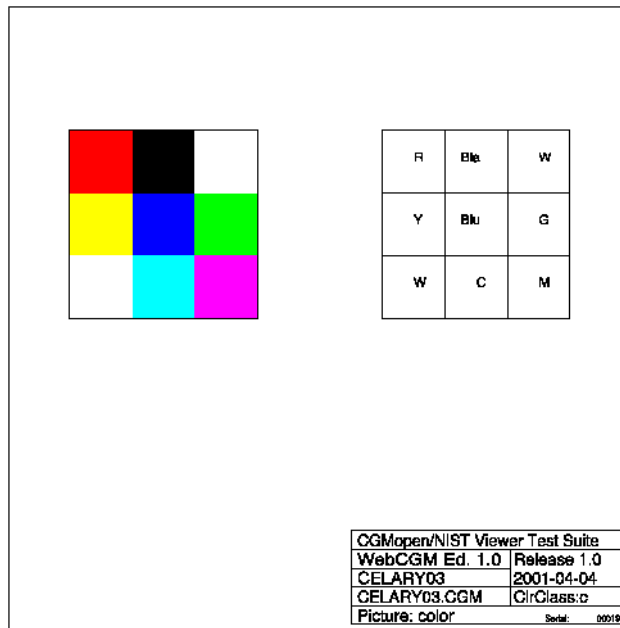
Fig 2, Sheet 2 of 2 CELARY02

1.1.3 CELARY03



CELARY03-CGM

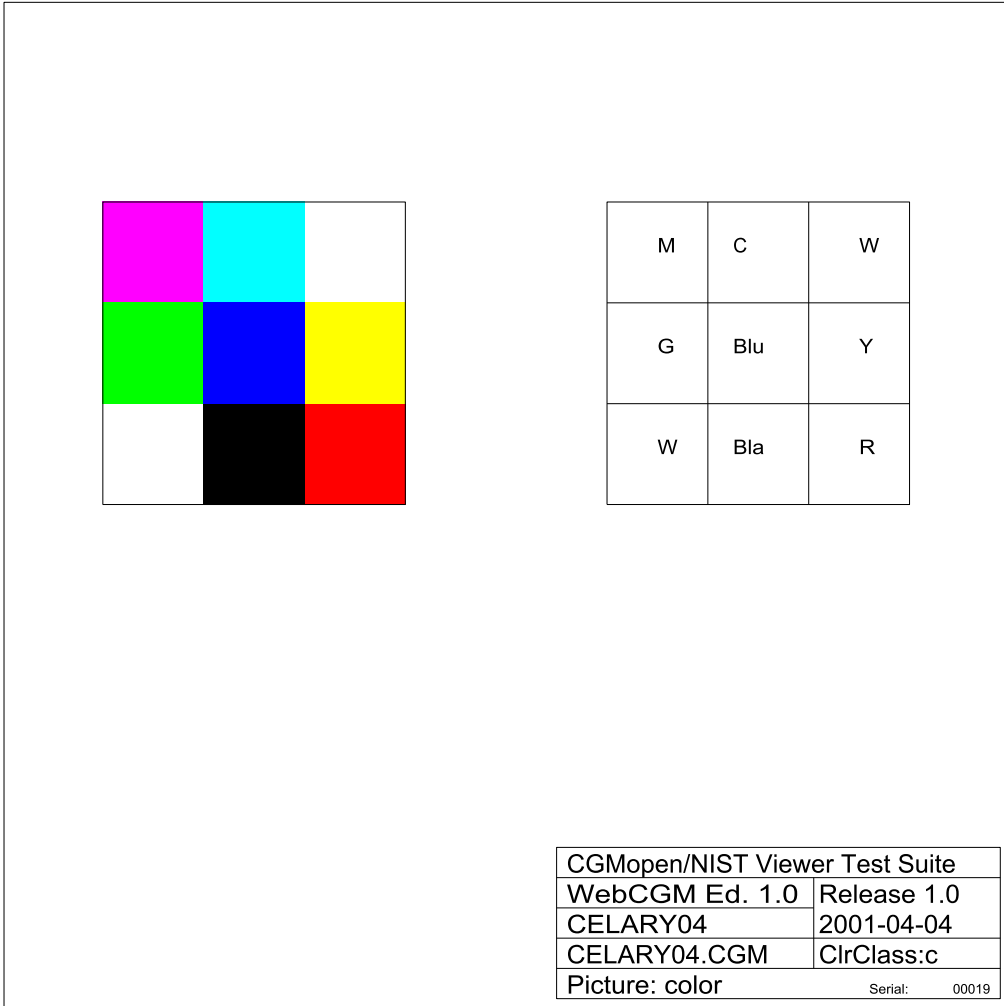
Fig 3, Sheet 1 of 2 CELARY03



CELARY03-PNG

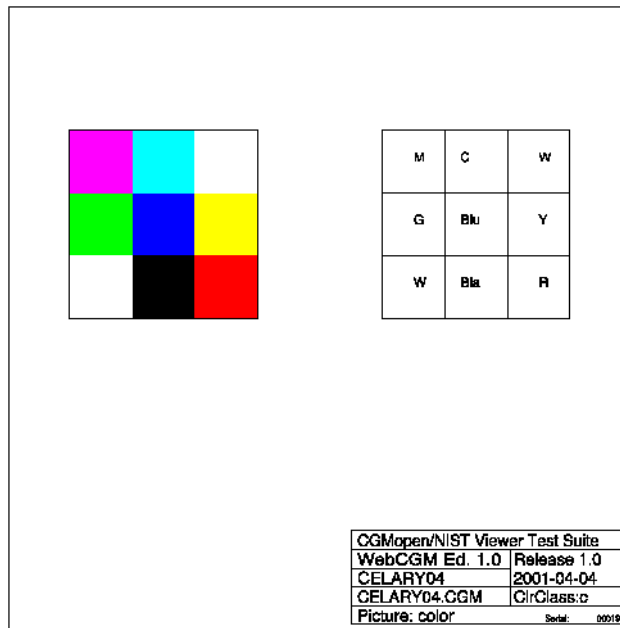
Fig 3, Sheet 2 of 2 CELARY03

1.1.4 CELARY04



CELARY04-CGM

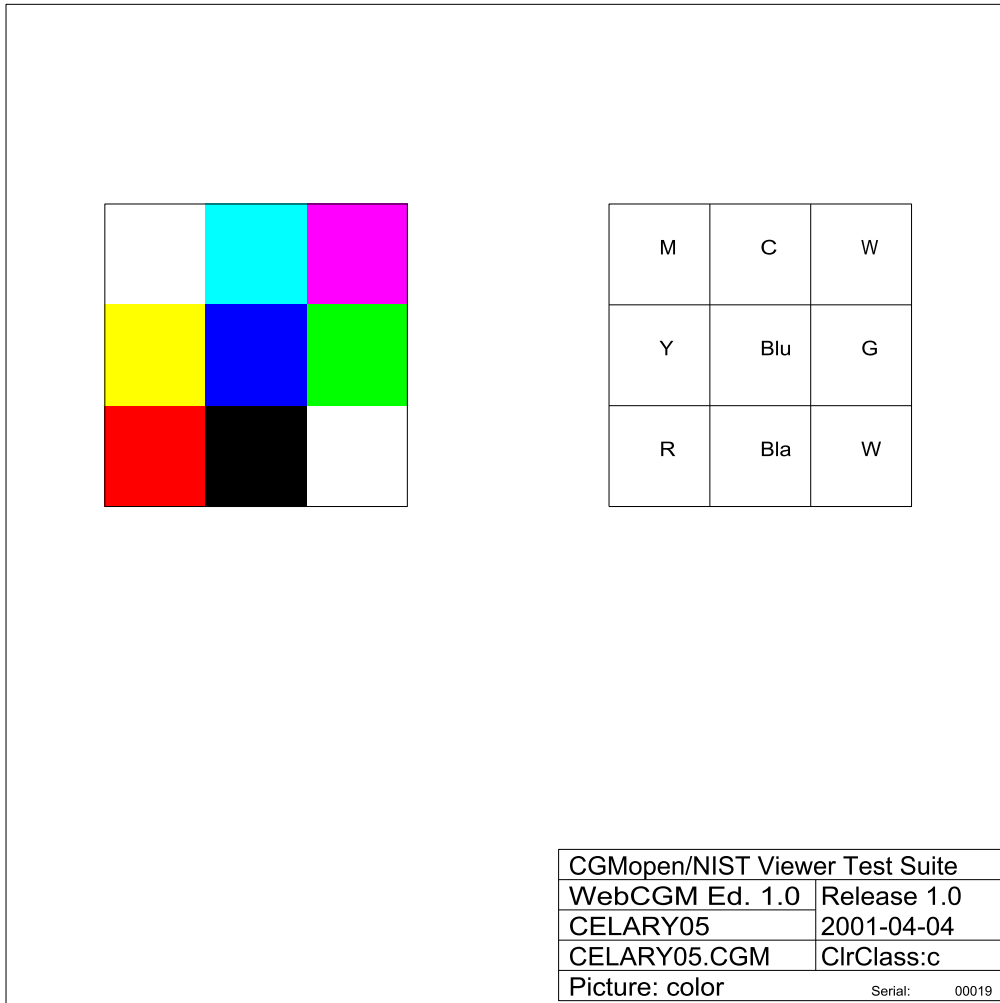
Fig 4, Sheet 1 of 2 CELARY04



CELARY04-PNG

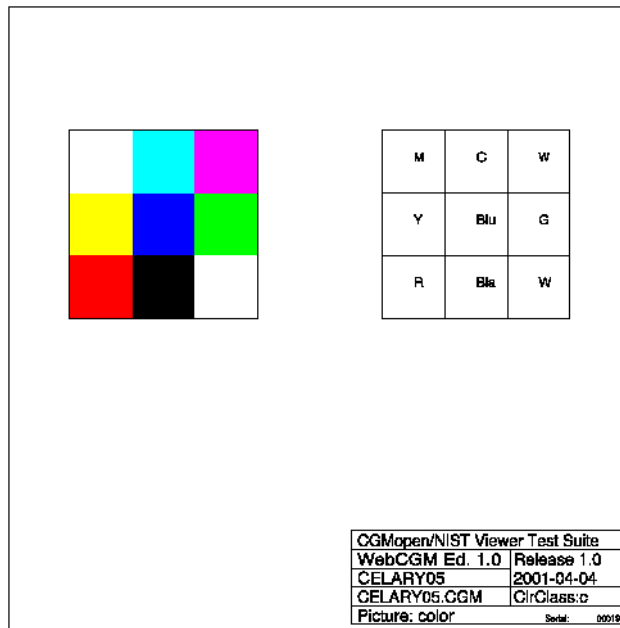
Fig 4, Sheet 2 of 2 CELARY04

1.1.5 CELARY05



CELARY05-CGM

Fig 5, Sheet 1 of 2 CELARY05



CELARY05-PNG

Fig 5, Sheet 2 of 2 CELARY05

1.1.6 CELARY06



CGMopen/NIST Viewer Test Suite	
WebCGM Ed. 1.0	Release 1.0
CELARY06	2001-04-04
CELARY06.CGM	ClrClass:c
Picture: color	Serial: 00021

CELARY06-CGM

Fig 6, Sheet 1 of 2 CELARY06





CELARY06-PNG

Fig 6, Sheet 2 of 2 CELARY06



1.1.7 CELARY07



CELARY07-CGM

Fig 7, Sheet 1 of 2 CELARY07

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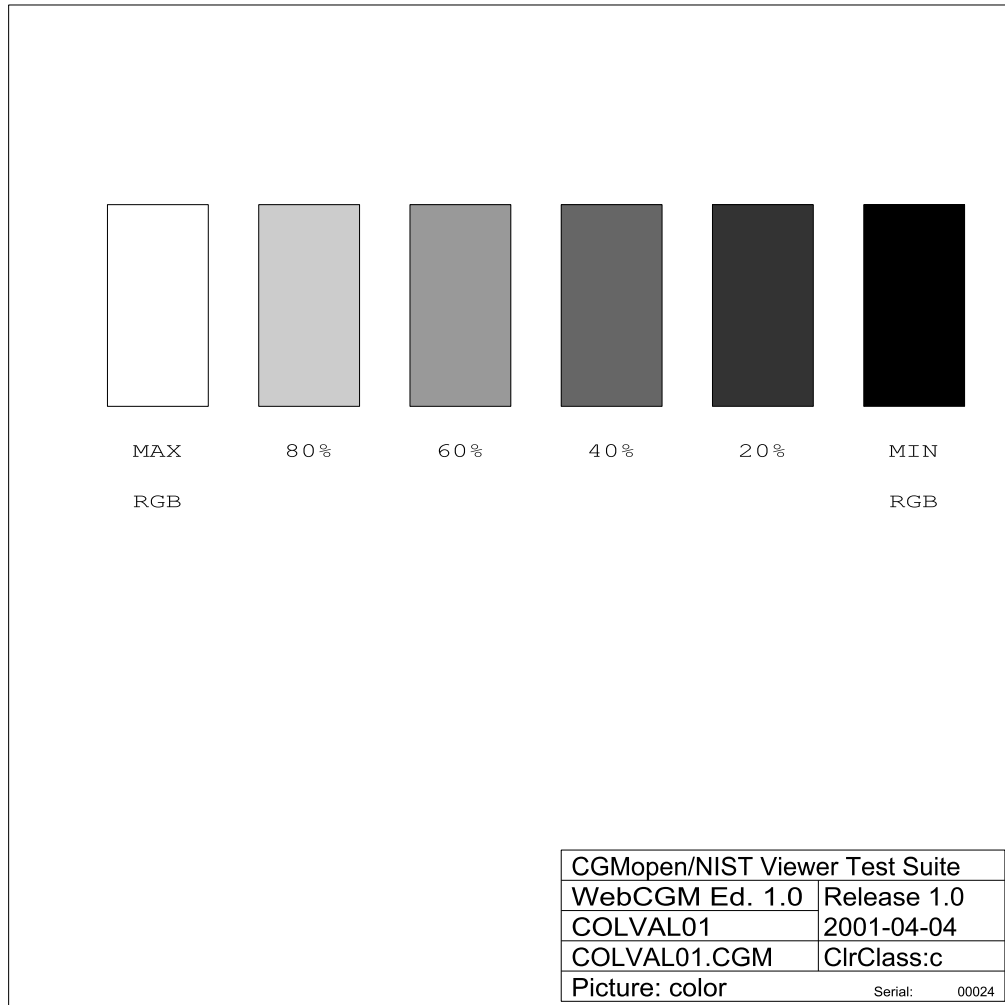


CELARY07-PNG

Fig 7, Sheet 2 of 2 CELARY07

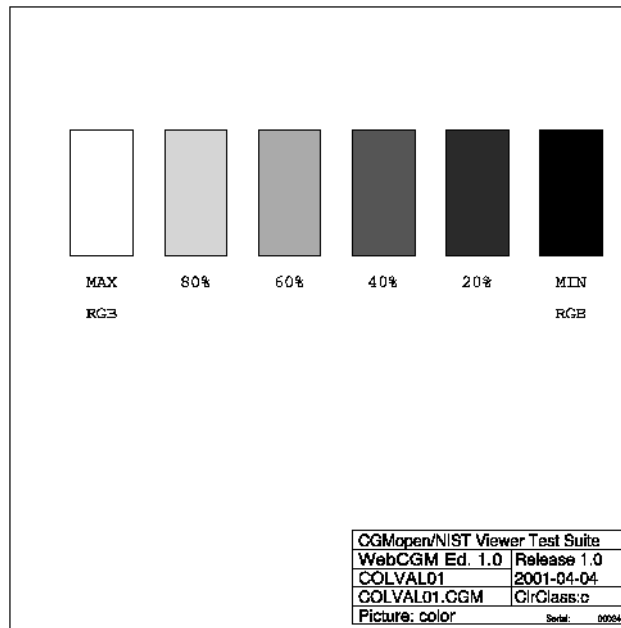
1.2 Colour

1.2.1 COLVAL01



COLVAL01-CGM

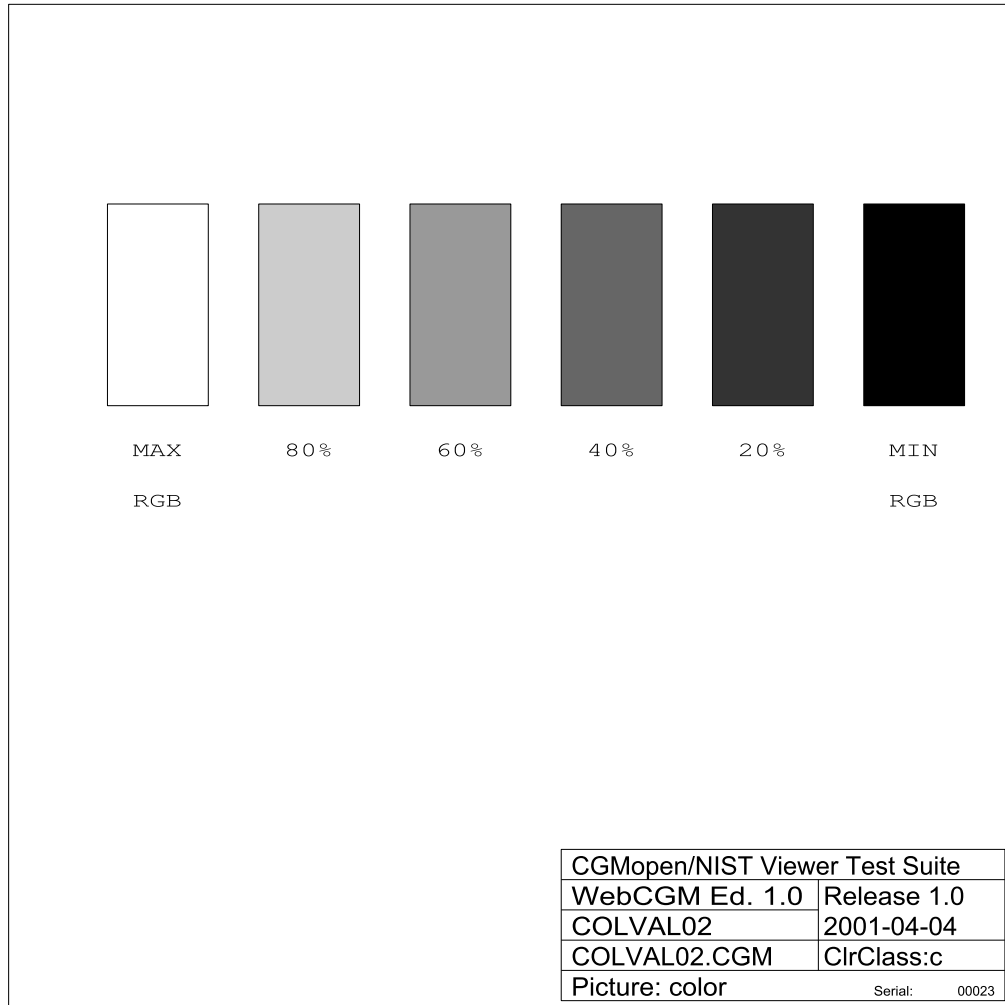
Fig 8, Sheet 1 of 2 COLVAL01



COLVAL01-PNG

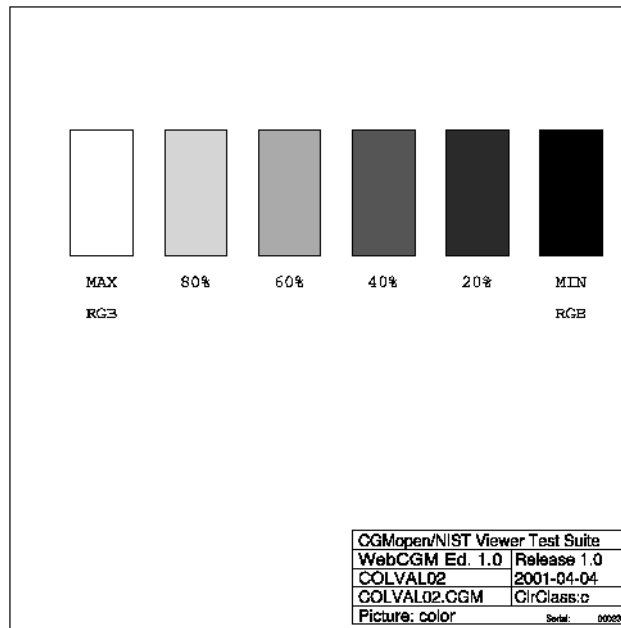
Fig 8, Sheet 2 of 2 COLVAL01

1.2.2 COLVAL02



COLVAL02-CGM

Fig 9, Sheet 1 of 2 COLVAL02

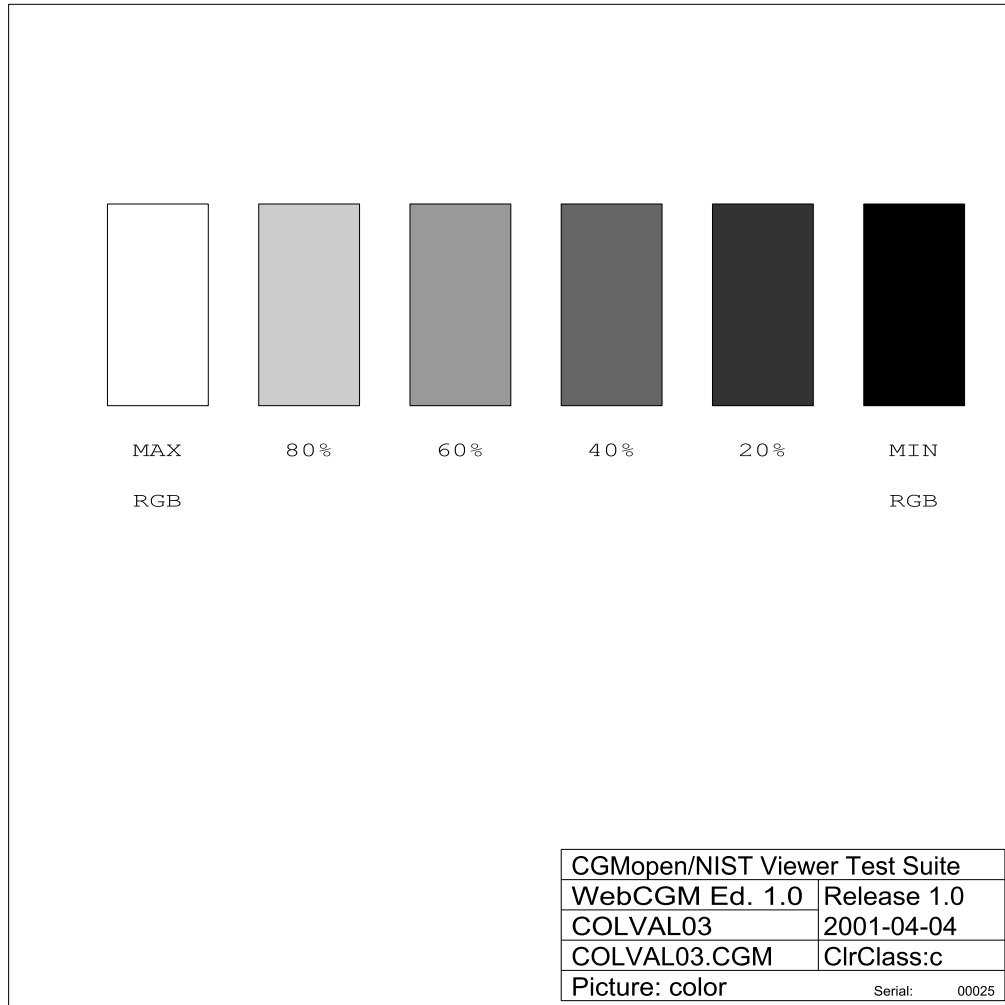


COLVAL02-PNG

Fig 9, Sheet 2 of 2 COLVAL02

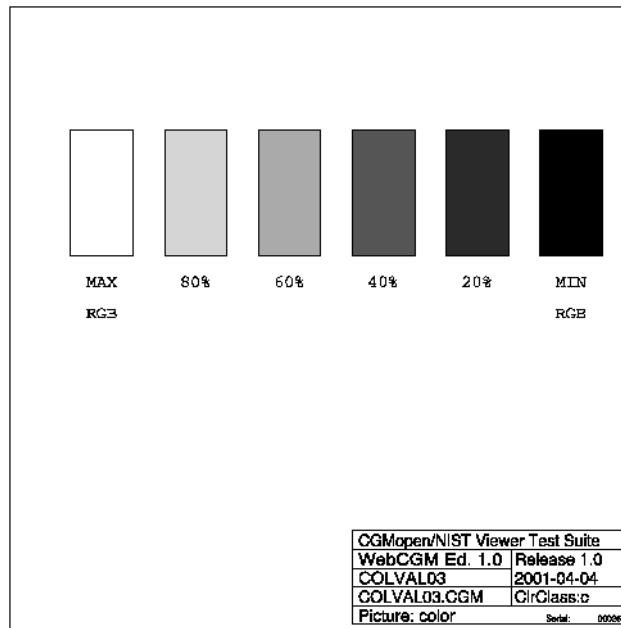


1.2.3 COLVAL03



COLVAL03-CGM

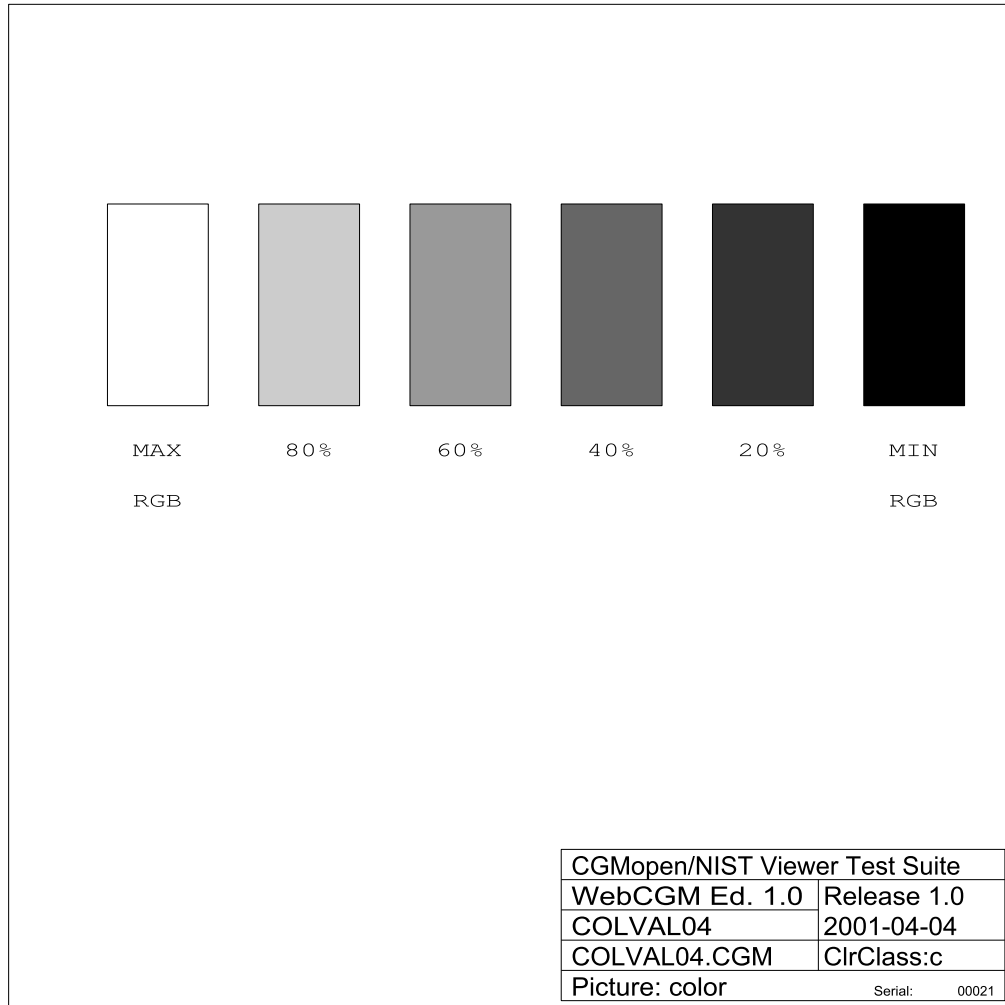
Fig 10, Sheet 1 of 2 COLVAL03



COLVAL03-PNG

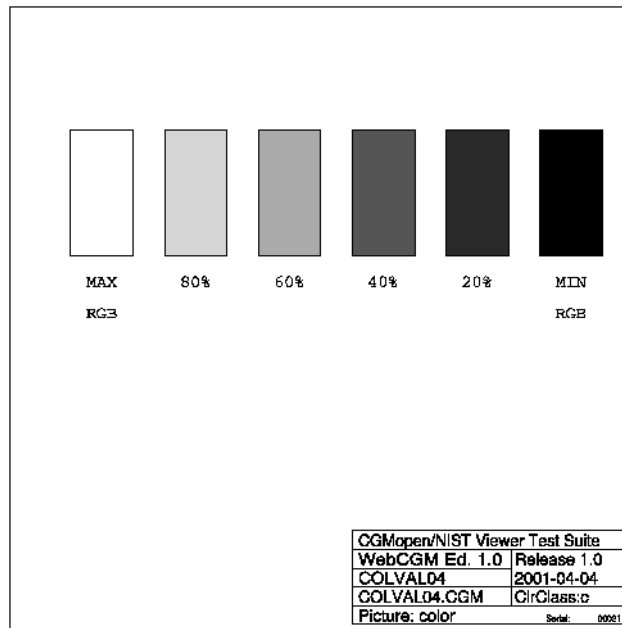
Fig 10, Sheet 2 of 2 COLVAL03

1.2.4 COLVAL04



COLVAL04-CGM

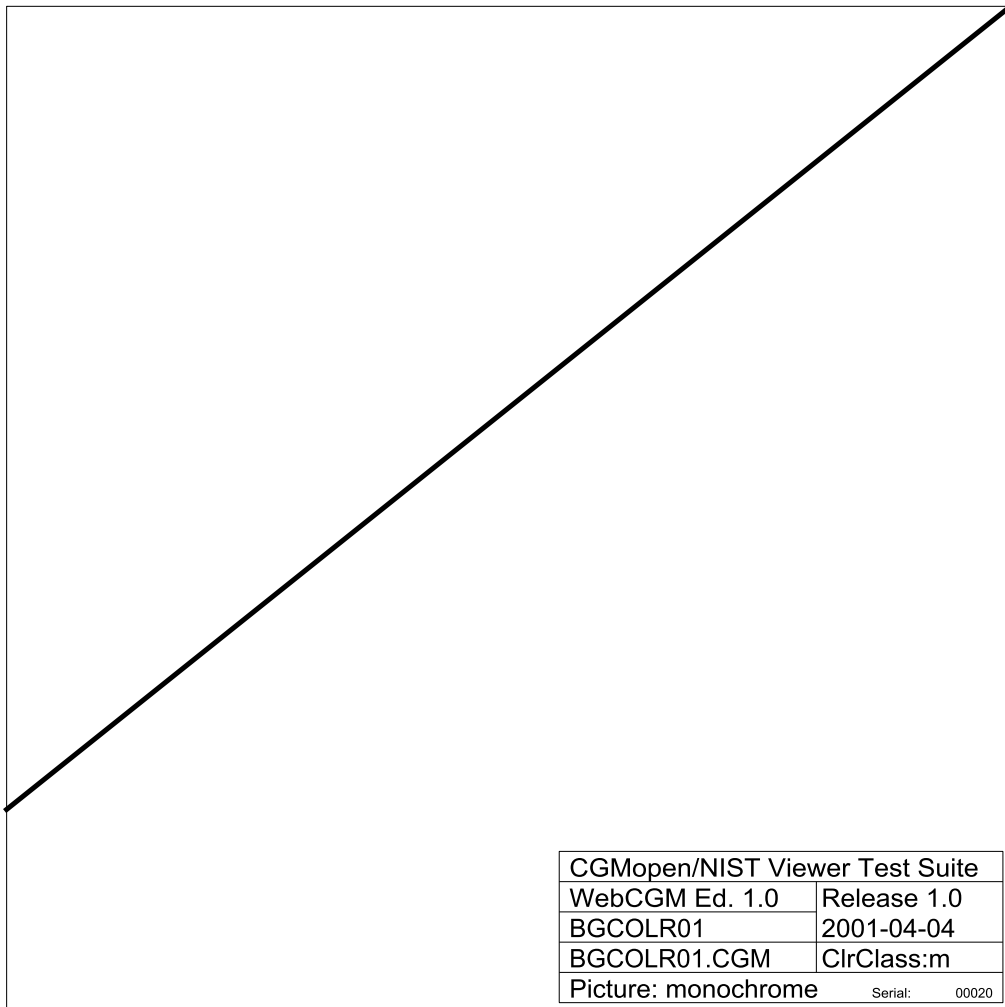
Fig 11, Sheet 1 of 2 COLVAL04



COLVAL04-PNG

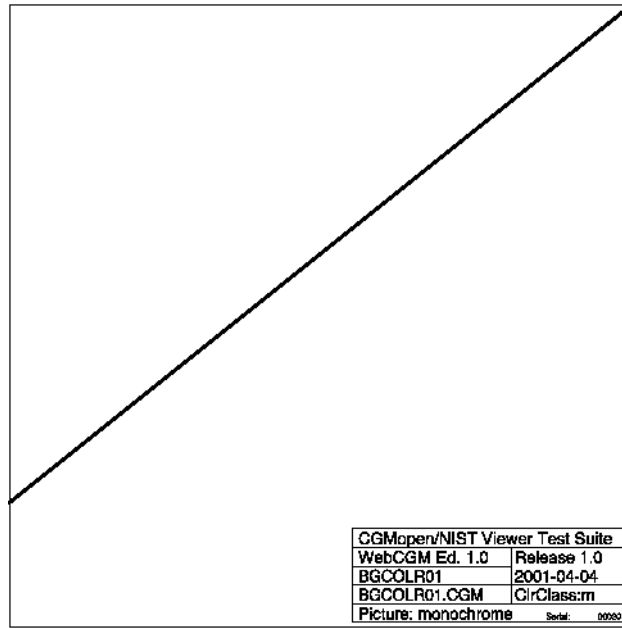
Fig 11, Sheet 2 of 2 COLVAL04

1.2.5 BGCOLOR01



BGCOLOR01-CGM

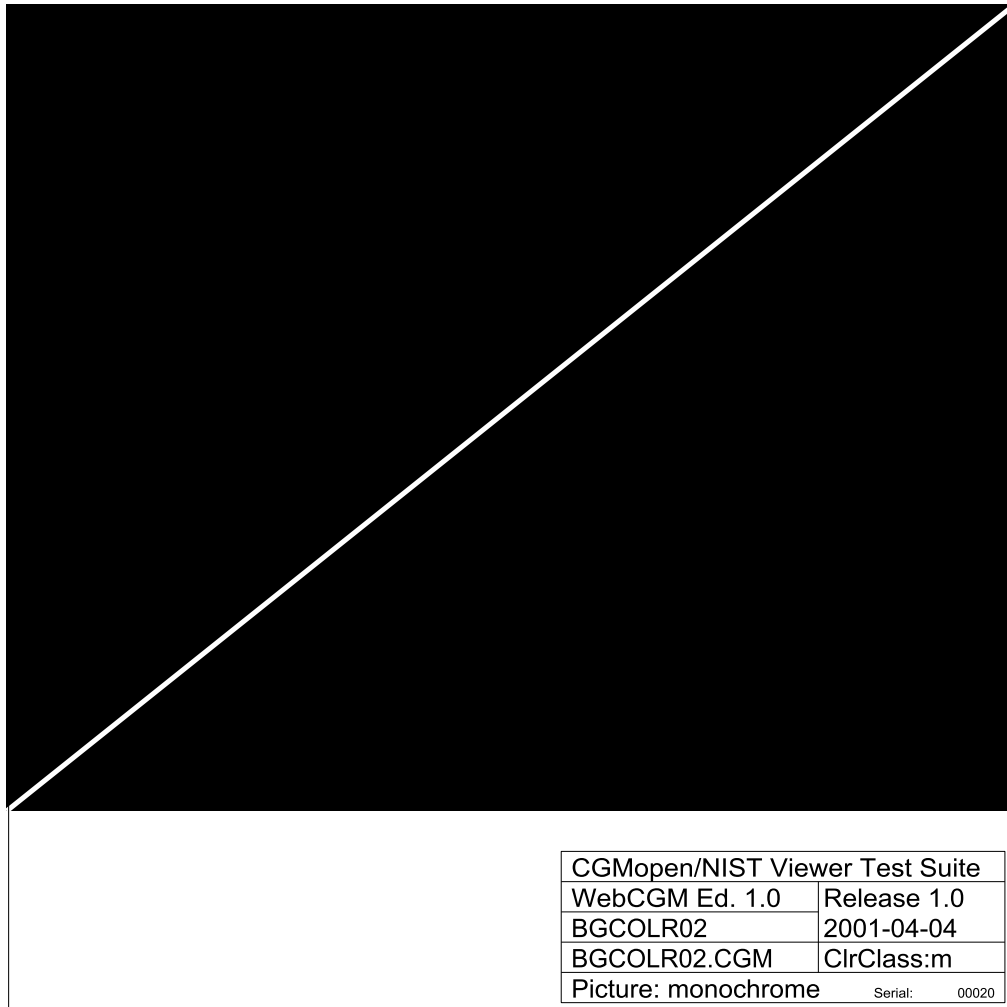
Fig 12, Sheet 1 of 2 BGCOLOR01



BGCOLOR01-PNG

Fig 12, Sheet 2 of 2 BGCOLOR01

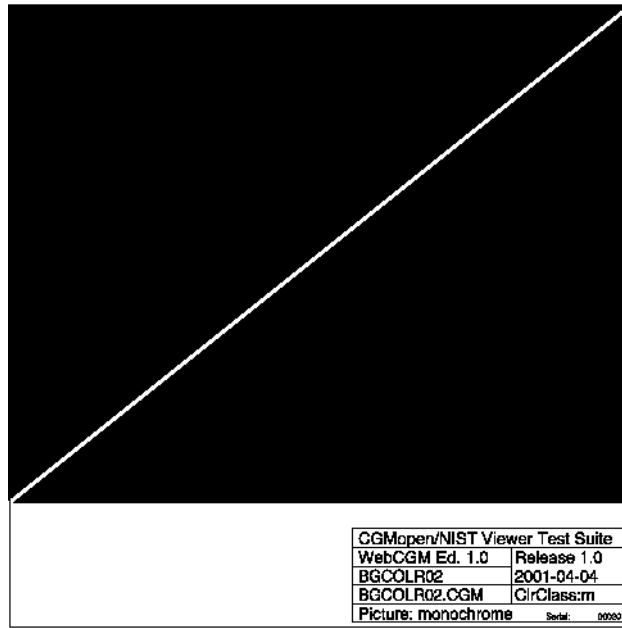
1.2.6 BGCOLOR02



BGCOLOR02-CGM

Fig 13, Sheet 1 of 2 BGCOLOR02

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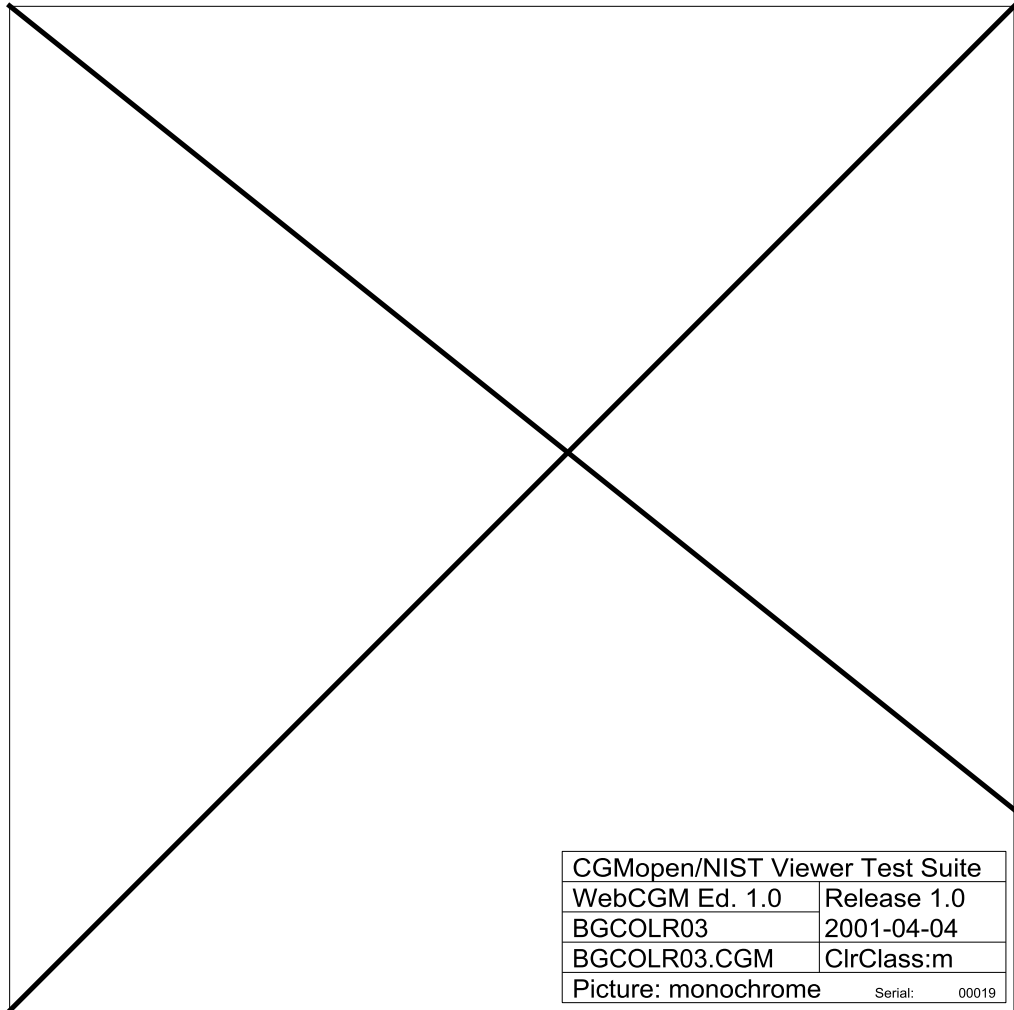


BGCOLOR02-PNG

Fig 13, Sheet 2 of 2 BGCOLOR02

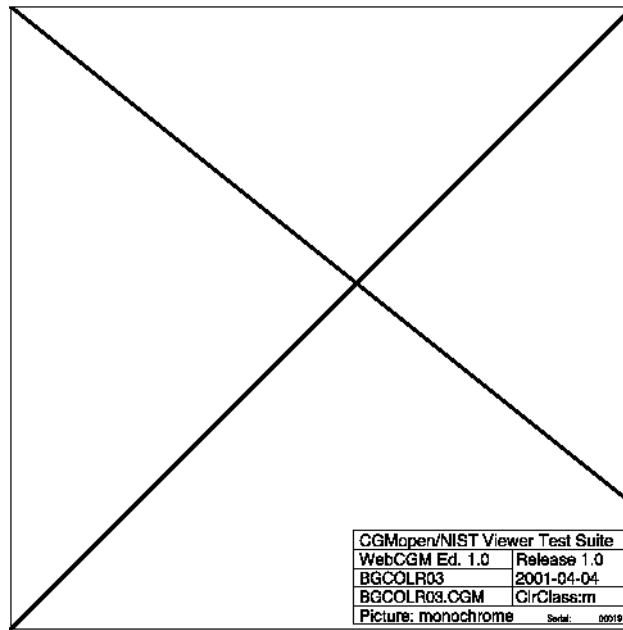


1.2.7 BGCOLOR03



BGCOLOR03-CGM

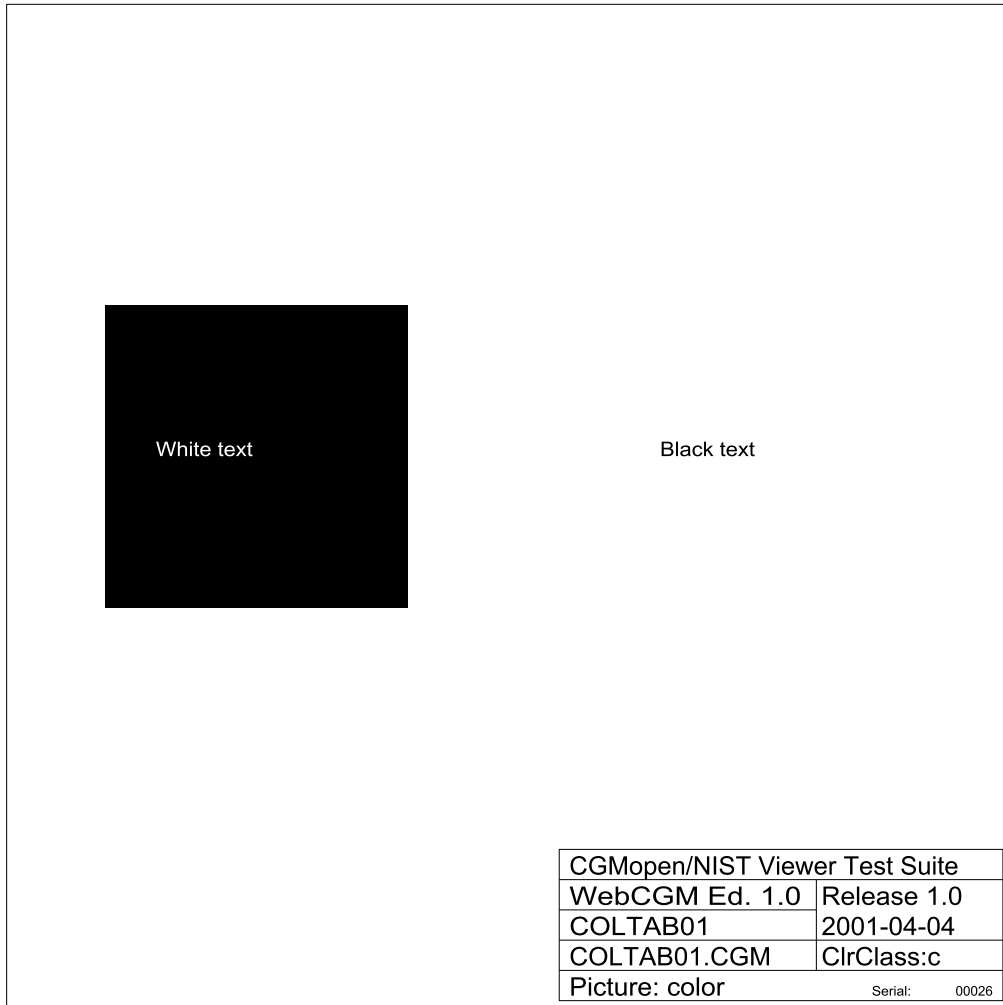
Fig 14, Sheet 1 of 2 BGCOLOR03



BGCOLOR03-PNG

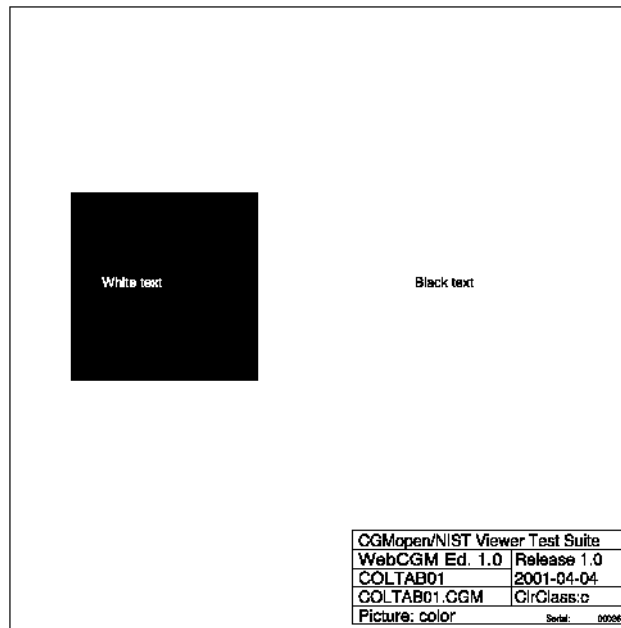
Fig 14, Sheet 2 of 2 BGCOLOR03

1.2.8 COLTAB01



COLTAB01-CGM

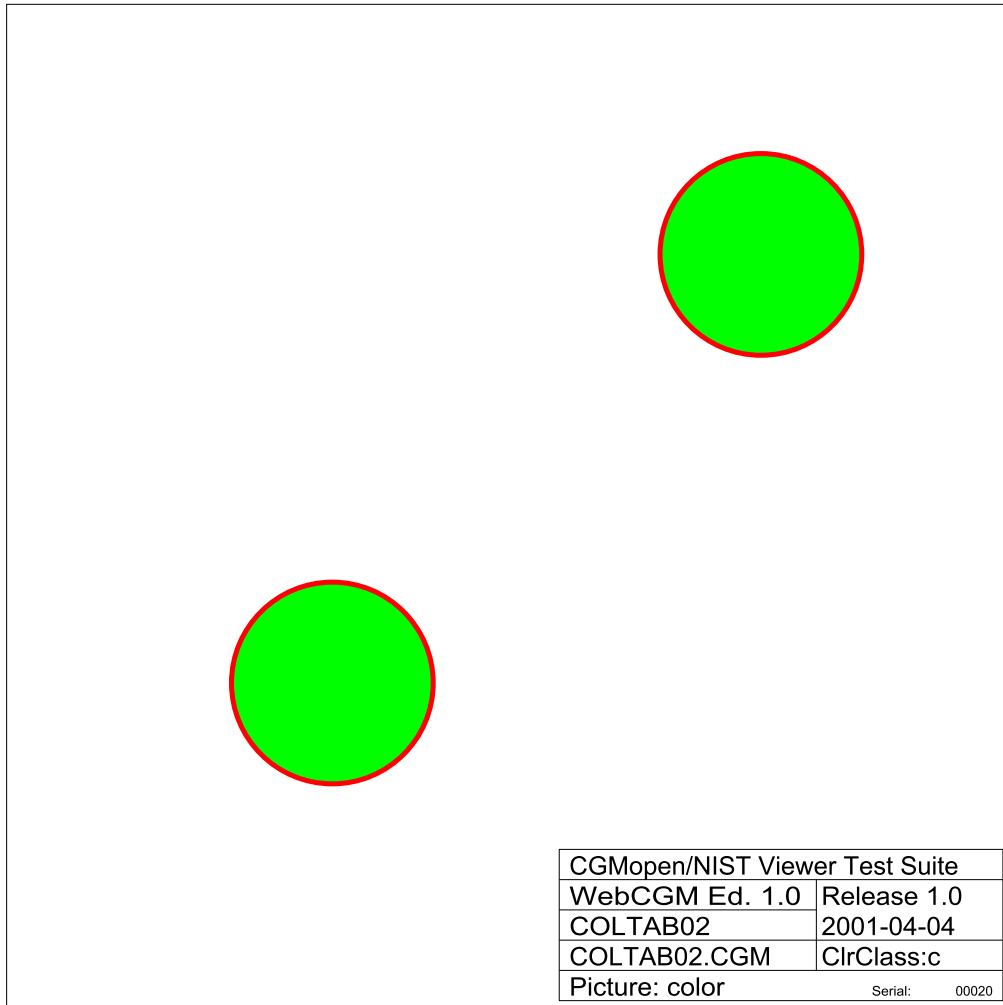
Fig 15, Sheet 1 of 2 COLTAB01



COLTAB01-PNG

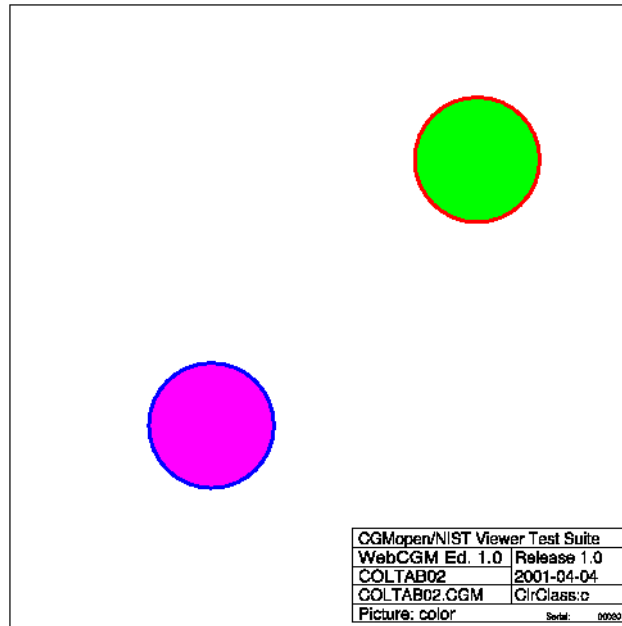
Fig 15, Sheet 2 of 2 COLTAB01

1.2.9 COLTAB02



COLTAB02-CGM

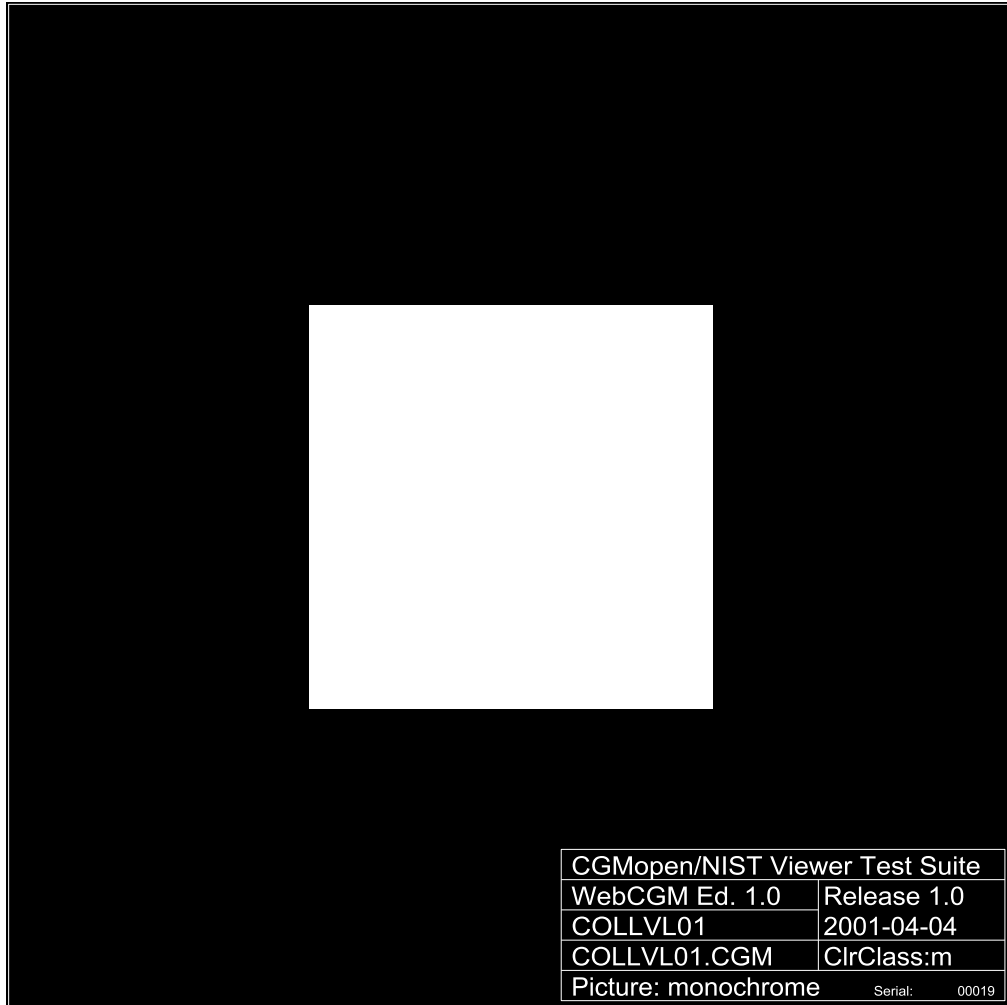
Fig 16, Sheet 1 of 2 COLTAB02



COLTAB02-PNG

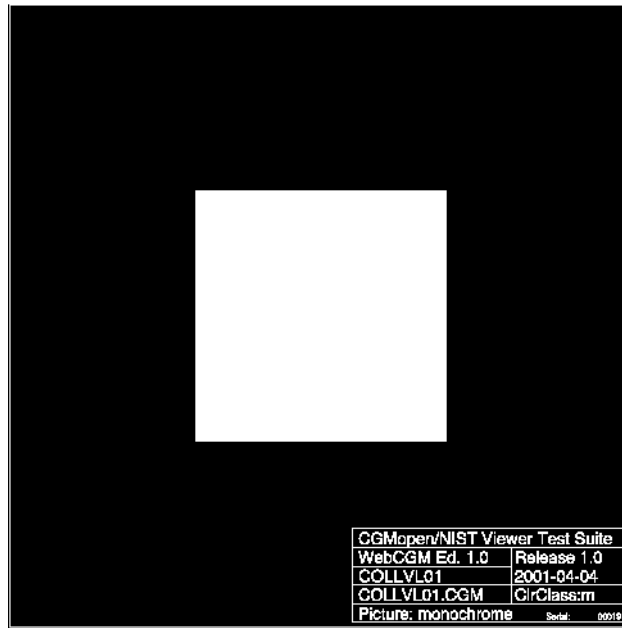
Fig 16, Sheet 2 of 2 COLTAB02

1.2.10 COLLVL01



COLLVL01-CGM

Fig 17, Sheet 1 of 2 COLLVL01

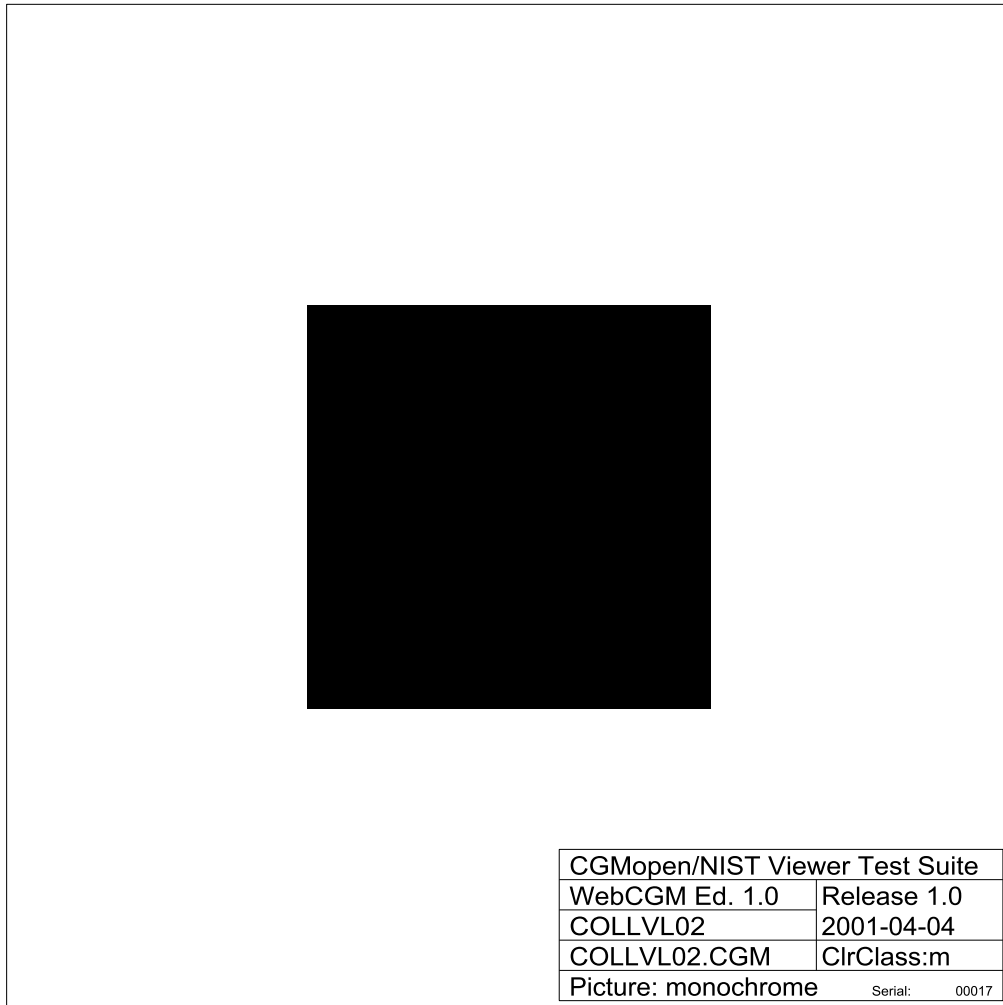


COLLVL01-PNG

Fig 17, Sheet 2 of 2 COLLVL01

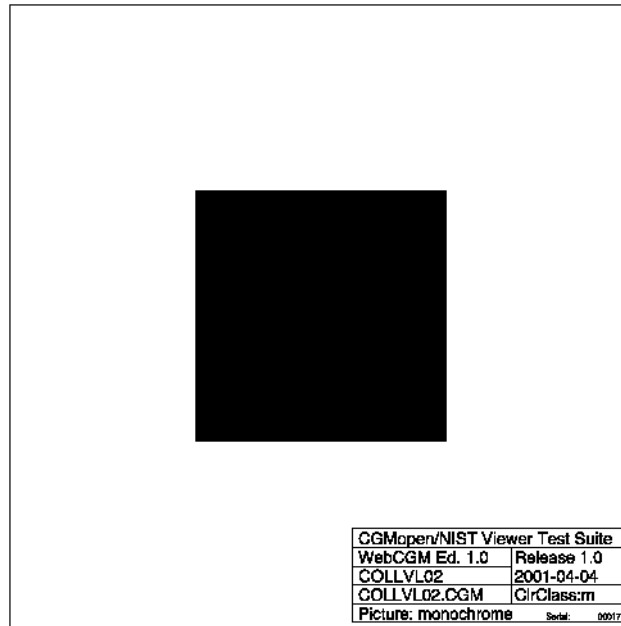


1.2.11 COLLVL02



COLLVL02-CGM

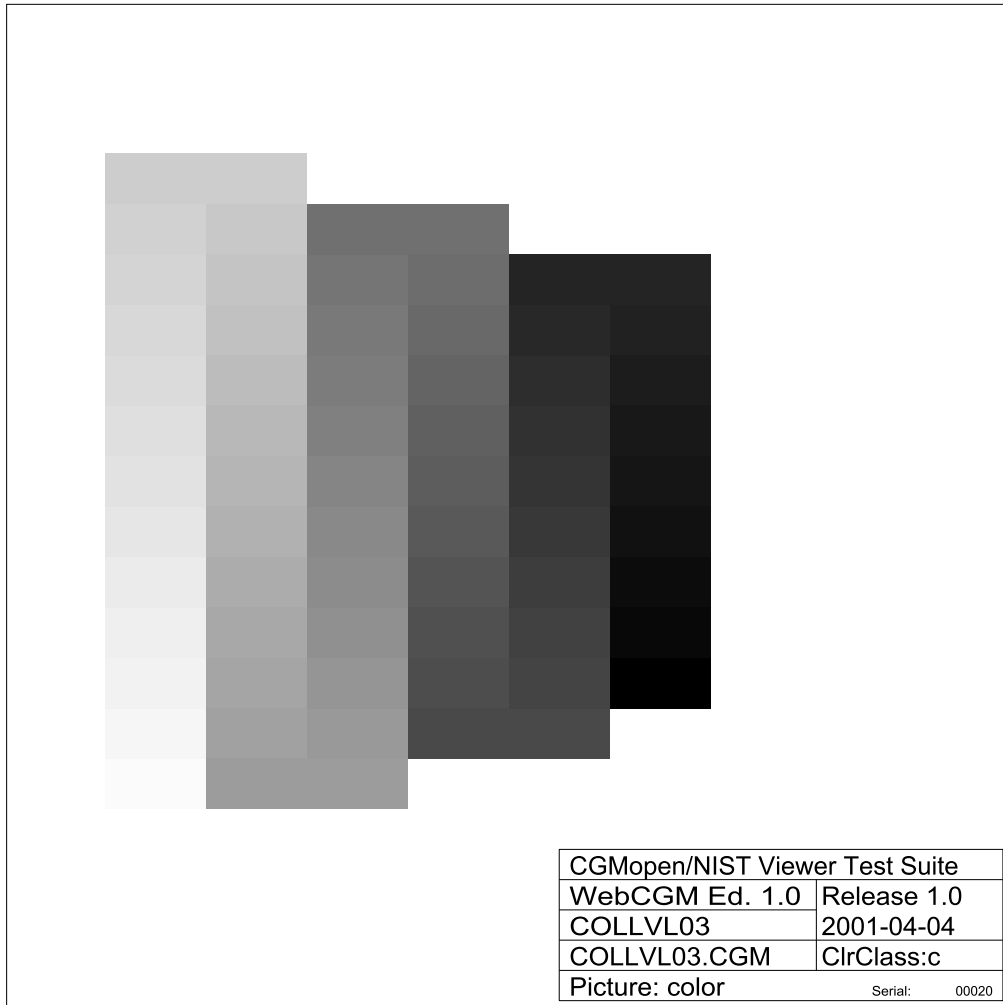
Fig 18, Sheet 1 of 2 COLLVL02



COLLVL02-PNG

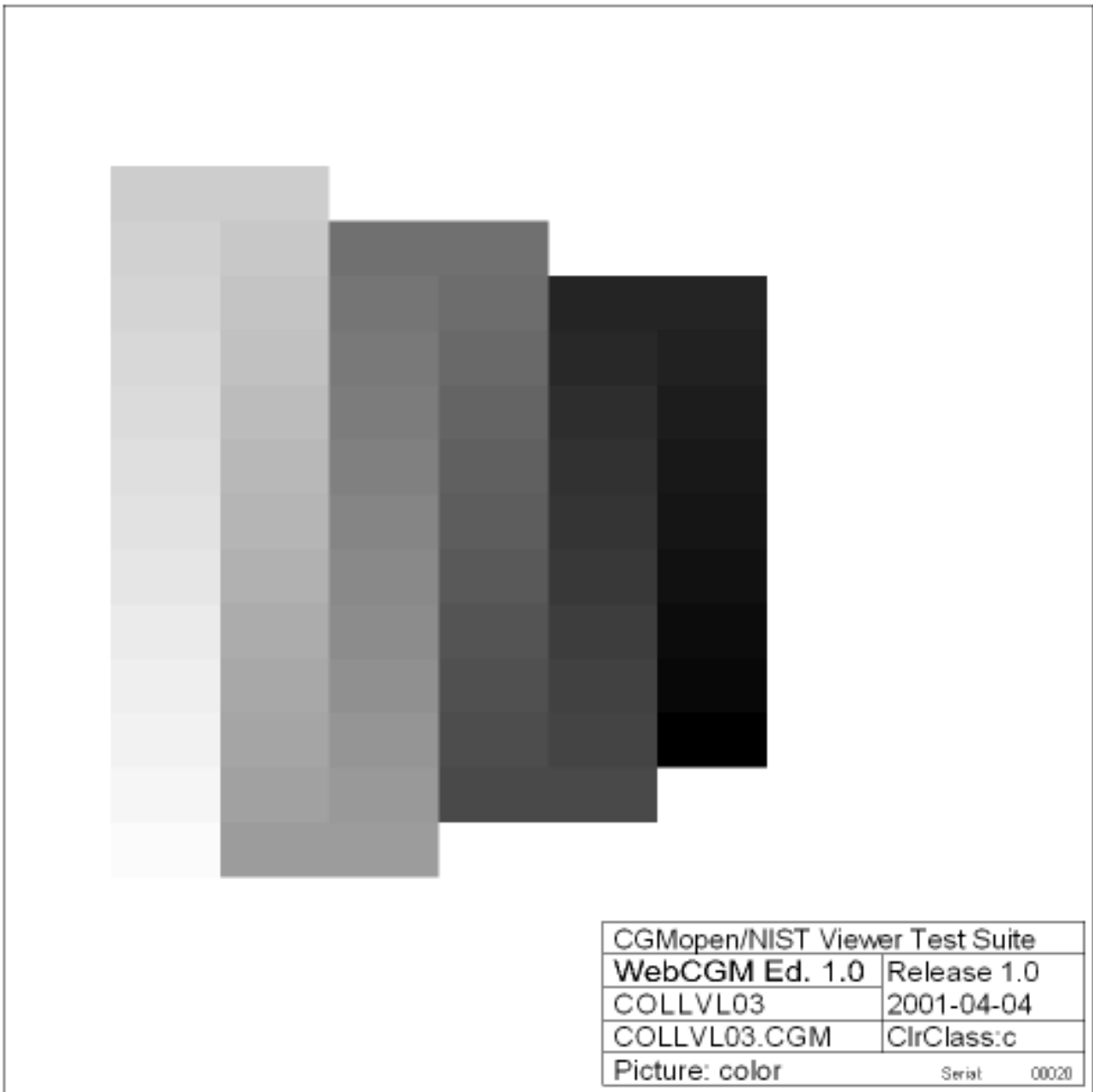
Fig 18, Sheet 2 of 2 COLLVL02

1.2.12 COLLVL03



COLLVL03-CGM

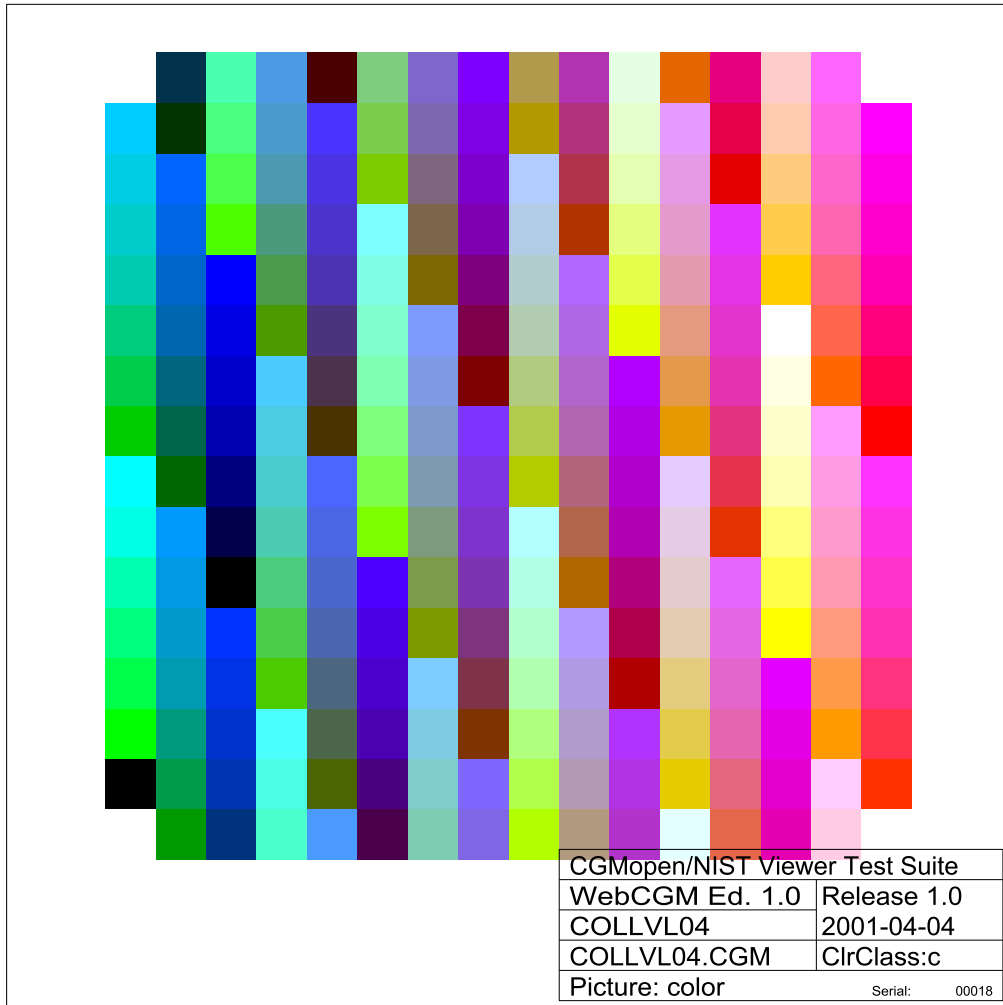
Fig 19, Sheet 1 of 2 COLLVL03



COLLVL03-PNG

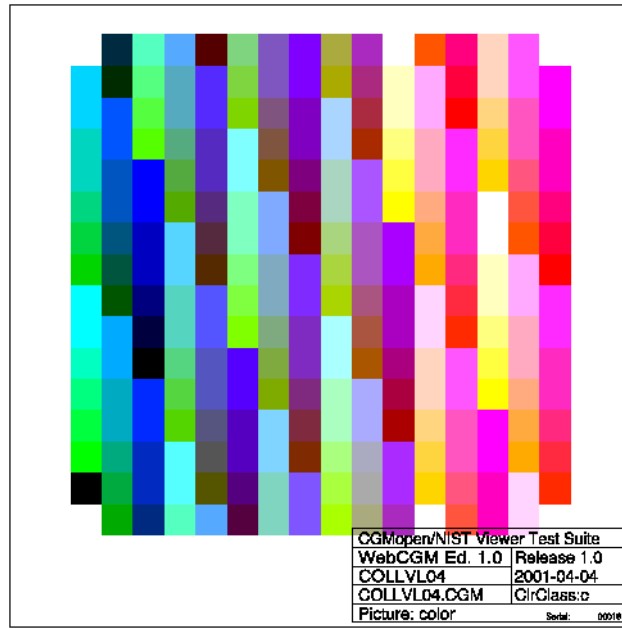
Fig 19, Sheet 2 of 2 COLLVL03

1.2.13 COLLVL04



COLLVL04-CGM

Fig 20, Sheet 1 of 2 COLLVL04

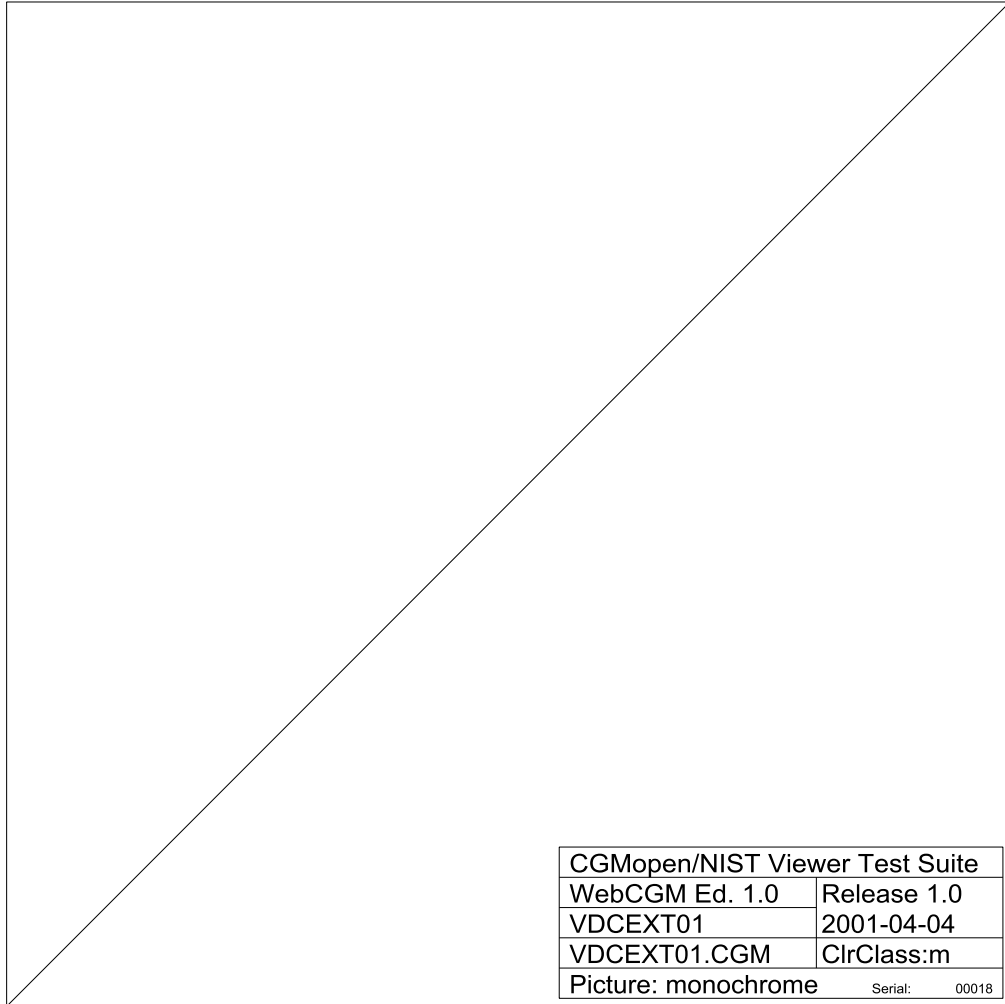


COLLVL04-PNG

Fig 20, Sheet 2 of 2 COLLVL04

1.3 Coordinate System

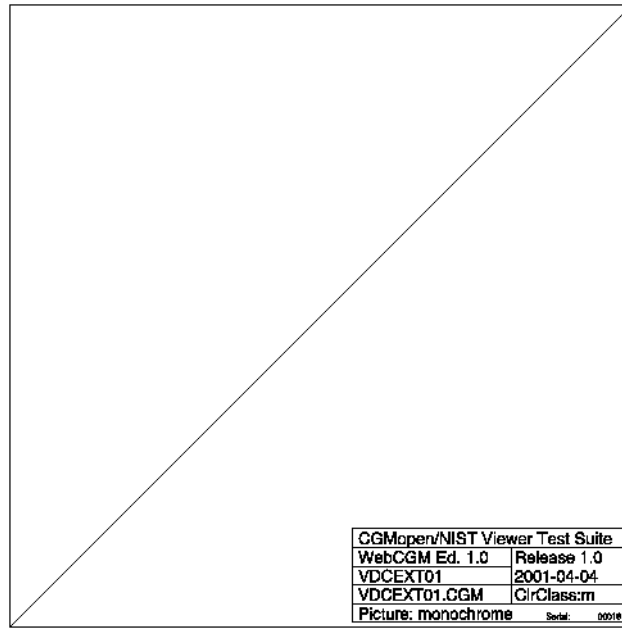
1.3.1 VDCEXT01



VDCEXT01-CGM

Fig 21, Sheet 1 of 2 VDCEXT01

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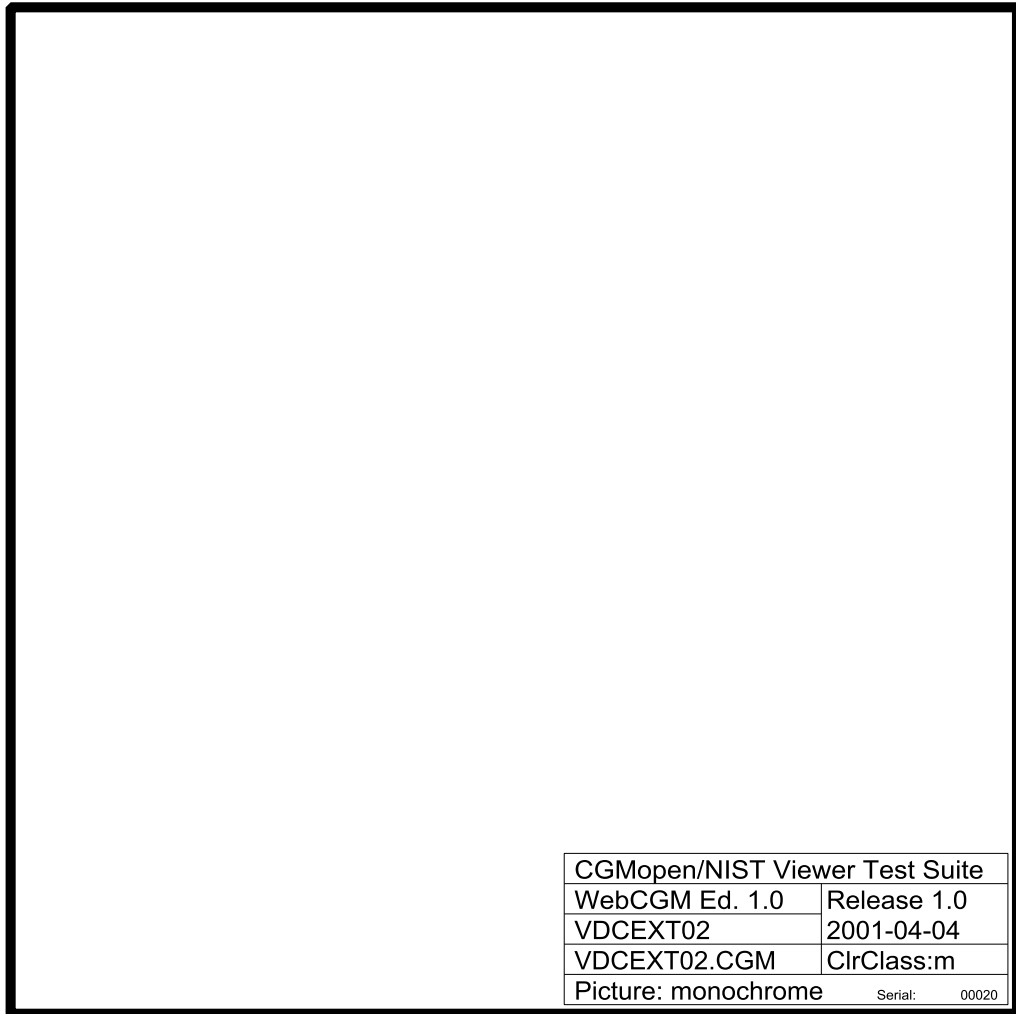


VDCEXT01-PNG

Fig 21, Sheet 2 of 2 VDCEXT01



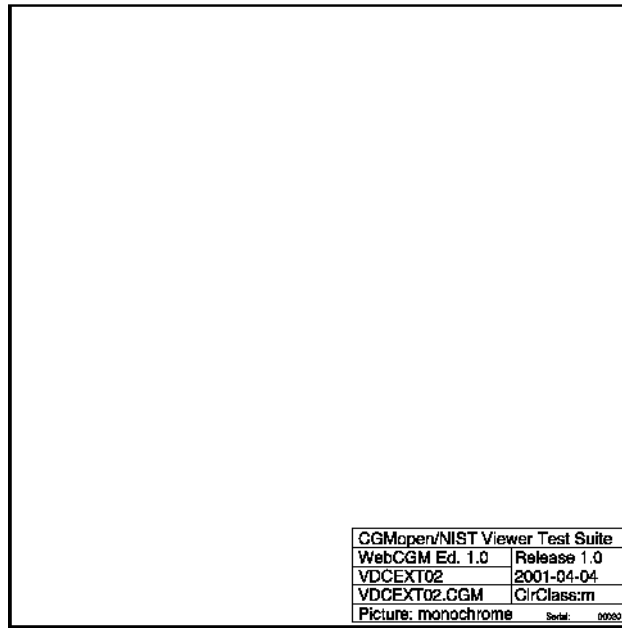
1.3.2 VDCEXT02



CGMopen/NIST Viewer Test Suite	
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Picture: monochrome	Serial: 00020

VDCEXT02-CGM

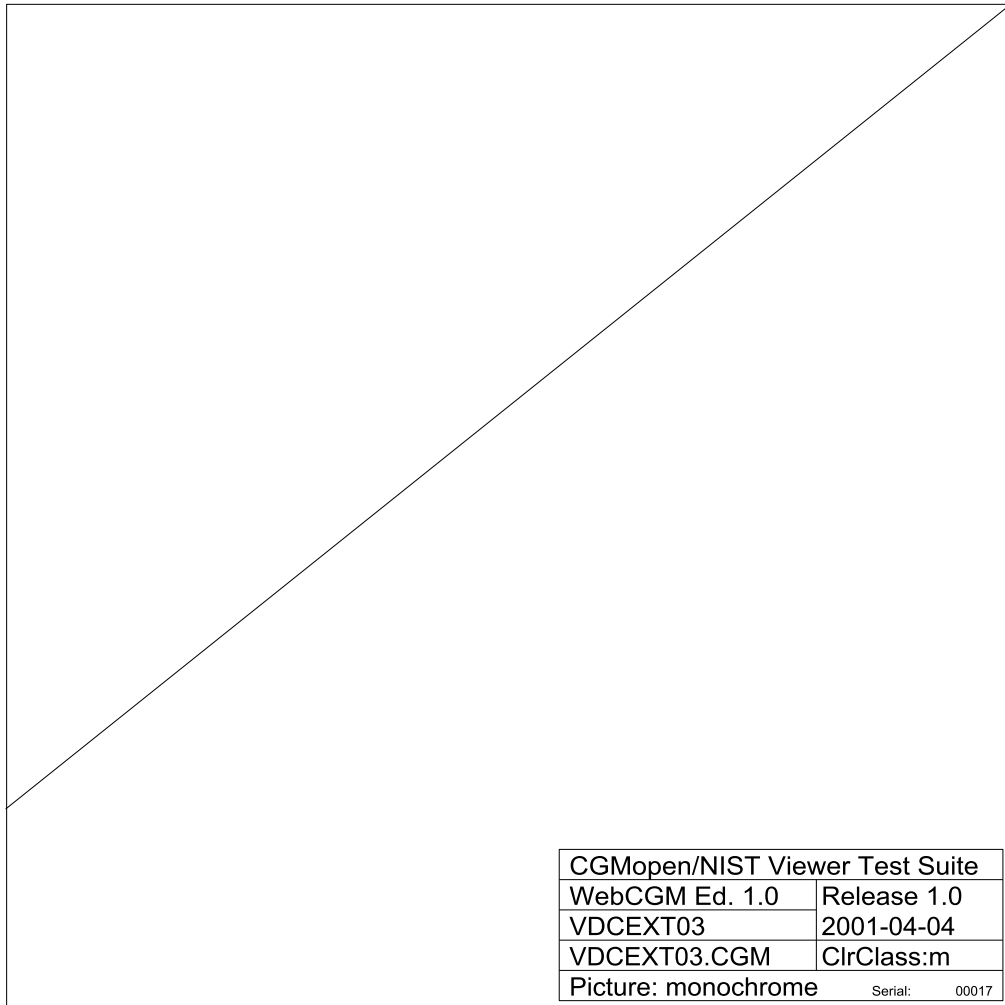
Fig 22, Sheet 1 of 2 VDCEXT02



VDCEXT02-PNG

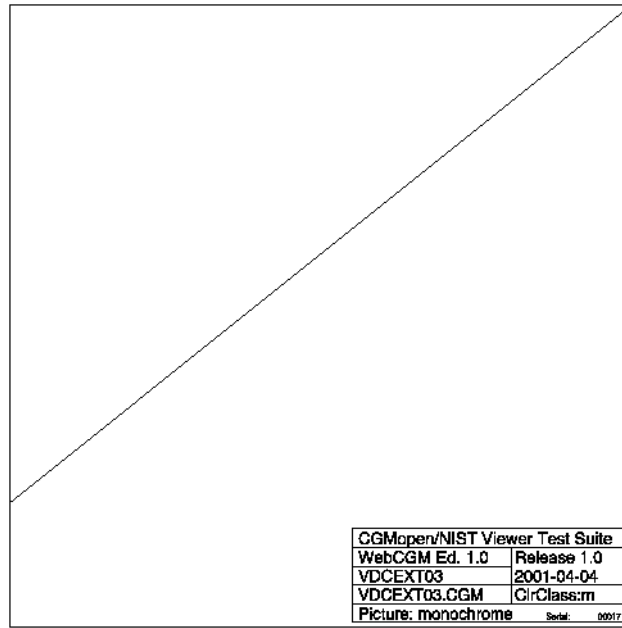
Fig 22, Sheet 2 of 2 VDCEXT02

1.3.3 VDCEXT03



VDCEXT03-CGM

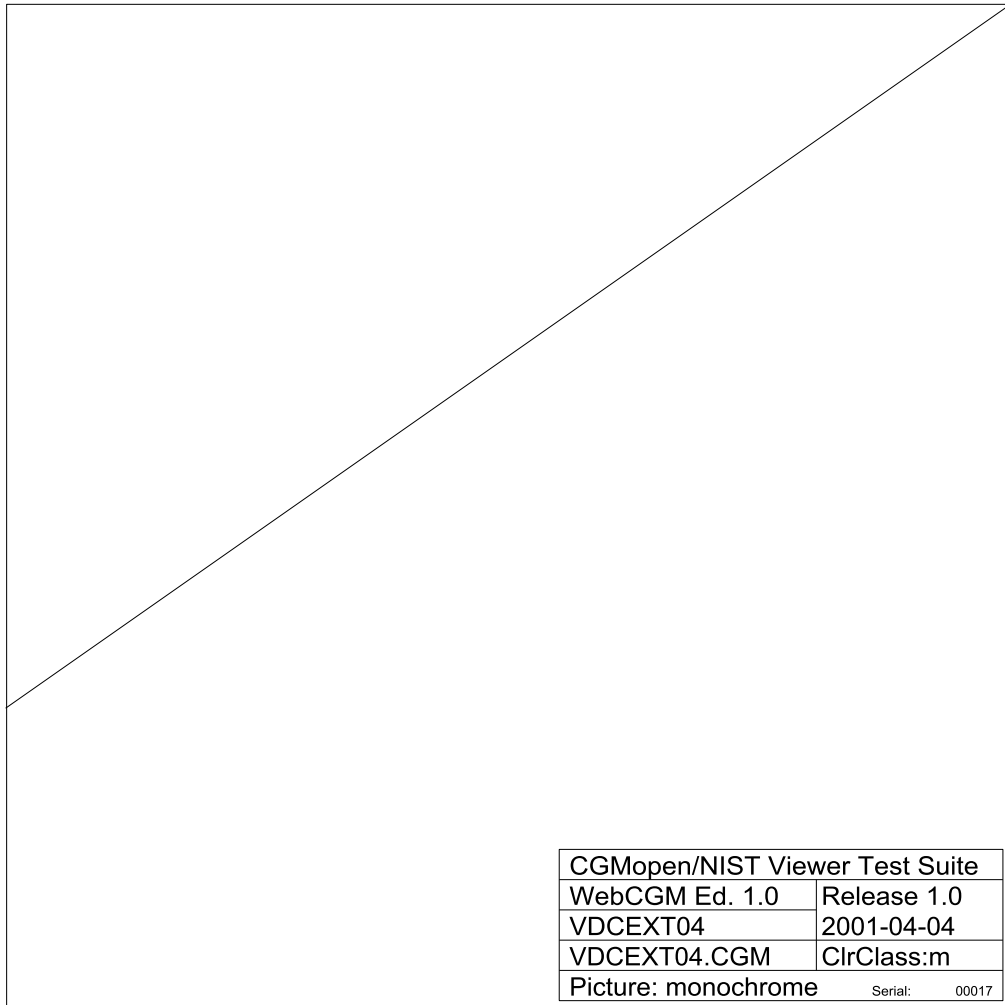
Fig 23, Sheet 1 of 2 VDCEXT03



VDCEXT03-PNG

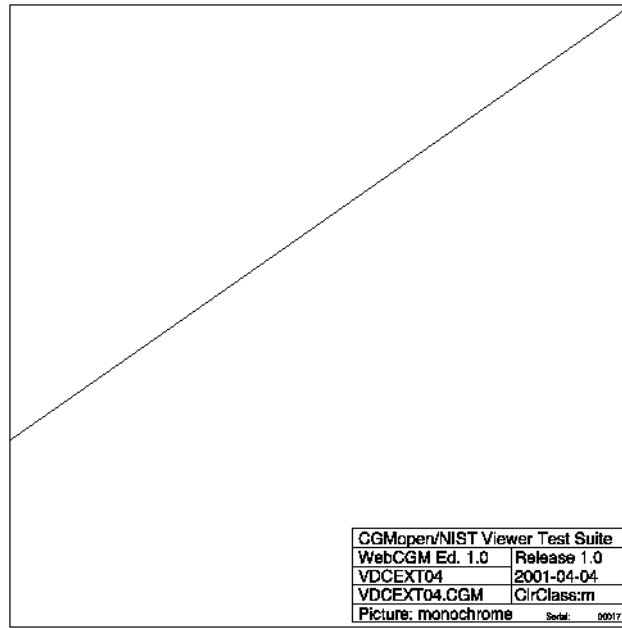
Fig 23, Sheet 2 of 2 VDCEXT03

1.3.4 VDCEXT04



VDCEXT04-CGM

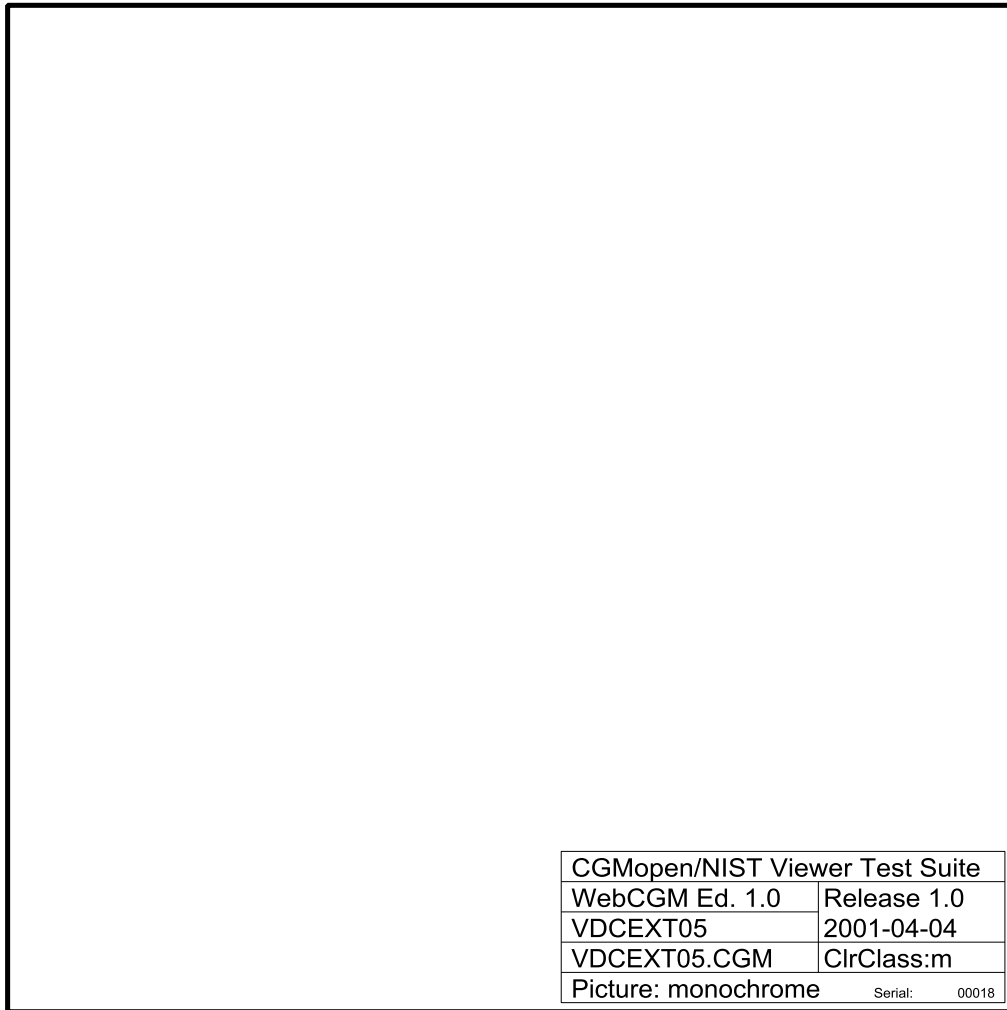
Fig 24, Sheet 1 of 2 VDCEXT04



VDCEXT04-PNG

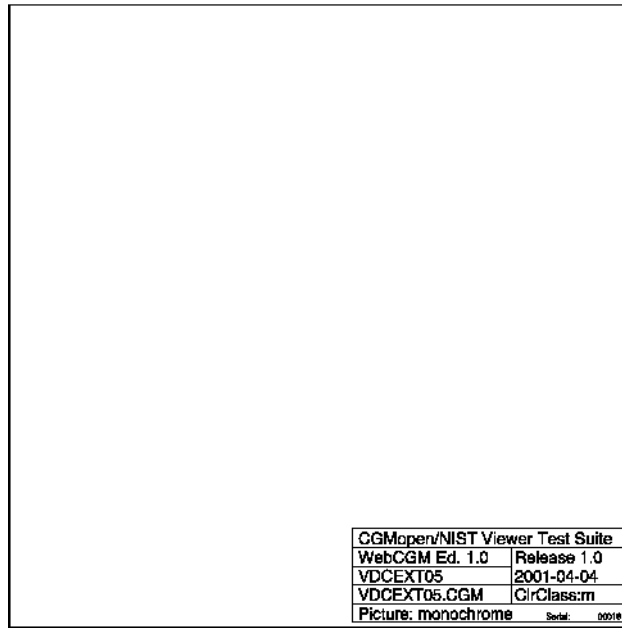
Fig 24, Sheet 2 of 2 VDCEXT04

1.3.5 VDCEXT05



VDCEXT05-CGM

Fig 25, Sheet 1 of 2 VDCEXT05

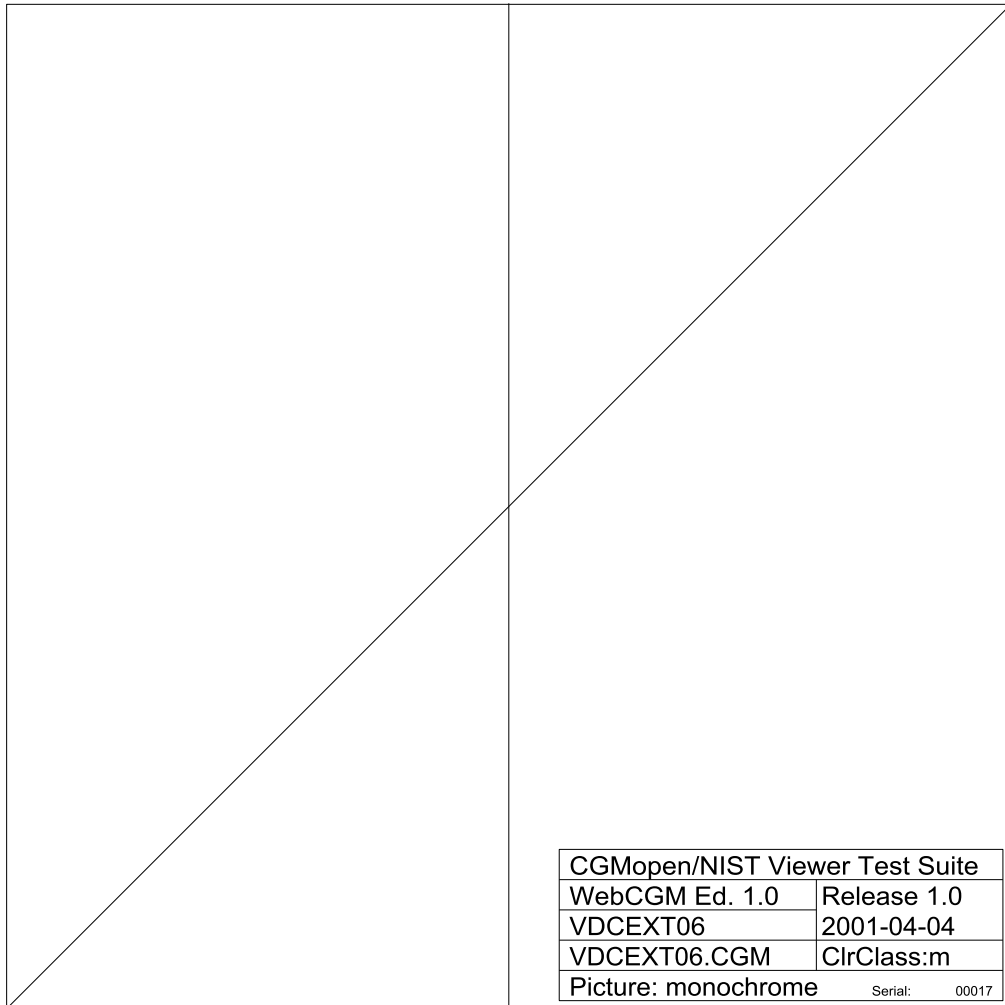


VDCEXT05-PNG

Fig 25, Sheet 2 of 2 VDCEXT05

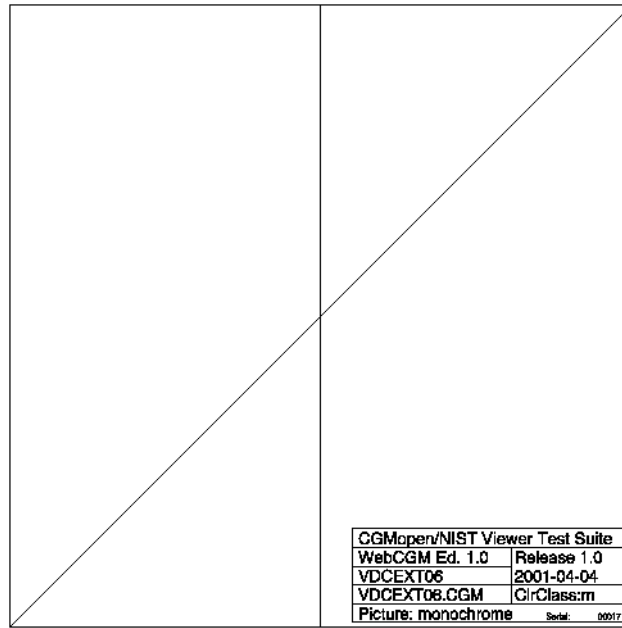


1.3.6 VDCEXT06



VDCEXT06-CGM

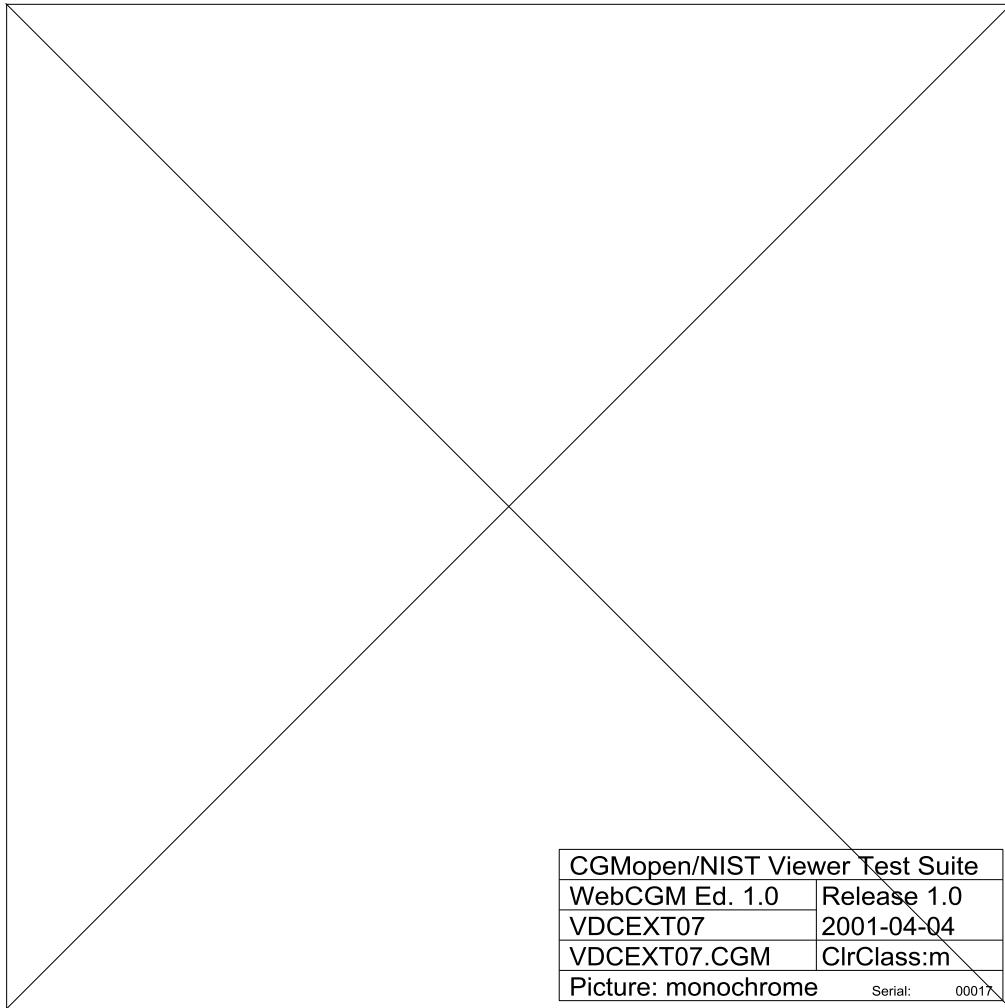
Fig 26, Sheet 1 of 2 VDCEXT06



VDCEXT06-PNG

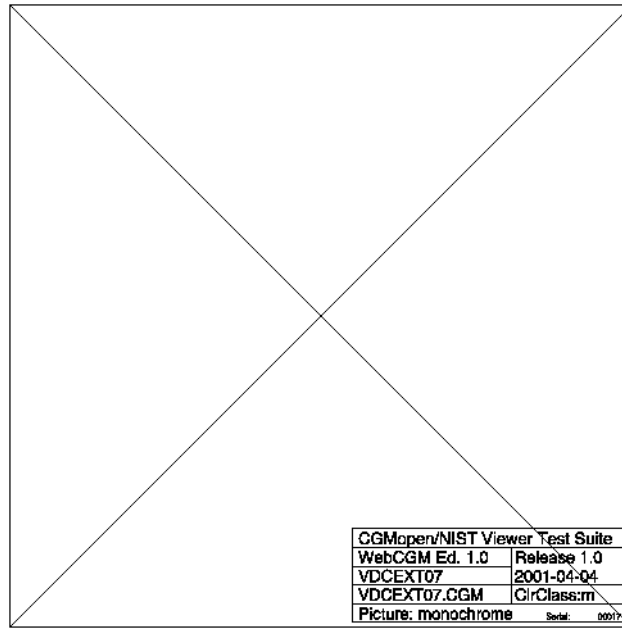
Fig 26, Sheet 2 of 2 VDCEXT06

1.3.7 VDCEXT07



VDCEXT07-CGM

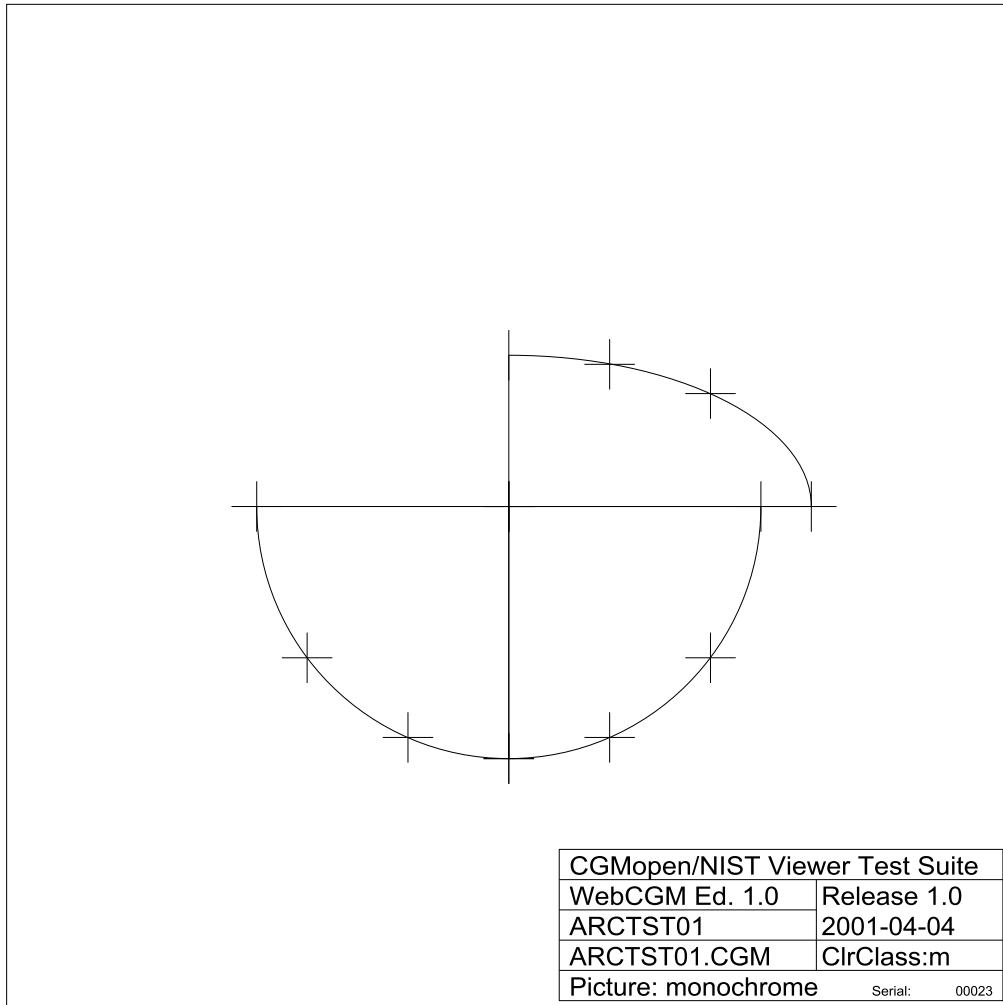
Fig 27, Sheet 1 of 2 VDCEXT07



VDCEXT07-PNG

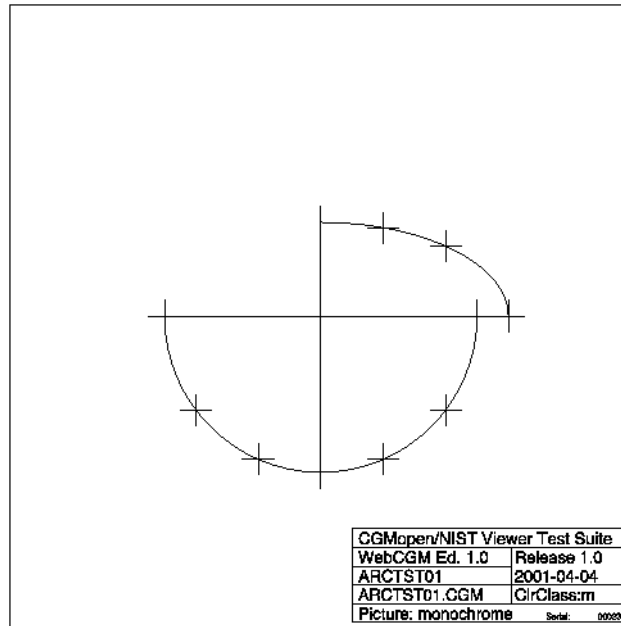
Fig 27, Sheet 2 of 2 VDCEXT07

1.3.8 ARCTST01



ARCTST01-CGM

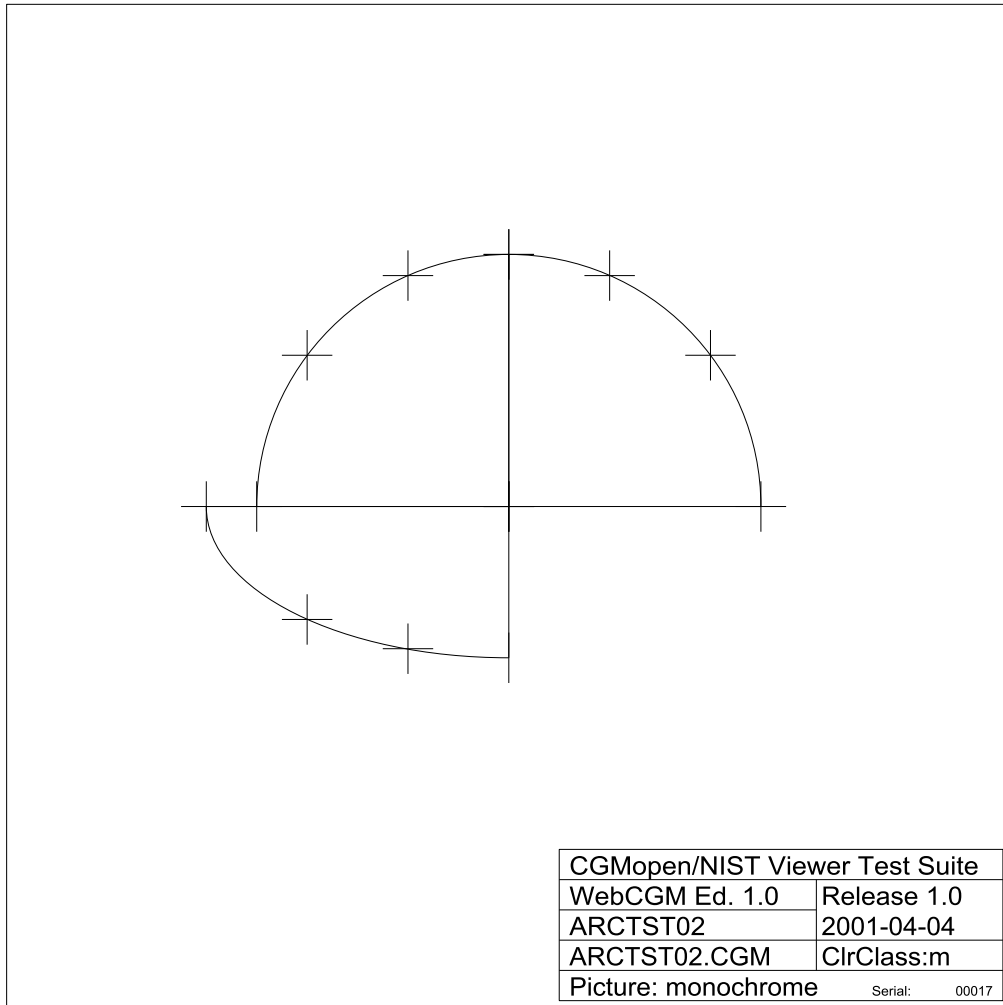
Fig 28, Sheet 1 of 2 ARCTST01



ARCTST01-PNG

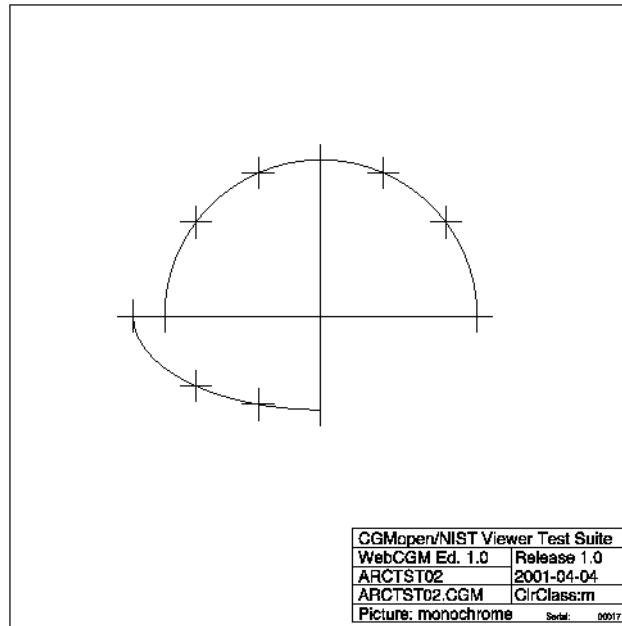
Fig 28, Sheet 2 of 2 ARCTST01

1.3.9 ARCTST02



ARCTST02-CGM

Fig 29, Sheet 1 of 2 ARCTST02

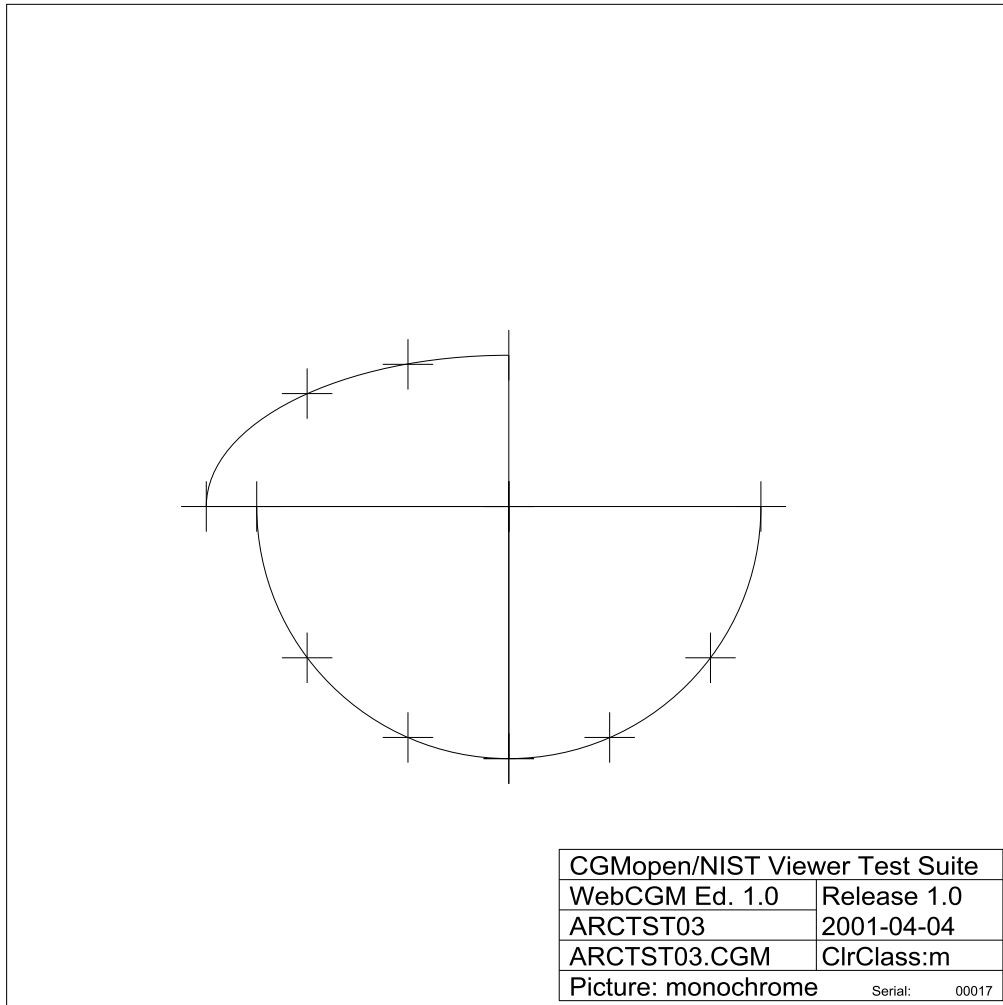


ARCTST02-PNG

Fig 29, Sheet 2 of 2 ARCTST02

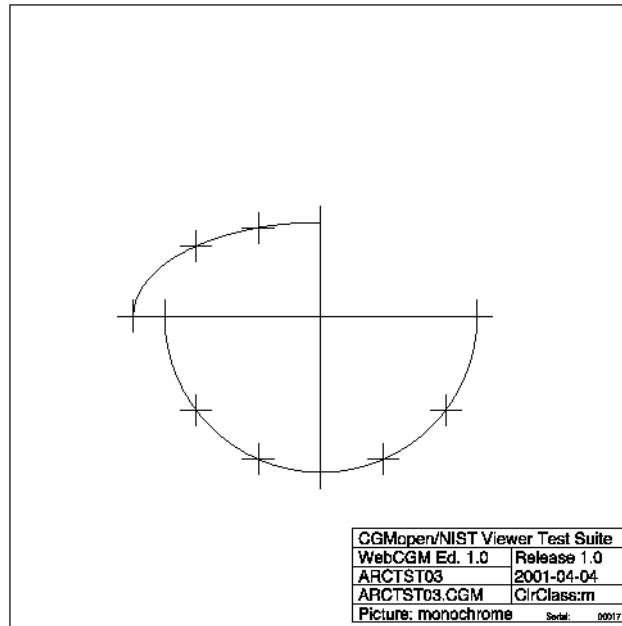


1.3.10 ARCTST03



ARCTST03-CGM

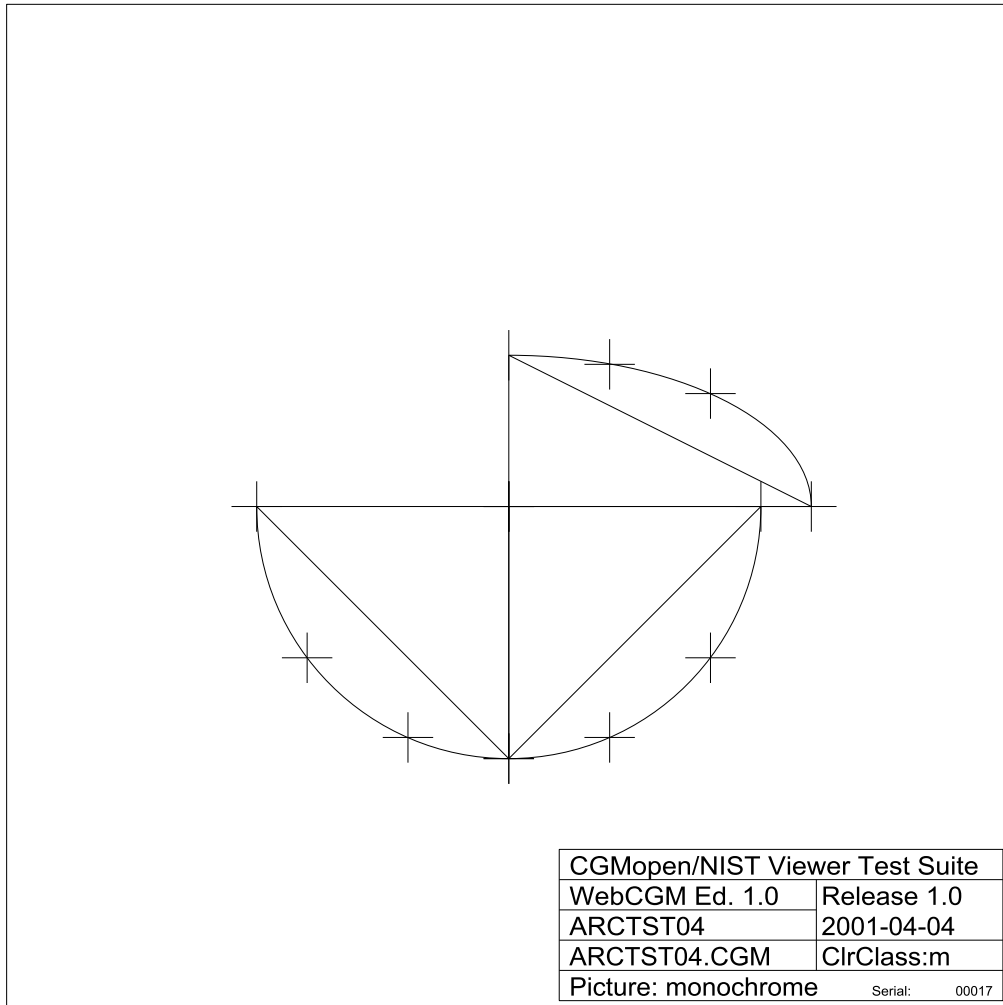
Fig 30, Sheet 1 of 2 ARCTST03



ARCTST03-PNG

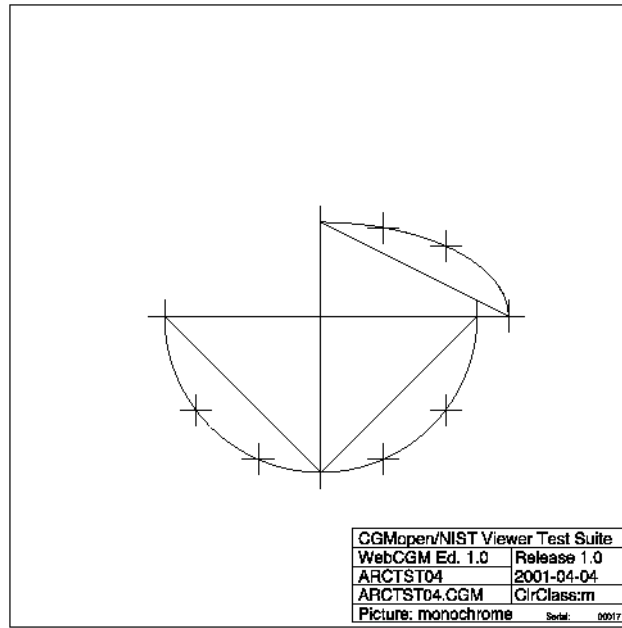
Fig 30, Sheet 2 of 2 ARCTST03

1.3.11 ARCTST04



ARCTST04-CGM

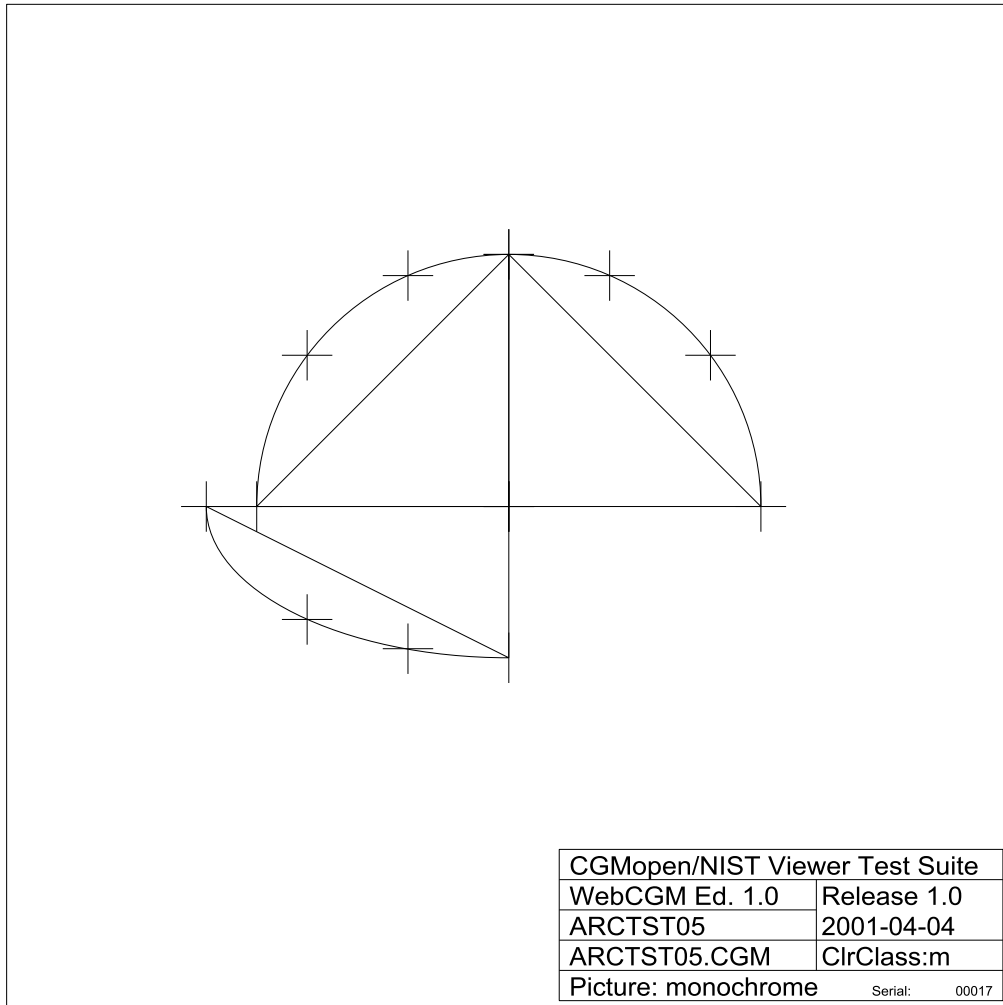
Fig 31, Sheet 1 of 2 ARCTST04



ARCTST04-PNG

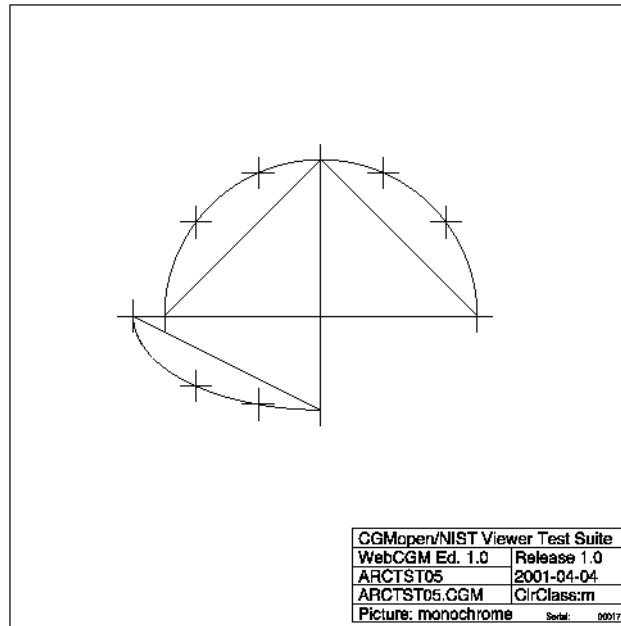
Fig 31, Sheet 2 of 2 ARCTST04

1.3.12 ARCTST05



ARCTST05-CGM

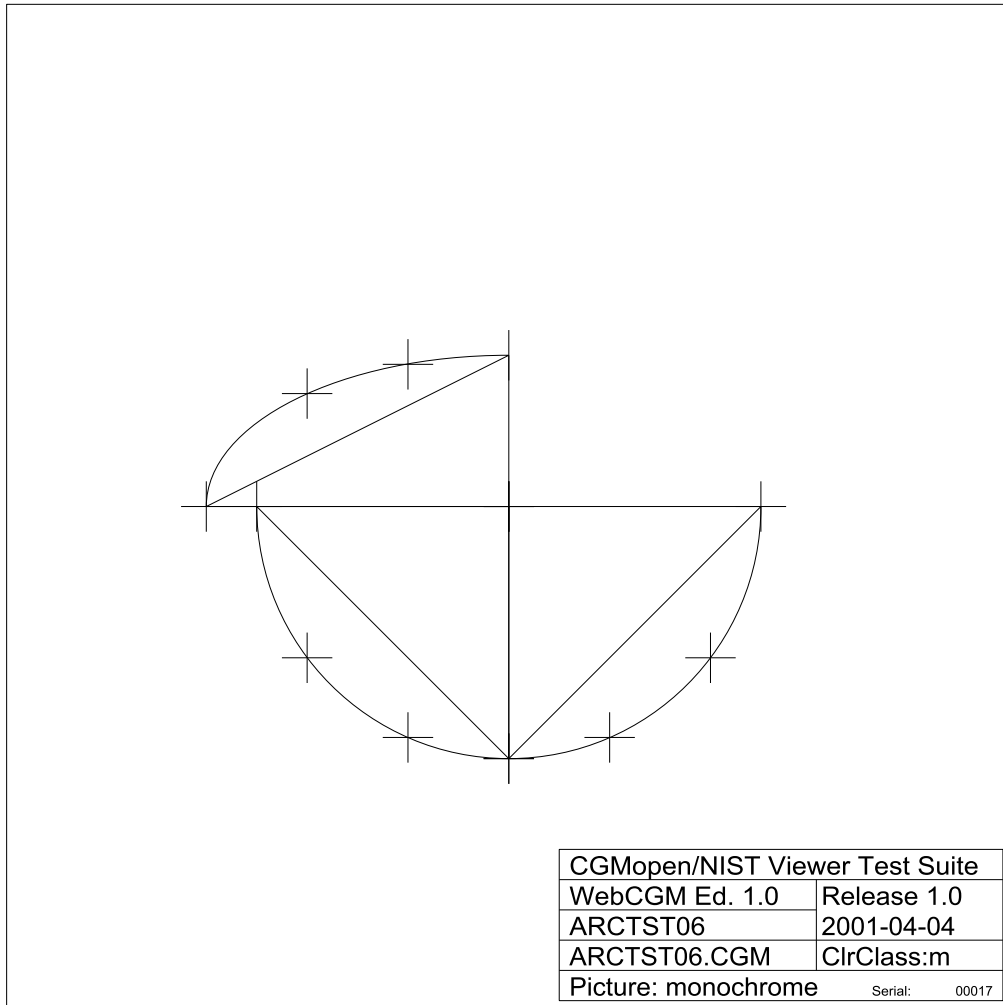
Fig 32, Sheet 1 of 2 ARCTST05



ARCTST05-PNG

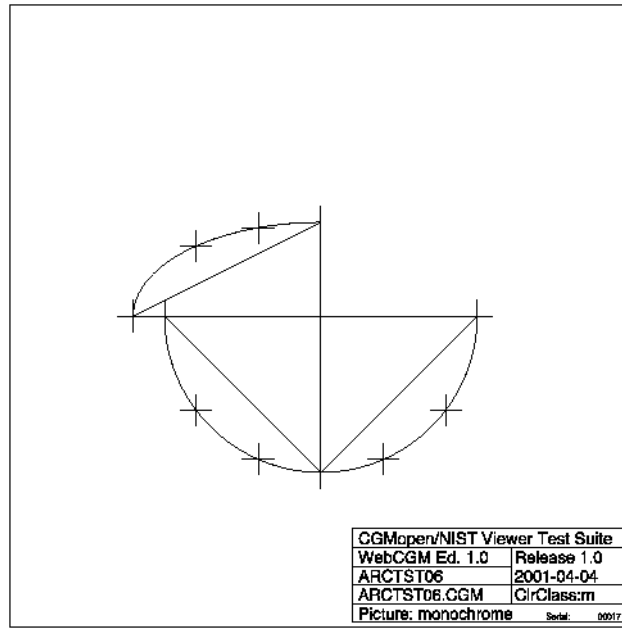
Fig 32, Sheet 2 of 2 ARCTST05

1.3.13 ARCTST06



ARCTST06-CGM

Fig 33, Sheet 1 of 2 ARCTST06



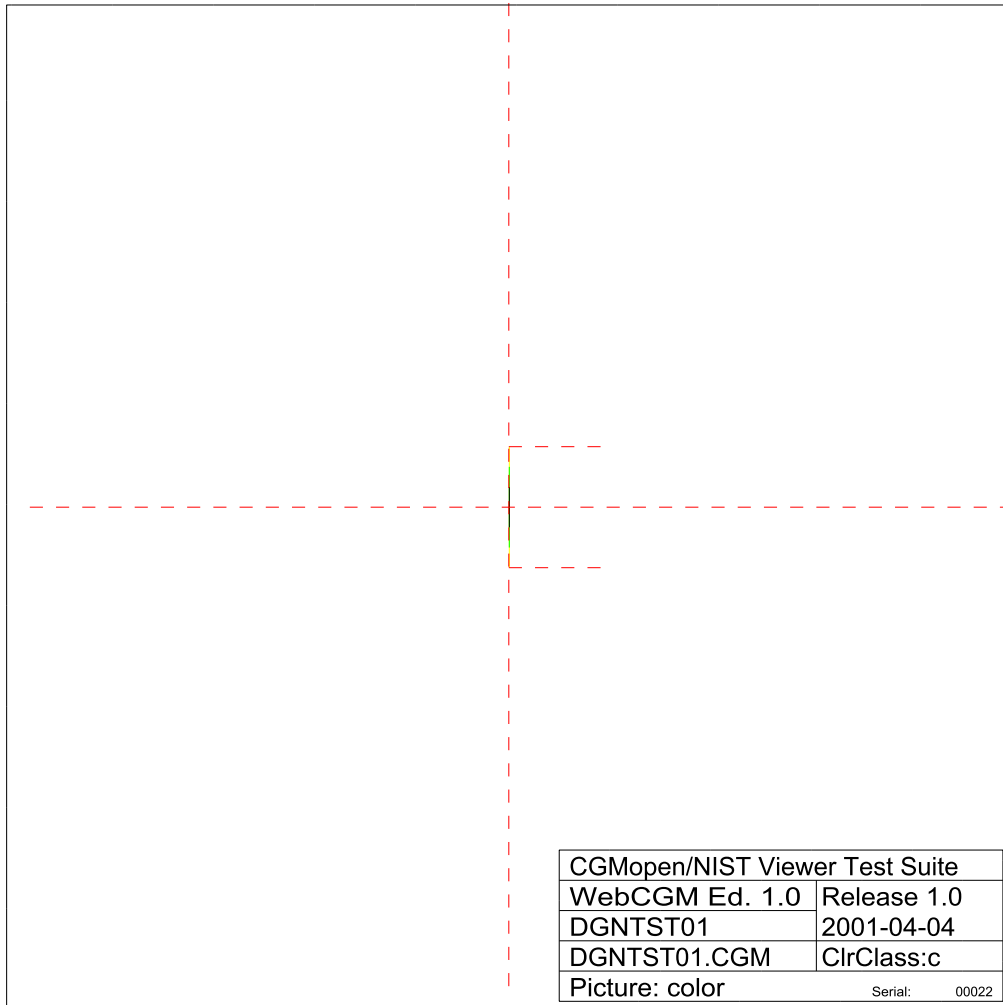
ARCTST06-PNG

Fig 33, Sheet 2 of 2 ARCTST06



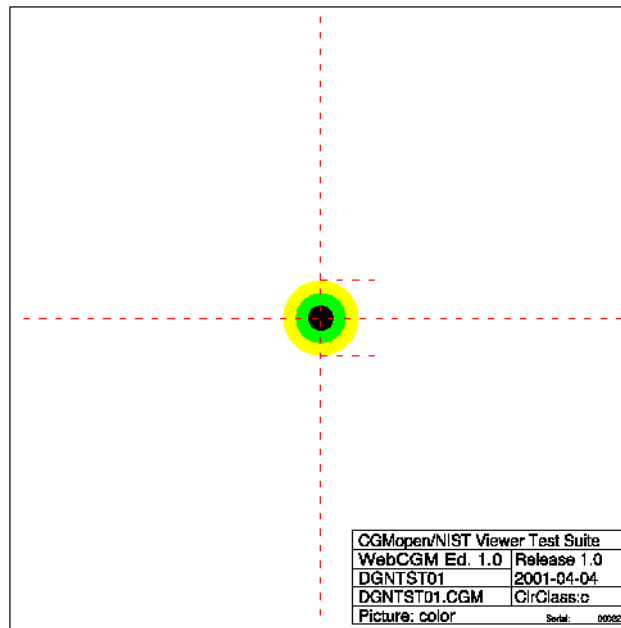
1.4 Degeneracies

1.4.1 DGNTST01



DGNTST01-CGM

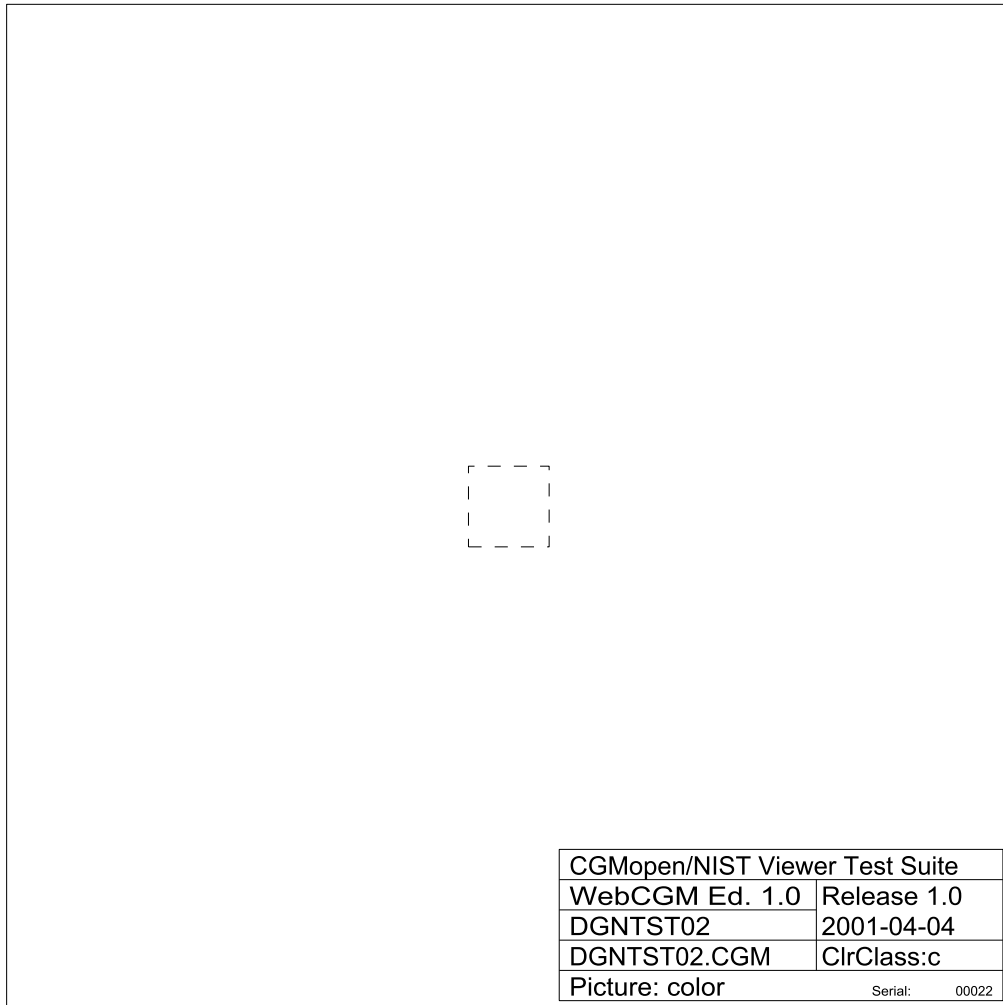
Fig 34, Sheet 1 of 2 DGNTST01



DGNTST01-PNG

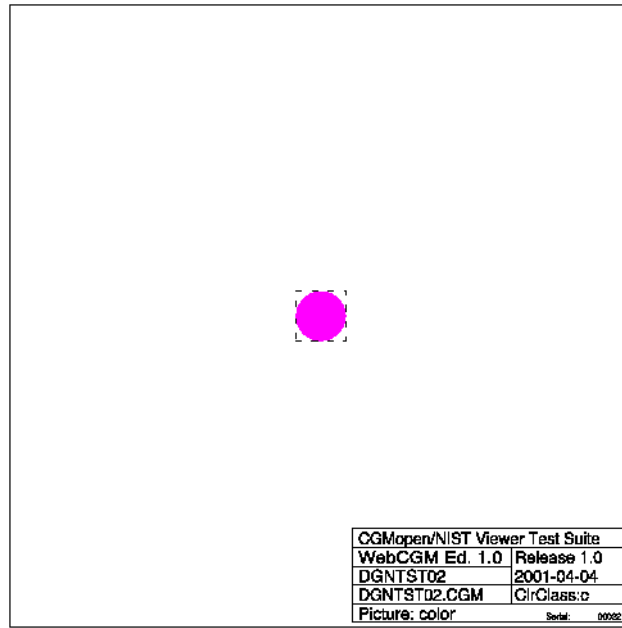
Fig 34, Sheet 2 of 2 DGNTST01

1.4.2 DGNTST02



DGNTST02-CGM

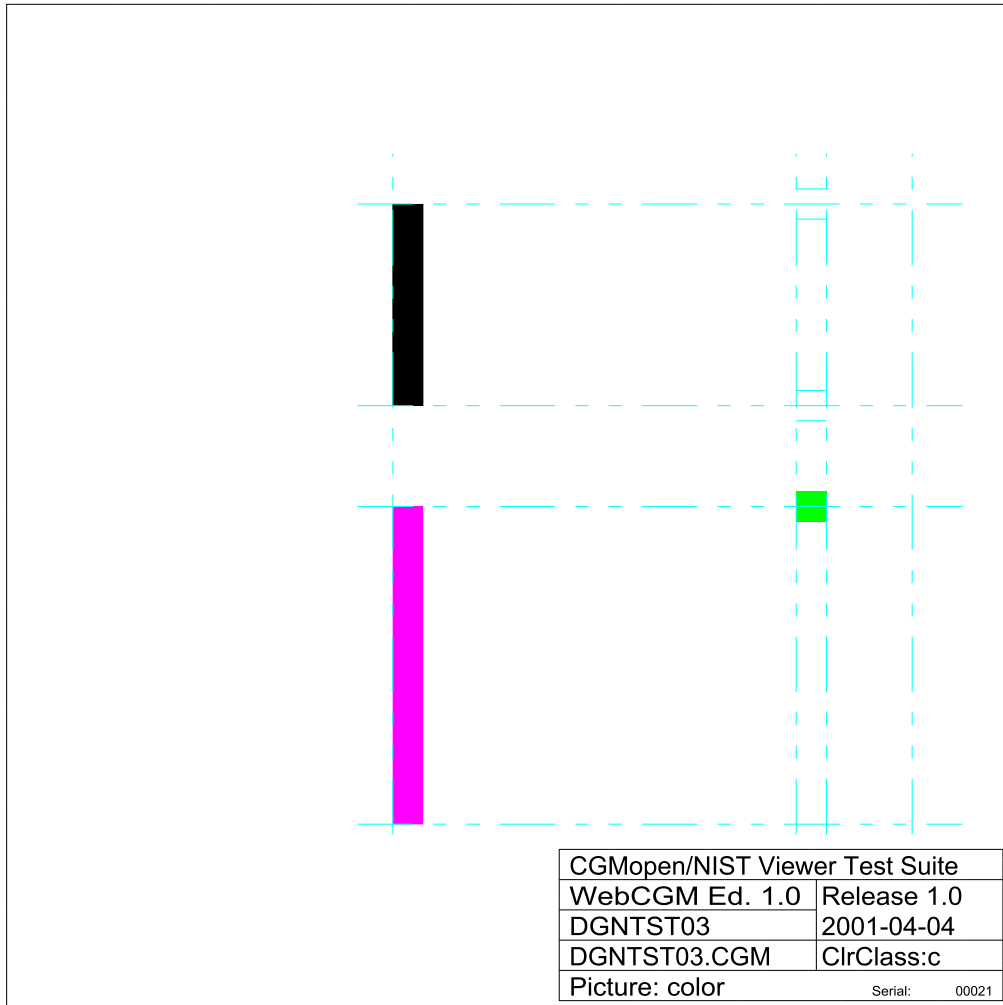
Fig 35, Sheet 1 of 2 DGNTST02



DGNTST02-PNG

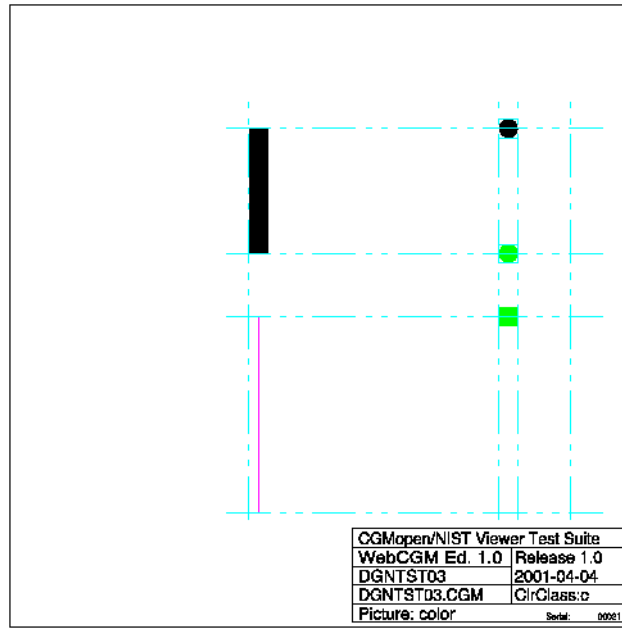
Fig 35, Sheet 2 of 2 DGNTST02

1.4.3 DGNTST03



DGNTST03-CGM

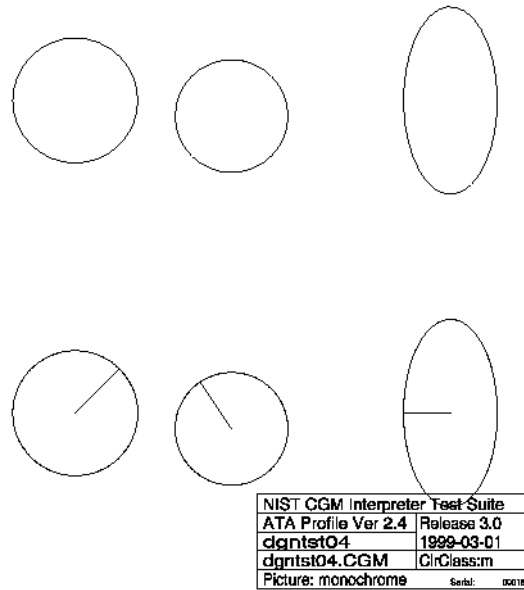
Fig 36, Sheet 1 of 2 DGNTST03



DGNTST03-PNG

Fig 36, Sheet 2 of 2 DGNTST03

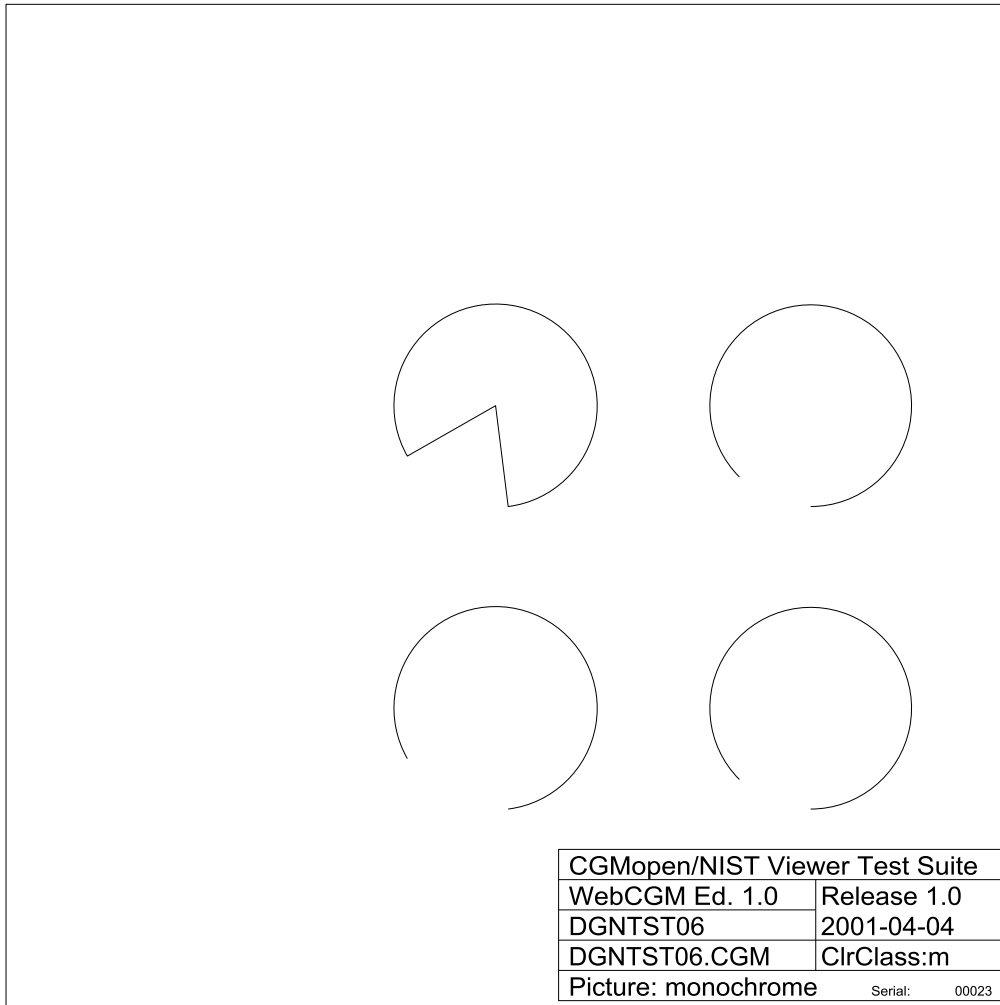
1.4.4 DGNTST04



DGNTST04-PNG

Fig 37 DGNTST04

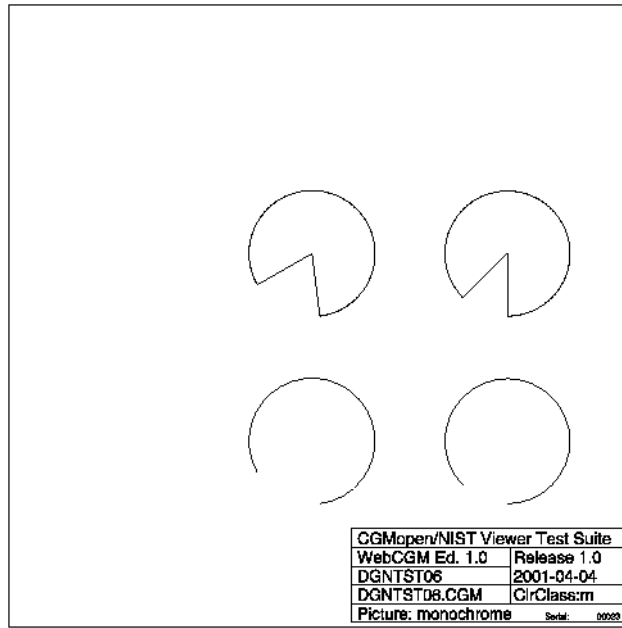
1.4.5 DGNTST06



DGNTST06-CGM

Fig 38, Sheet 1 of 2 DGNTST06

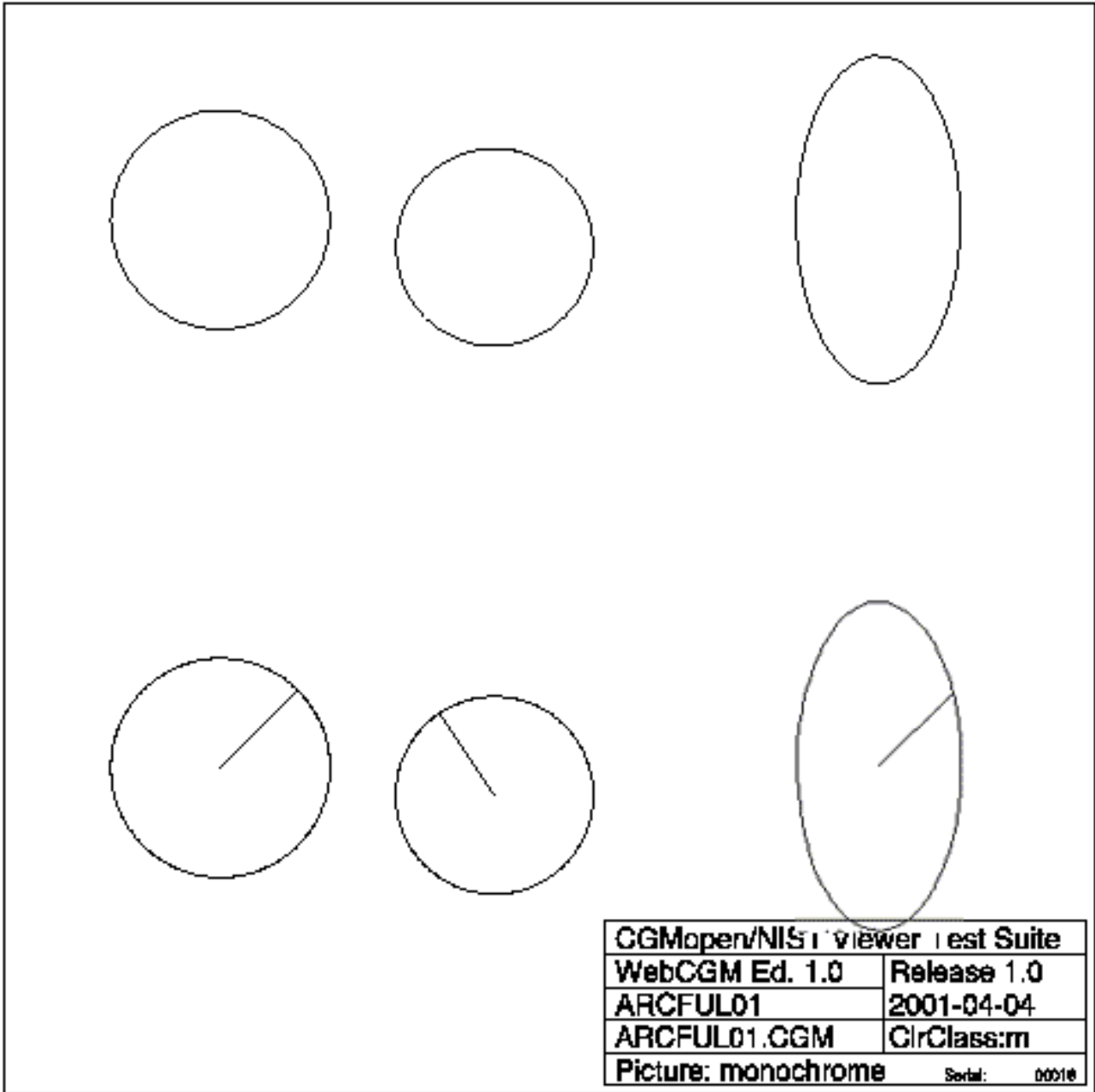




DGNTST06-PNG

Fig 38, Sheet 2 of 2 DGNTST06

1.4.6 ARCFUL01



ARCFUL01-PNG

Fig 39 ARCFUL01

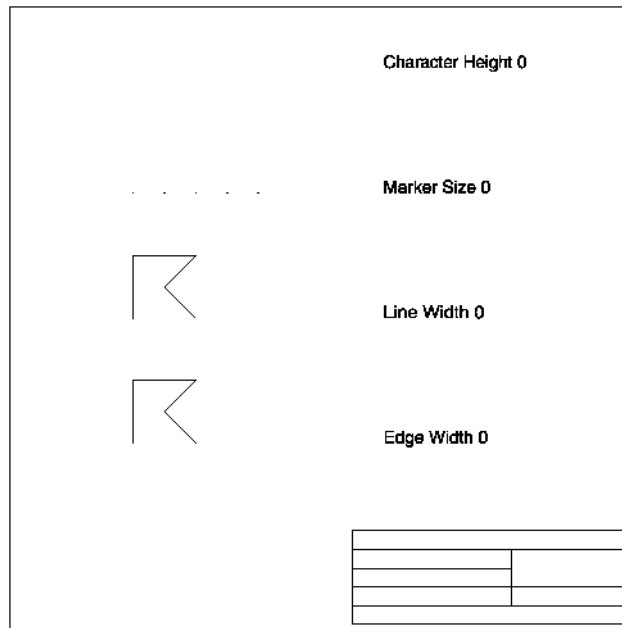
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1.4.7

OSZ01-CGM

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1A-040A-A

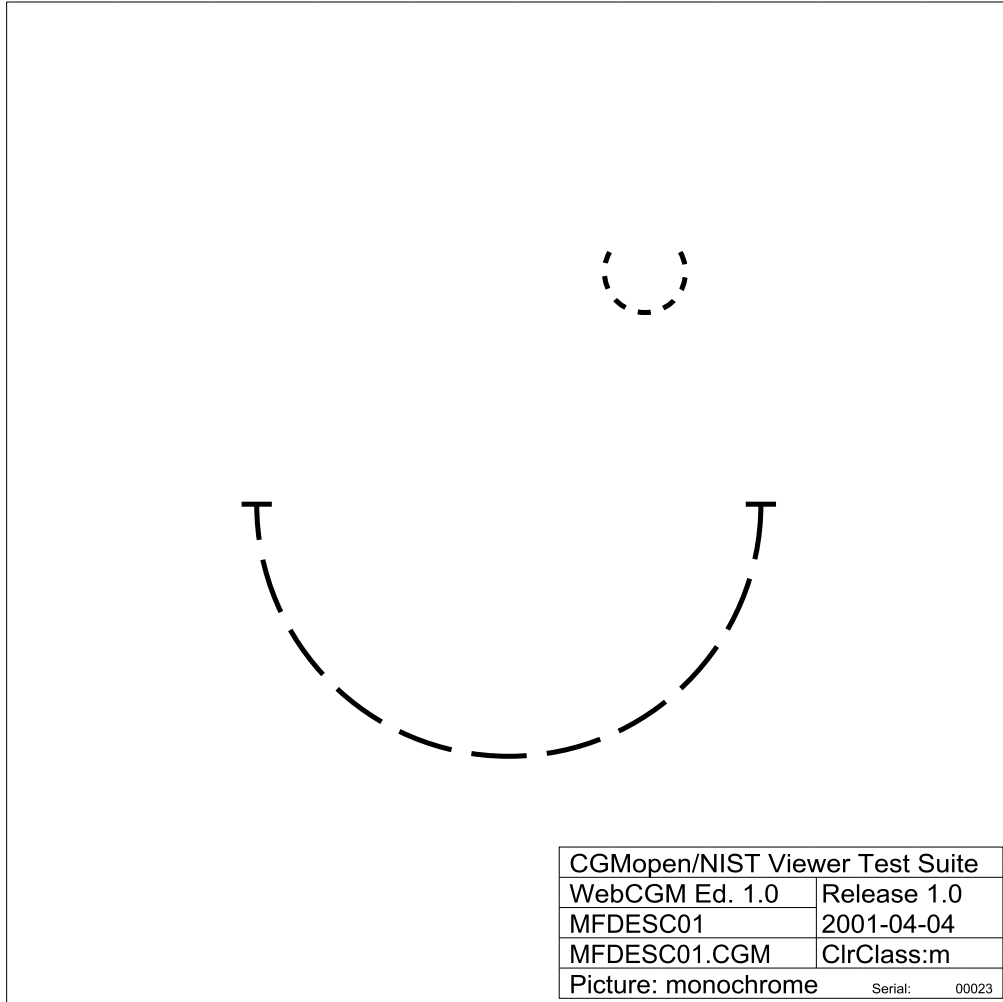


ZEROSZ01-PNG

Fig 40, Sheet 2 of 2 ZEROSZ01

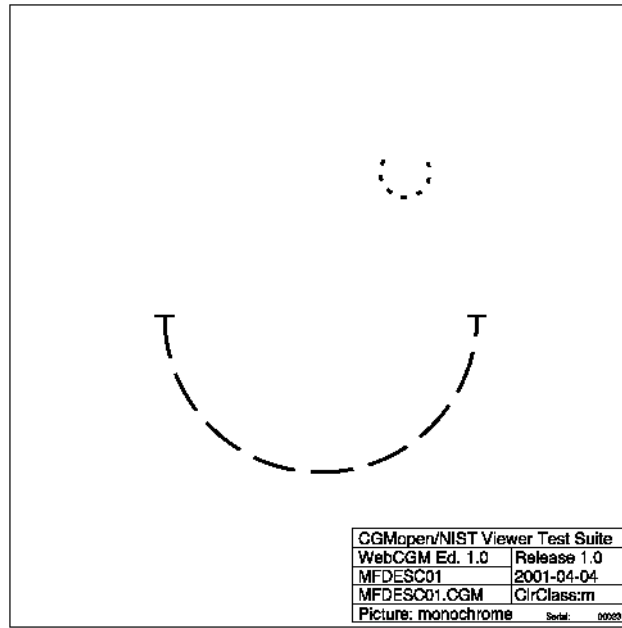
1.5 Descriptor Elements

1.5.1 MFDESC01



MFDESC01-CGM

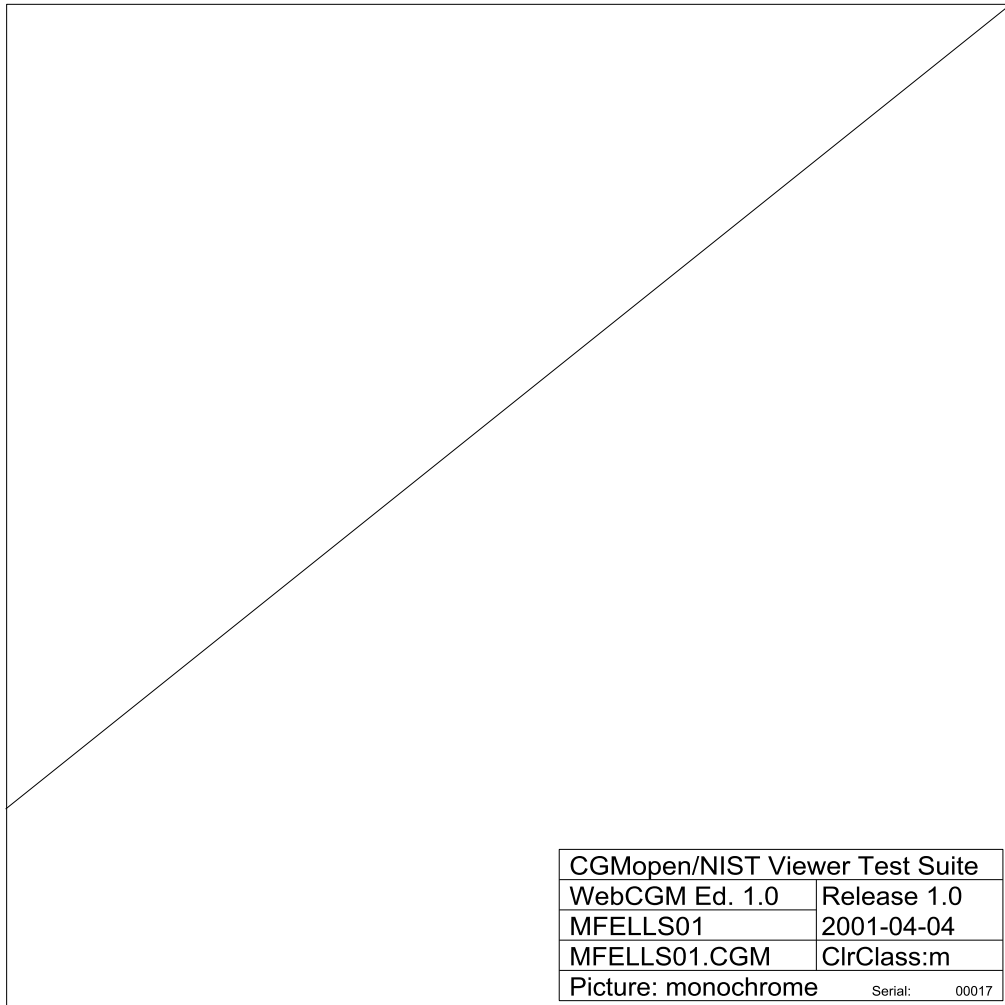
Fig 41, Sheet 1 of 2 MFDESC01



MFDESC01-PNG

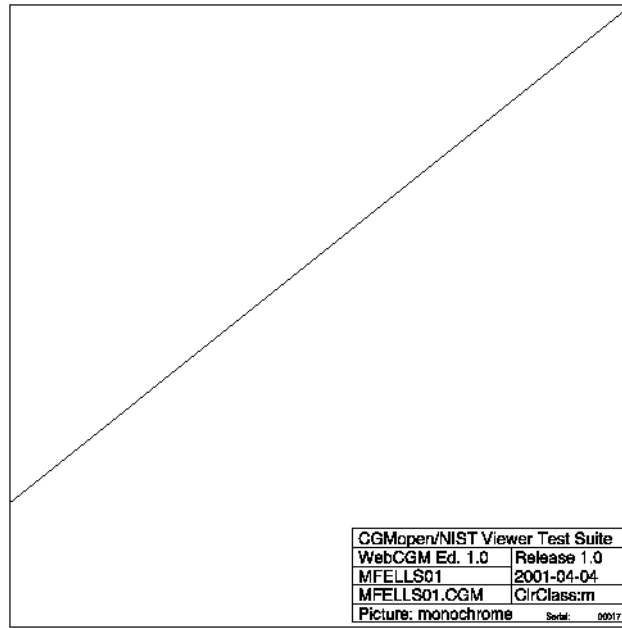
Fig 41, Sheet 2 of 2 MFDESC01

1.5.2 MFELLS01



MFELLS01-CGM

Fig 42, Sheet 1 of 2 MFELLS01

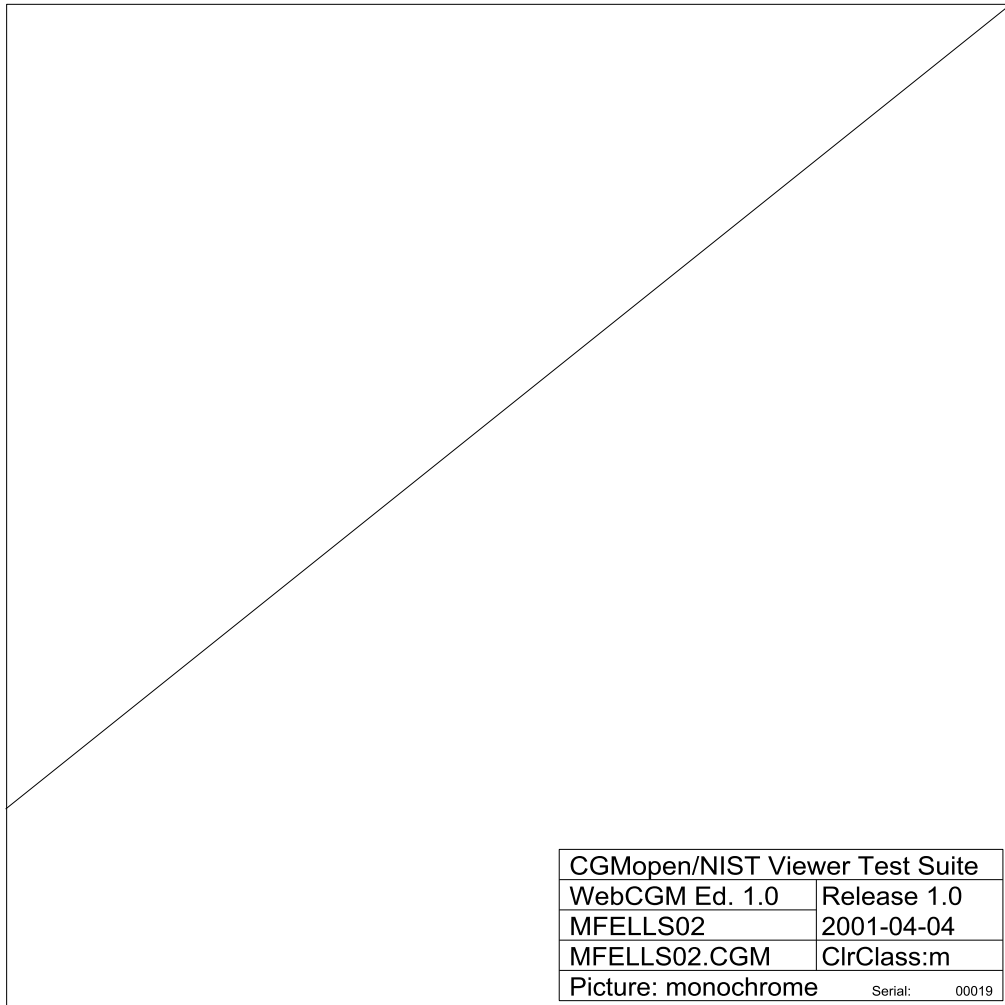


MFELLS01-PNG

Fig 42, Sheet 2 of 2 MFELLS01

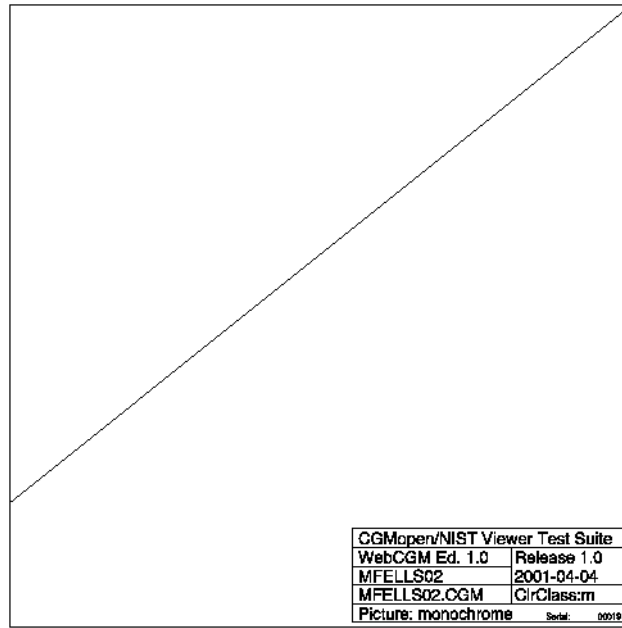


1.5.3 MFELLS02



MFELLS02-CGM

Fig 43, Sheet 1 of 2 MFELLS02



MFELLS02-PNG

Fig 43, Sheet 2 of 2 MFELLS02

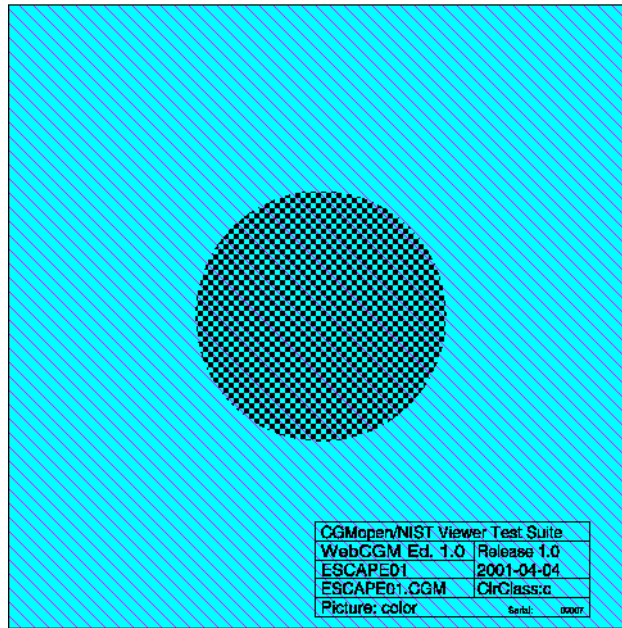
## 1.6 Escape Element

### 1.6.1 ESCAPE01



ESCAPE01-CGM

Fig 44, Sheet 1 of 2 ESCAPE01



ESCAPE01-PNG

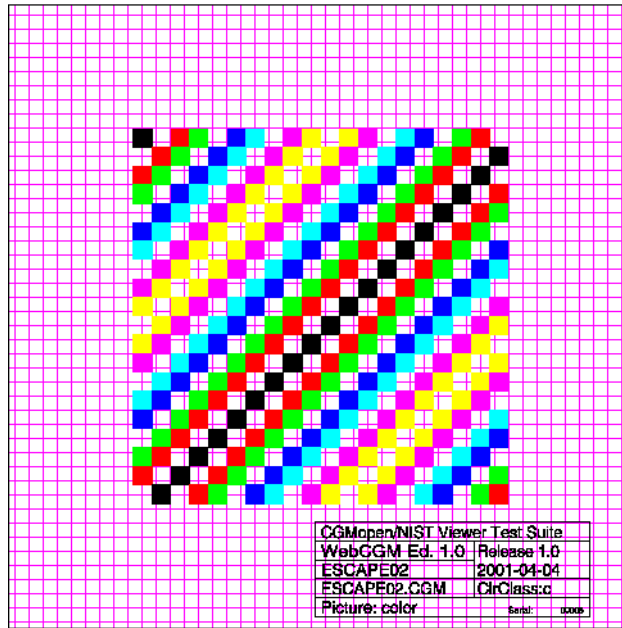
Fig 44, Sheet 2 of 2 ESCAPE01

1.6.2 ESCAPE02



ESCAPE02-CGM

Fig 45, Sheet 1 of 2 ESCAPE02

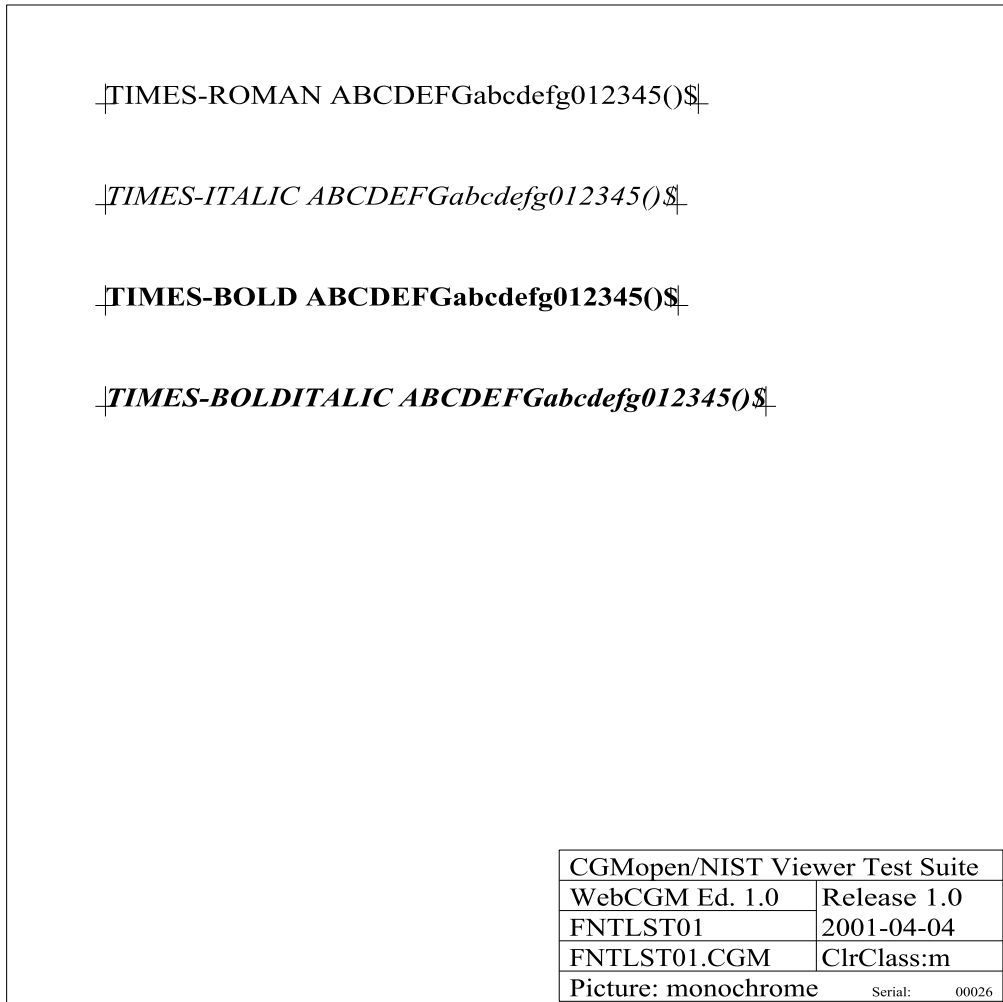


ESCAPE02-PNG

Fig 45, Sheet 2 of 2 ESCAPE02

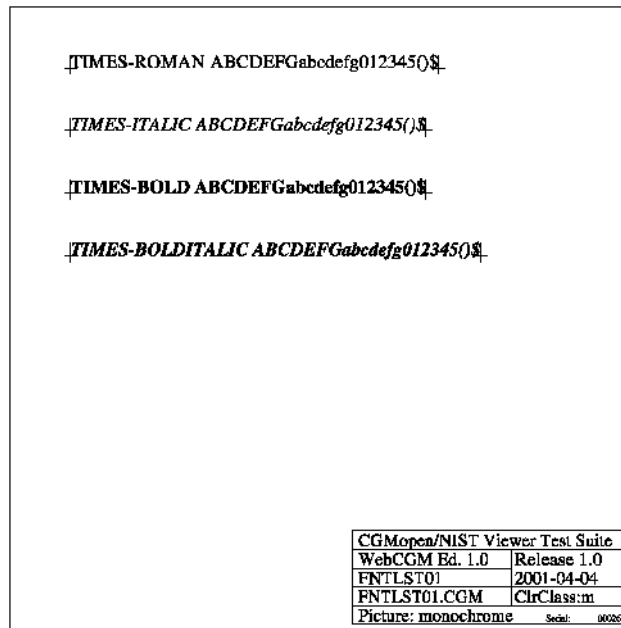
## 1.7 Fonts and Character Sets

### 1.7.1 FNTLST01



FNTLST01-CGM

Fig 46, Sheet 1 of 2 FNTLST01

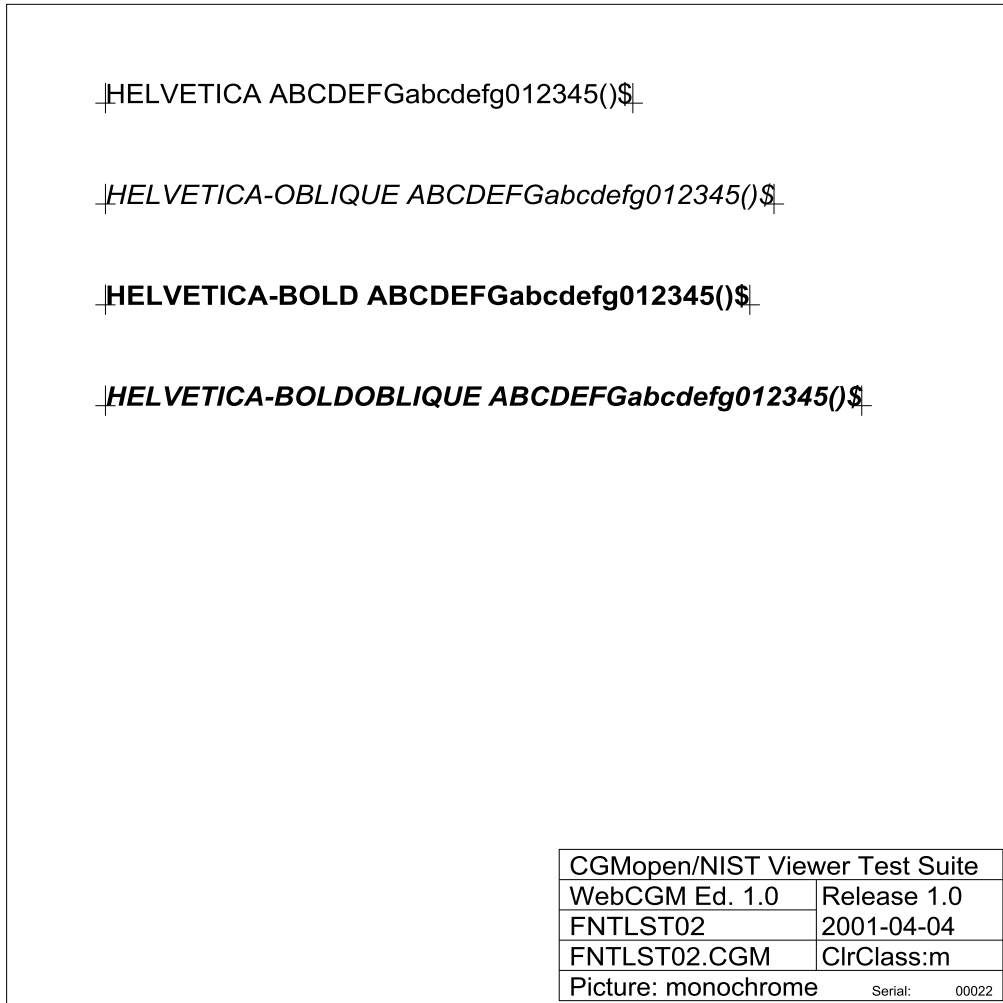


FNTLST01-PNG

Fig 46, Sheet 2 of 2 FNTLST01

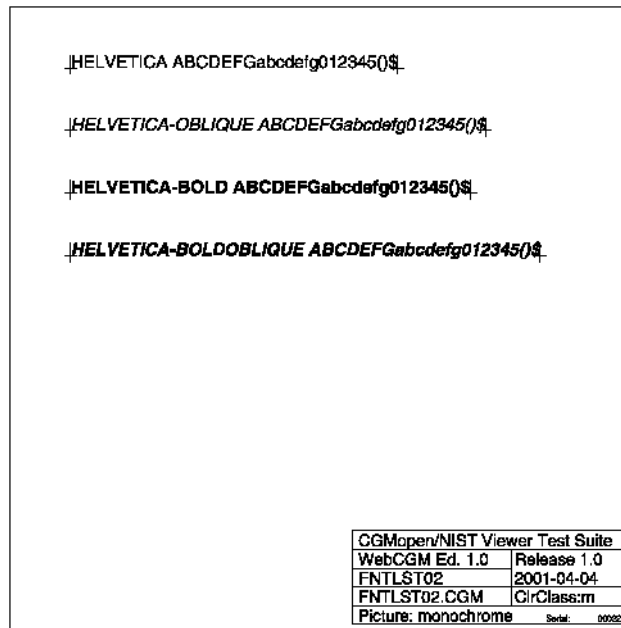


1.7.2 FNTLST02



FNTLST02-CGM

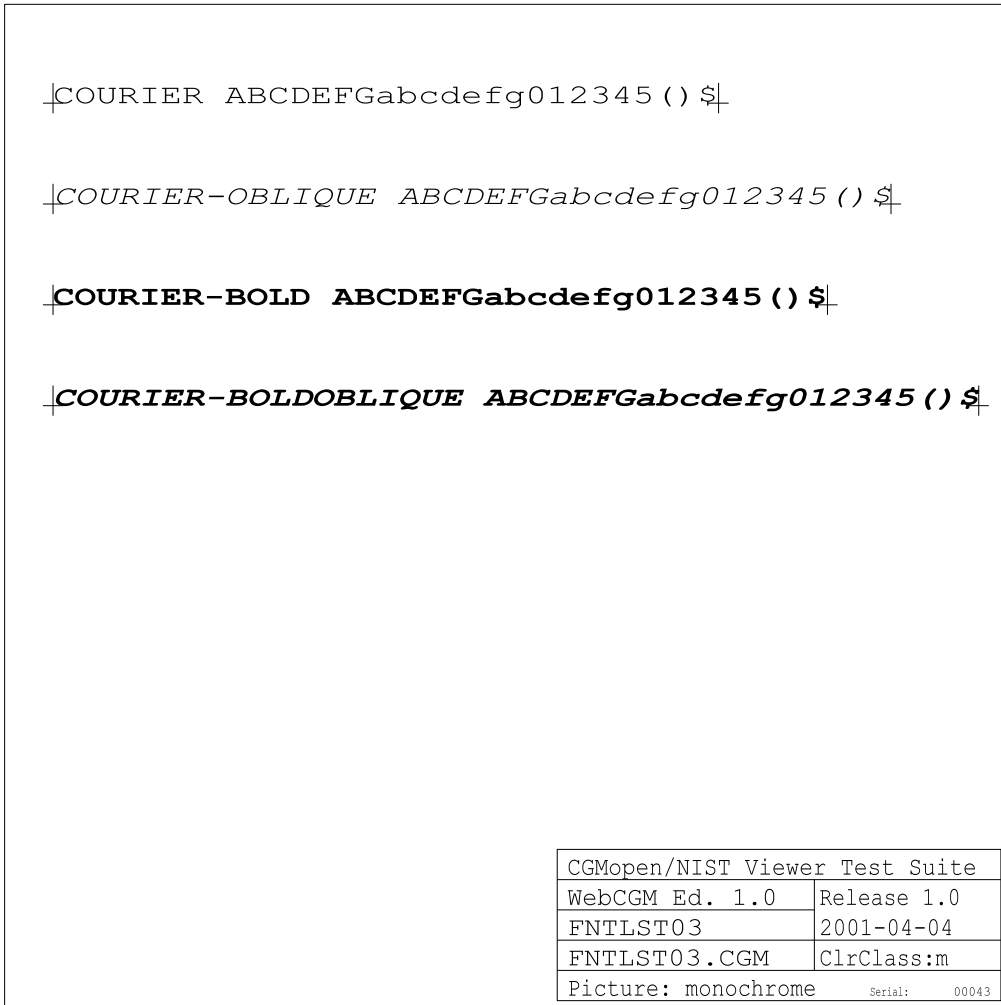
Fig 47, Sheet 1 of 2 FNTLST02



FNTLST02-PNG

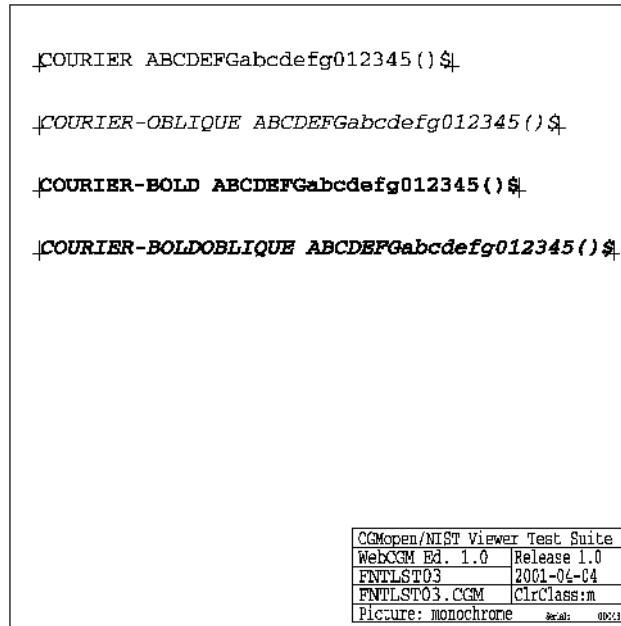
Fig 47, Sheet 2 of 2 FNTLST02

1.7.3 FNTLST03



FNTLST03-CGM

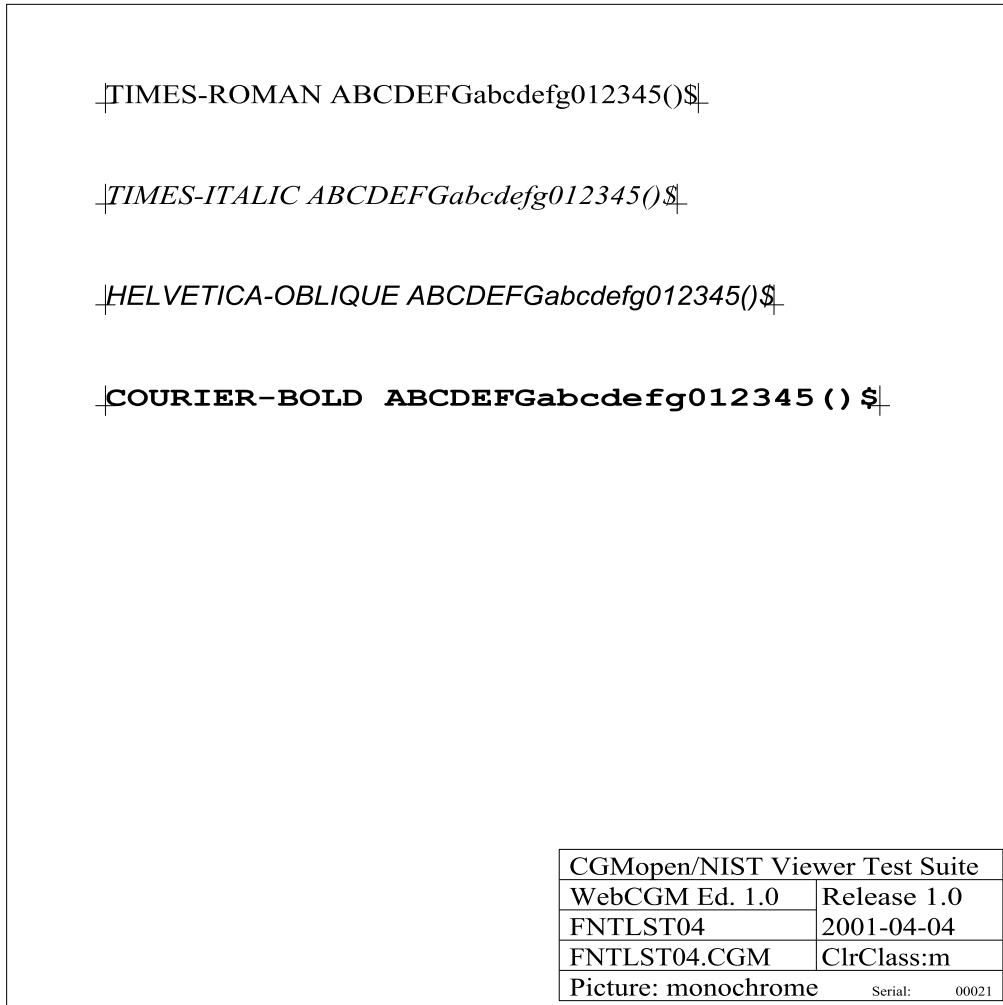
Fig 48, Sheet 1 of 2 FNTLST03



FNTLST03-PNG

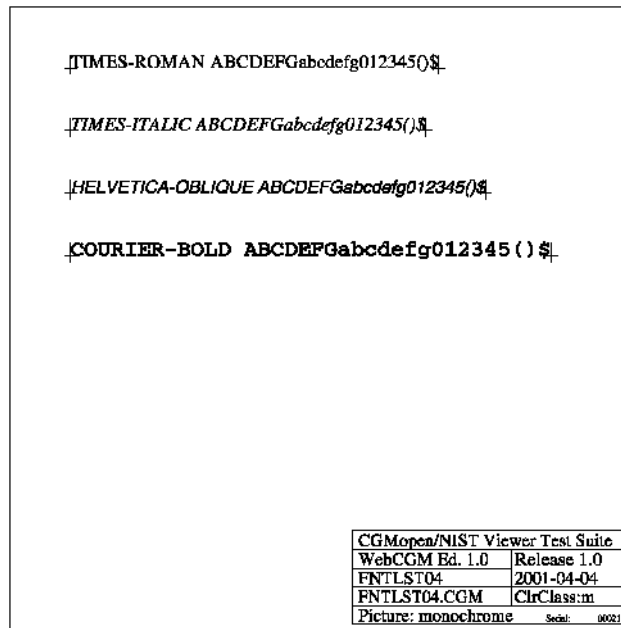
Fig 48, Sheet 2 of 2 FNTLST03

1.7.4 FNTLST04



FNTLST04-CGM

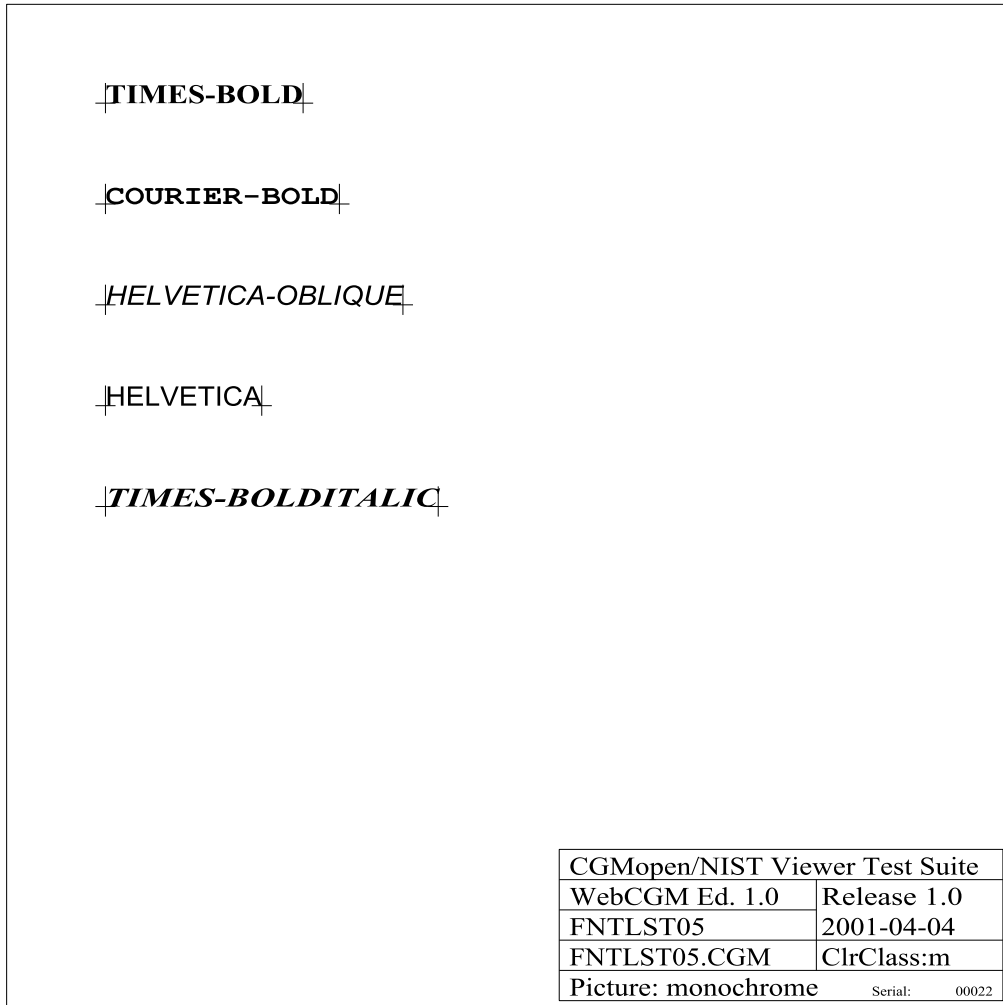
Fig 49, Sheet 1 of 2 FNTLST04



FNTLST04-PNG

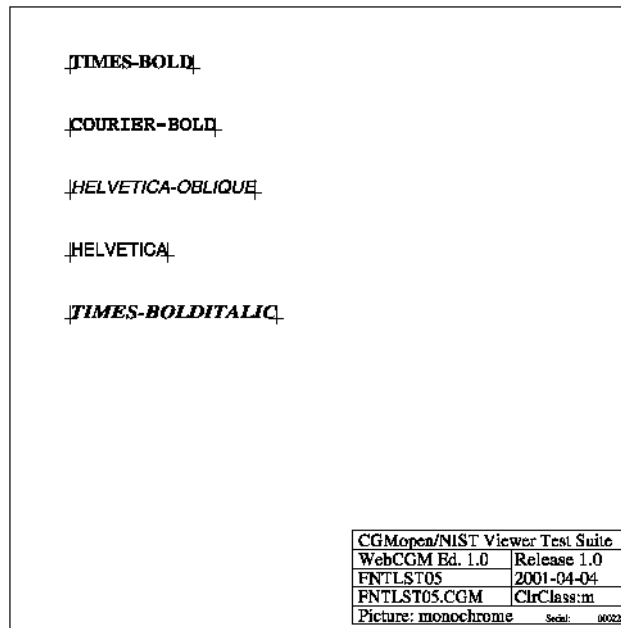
Fig 49, Sheet 2 of 2 FNTLST04

1.7.5 FNTLST05



FNTLST05-CGM

Fig 50, Sheet 1 of 2 FNTLST05

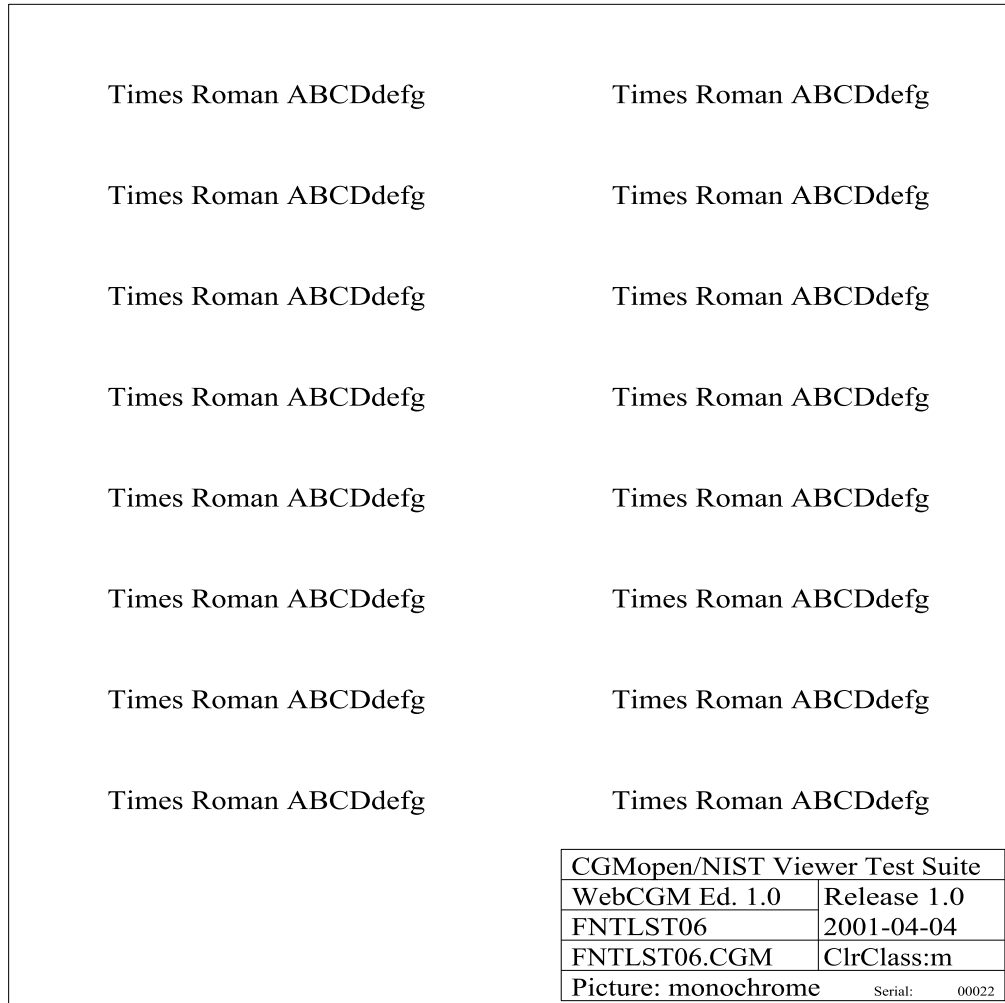


FNTLST05-PNG

Fig 50, Sheet 2 of 2 FNTLST05

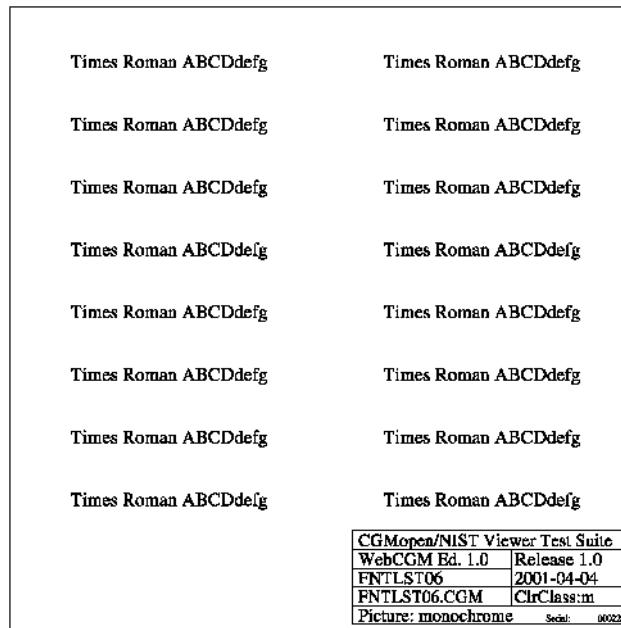


**1.7.6 FNTLST06**



FNTLST06-CGM

*Fig 51, Sheet 1 of 2 FNTLST06*



FNTLST06-PNG

Fig 51, Sheet 2 of 2 FNTLST06

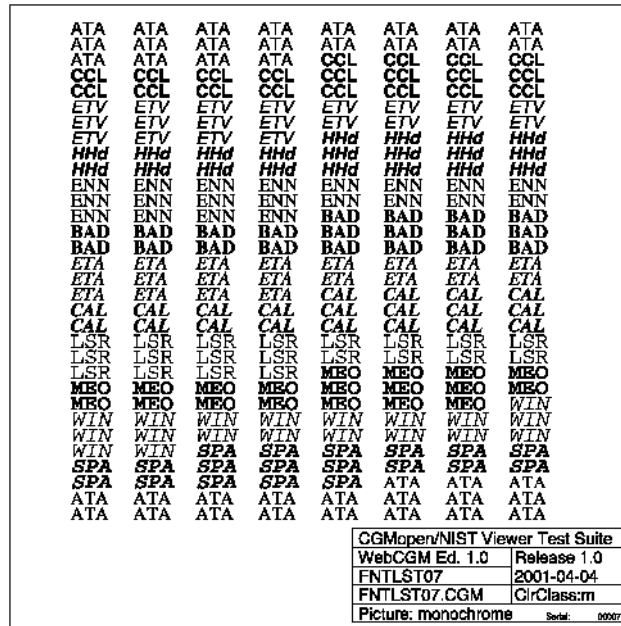
1.7.7 FNTLST07

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<b>CCL</b>	<b>CCL</b>	<b>CCL</b>	<b>CCL</b>	<b>CCL</b>	<b>CCL</b>	<b>CCL</b>	<b>CCL</b>
<b>CCL</b>	<b>CCL</b>	<b>CCL</b>	<b>CCL</b>	<b>CCL</b>	<b>CCL</b>	<b>CCL</b>	<b>CCL</b>
<i>ETV</i>	<i>ETV</i>	<i>ETV</i>	<i>ETV</i>	<i>ETV</i>	<i>ETV</i>	<i>ETV</i>	<i>ETV</i>
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<b>HHd</b>	<b>HHd</b>	<b>HHd</b>	<b>HHd</b>	<b>HHd</b>	<b>HHd</b>	<b>HHd</b>	<b>HHd</b>
<b>HHd</b>	<b>HHd</b>	<b>HHd</b>	<b>HHd</b>	<b>HHd</b>	<b>HHd</b>	<b>HHd</b>	<b>HHd</b>
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ENN	ENN	ENN	ENN	<b>BAD</b>	<b>BAD</b>	<b>BAD</b>	<b>BAD</b>
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LSR	LSR	LSR	LSR	LSR	LSR	LSR	LSR
LSR	LSR	LSR	LSR	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>
<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>
<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>	<b>MEO</b>
<i>WIN</i>	<i>WIN</i>	<i>WIN</i>	<i>WIN</i>	<i>WIN</i>	<i>WIN</i>	<i>WIN</i>	<i>WIN</i>
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<b>SPA</b>	<b>SPA</b>	<b>SPA</b>	<b>SPA</b>	<b>SPA</b>	<b>SPA</b>	<b>SPA</b>	<b>SPA</b>
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FNTLST07	2001-04-04
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Picture: monochrome	Serial: 00007

FNTLST07-CGM

Fig 52, Sheet 1 of 2 FNTLST07



FNTLST07-PNG

Fig 52, Sheet 2 of 2 FNTLST07

1.7.8 CHRSET01

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0				0	@	P	`	p				°	À	Ð	à	ð
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2			"	2	B	R	b	r			¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s			£	³	Ã	Ó	ã	ó
4			\$	4	D	T	d	t			¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u			¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v			¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w			§	·	Ç	×	ç	÷
8			(	8	H	X	h	x			¨	,	È	Ø	è	ø
9			)	9	I	Y	i	y			©	¹	É	Ù	é	ù
10			*	:	J	Z	j	z			ª	º	Ê	Ú	ê	ú
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CHRSET01-CGM

Fig 53, Sheet 1 of 2 CHRSET01

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	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
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CHRSET01-PNG

Fig 53, Sheet 2 of 2 CHRSET01

1.7.9 CHRSET02

	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
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Picture: monochrome	Serial: 00030

CHRSET02-CGM

Fig 54, Sheet 1 of 2 CHRSET02

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3		#	3	X	Σ	χ	σ			≤	≥	∅	∅	∫		
4		∃	4	Δ	T	δ	τ			/	x	⊗	™	™		
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6		&	6	Φ	ς	φ	ω			/	∂	∅	√	(	)	
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9		)	9	I	Ψ	ι	ψ			♥	≠	∩	∧			
10		*	:	∅	Z	φ	ζ			↓	=	∅	∇			
11		+	;	K	[	κ	{			↔	≈	∅	↔	L	J	
12		,	<	A	:	k				←	...	ε	←			
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WebCEM Ed. 1.0 Release 1.0  
CHRSET02 2001-04-04  
CHRSET02.CGM CirClass.m  
Figure: monochrome sheet: 0008

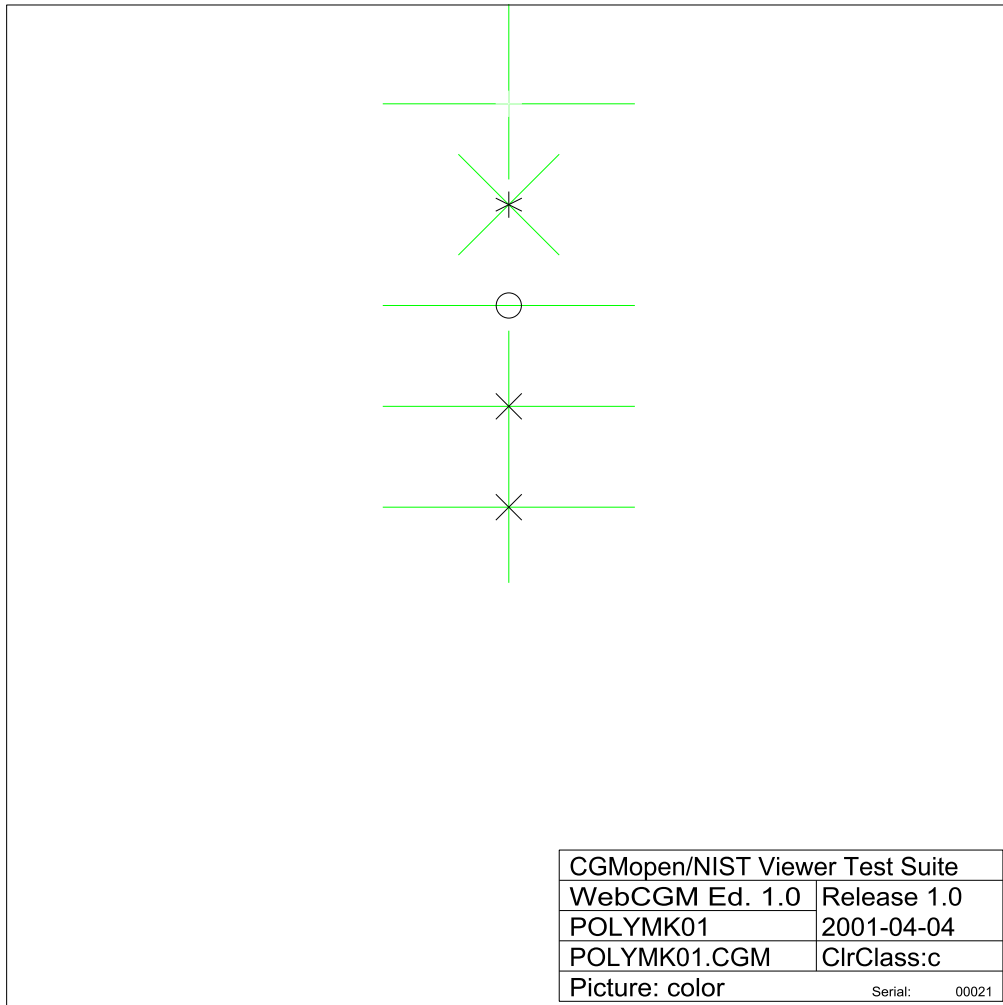
CHRSET02-PNG

Fig 54, Sheet 2 of 2 CHRSET02



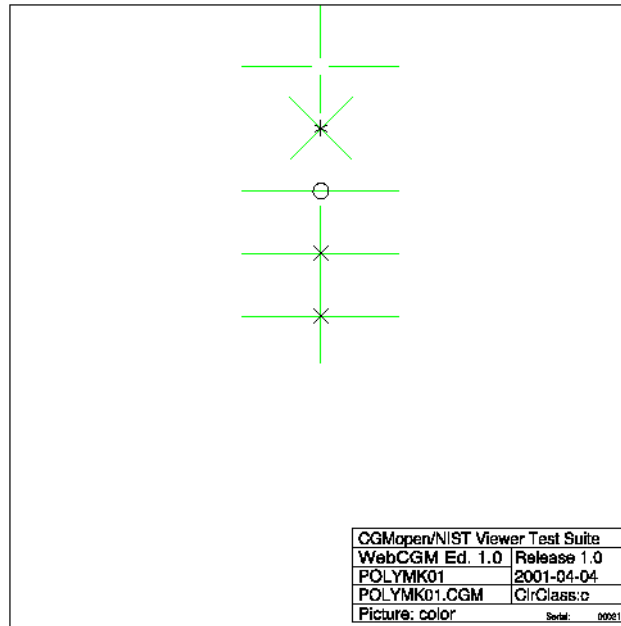
1.8 Marker Element

1.8.1 POLYMK01



POLYMK01-CGM

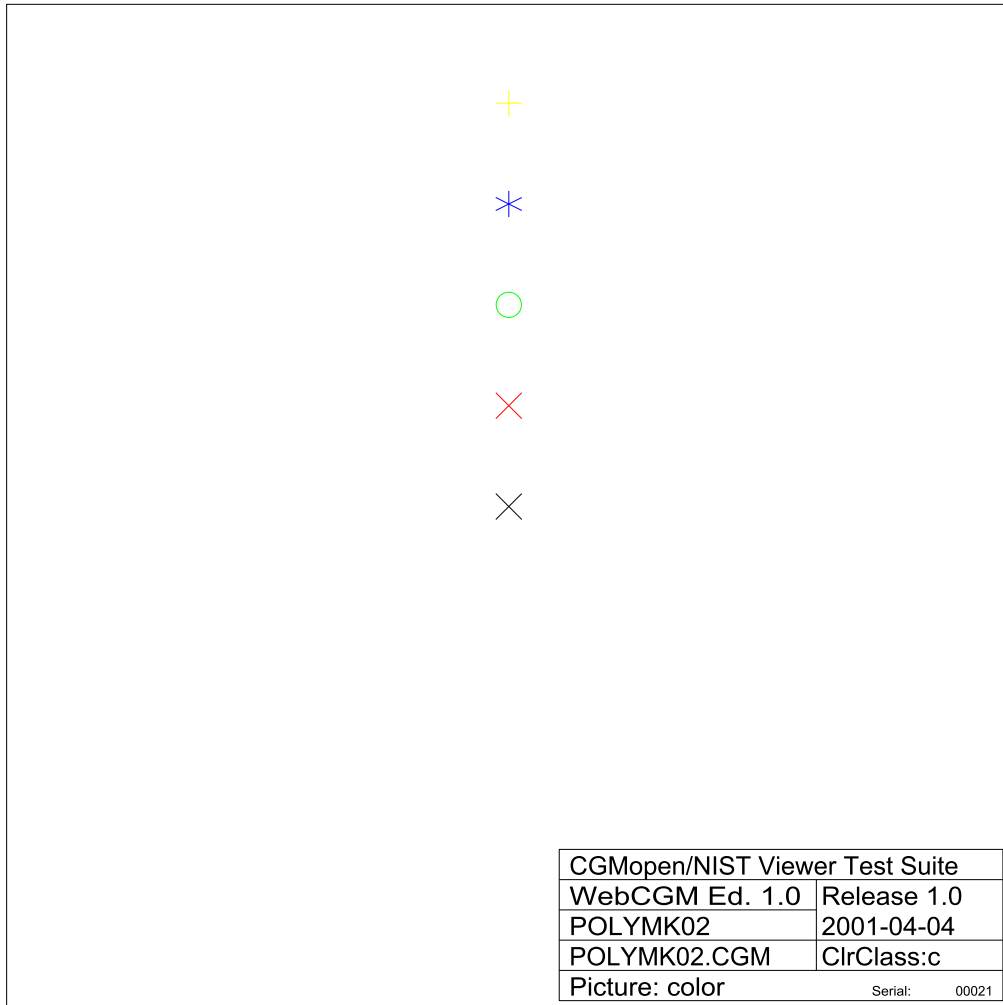
Fig 55, Sheet 1 of 2 POLYMK01



POLYMK01-PNG

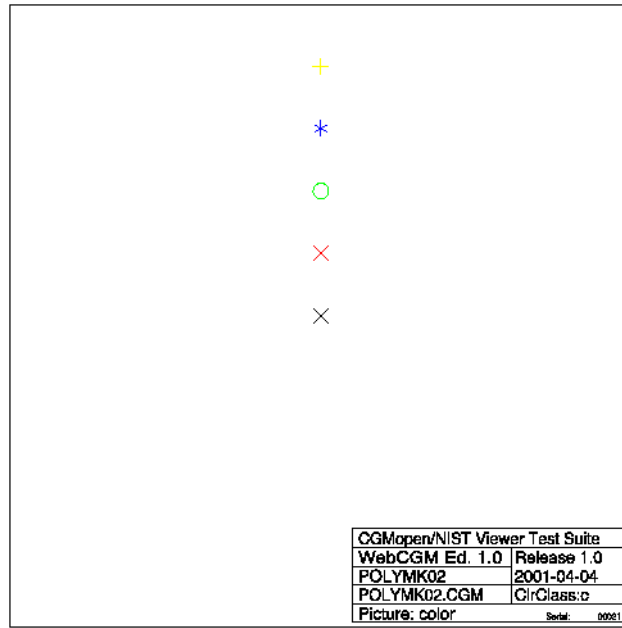
Fig 55, Sheet 2 of 2 POLYMK01

1.8.2 POLYMK02



POLYMK02-CGM

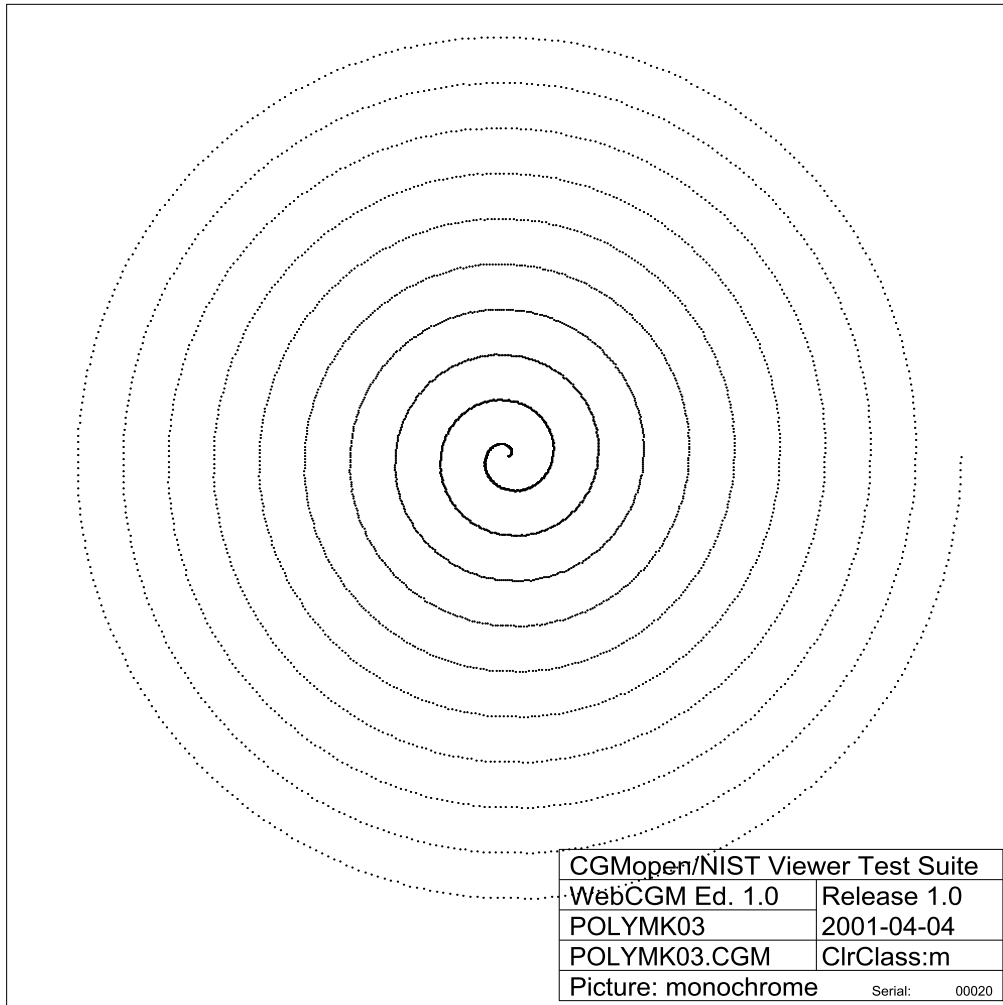
Fig 56, Sheet 1 of 2 POLYMK02



POLYMK02-PNG

Fig 56, Sheet 2 of 2 POLYMK02

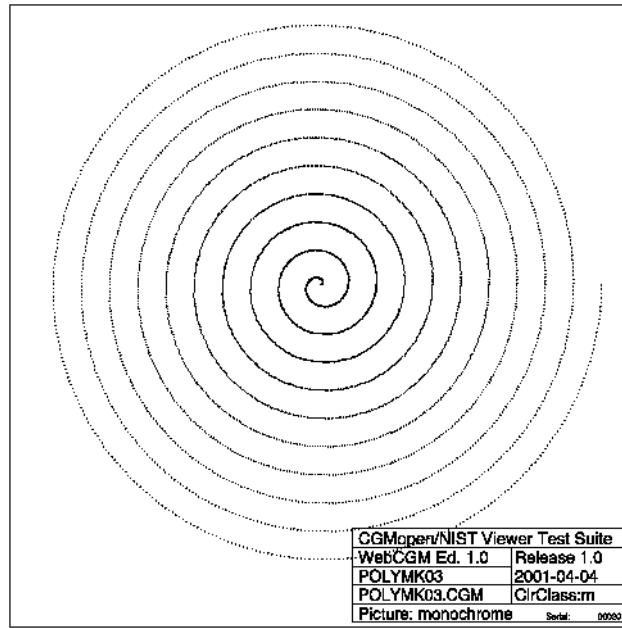
1.8.3 POLYMK03



POLYMK03-CGM

Fig 57, Sheet 1 of 2 POLYMK03

Produced by Docuneering Ltd.

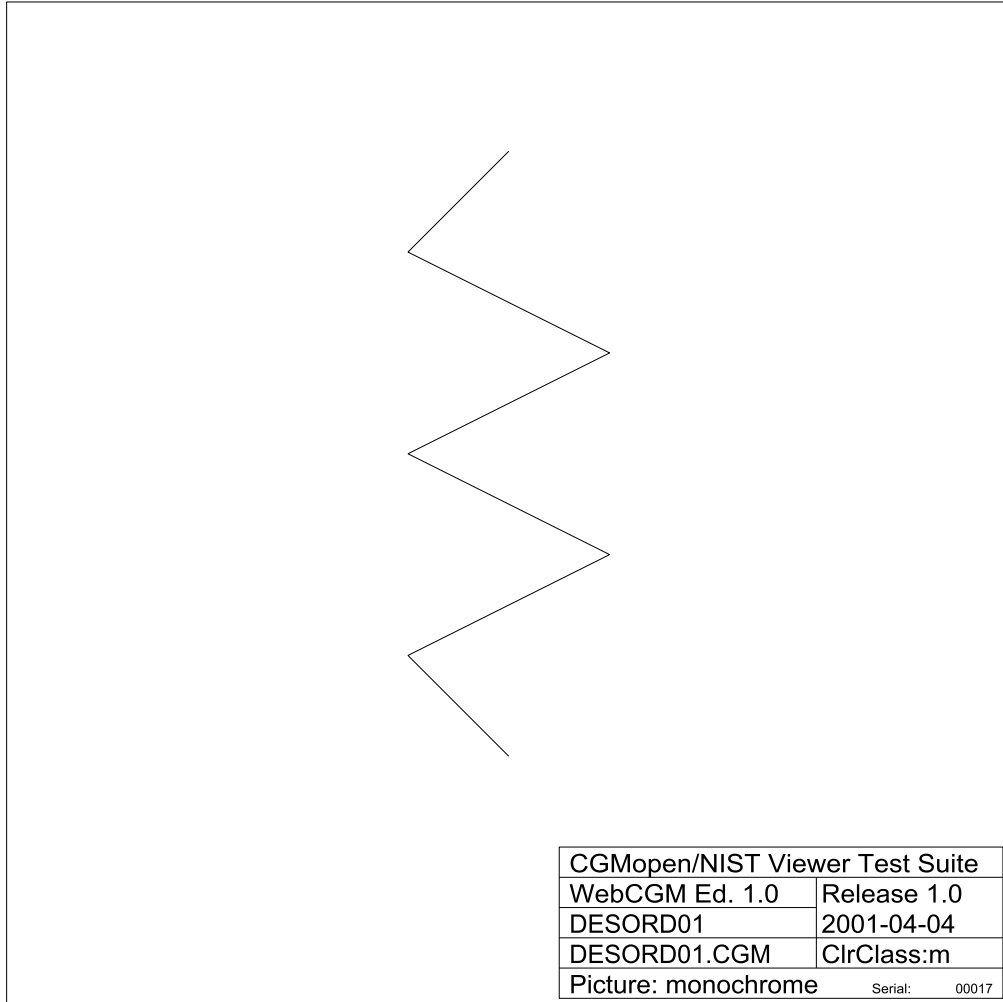


POLYMK03-PNG

Fig 57, Sheet 2 of 2 POLYMK03

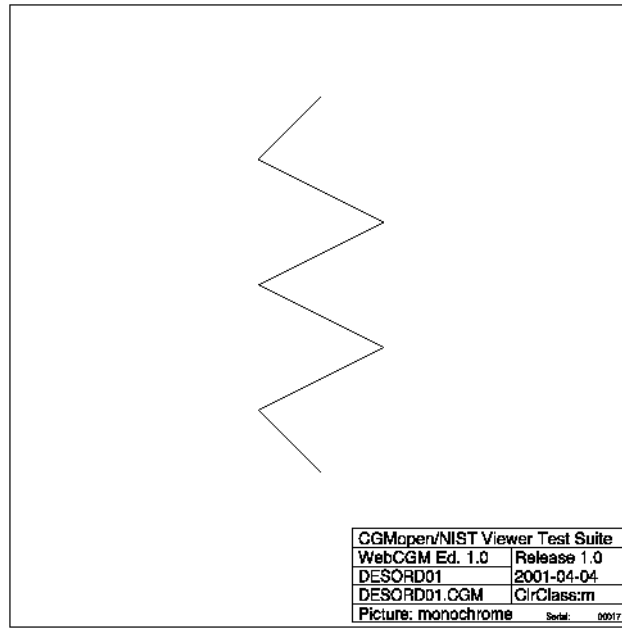
1.9 Order and Encoding Features

1.9.1 DESORD01



DESORD01-CGM

Fig 58, Sheet 1 of 2 DESORD01

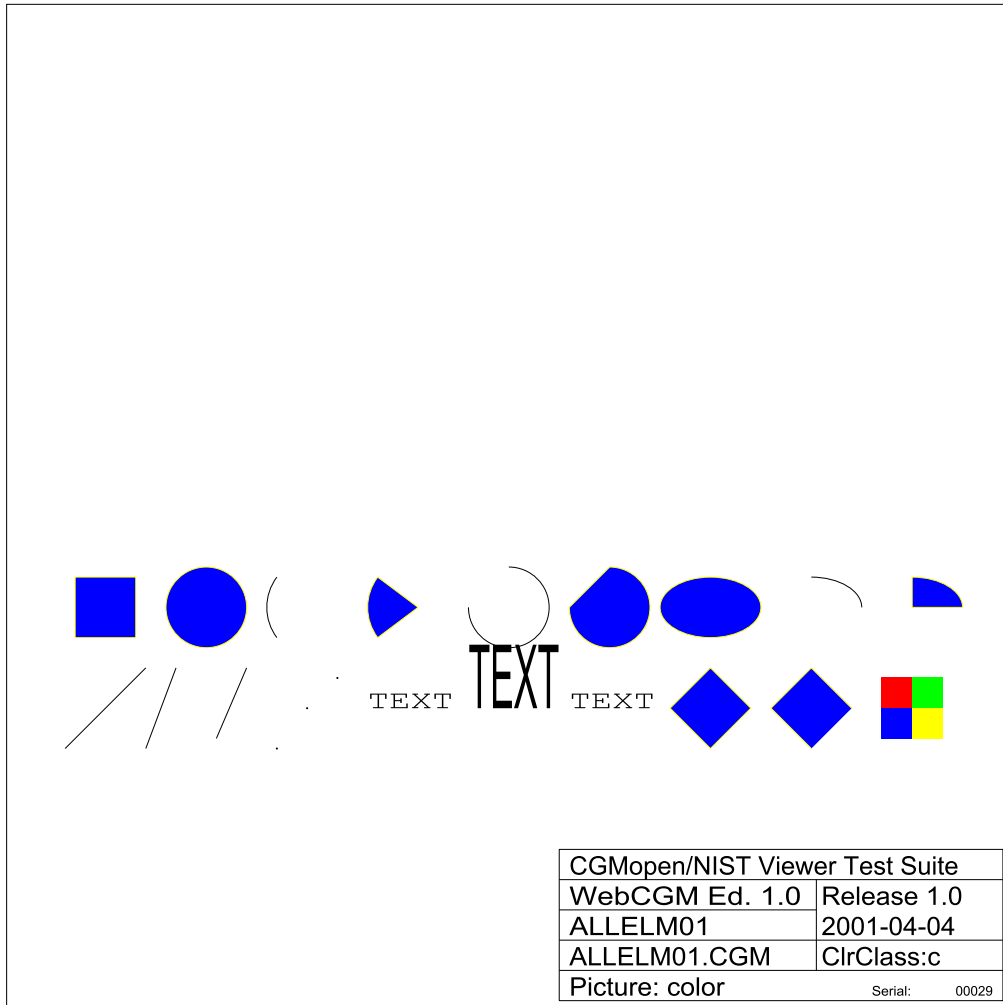


DESORD01-PNG

Fig 58, Sheet 2 of 2 DESORD01

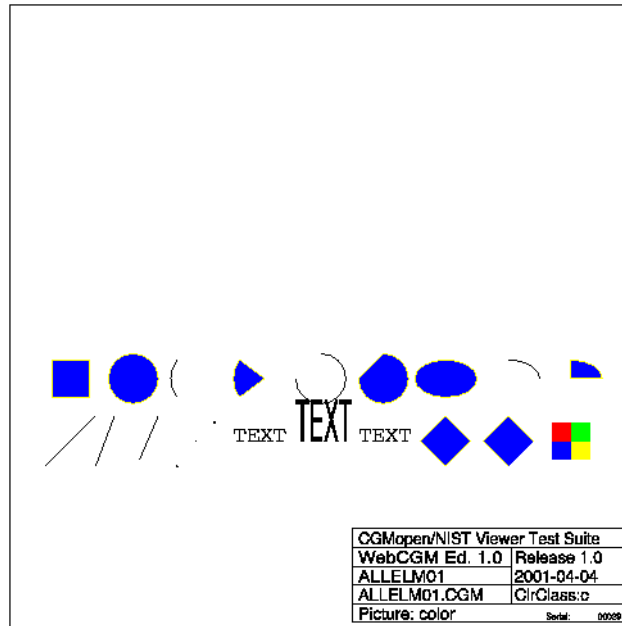


1.9.2 ALLELM01



ALLELM01-CGM

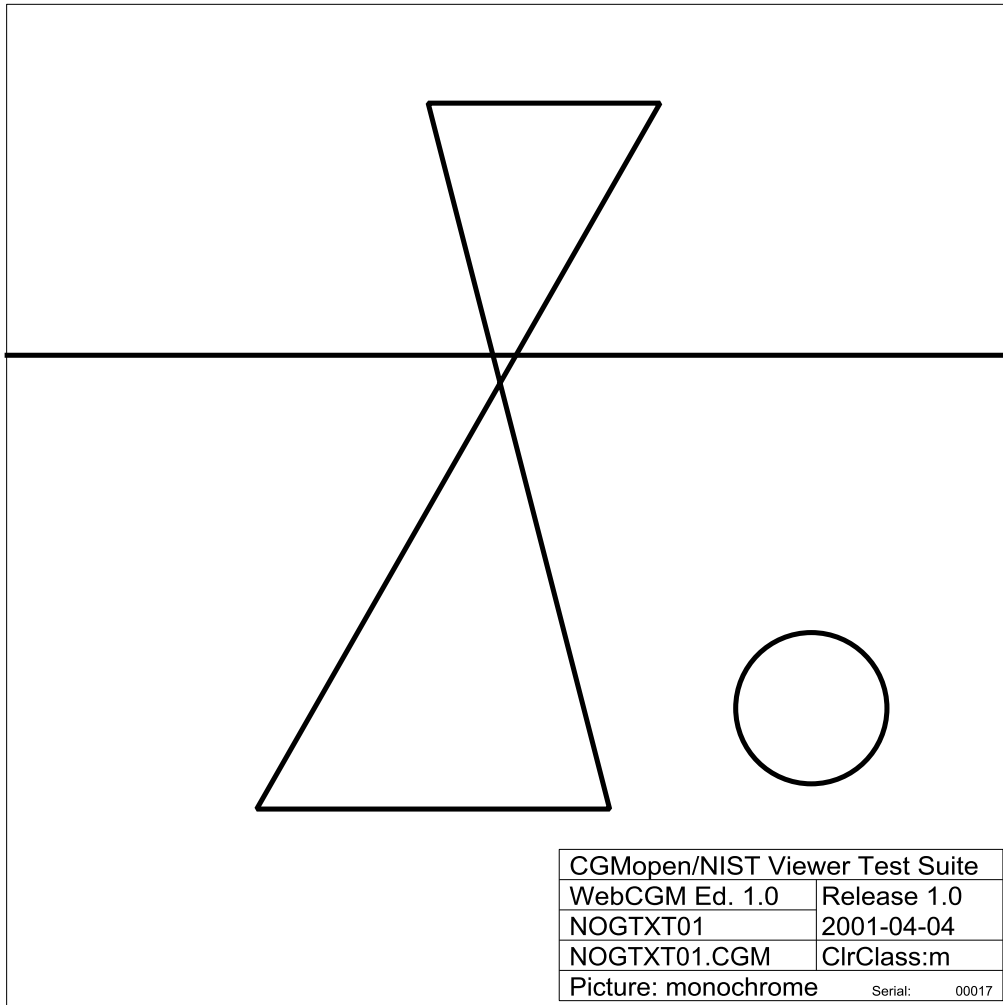
Fig 59, Sheet 1 of 2 ALLELM01



ALLELM01-PNG

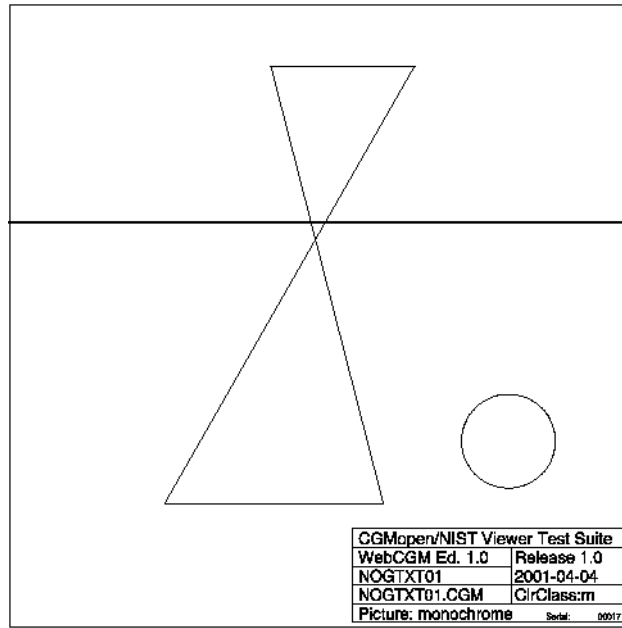
Fig 59, Sheet 2 of 2 ALLELM01

1.9.3 NOGTX01



NOGTX01-CGM

Fig 60, Sheet 1 of 2 NOGTX01

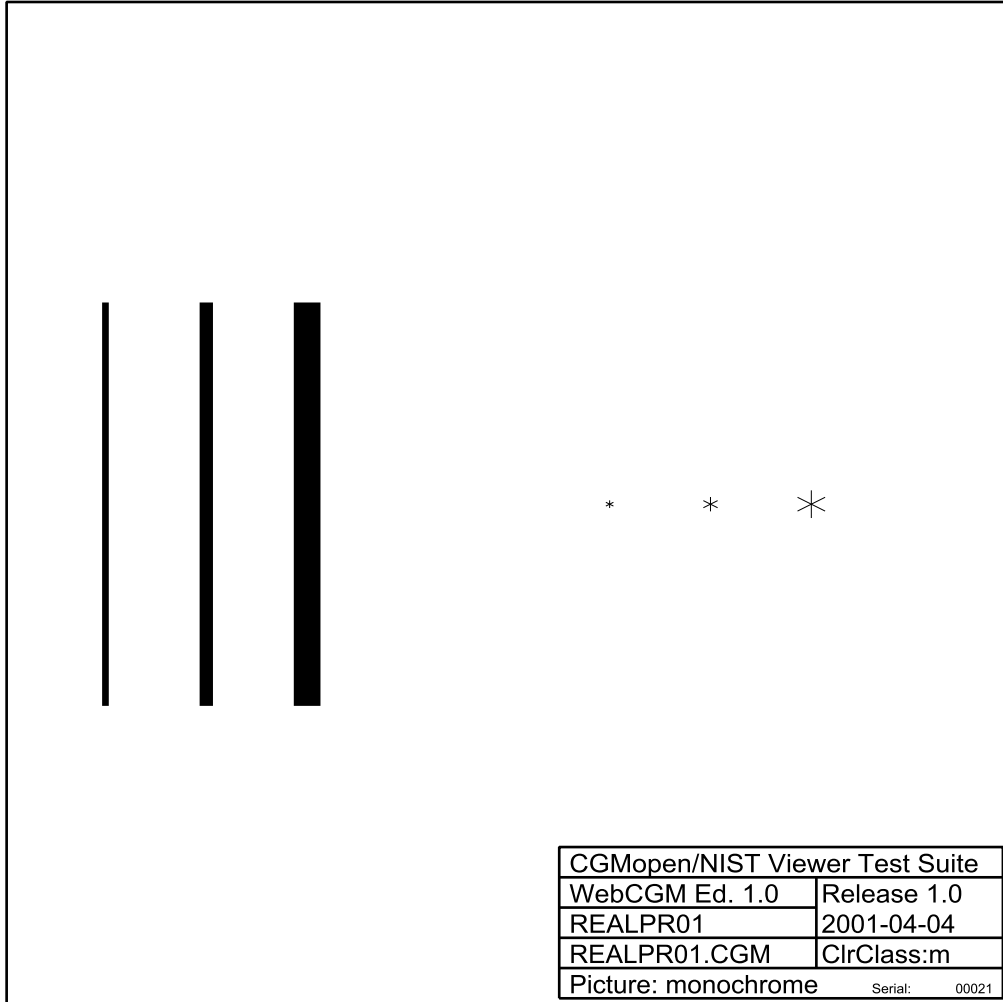


NOGTX01-PNG

Fig 60, Sheet 2 of 2 NOGTX01

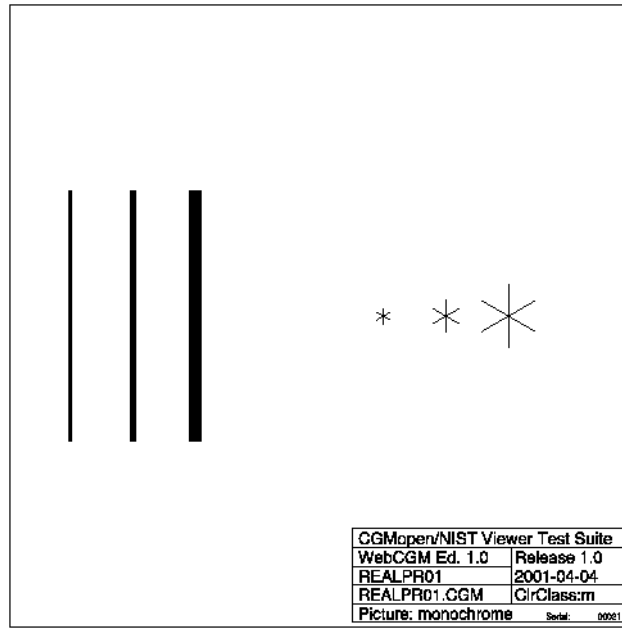
## 1.10 Precisions

### 1.10.1 REALPR01



REALPR01-CGM

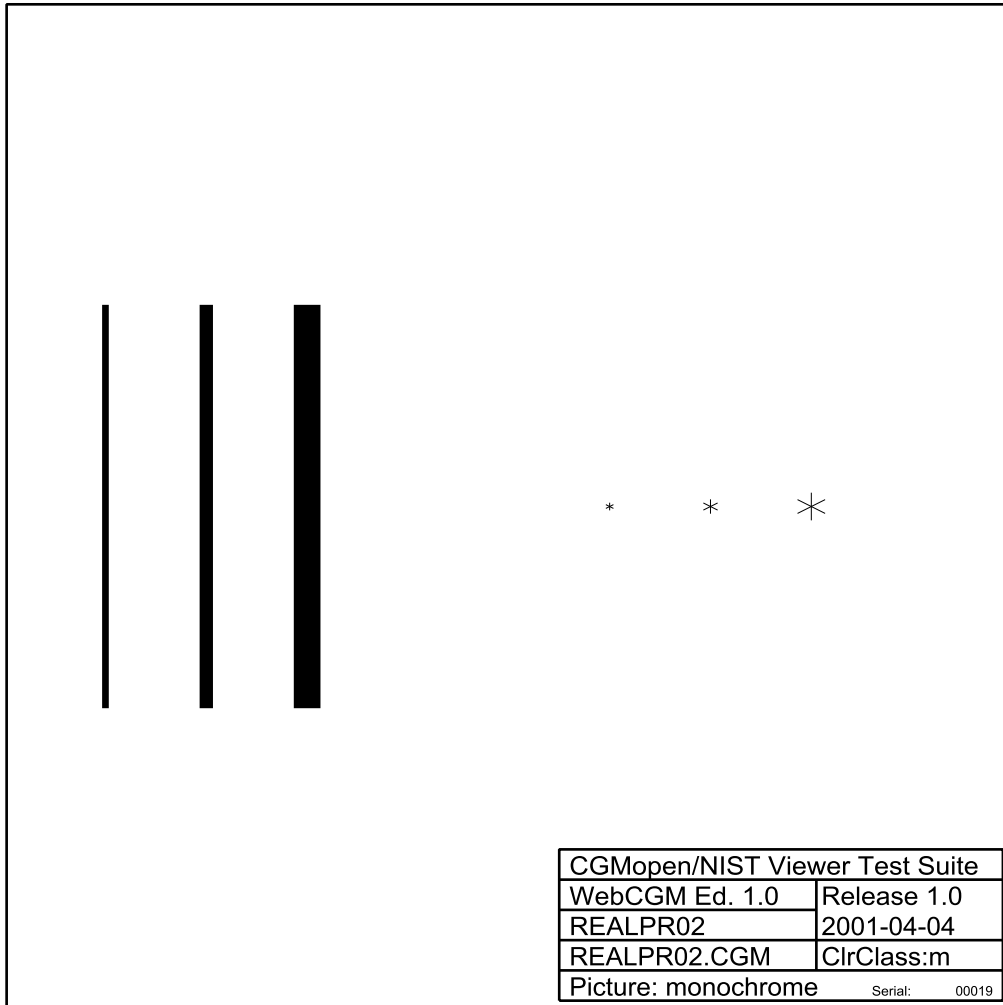
Fig 61, Sheet 1 of 2 REALPR01



REALPR01-PNG

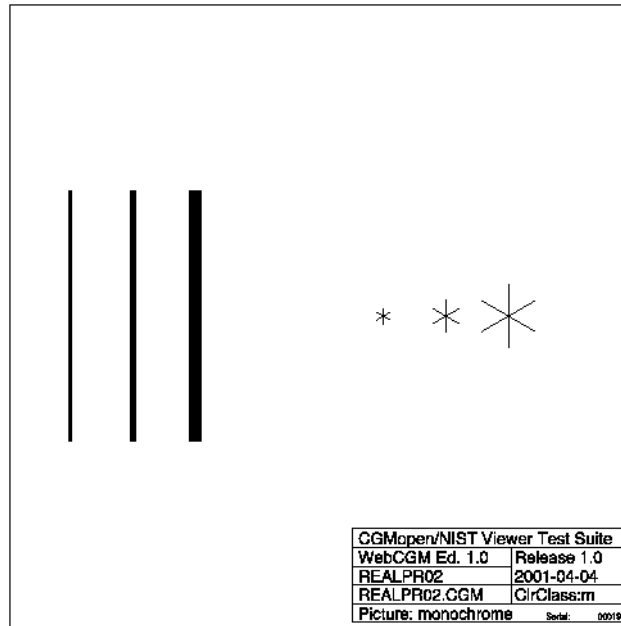
Fig 61, Sheet 2 of 2 REALPR01

1.10.2 REALPR02



REALPR02-CGM

Fig 62, Sheet 1 of 2 REALPR02

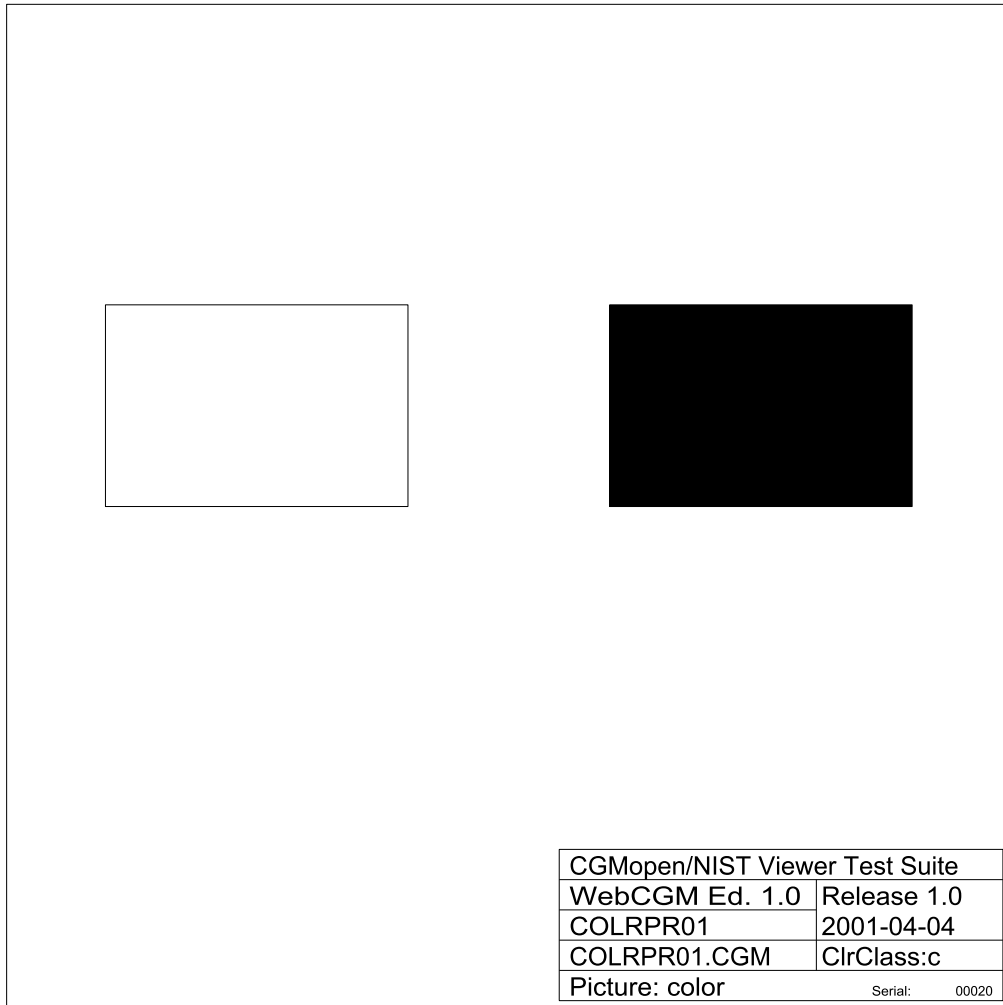


REALPR02-PNG

Fig 62, Sheet 2 of 2 REALPR02

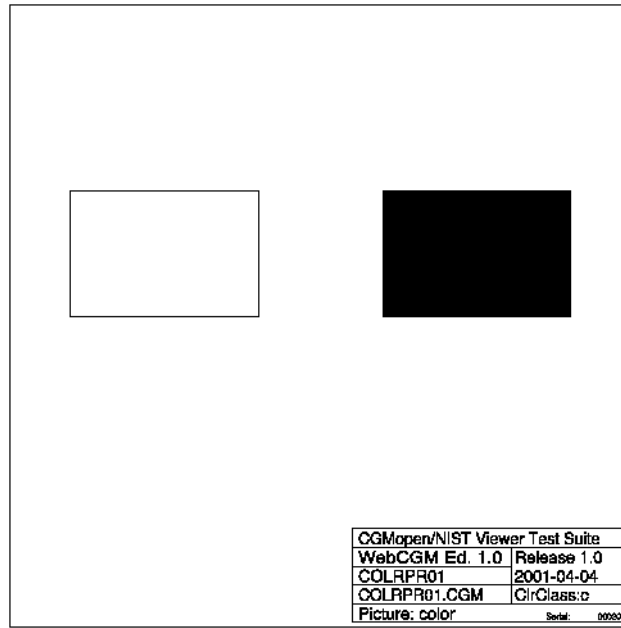


1.10.3 COLRPR01



COLRPR01-CGM

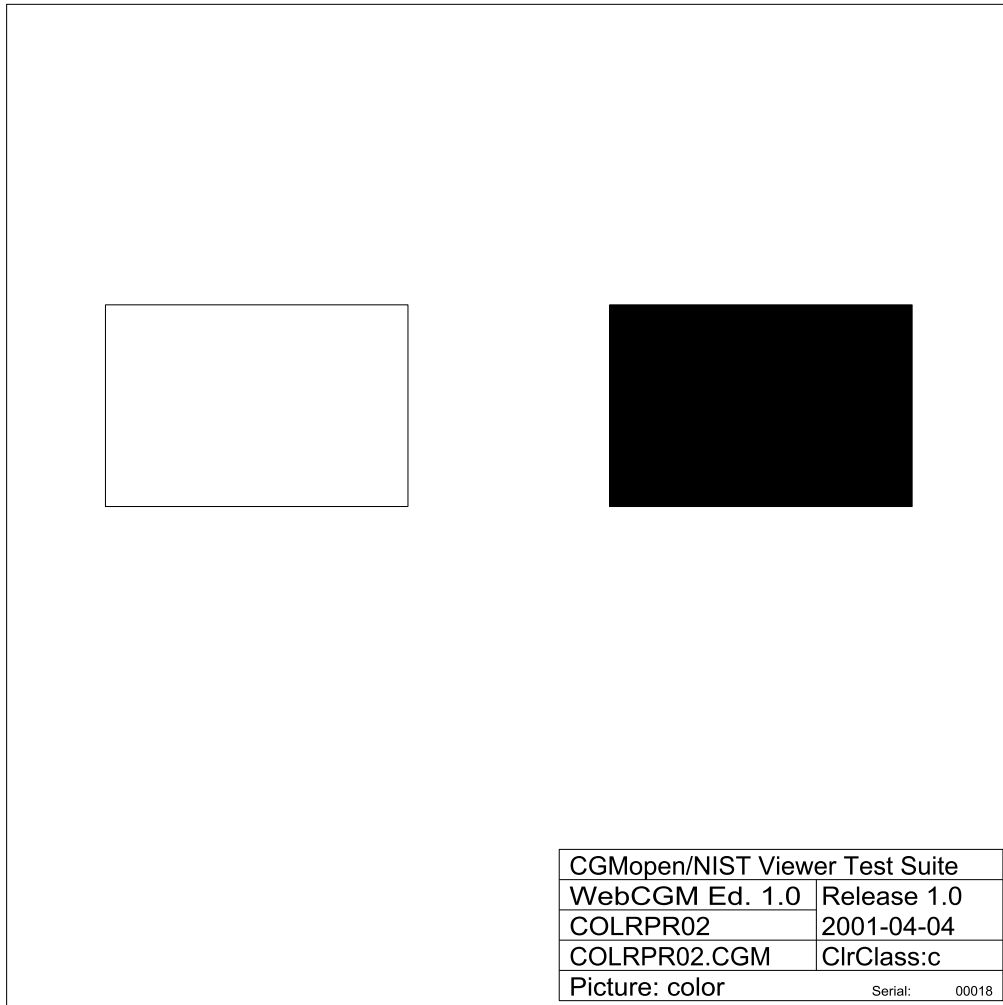
Fig 63, Sheet 1 of 2 COLRPR01



COLRPR01-PNG

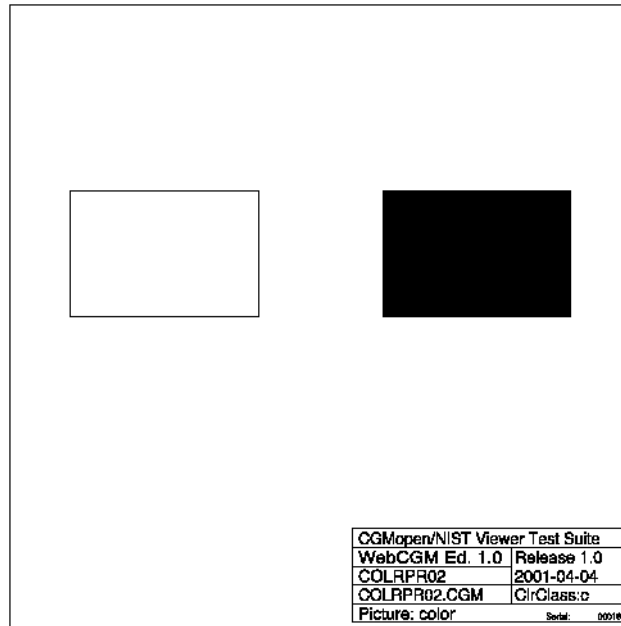
Fig 63, Sheet 2 of 2 COLRPR01

1.10.4 COLRPR02



COLRPR02-CGM

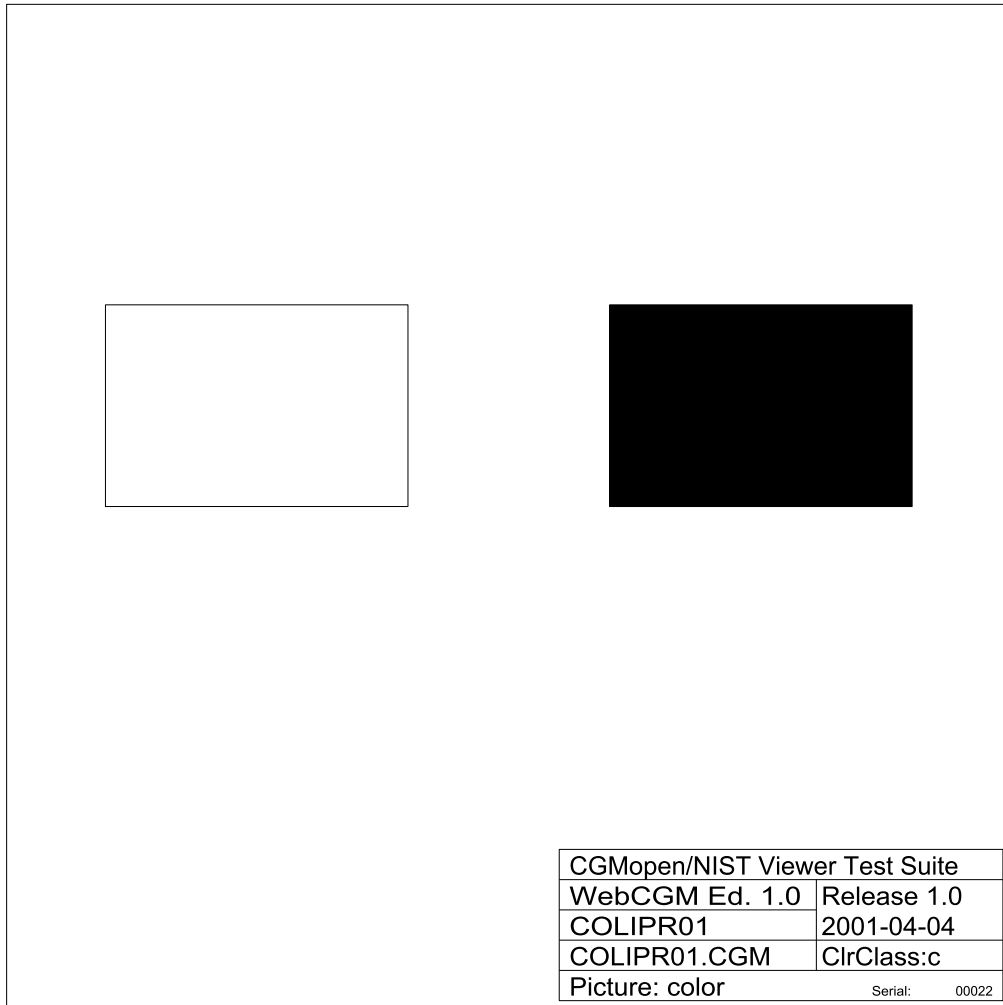
Fig 64, Sheet 1 of 2 COLRPR02



COLRPR02-PNG

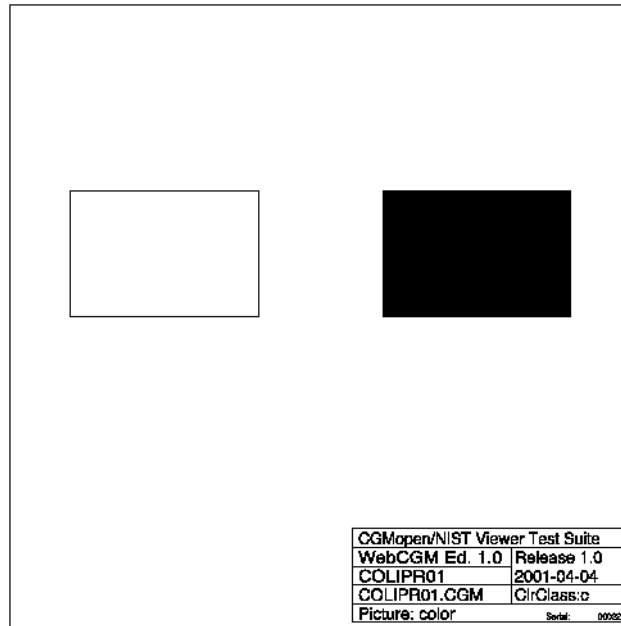
Fig 64, Sheet 2 of 2 COLRPR02

1.10.5 COLIPR01



COLIPR01-CGM

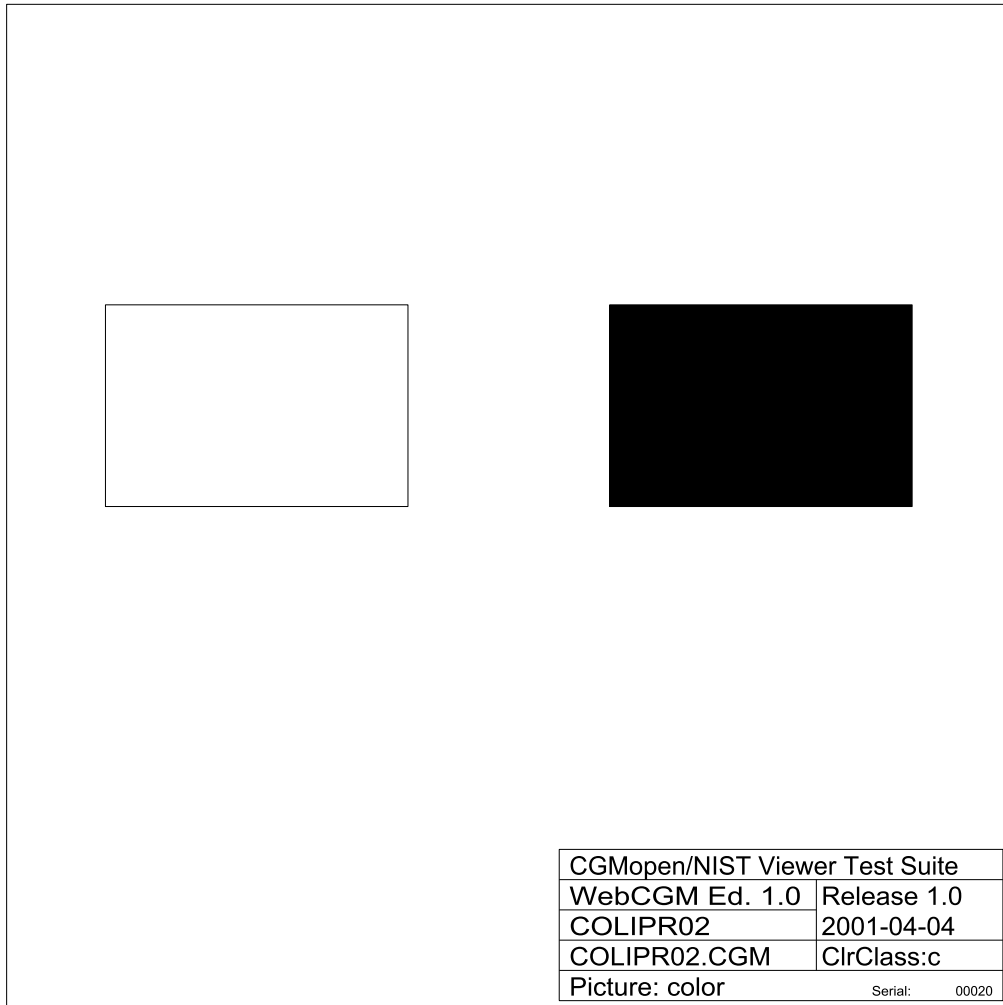
Fig 65, Sheet 1 of 2 COLIPR01



COLIPR01-PNG

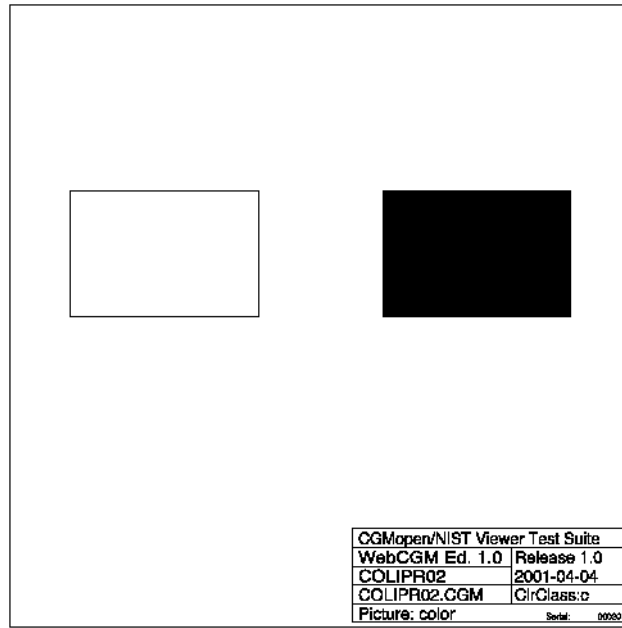
Fig 65, Sheet 2 of 2 COLIPR01

1.10.6 COLIPR02



COLIPR02-CGM

Fig 66, Sheet 1 of 2 COLIPR02

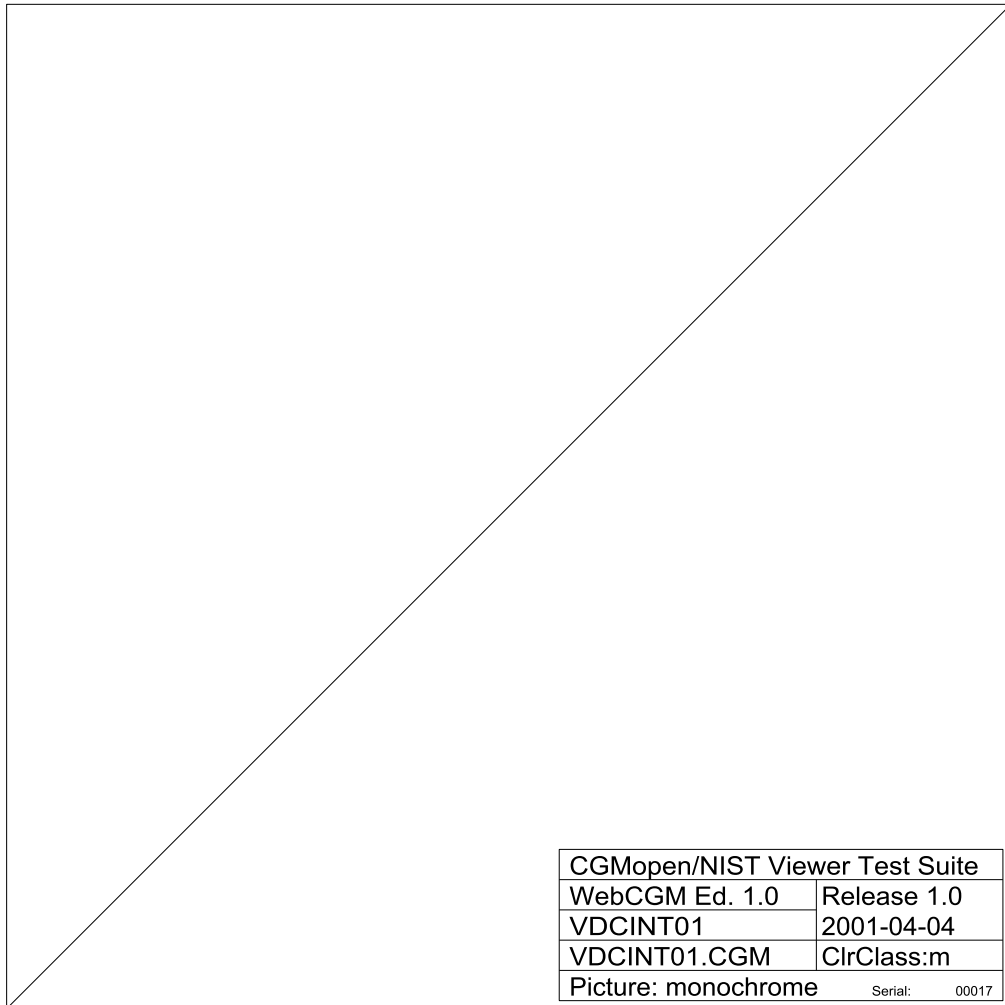


COLIPR02-PNG

Fig 66, Sheet 2 of 2 COLIPR02

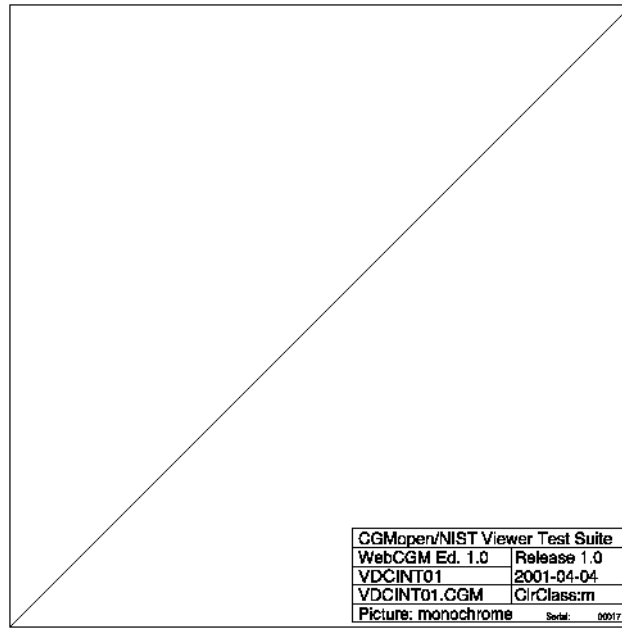


1.10.7 VDCINT01



VDCINT01-CGM

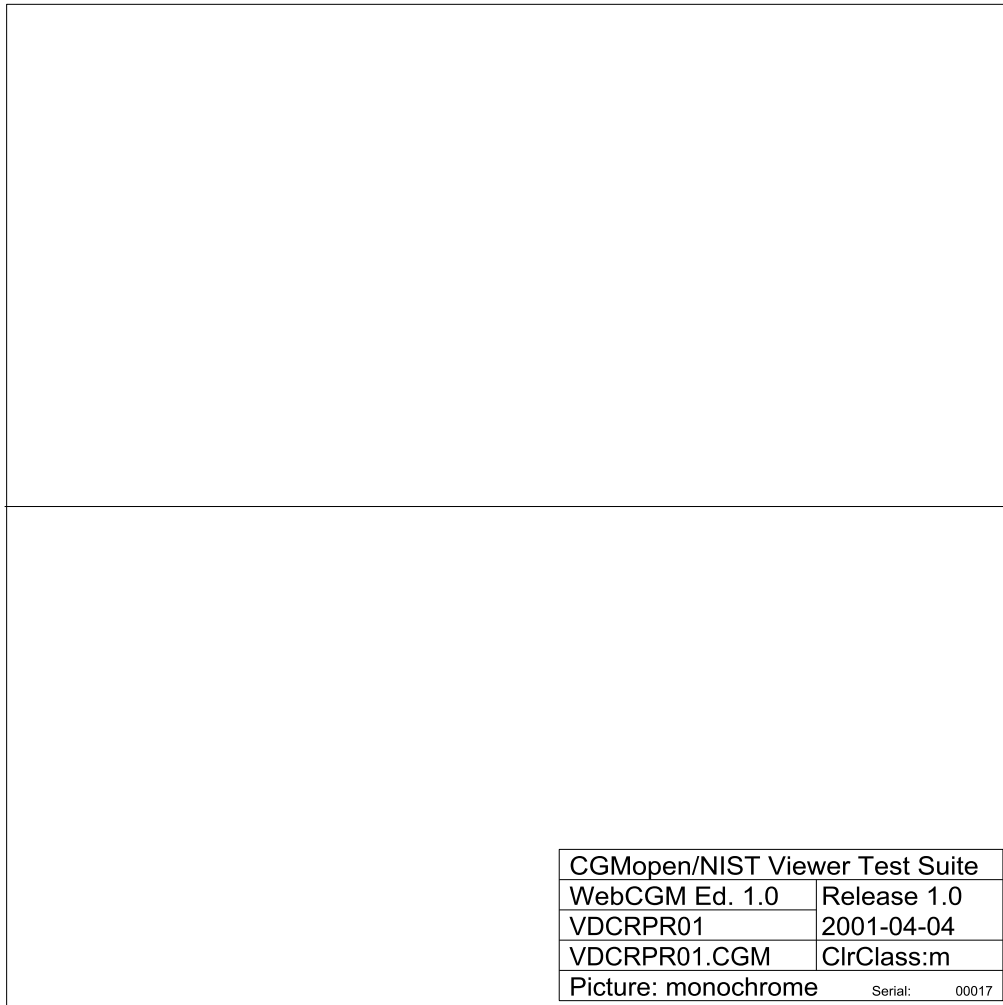
Fig 67, Sheet 1 of 2 VDCINT01



VDCINT01-PNG

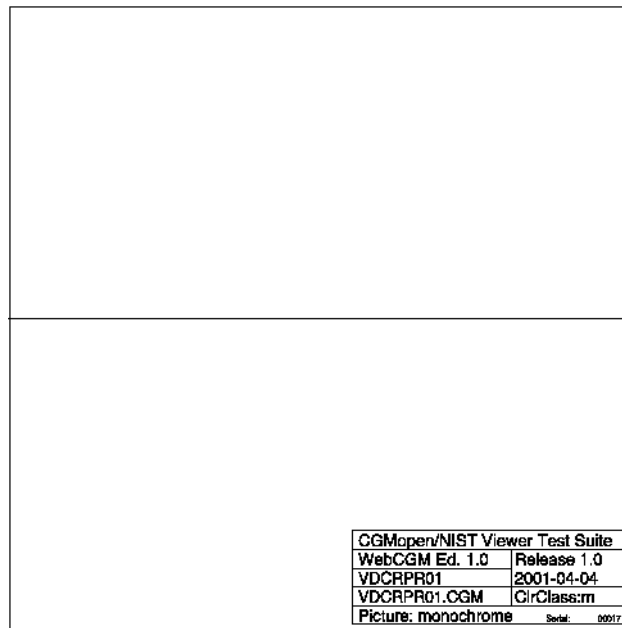
Fig 67, Sheet 2 of 2 VDCINT01

1.10.8 VDCRPR01



VDCRPR01-CGM

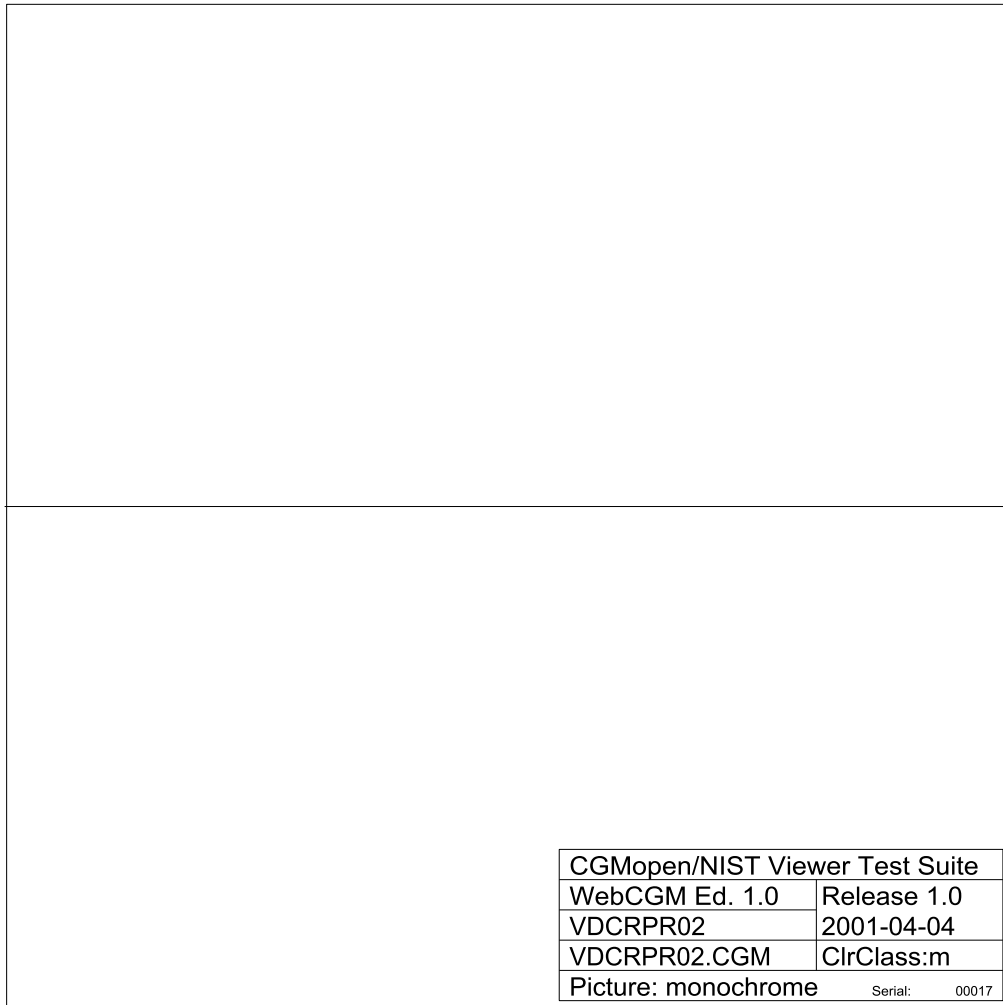
Fig 68, Sheet 1 of 2 VDCRPR01



VDCRPR01-PNG

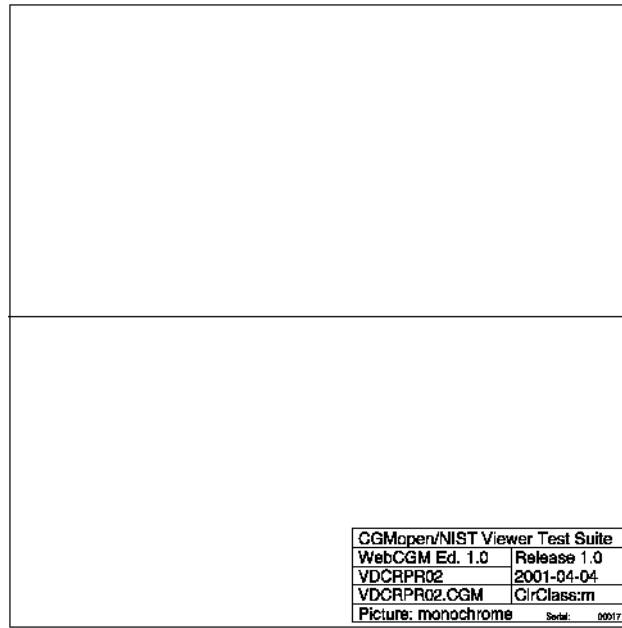
Fig 68, Sheet 2 of 2 VDCRPR01

1.10.9 VDCRPR02



VDCRPR02-CGM

Fig 69, Sheet 1 of 2 VDCRPR02

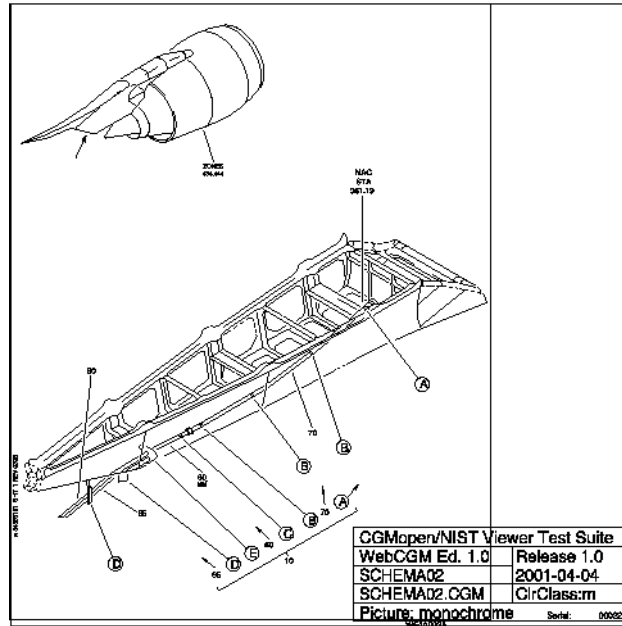


VDCRPR02-PNG

Fig 69, Sheet 2 of 2 VDCRPR02



1.11.2 SCHEMA02

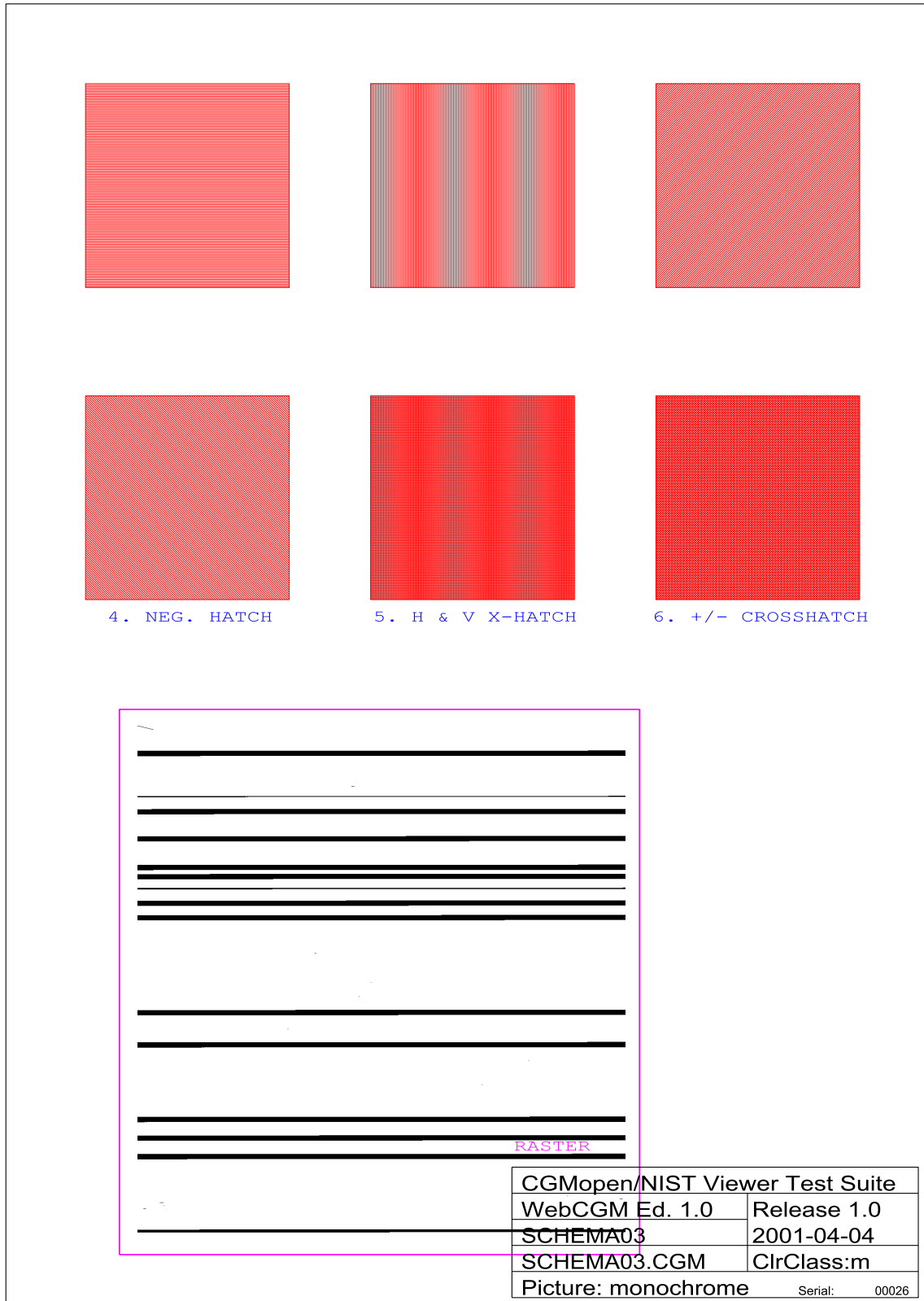


SCHEMA02-PNG

Fig 71 SCHEMA02



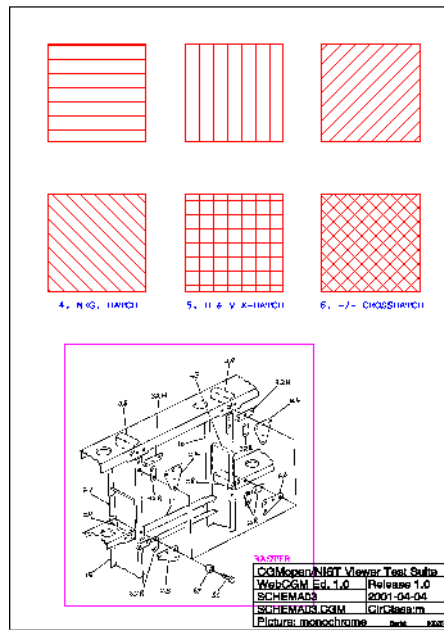
1.11.3 SCHEMA03



SCHEMA03-CGM

Fig 72, Sheet 1 of 2 SCHEMA03

Produced by Docuneering Ltd.

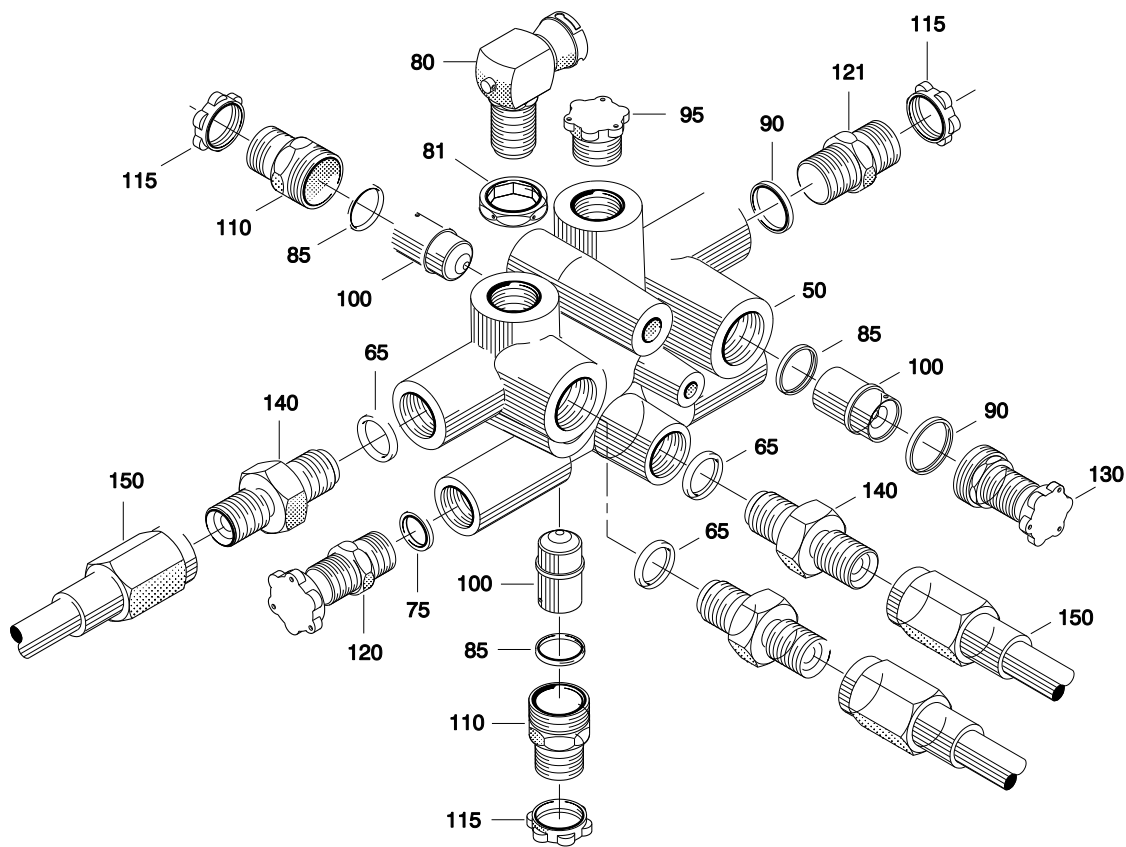


SCHEMA03-PNG

Fig 72, Sheet 2 of 2 SCHEMA03

**1.12      Metafile Size**

**1.12.1    BIGCGM02**

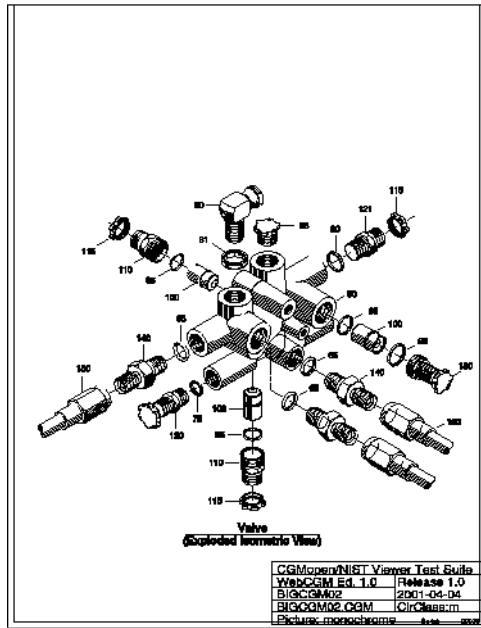


**Valve**  
**(Exploded Isometric View)**

CGMopen/NIST Viewer Test Suite	
WebCGM Ed. 1.0	Release 1.0
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BIGCGM02.CGM	ClrClass:m
Picture: monochrome	Serial: 00006

BIGCGM02-CGM

Fig 73, Sheet 1 of 2 BIGCGM02



BIGCGM02-PNG

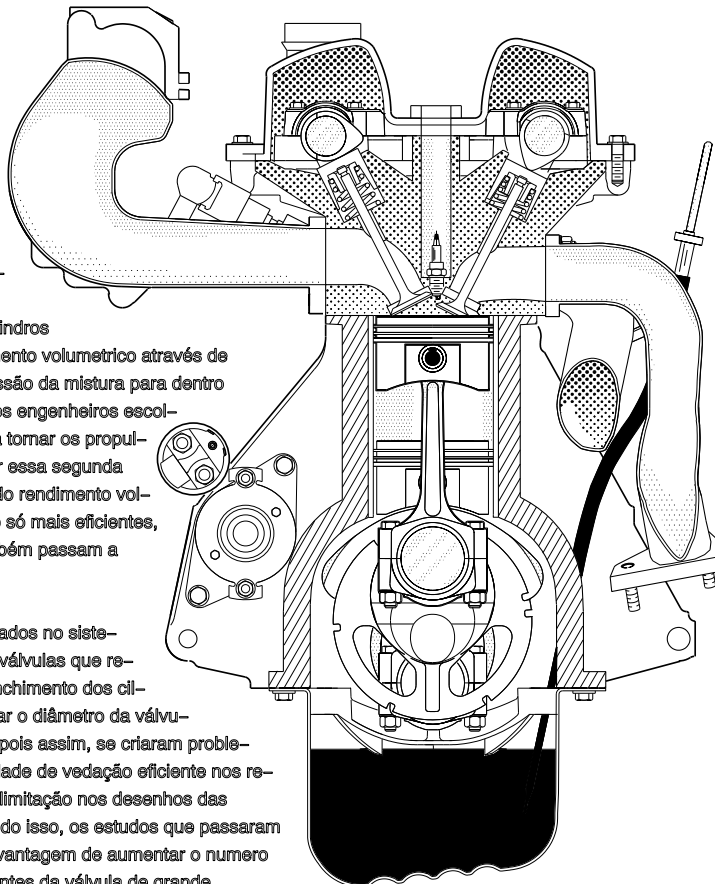
Fig 73, Sheet 2 of 2 BIGCGM02

1.12.2 BIGCGM04

A Revolução das 16 Válvulas

A potência desenvolvida por um motor de combustão interna depende diretamente da quantidade de mistura ar/combustível que seus pistões conseguem aspirar para dentro dos cilindros. Assim será duas maneiras de aumentá-la: elevando-se a cilindrada (com curso dos pistões mais longo e/ou diâmetro do cilindros maior) ou melhorando o rendimento volumétrico através de alterações de sistema de admissão da mistura para dentro dos cilindros. O caminho que os engenheiros escolheram nos últimos tempos para tornar os propulsores mais eficientes passa por essa segunda opção. Afinal, com a melhora do rendimento volumétrico, os motores ficam não só mais eficientes, leves, e econômicos como também passam a ser menos poluentes.

Um dos pontos críticos encontrados no sistema de admissão esta em suas válvulas que restringem demasiadamente o enchimento dos cilindros. Não adiantaria aumentar o diâmetro da válvula para melhora sua eficiência, pois assim, se criaram problemas de inércia elevada, dificuldade de vedação eficiente nos regimes mais altos de rotação, e limitação nos desenhos das câmaras de combustão. Por tudo isso, os estudos que passaram a ser desenvolvidos mostrar a vantagem de aumentar o numero de válvulas, sem os inconvenientes da válvula de grande diâmetro. Inicialmente, conceberam-se cabeçotes com três válvulas, duas de admissão (para melhora a eficiência volumétrica) e uma de escapamento. Mas os estudos mostram que a presença de apenas uma válvula de escape criaria outro ponto de restrição: se o cilindro não estivesse totalmente vazio depois da fase de escapamento, atrapalharia a nova fase de admissão pelos resíduos da combustão. Optou-se, então, por dotar a câmara de combustão também com duas válvulas de escape e assim equilibrar o processo. No Brasil, a mudança veio no motor do Tempra 16V. Agora consolidada-se no do Vectra GSI. Não é por acaso que os motores desses dois carros fornecem as maiores potências específicas dos carros nacionais aliados a índices de consumo mais baixos que suas versões de motores ainda dotados de duas válvulas por cilindro. Isso é reflexo direto do desenvolvimento tecnológico dos motores.



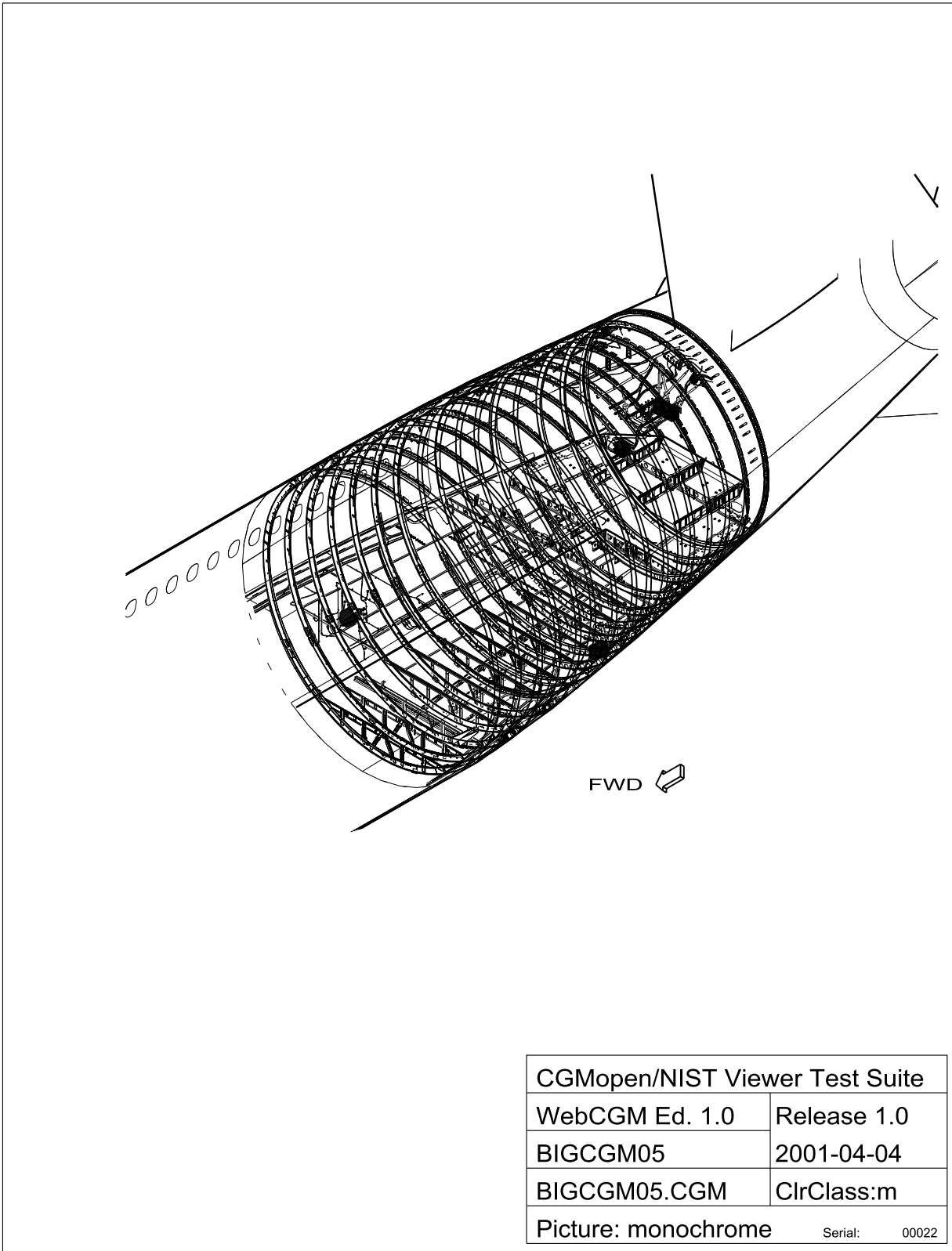
CGMopen/NIST Viewer Test Suite	
WebCGM Ed. 1.0	Release 1.0
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BIGCGM04.CGM	ClrClass:c
Picture: color	Serial: 00030

bigcgm04-CGM

Fig 74, Sheet 1 of 2 BIGCGM04



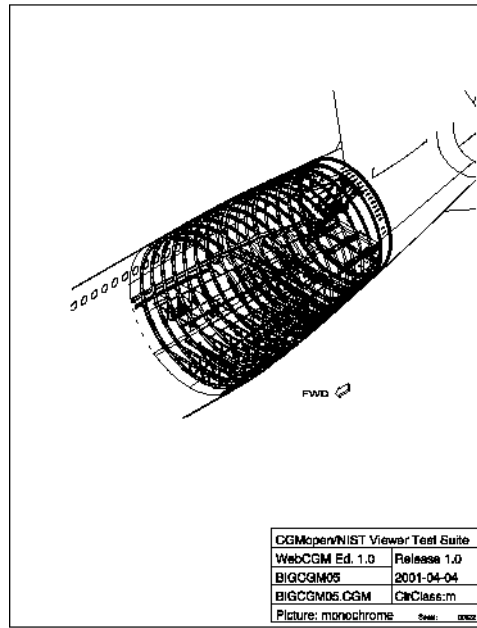
1.12.3 BIGCGM05



bigcgm05-CGM

Fig 75, Sheet 1 of 2 BIGCGM05



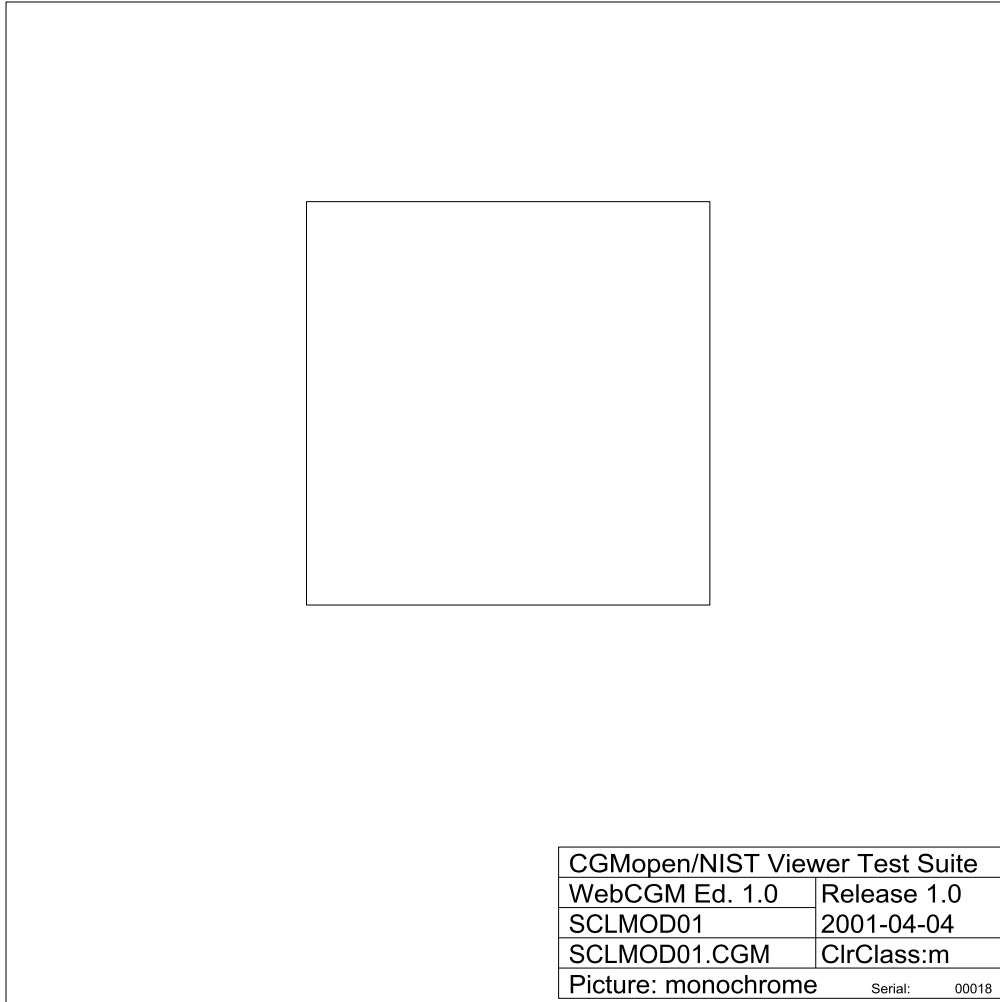


bigcgm05-PNG

Fig 75, Sheet 2 of 2 BIGCGM05

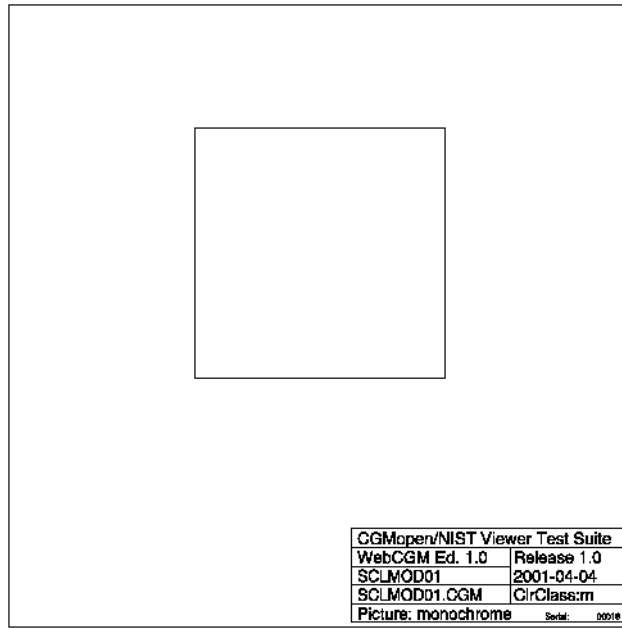
1.13 Modes

1.13.1 SCLMOD01



SCLMOD01-CGM

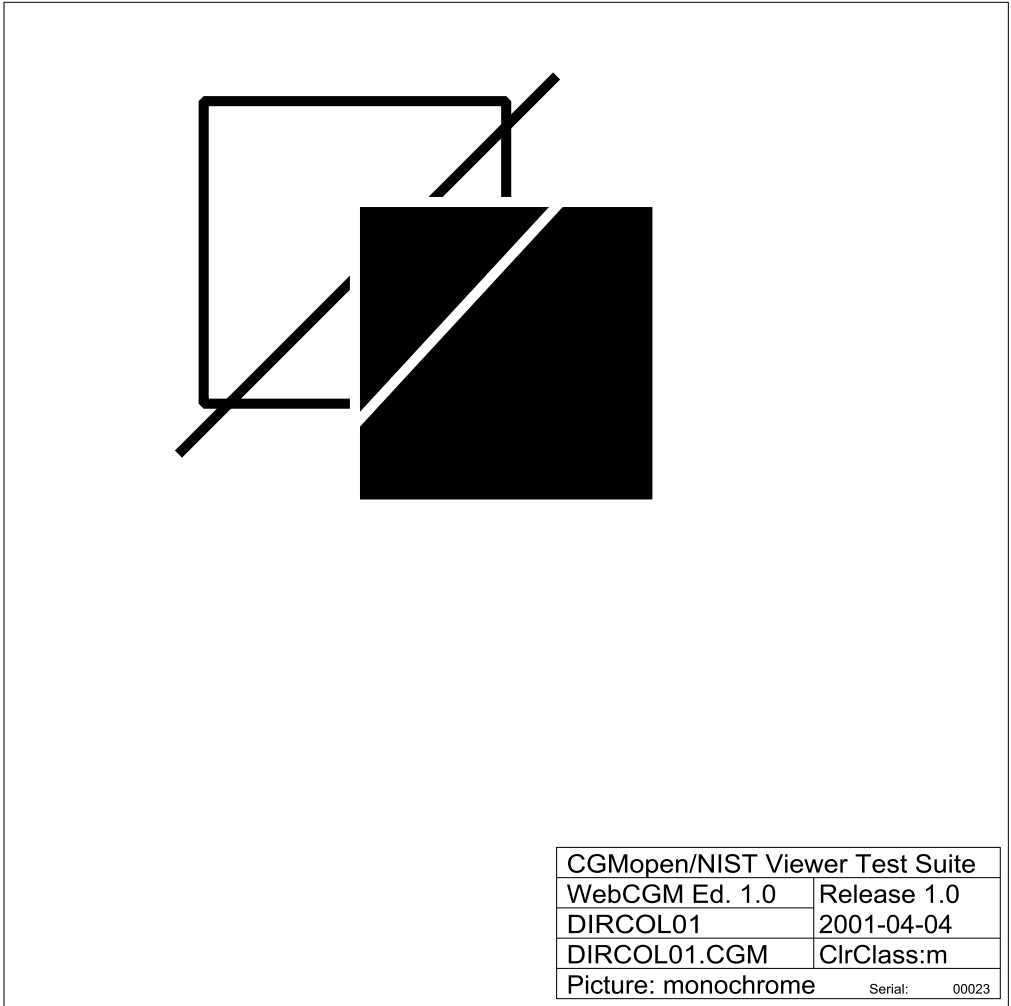
Fig 76, Sheet 1 of 2 SCLMOD01



SCLMOD01-PNG

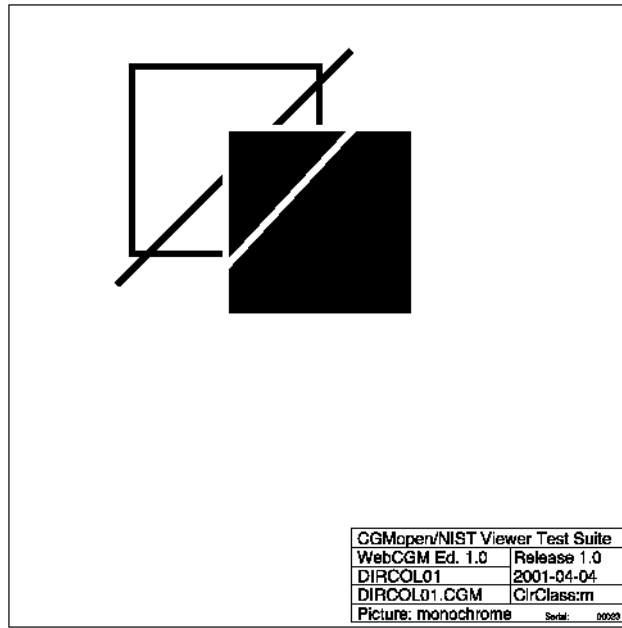
Fig 76, Sheet 2 of 2 SCLMOD01

1.13.2 DIRCOL01



DIRCOL01-CGM

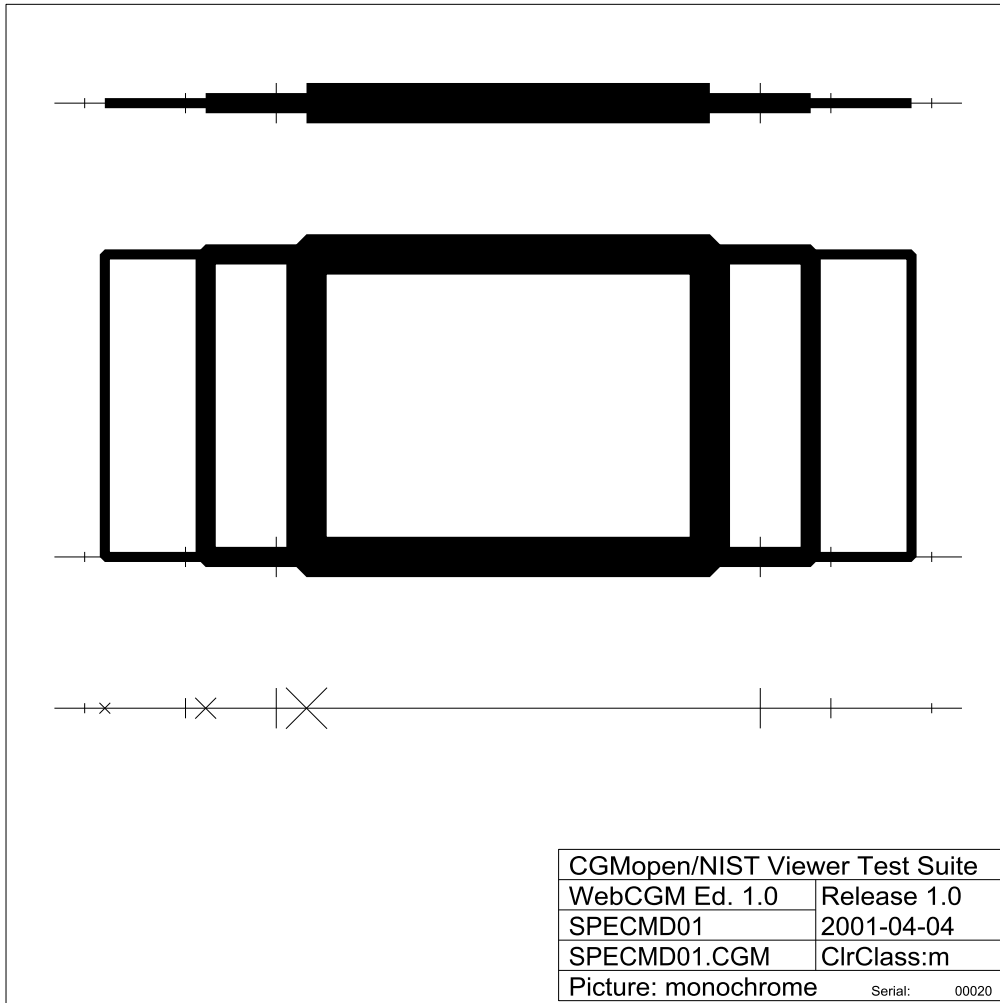
Fig 77, Sheet 1 of 2 DIRCOL01



DIRCOL01-PNG

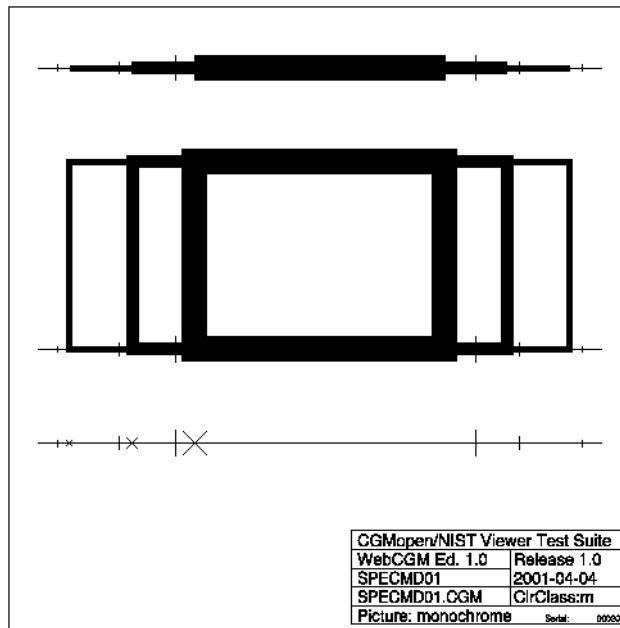
Fig 77, Sheet 2 of 2 DIRCOL01

1.13.3 SPECMD01



SPECMD01-CGM

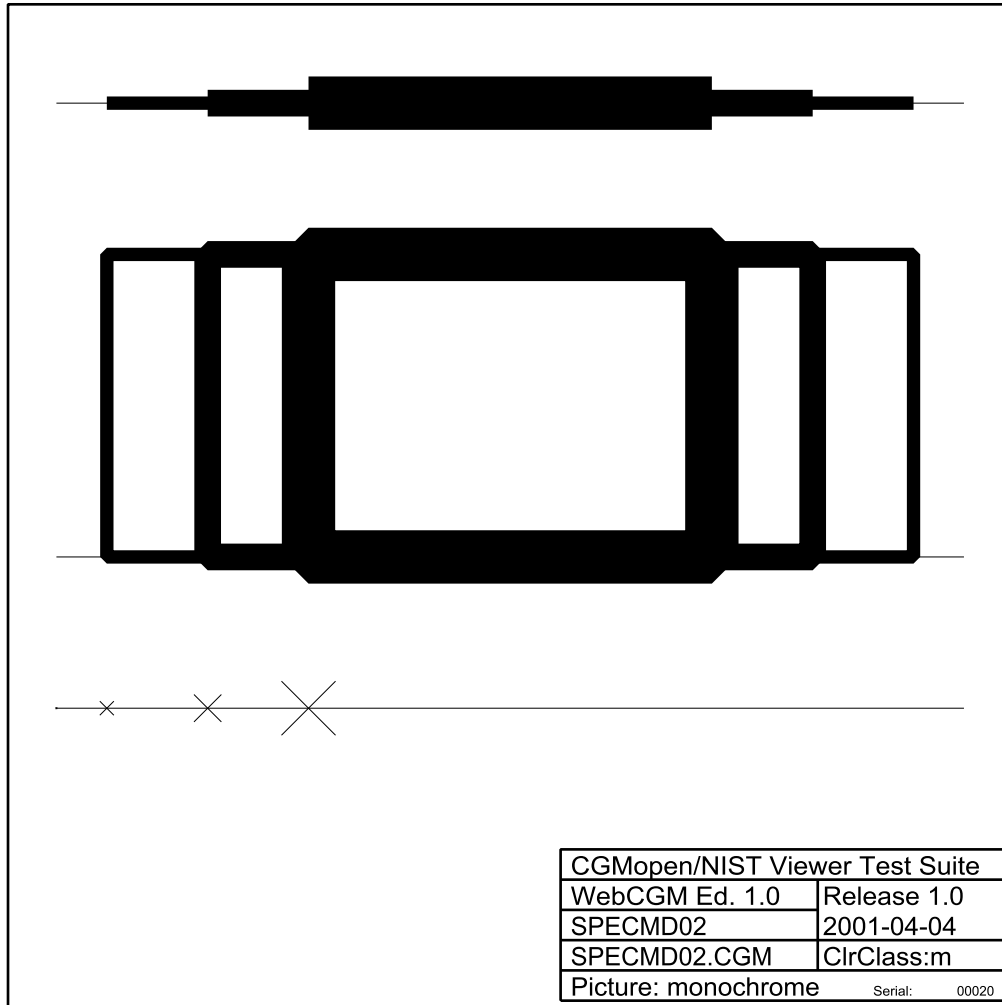
Fig 78, Sheet 1 of 2 SPECMD01



SPECMD01-PNG

Fig 78, Sheet 2 of 2 SPECMD01

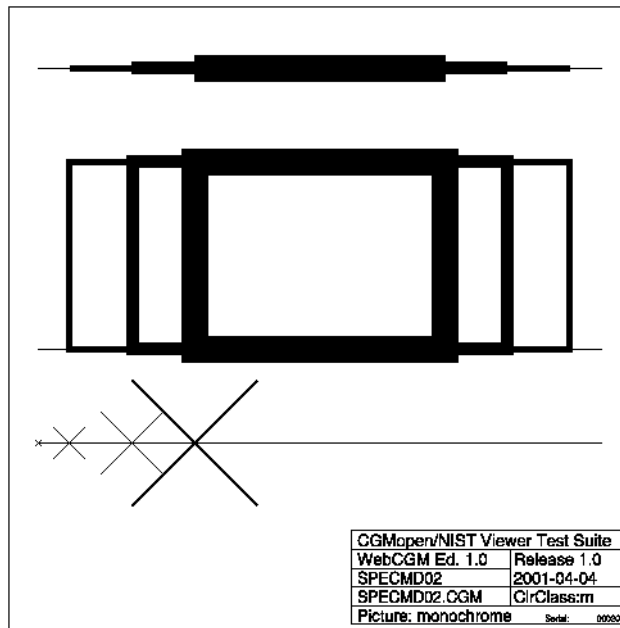
1.13.4 SPECMD02



SPECMD02-CGM

Fig 79, Sheet 1 of 2 SPECMD02





SPECMD02-PNG

Fig 79, Sheet 2 of 2 SPECMD02

1.14 Text Elements

1.14.1 RESTXT01



RESTXT01-CGM

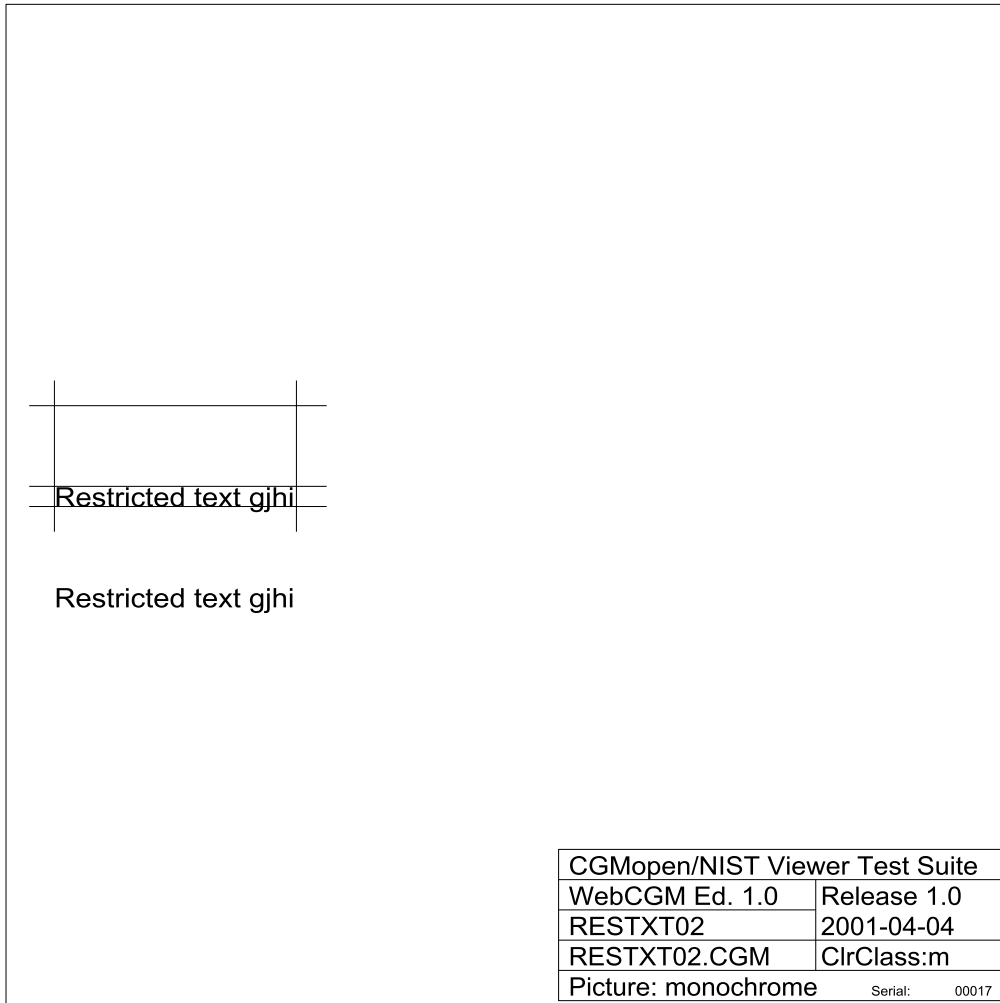
Fig 80, Sheet 1 of 2 RESTXT01



RESTXT01-PNG

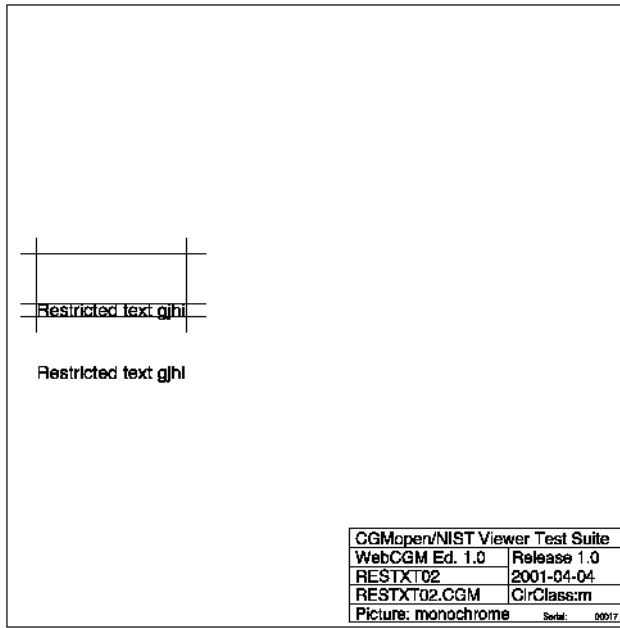
Fig 80, Sheet 2 of 2 RESTXT01

1.14.2 RESTXT02



RESTXT02-CGM

Fig 81, Sheet 1 of 2 RESTXT02



RESTXT02-PNG

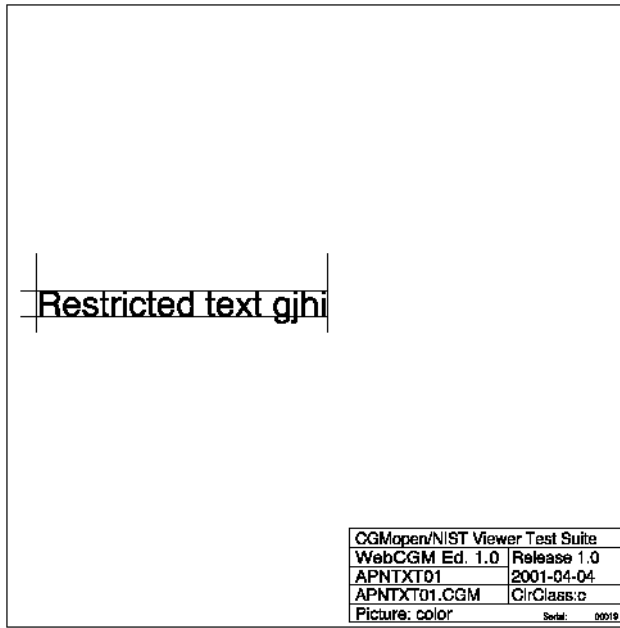
Fig 81, Sheet 2 of 2 RESTXT02

1.14.3 APNXT01



APNXT01-CGM

Fig 82, Sheet 1 of 2 APNXT01



APNXT01-PNG

Fig 82, Sheet 2 of 2 APNXT01

1.14.4 APNXT02



APNXT02-CGM

Fig 83, Sheet 1 of 2 APNXT02

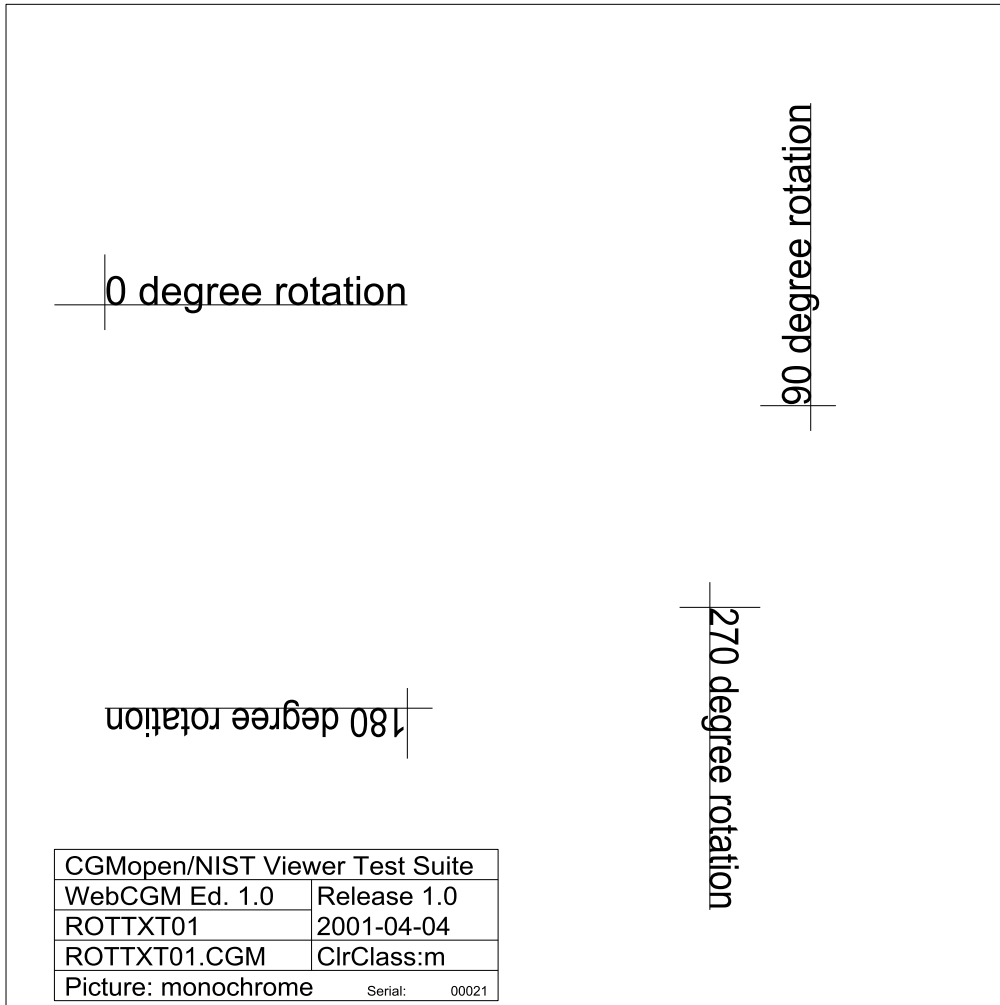




APNXT02-PNG

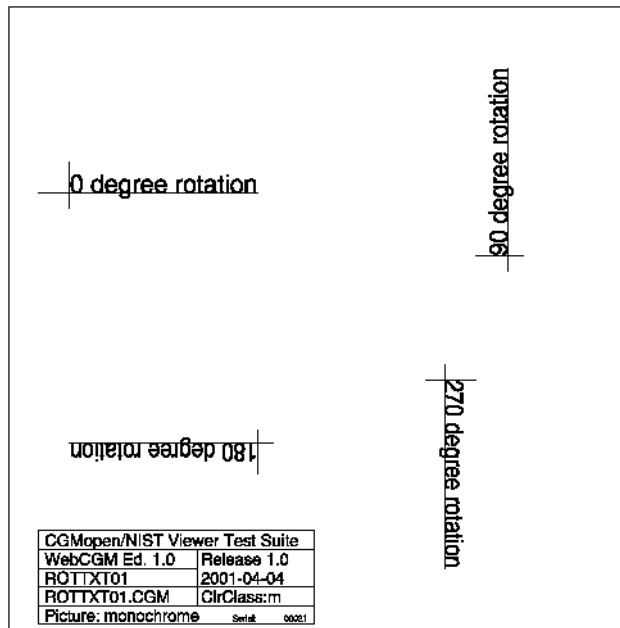
Fig 83, Sheet 2 of 2 APNXT02

1.14.5 ROTTXT01



ROTTXT01-CGM

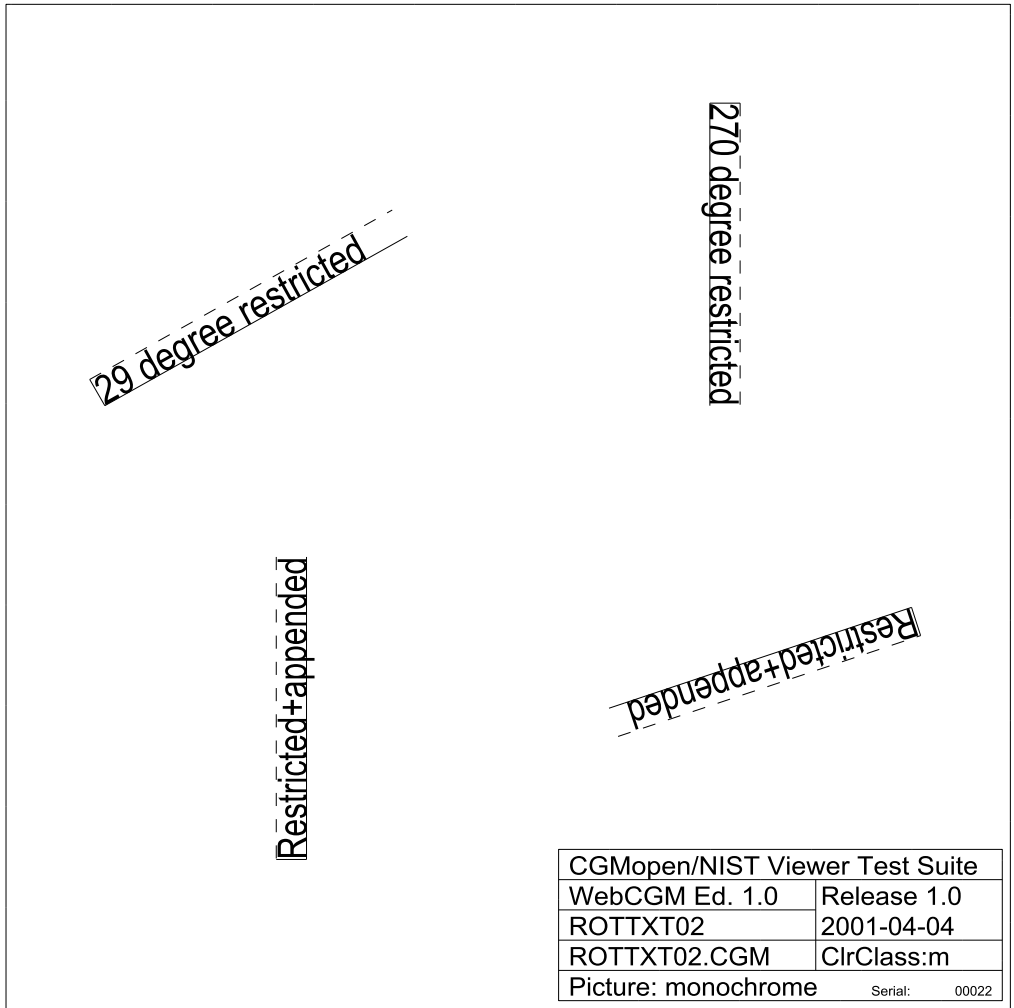
Fig 84, Sheet 1 of 2 ROTTXT01



ROTTXT01-PNG

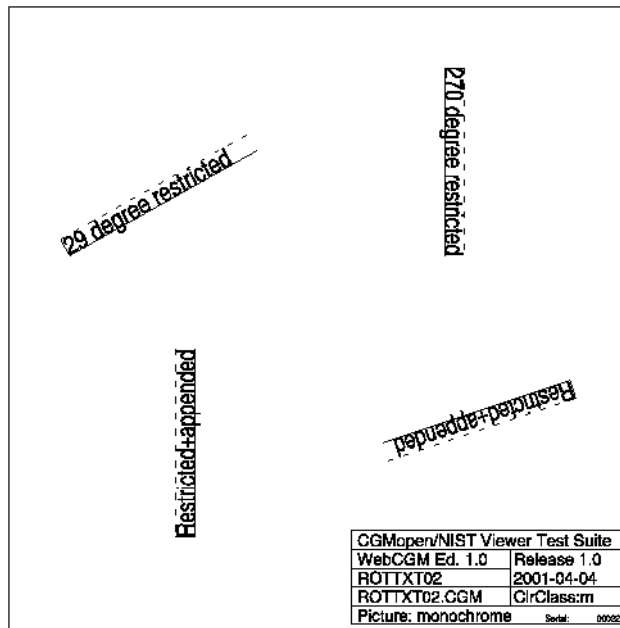
Fig 84, Sheet 2 of 2 ROTTXT01

1.14.6 ROTTXT02



ROTTXT02-CGM

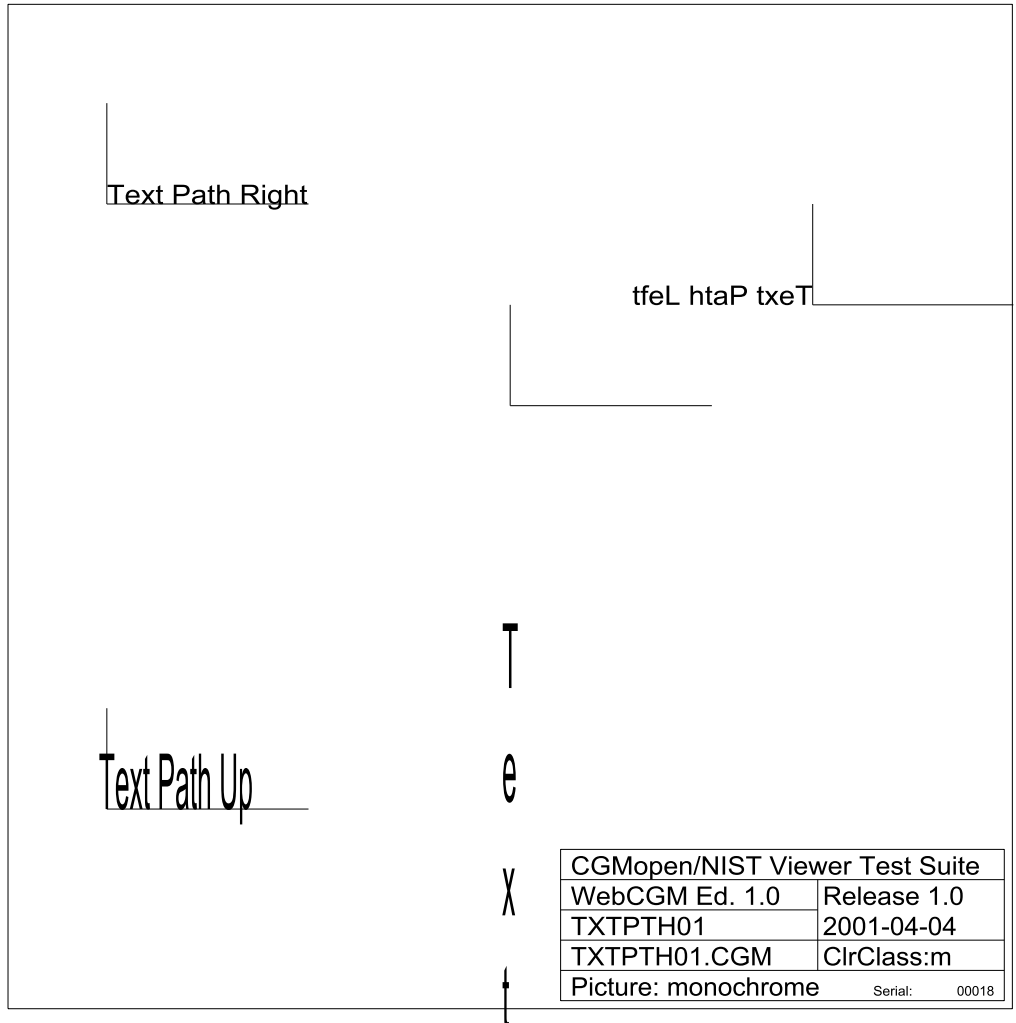
Fig 85, Sheet 1 of 2 ROTTXT02



ROTTXT02-PNG

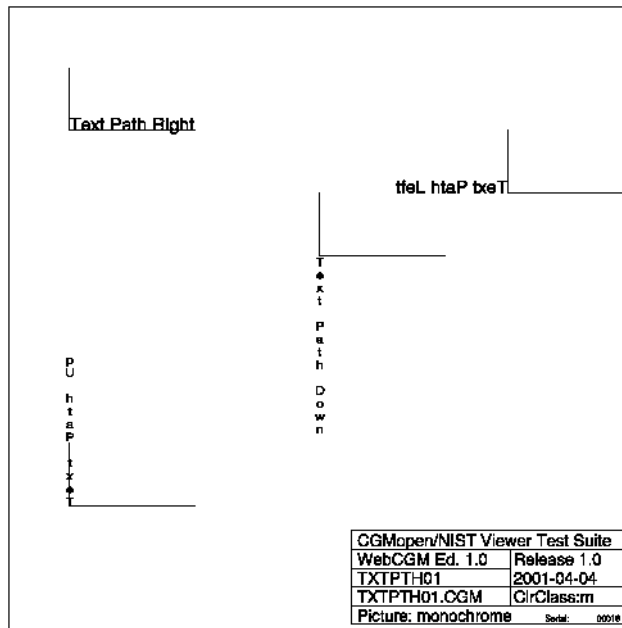
Fig 85, Sheet 2 of 2 ROTTXT02

1.14.7 TXTPTH01



TXTPTH01-CGM

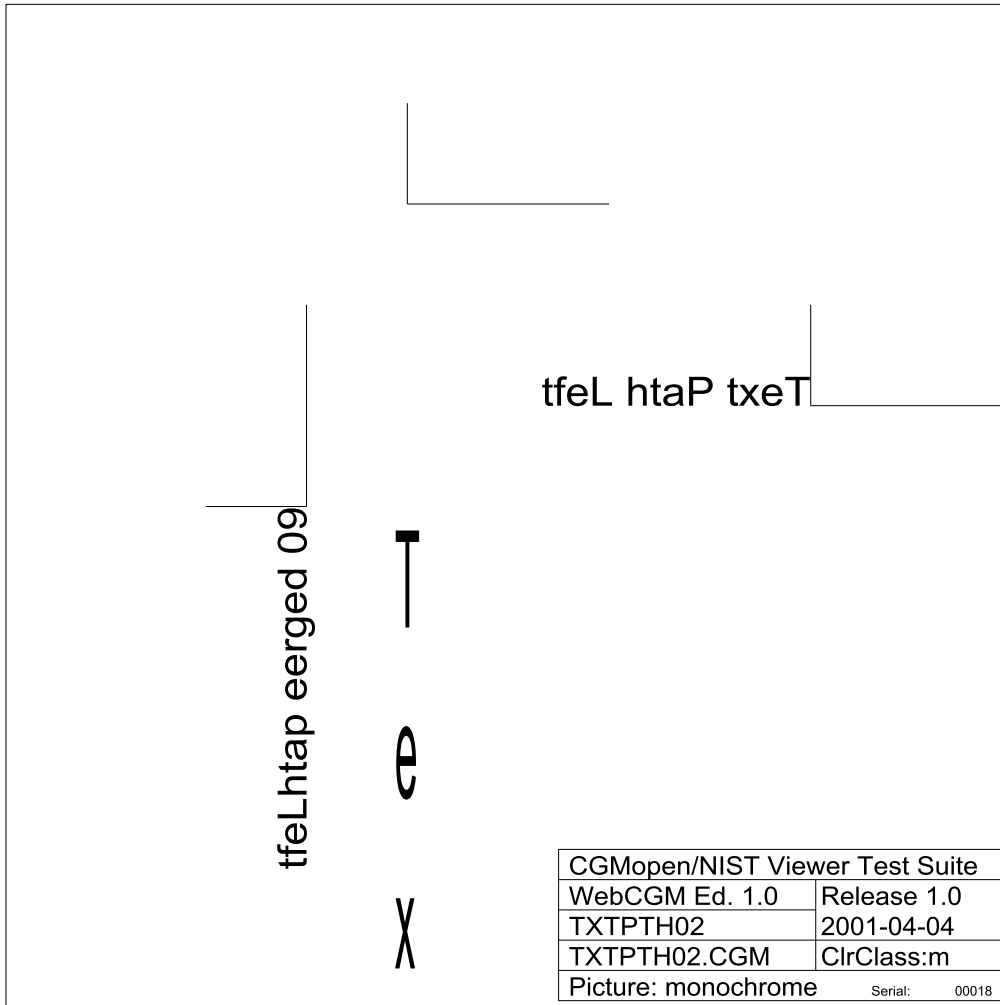
Fig 86, Sheet 1 of 2 TXTPTH01



TXTPTH01-PNG

Fig 86, Sheet 2 of 2 TXTPTH01

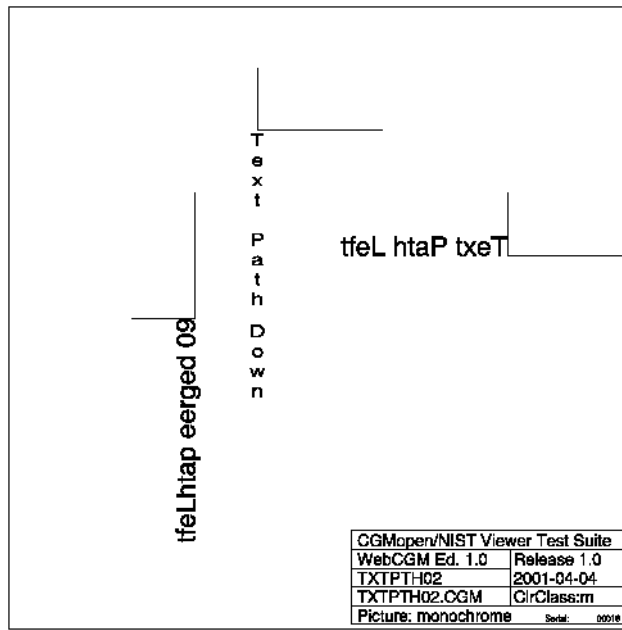
1.14.8 TXTPH02



TXTPH02-CGM

Fig 87, Sheet 1 of 2 TXTPH02

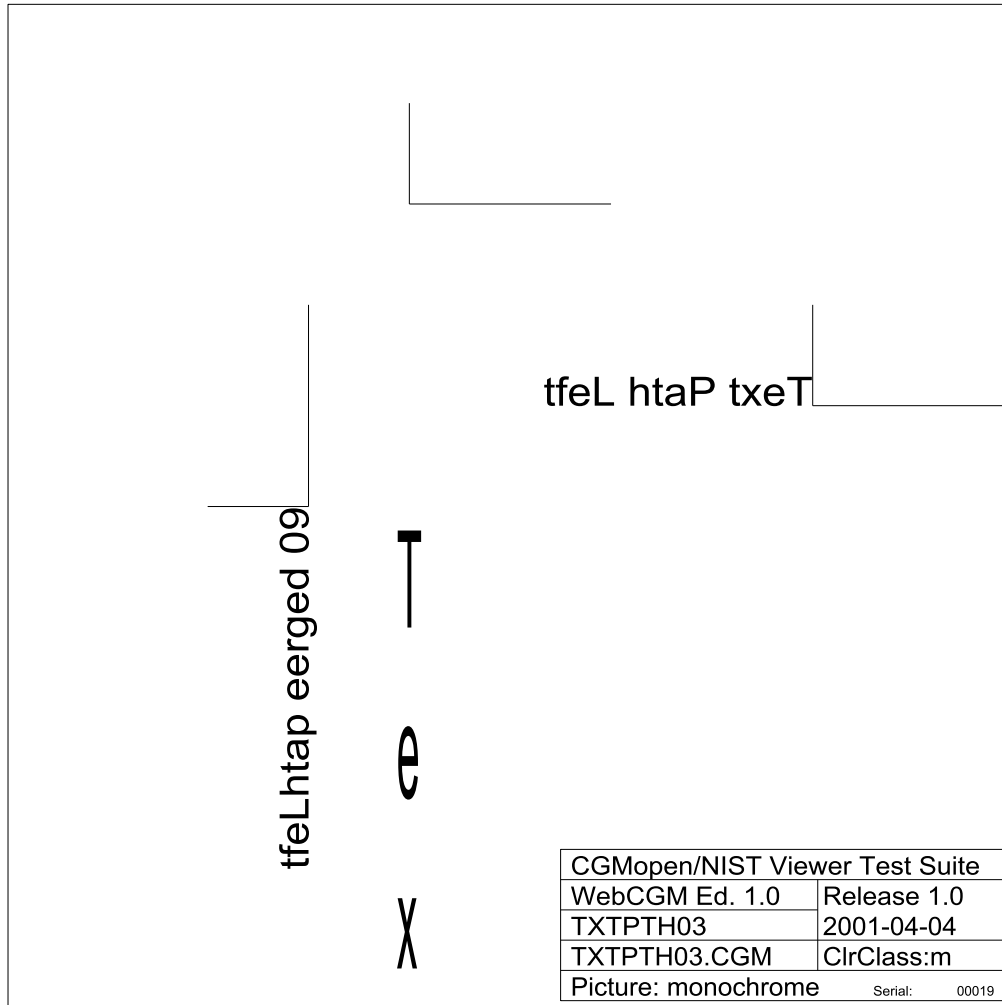




TXTPH02-PNG

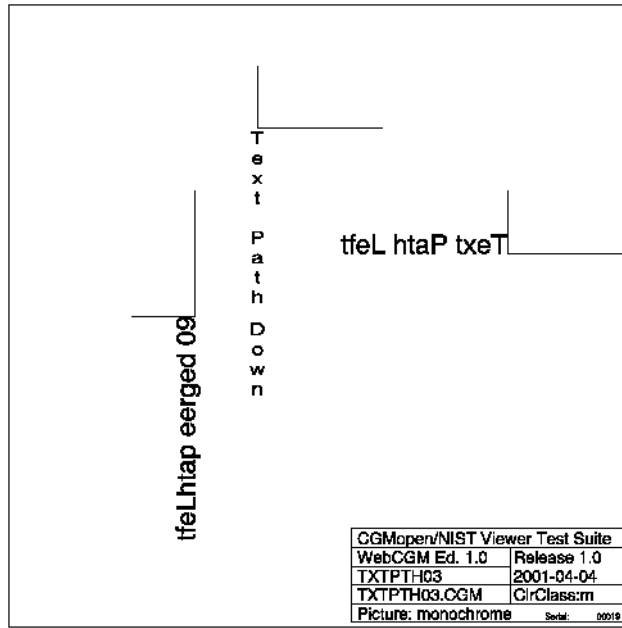
Fig 87, Sheet 2 of 2 TXTPH02

1.14.9 TXTPH03



TXTPH03-CGM

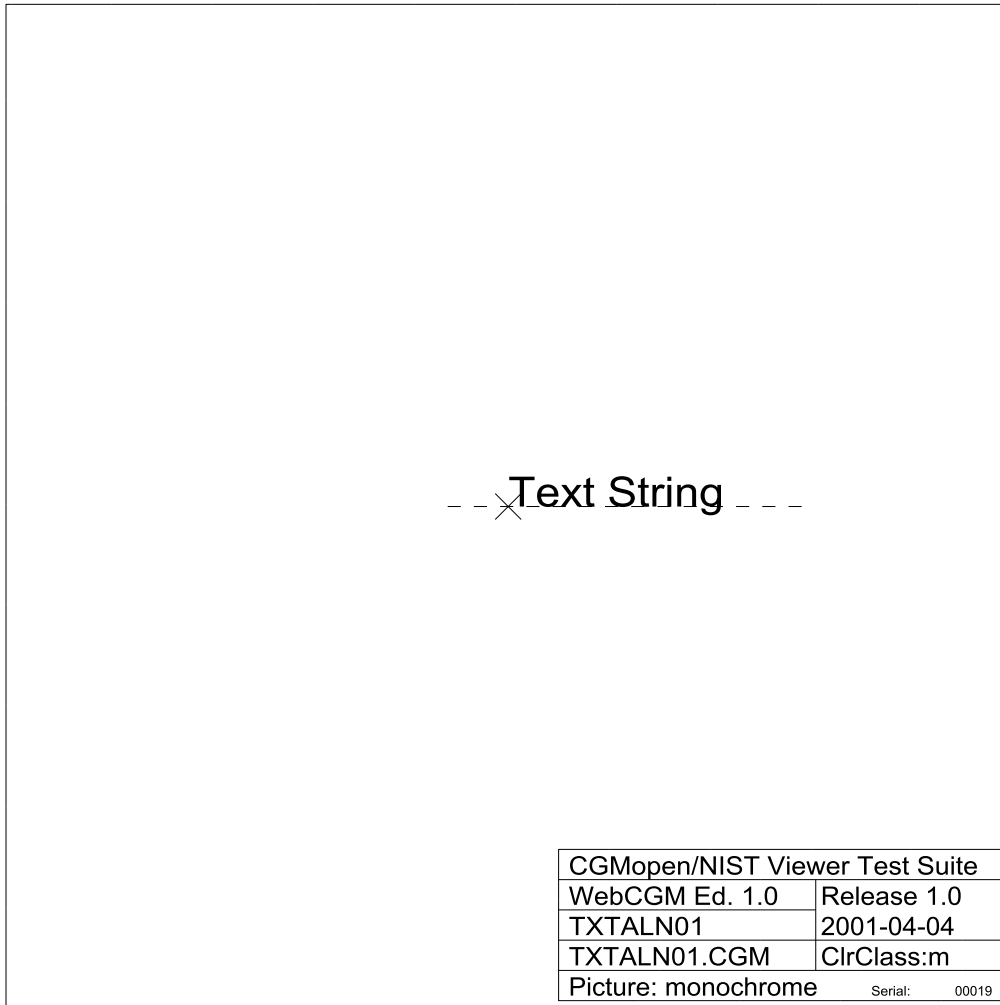
Fig 88, Sheet 1 of 2 TXTPH03



TXTPH03-PNG

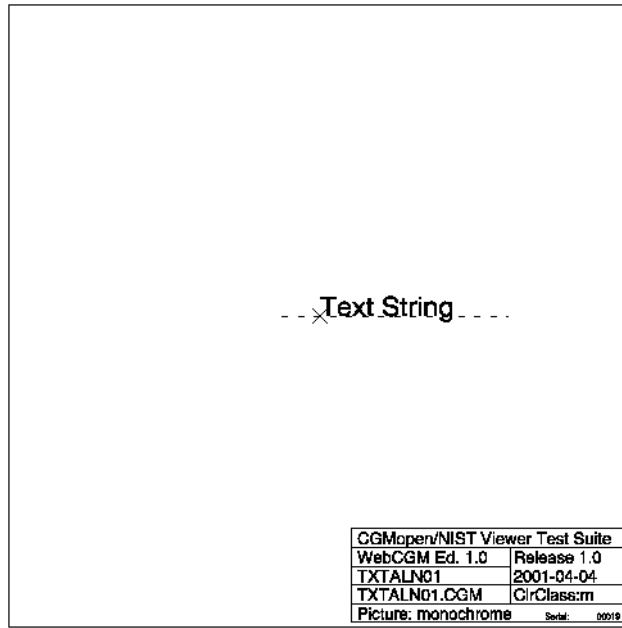
Fig 88, Sheet 2 of 2 TXTPH03

1.14.10 TXTALN01



TXTALN01-CGM

Fig 89, Sheet 1 of 2 TXTALN01



TX TALN01-PNG

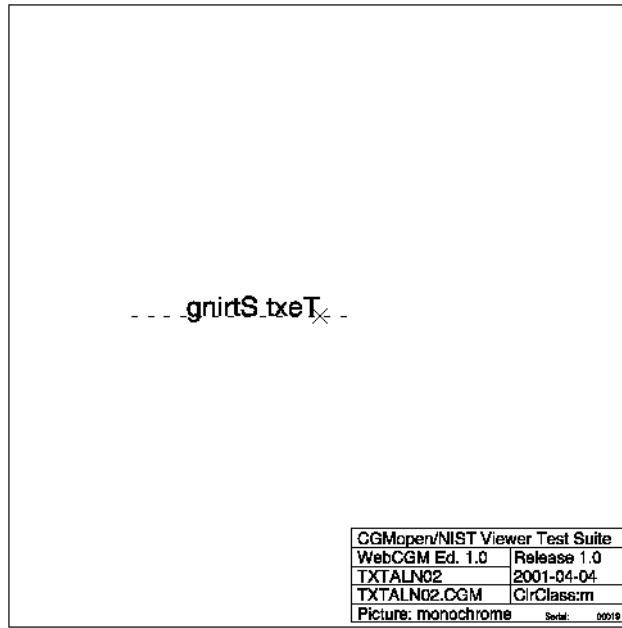
Fig 89, Sheet 2 of 2 TX TALN01

1.14.11 TXTALN02



TXTALN02-CGM

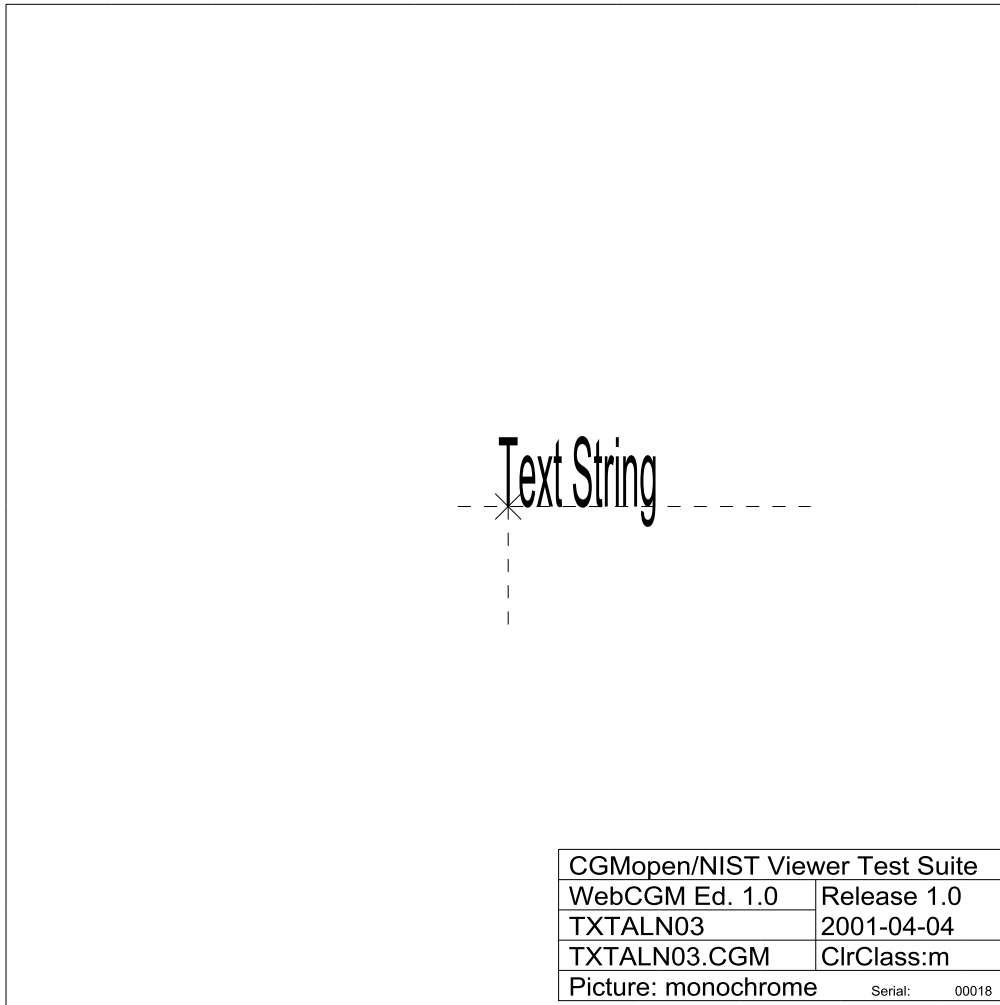
Fig 90, Sheet 1 of 2 TXTALN02



TX TALN02-PNG

Fig 90, Sheet 2 of 2 TX TALN02

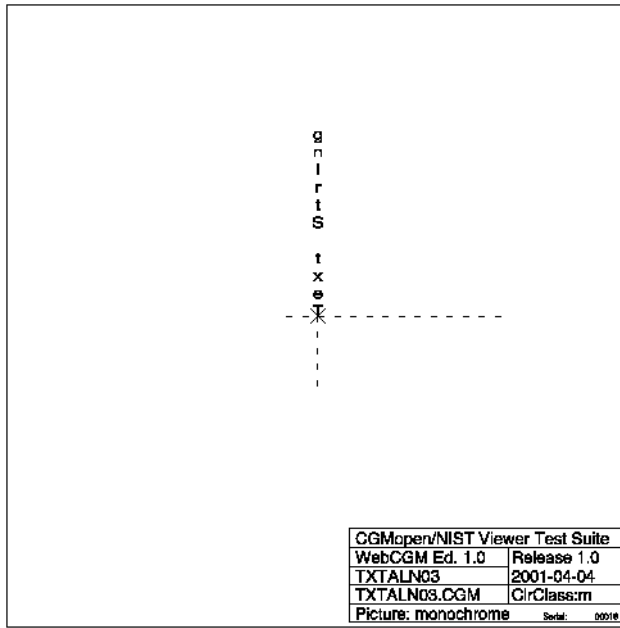
1.14.12 TXTALN03



TXTALN03-CGM

Fig 91, Sheet 1 of 2 TXTALN03

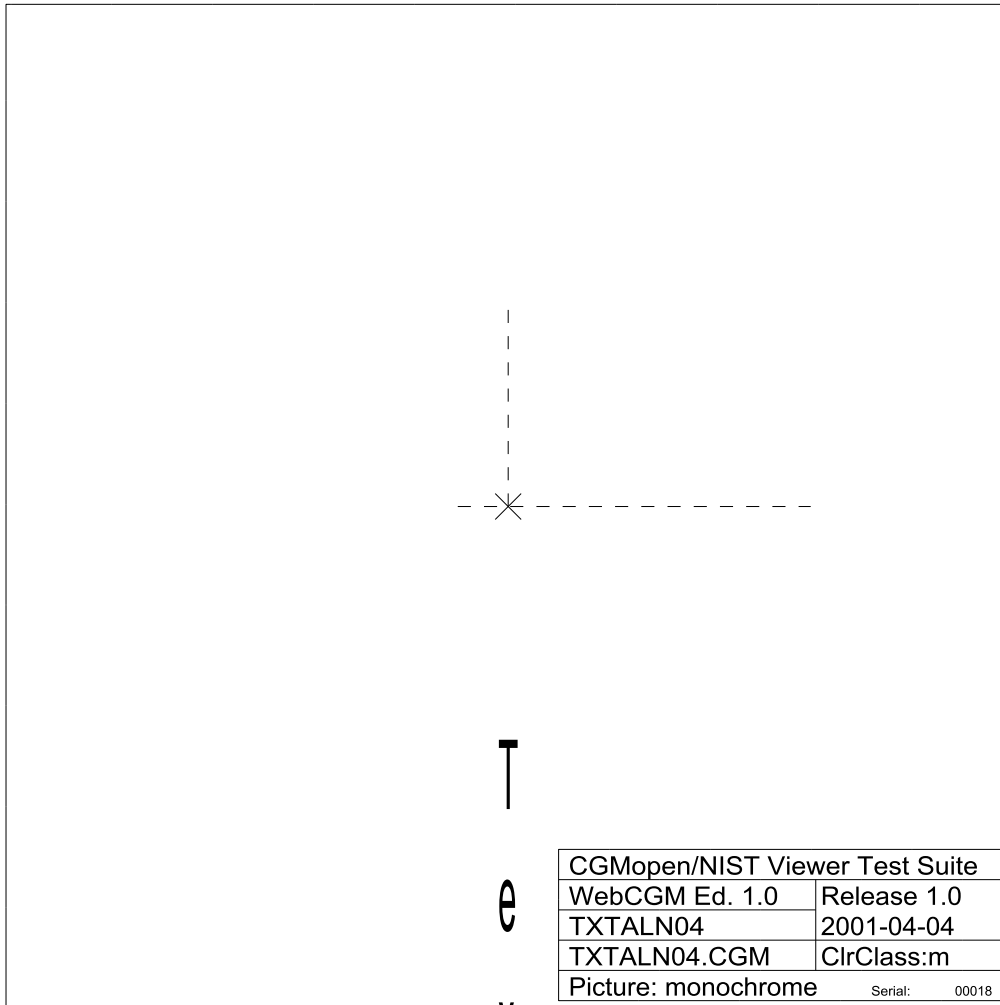




TX TALN03-PNG

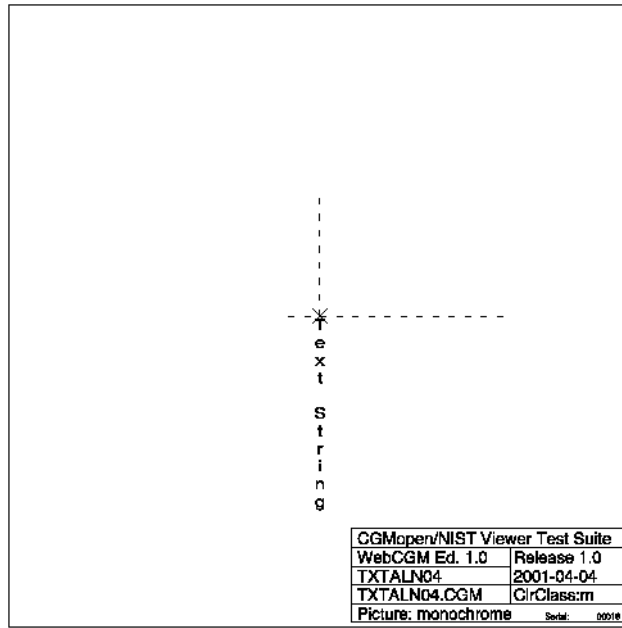
Fig 91, Sheet 2 of 2 TX TALN03

1.14.13 TXTALN04



TXTALN04-CGM

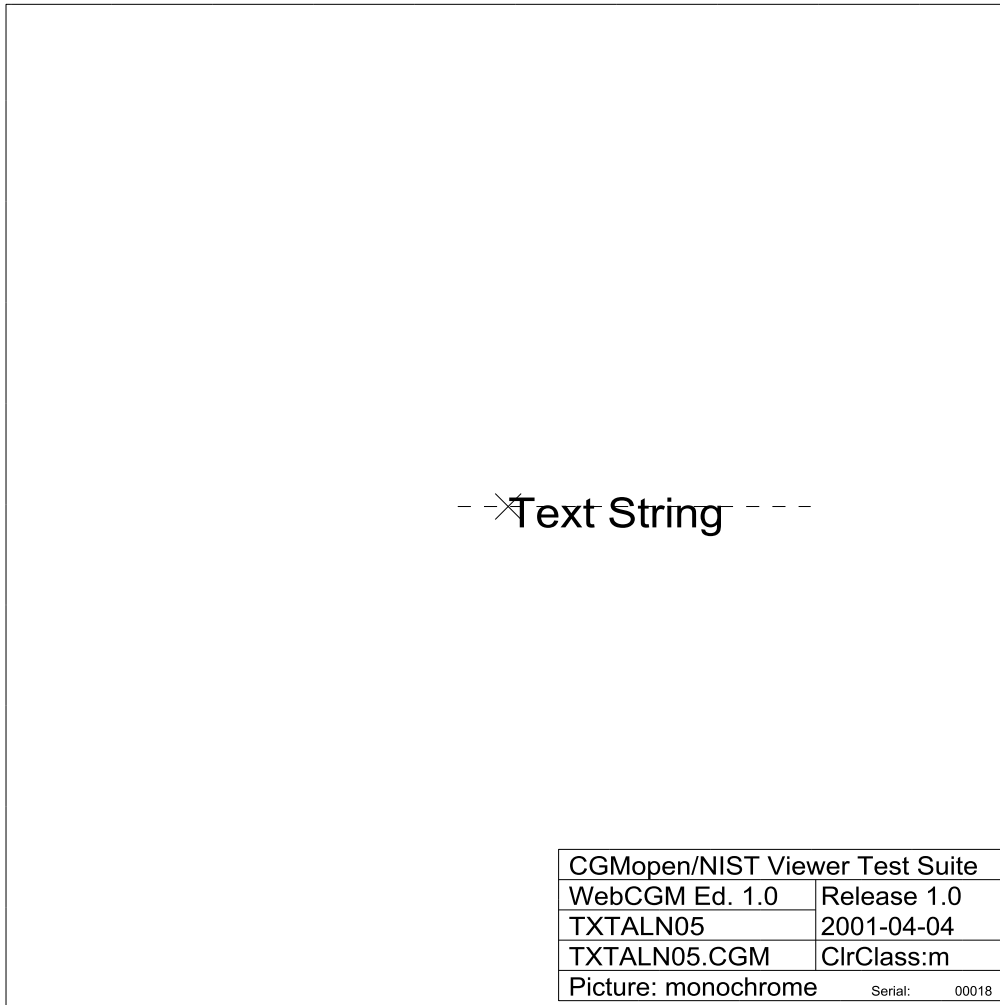
Fig 92, Sheet 1 of 2 TXTALN04



TX TALN04-PNG

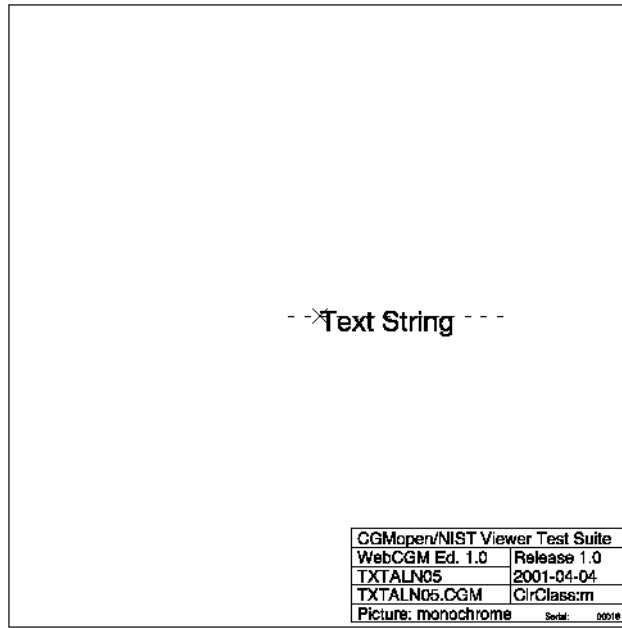
Fig 92, Sheet 2 of 2 TX TALN04

1.14.14 TXTALN05



TXTALN05-CGM

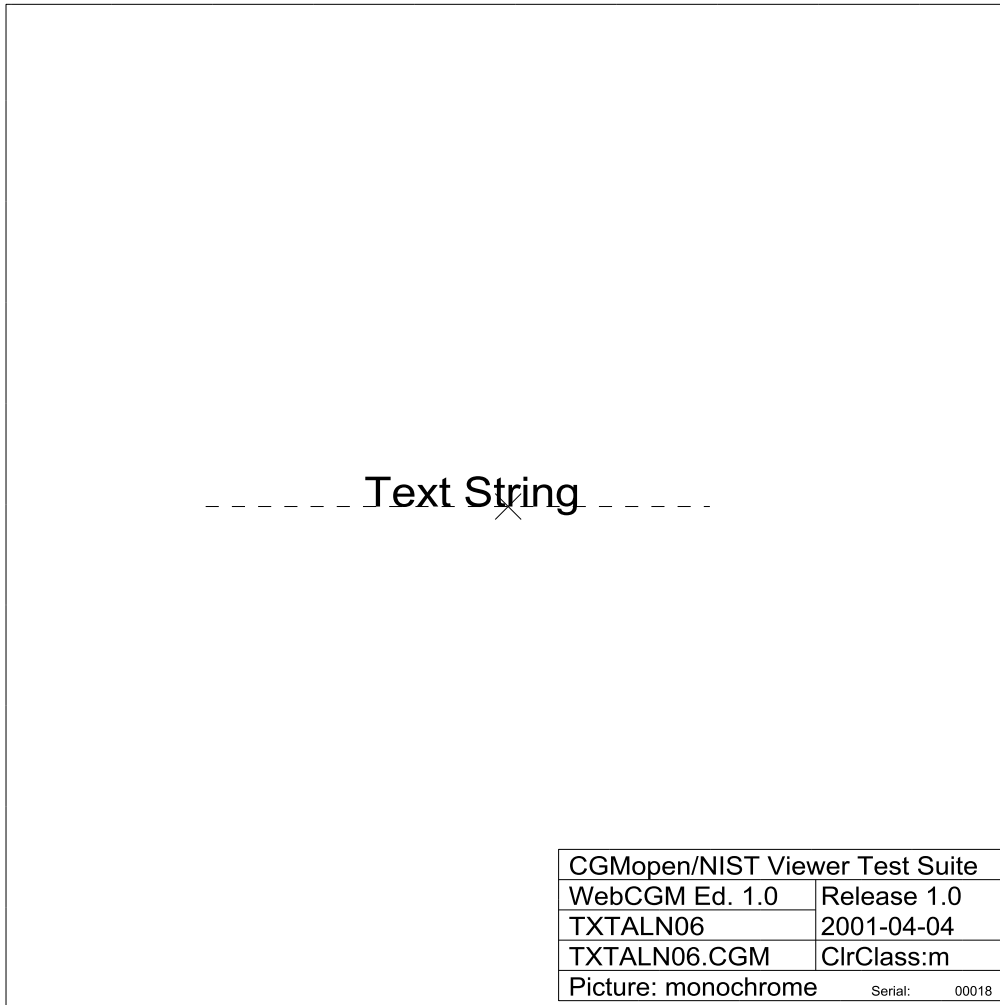
Fig 93, Sheet 1 of 2 TXTALN05



TX TALN05-PNG

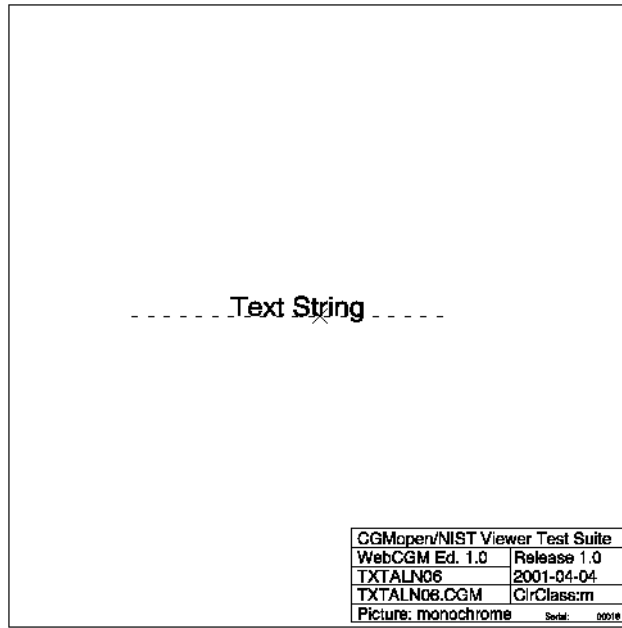
Fig 93, Sheet 2 of 2 TX TALN05

1.14.15 TXTALN06



TXTALN06-CGM

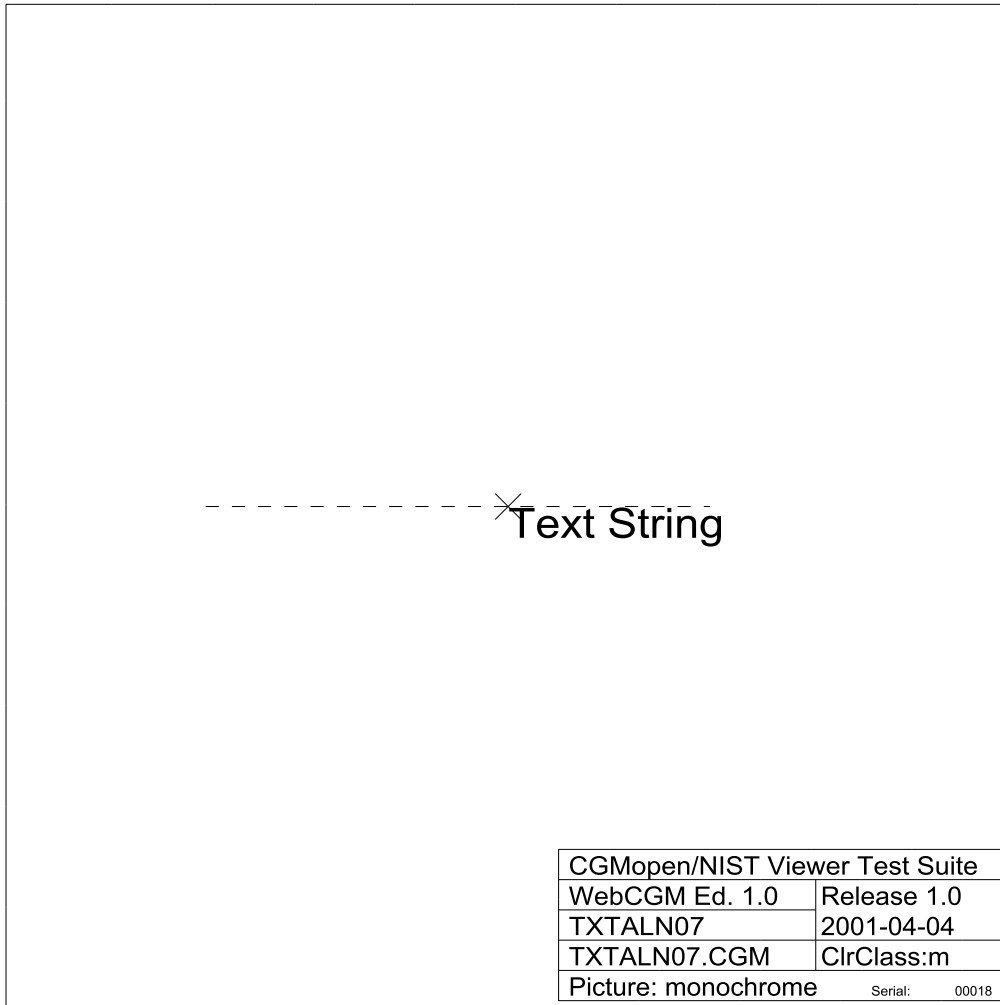
Fig 94, Sheet 1 of 2 TXTALN06



TX TALN06-PNG

Fig 94, Sheet 2 of 2 TX TALN06

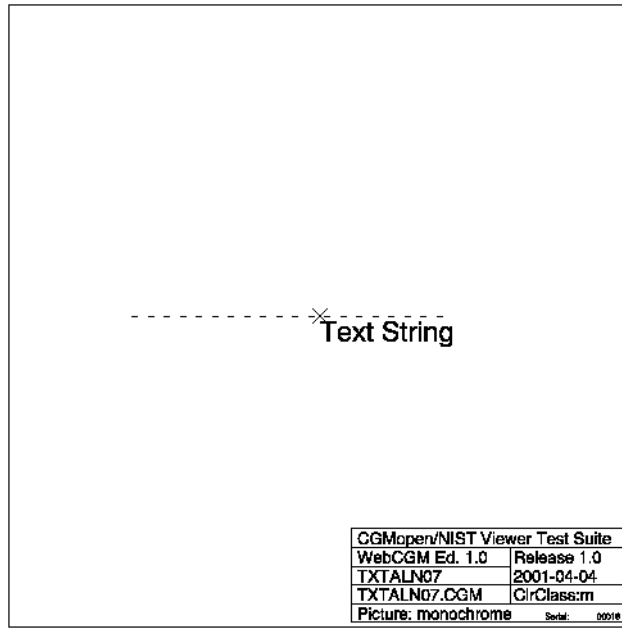
1.14.16 TXTALN07



TXTALN07-CGM

Fig 95, Sheet 1 of 2 TXTALN07

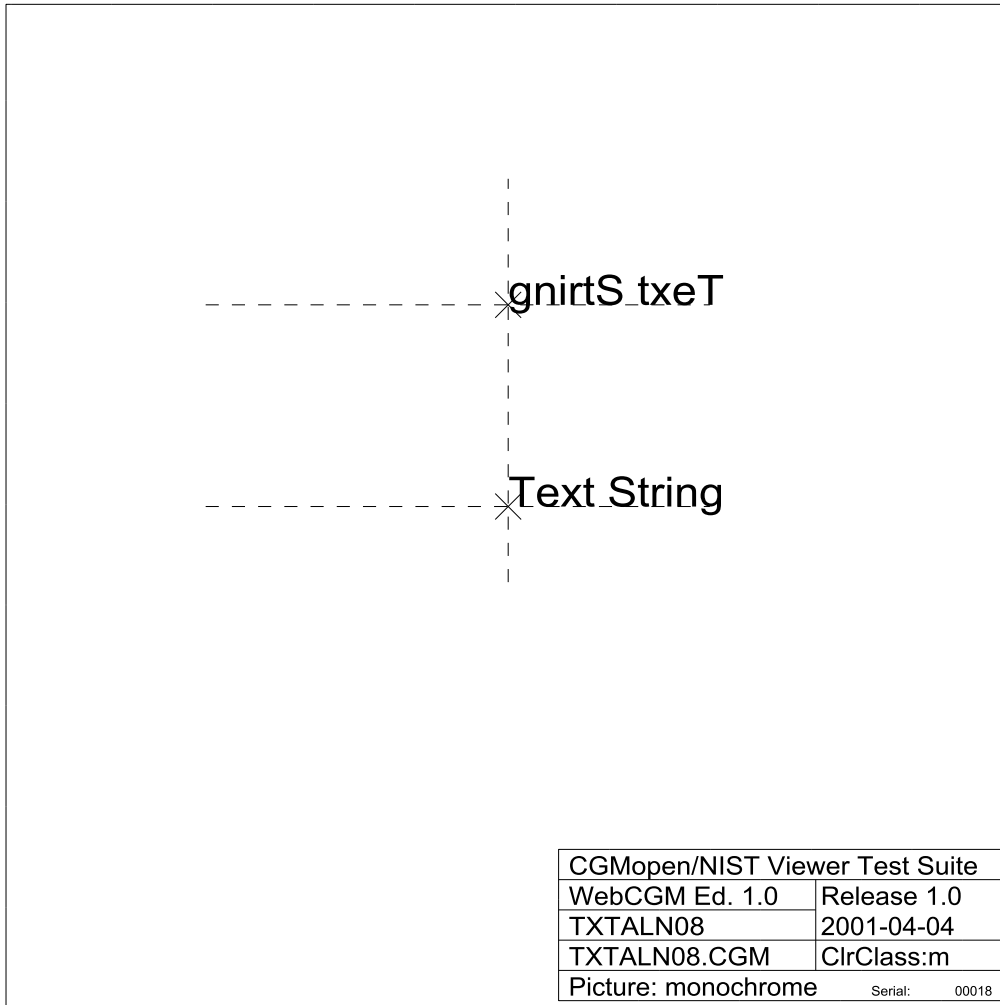




TX TALN07-PNG

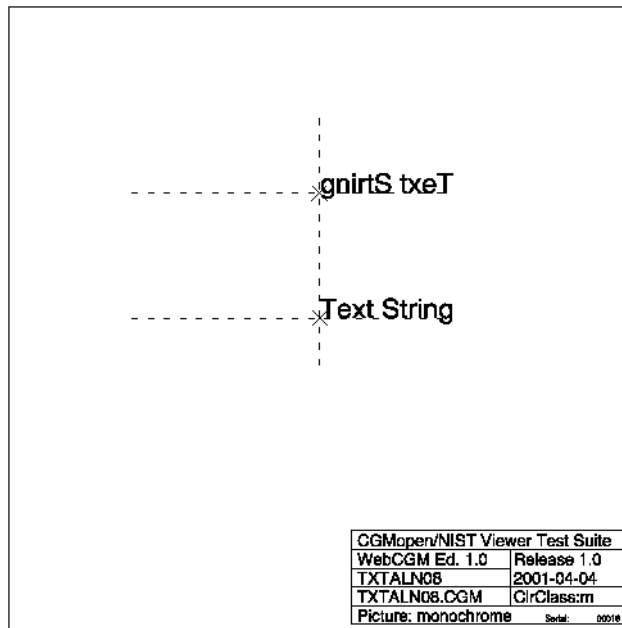
Fig 95, Sheet 2 of 2 TX TALN07

1.14.17 TXTALN08



TXTALN08-CGM

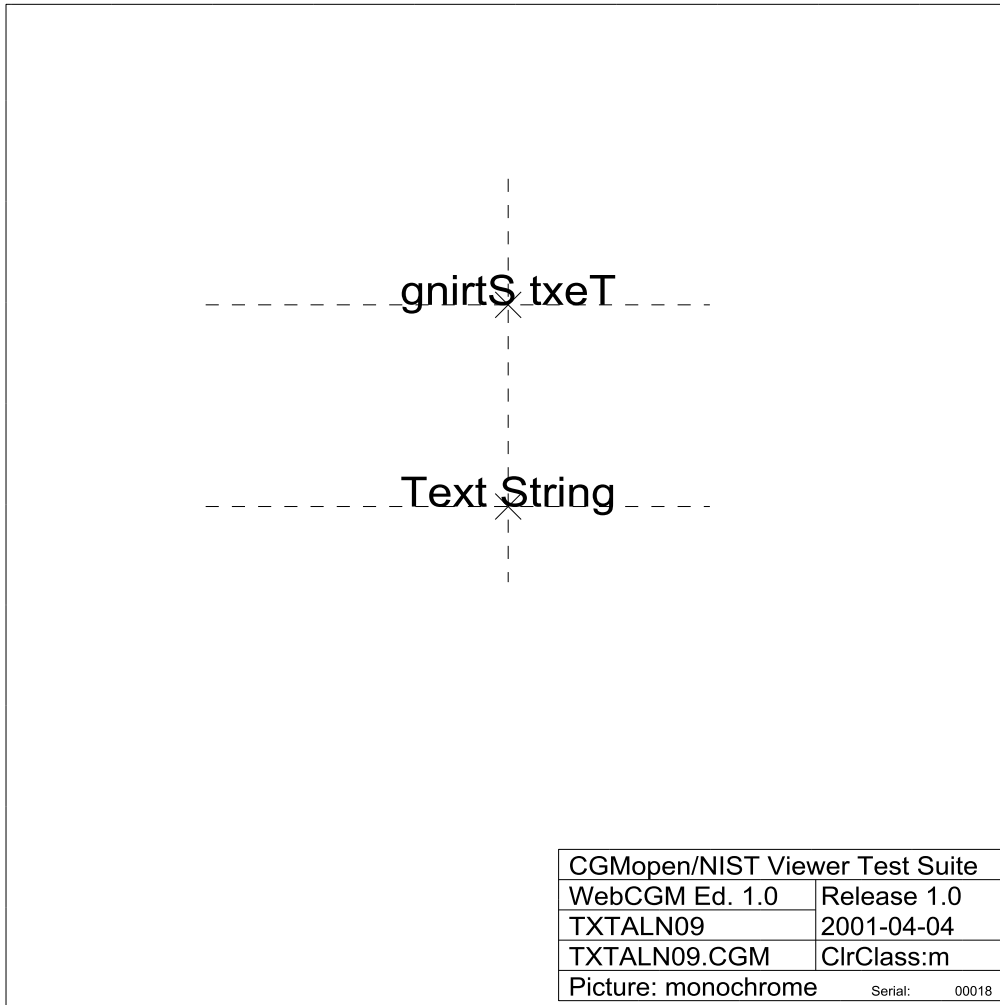
Fig 96, Sheet 1 of 2 TXTALN08



TX TALN08-PNG

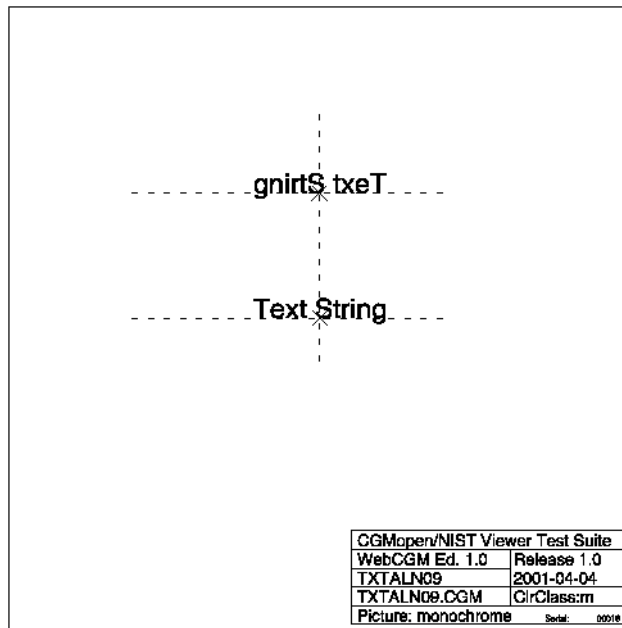
Fig 96, Sheet 2 of 2 TX TALN08

1.14.18 TXTALN09



TXTALN09-CGM

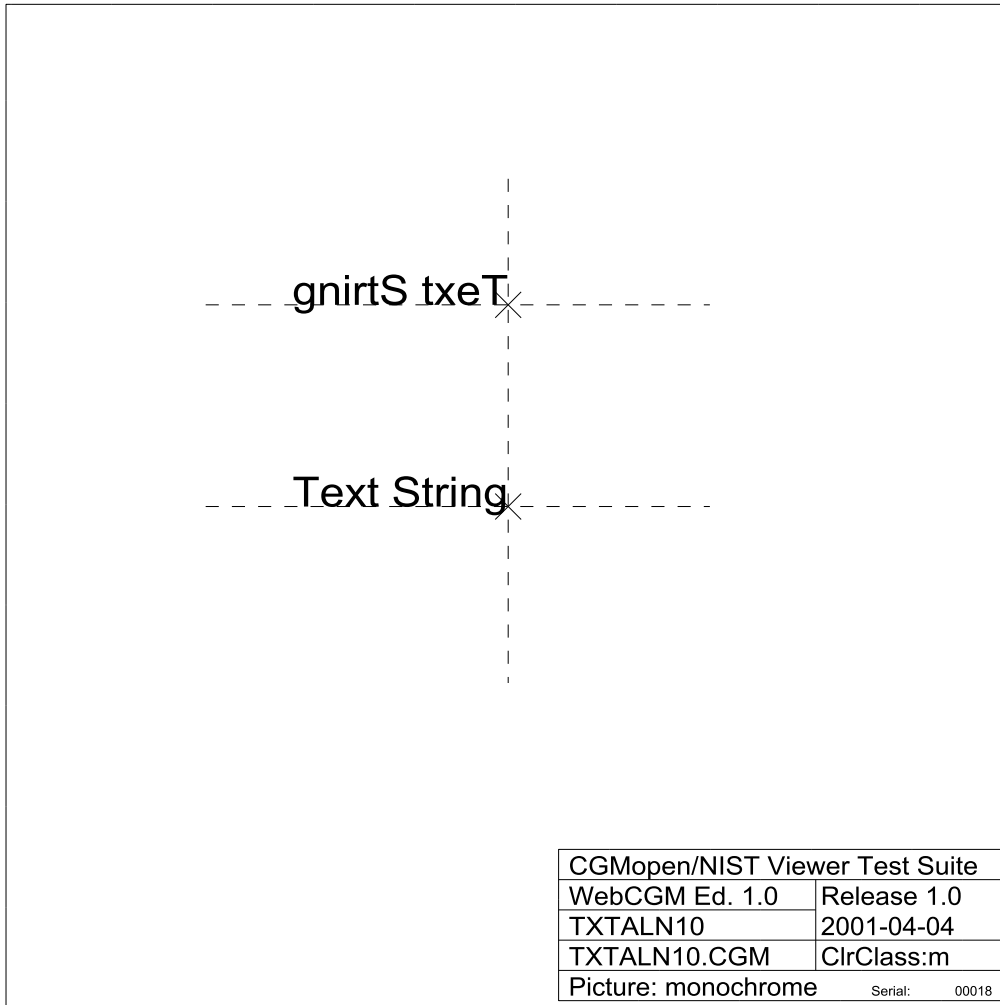
Fig 97, Sheet 1 of 2 TXTALN09



TX TALN09-PNG

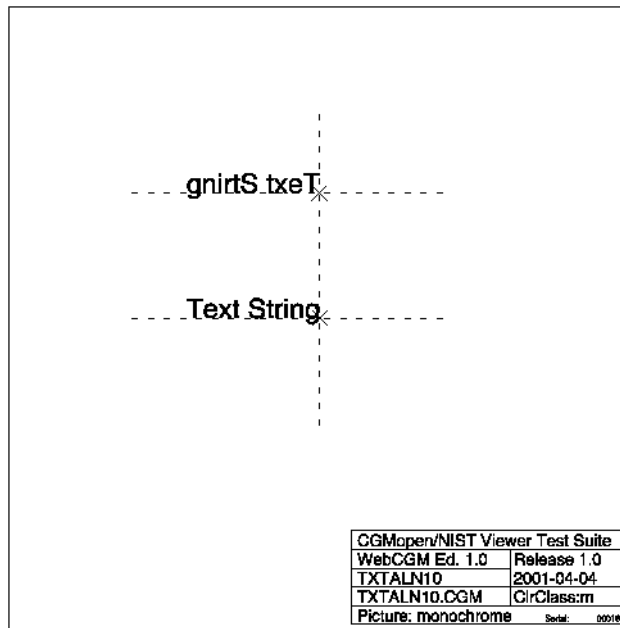
Fig 97, Sheet 2 of 2 TX TALN09

1.14.19 TXTALN10



TXTALN10-CGM

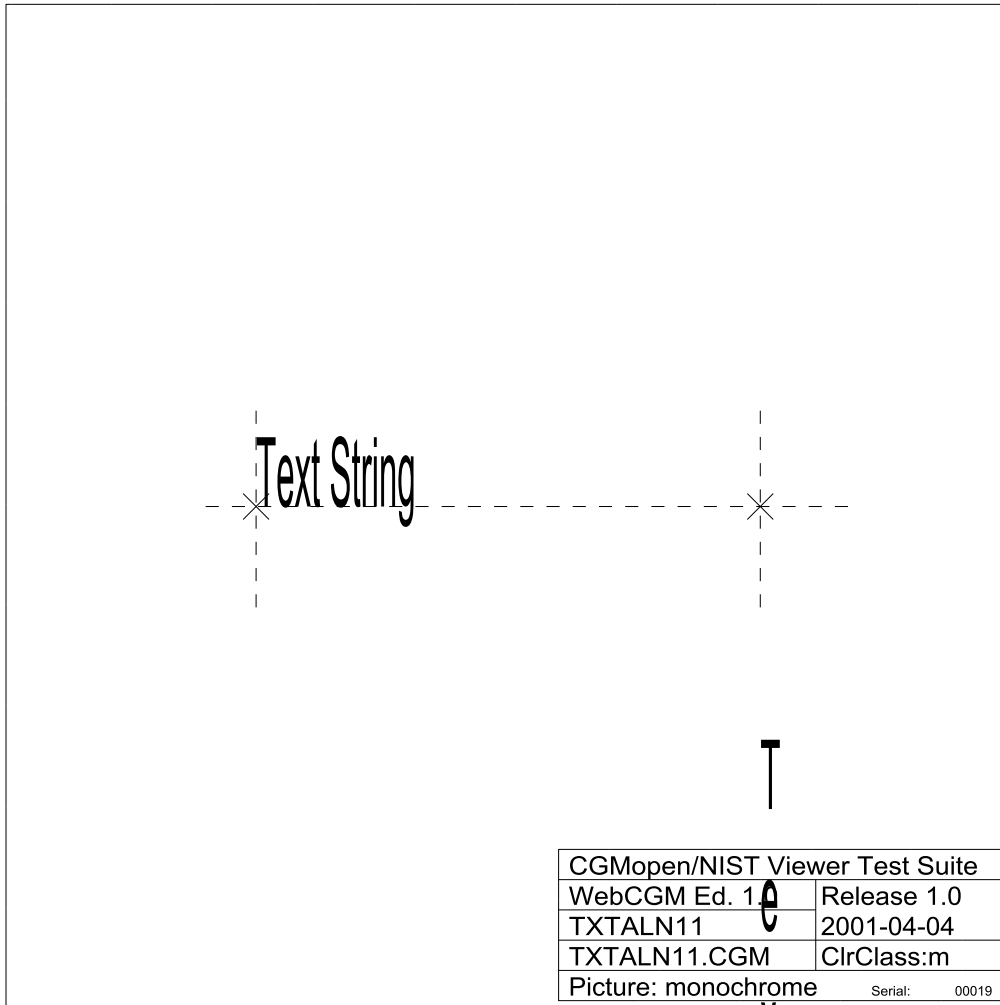
Fig 98, Sheet 1 of 2 TXTALN10



TX TALN10-PNG

Fig 98, Sheet 2 of 2 TX TALN10

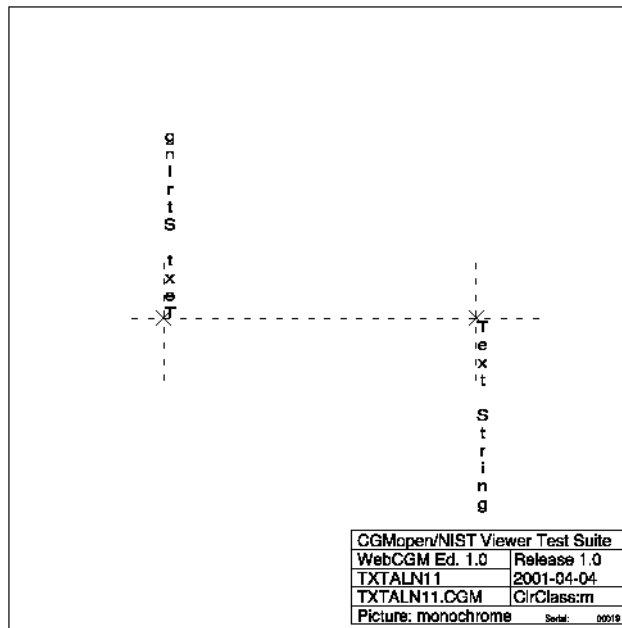
1.14.20 TXTALN11



TXTALN11-CGM

Fig 99, Sheet 1 of 2 TXTALN11

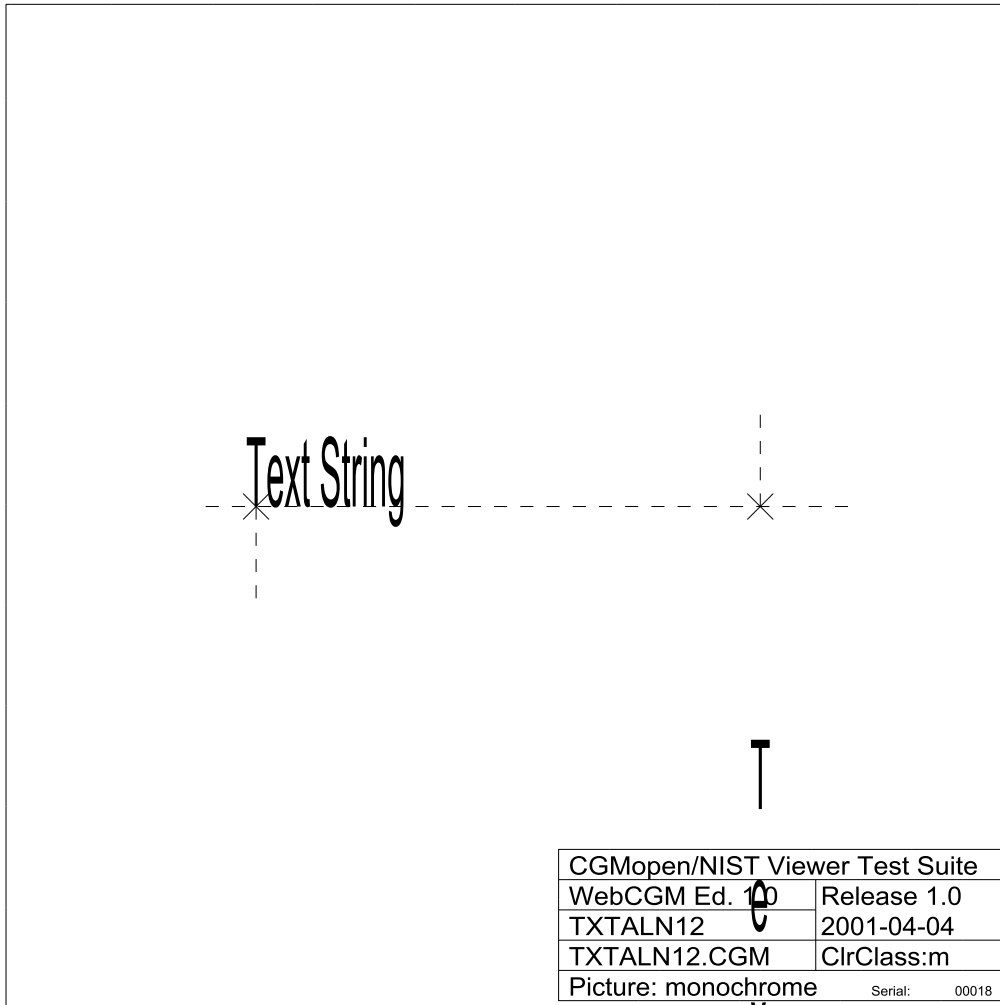




TXTALN11-PNG

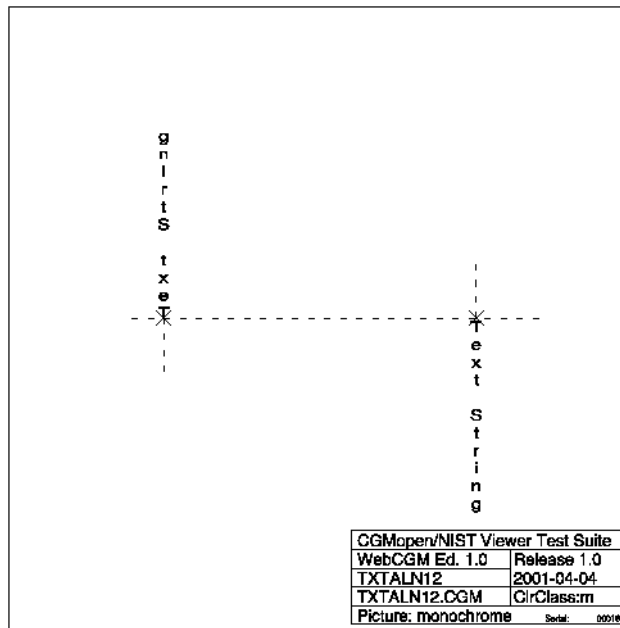
Fig 99, Sheet 2 of 2 TXTALN11

1.14.21 TXTALN12



TXTALN12-CGM

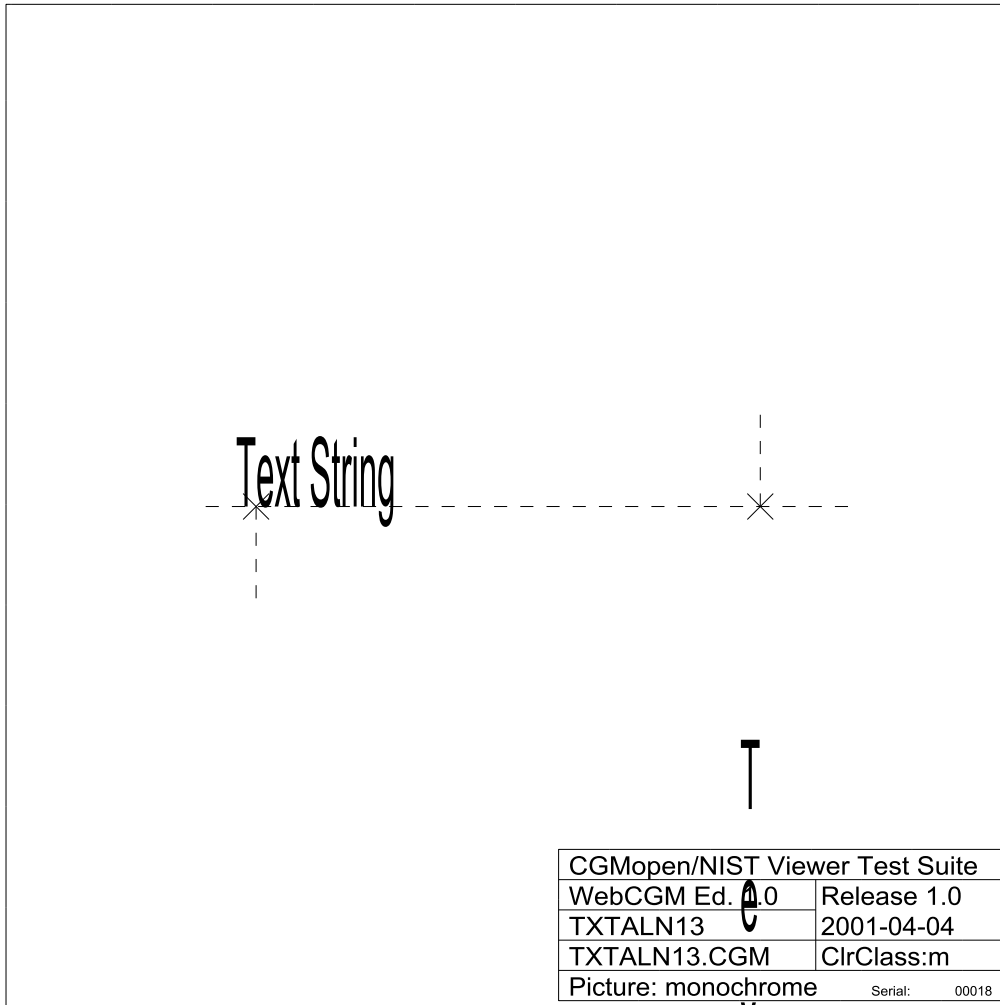
Fig 100, Sheet 1 of 2 TXTALN12



TX TALN12-PNG

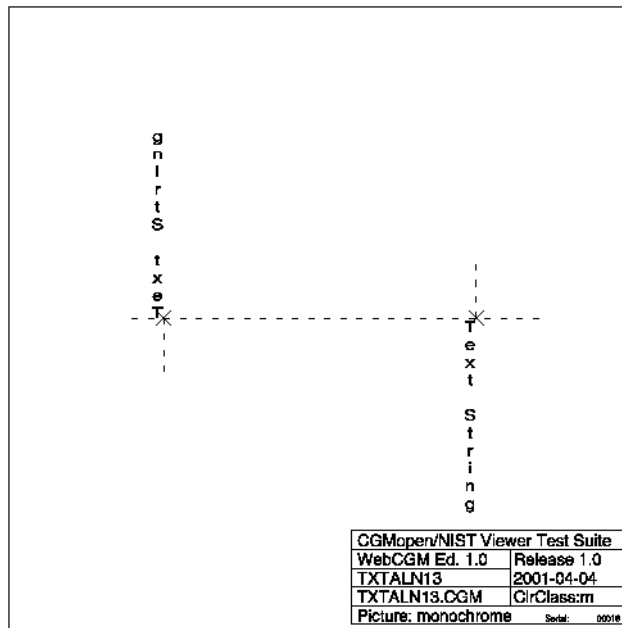
Fig 100, Sheet 2 of 2 TX TALN12

1.14.22 TXTALN13



TXTALN13-CGM

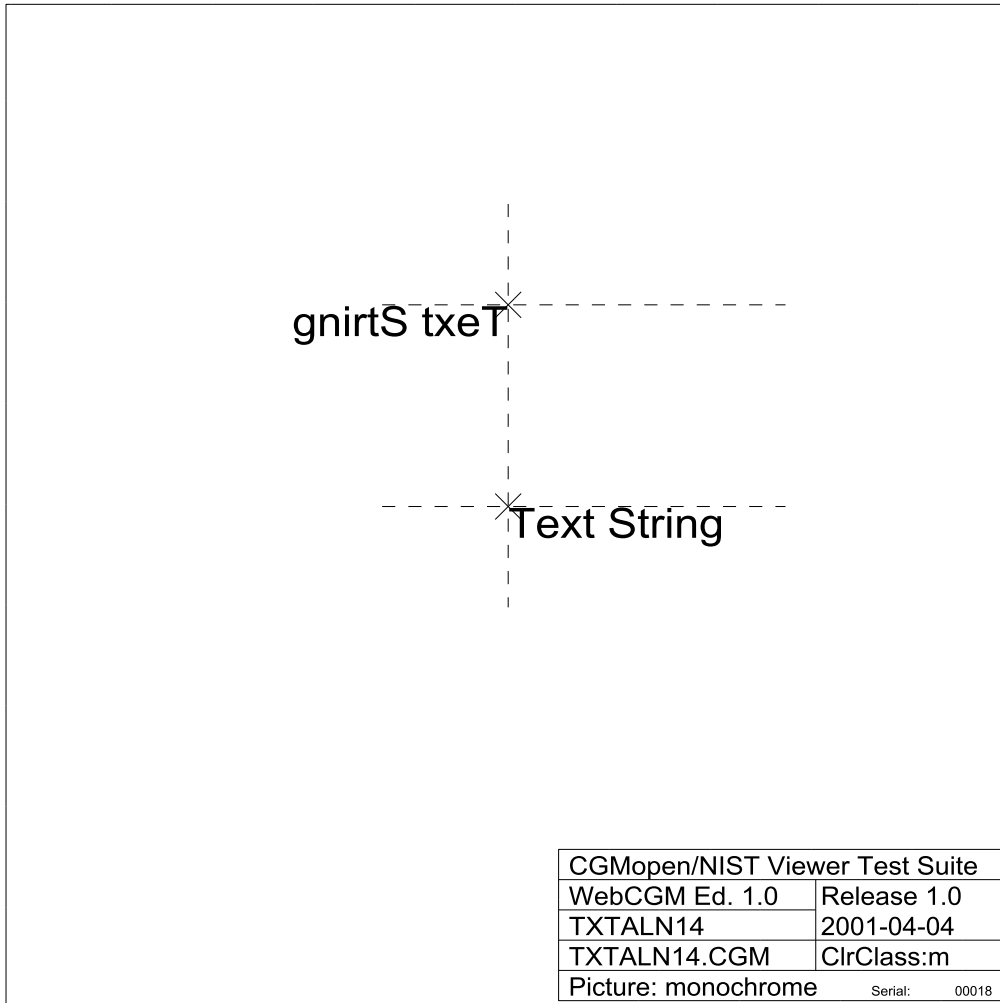
Fig 101, Sheet 1 of 2 TXTALN13



TX TALN13-PNG

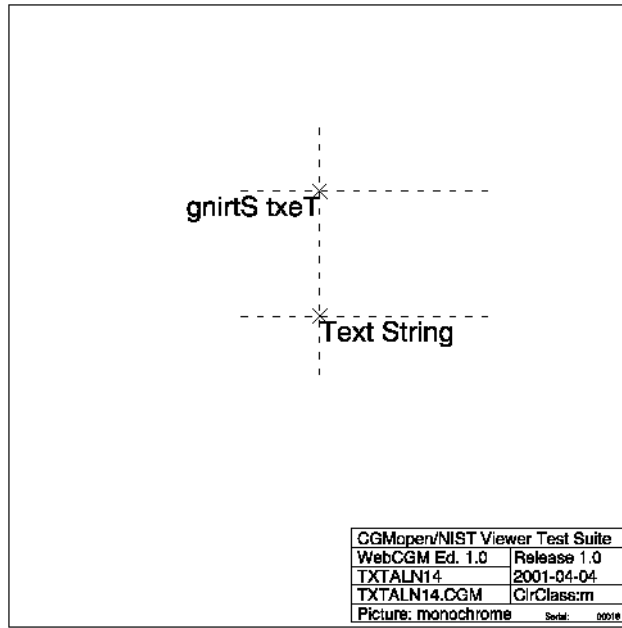
Fig 101, Sheet 2 of 2 TX TALN13

1.14.23 TXTALN14



TXTALN14-CGM

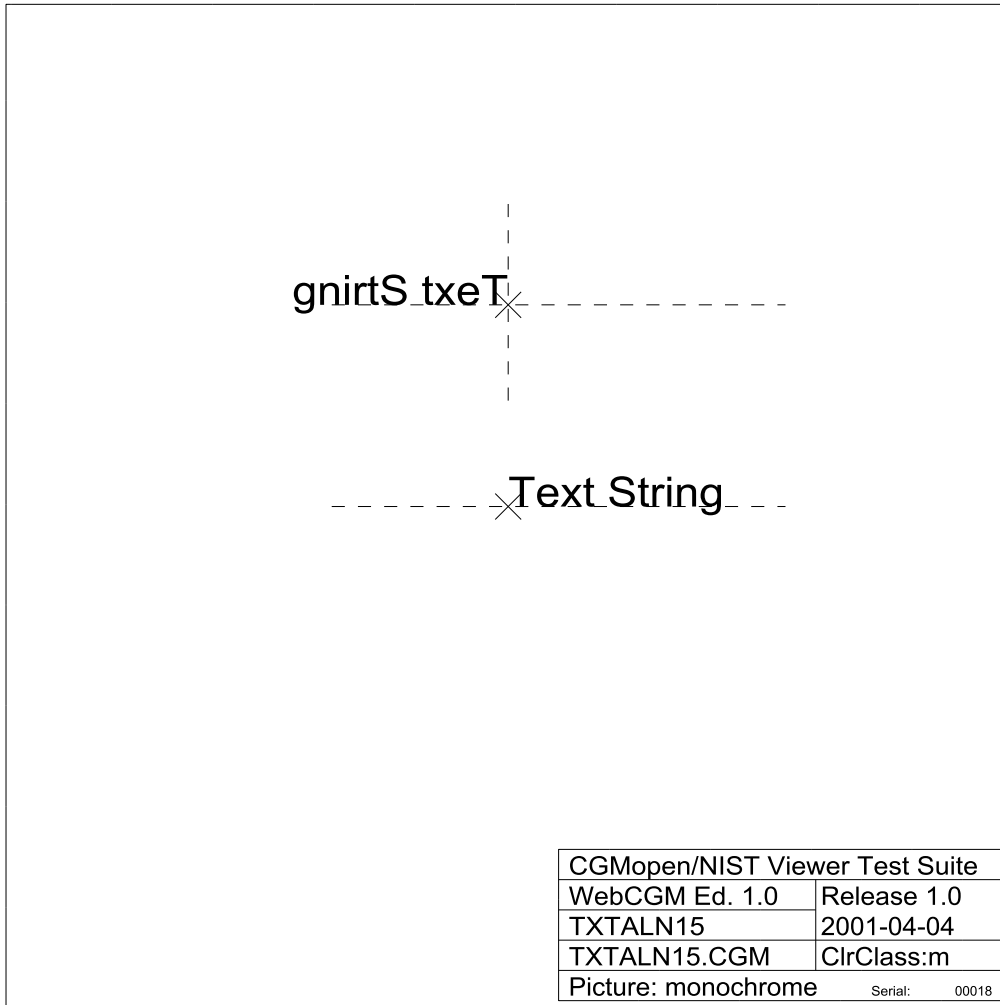
Fig 102, Sheet 1 of 2 TXTALN14



TX TALN14-PNG

Fig 102, Sheet 2 of 2 TX TALN14

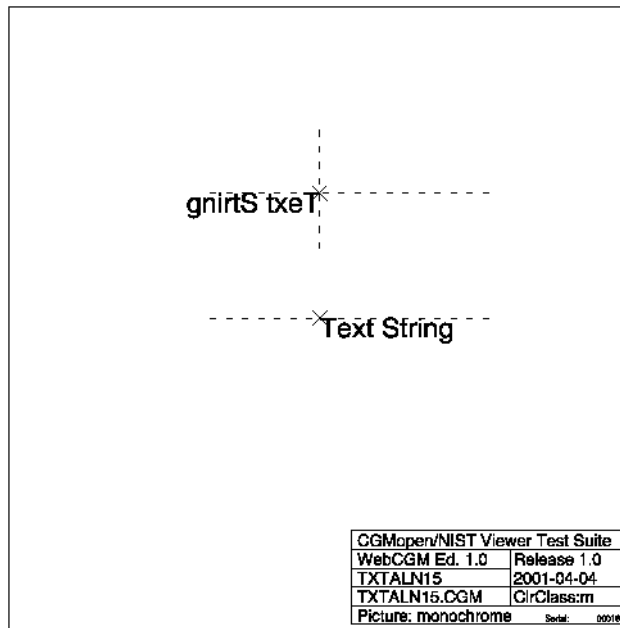
1.14.24 TXTALN15



TXTALN15-CGM

Fig 103, Sheet 1 of 2 TXTALN15

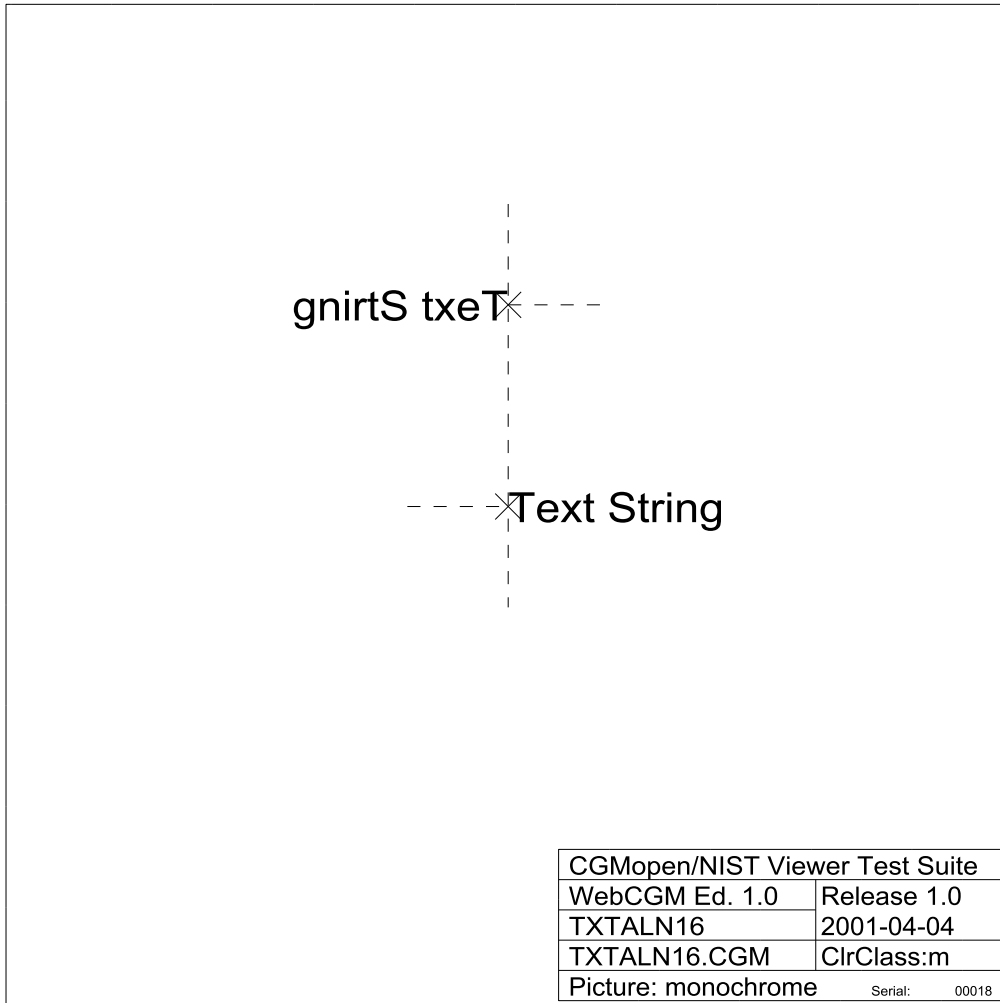




TX TALN15-PNG

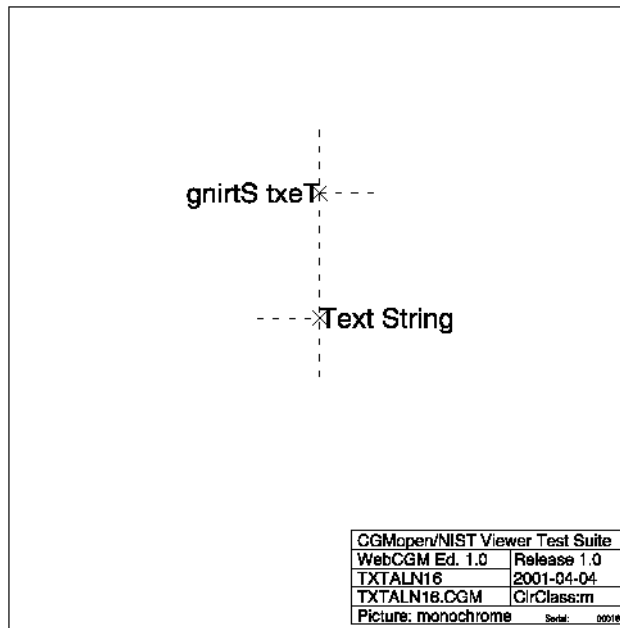
Fig 103, Sheet 2 of 2 TX TALN15

1.14.25 TXTALN16



TXTALN16-CGM

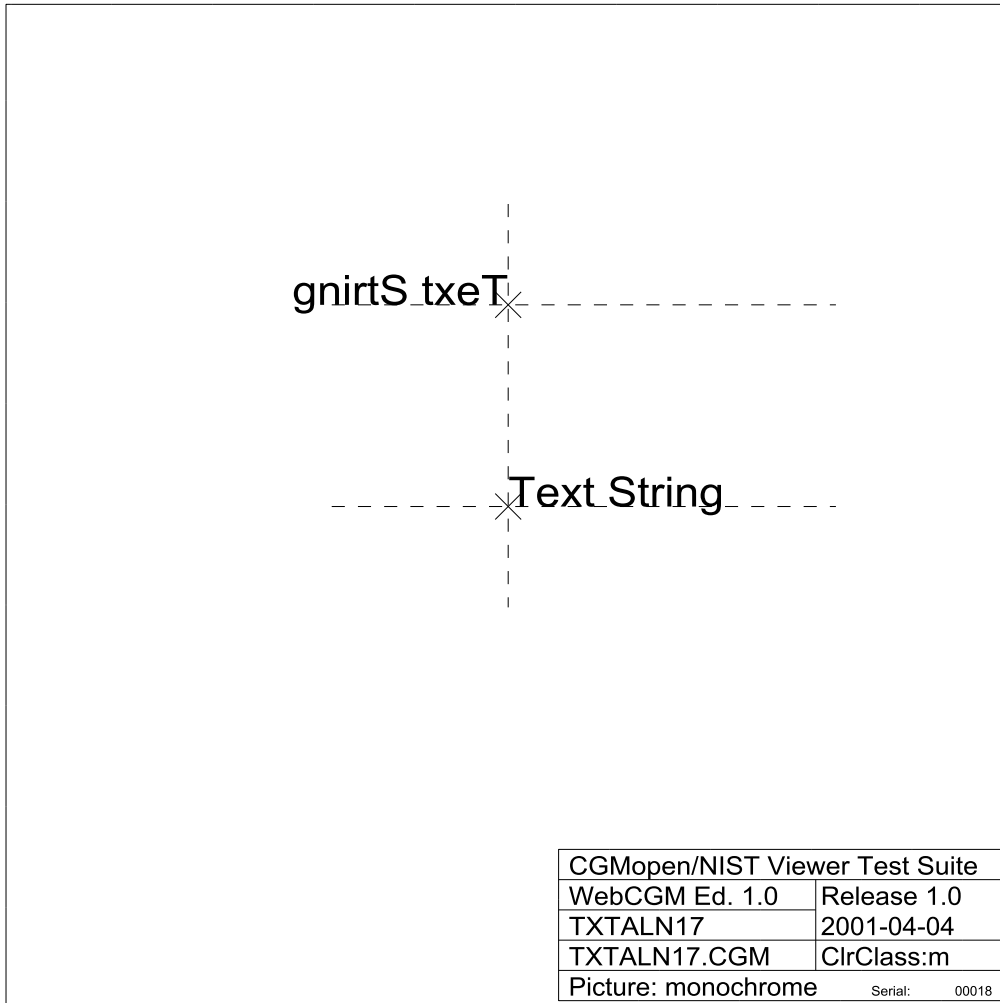
Fig 104, Sheet 1 of 2 TXTALN16



TXTALN16-PNG

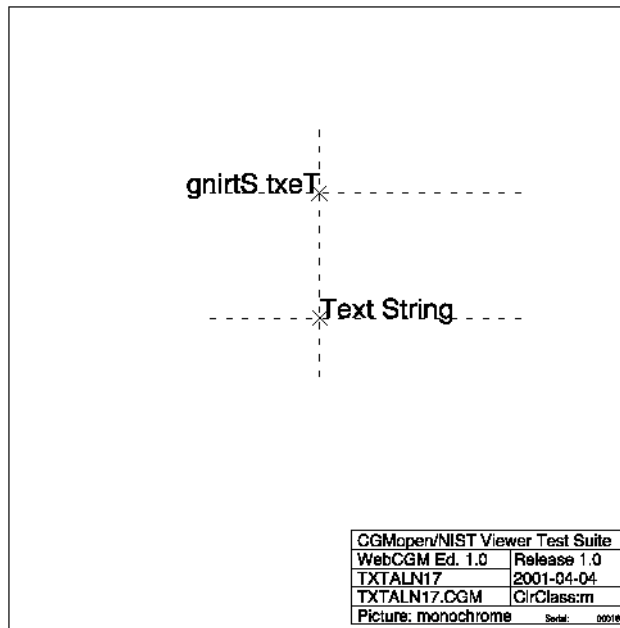
Fig 104, Sheet 2 of 2 TXTALN16

1.14.26 TXTALN17



TXTALN17-CGM

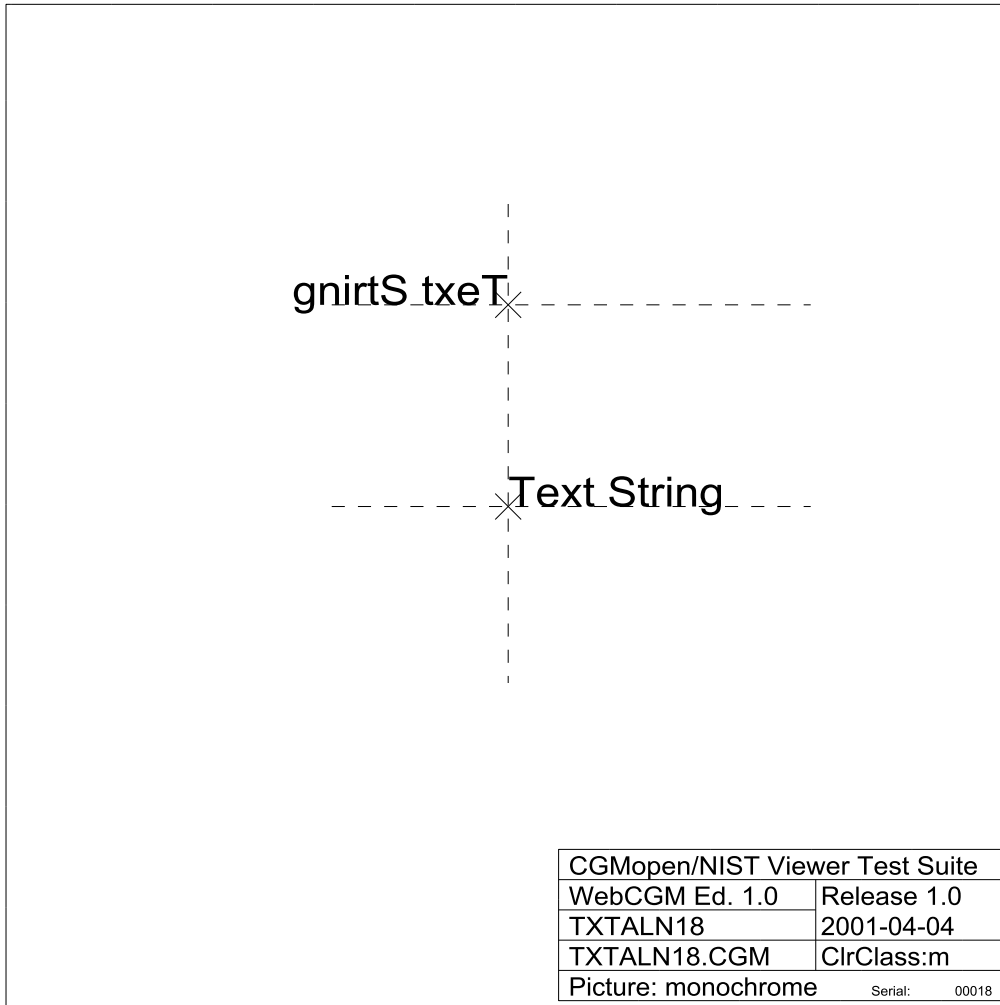
Fig 105, Sheet 1 of 2 TXTALN17



TX TALN17-PNG

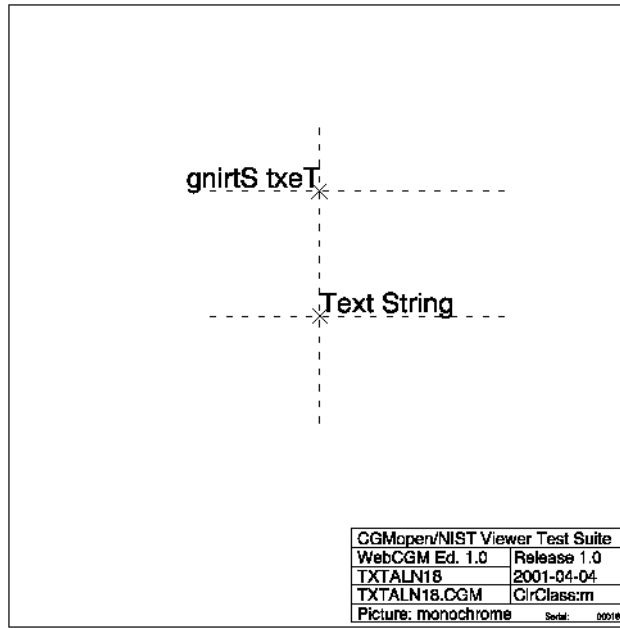
Fig 105, Sheet 2 of 2 TX TALN17

1.14.27 TXTALN18



TXTALN18-CGM

Fig 106, Sheet 1 of 2 TXTALN18



TX TALN18-PNG

Fig 106, Sheet 2 of 2 TX TALN18

1.14.28 TXTALN19

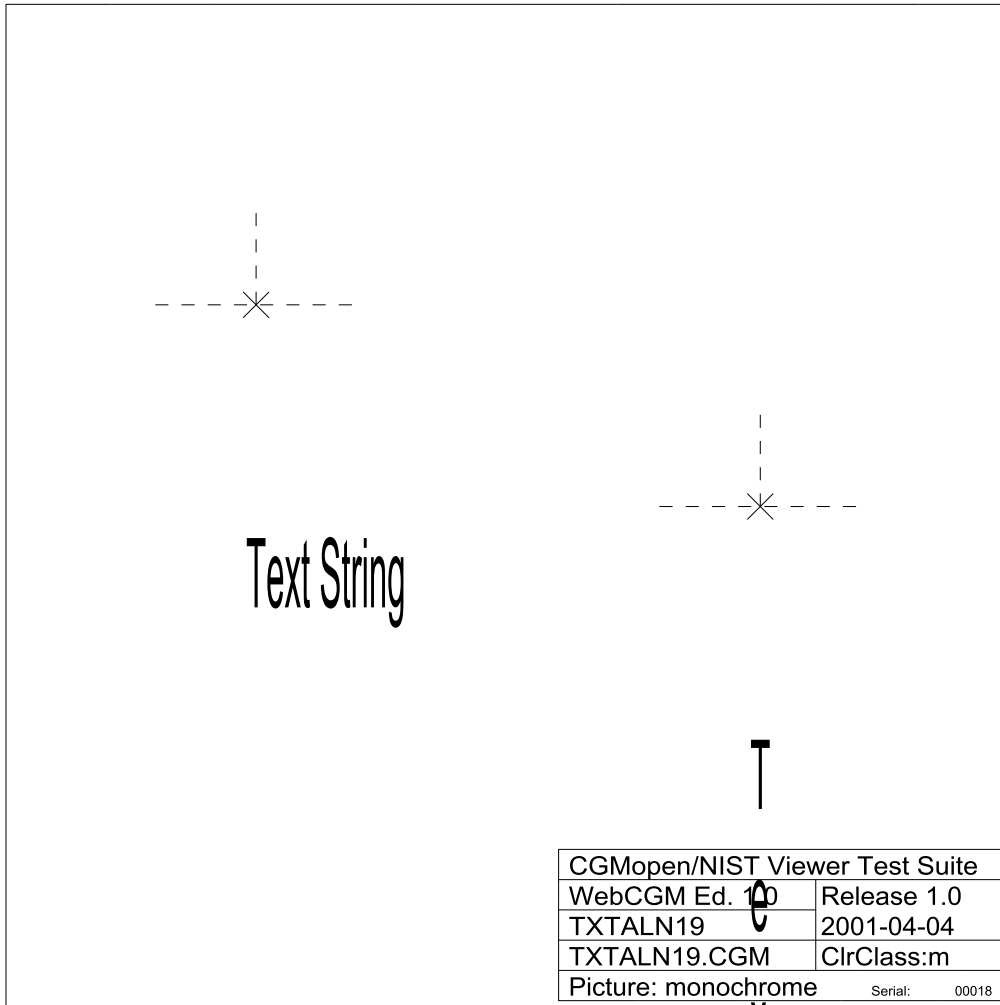
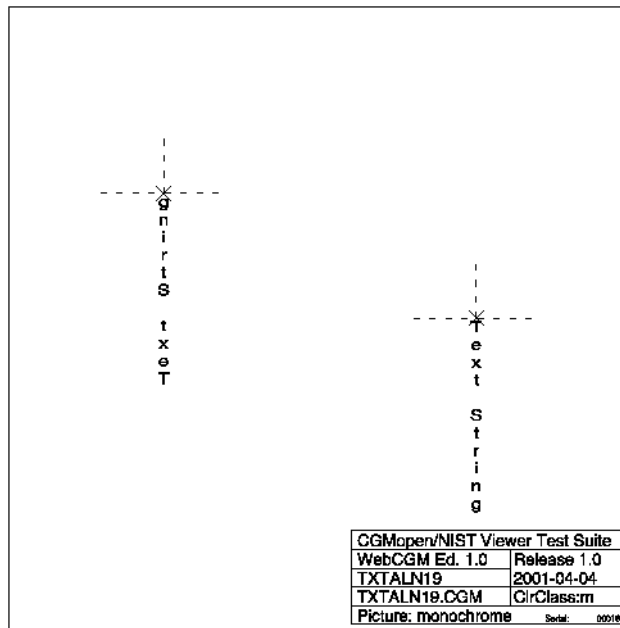


Fig 107, Sheet 1 of 2 TXTALN19

TXTALN19-CGM

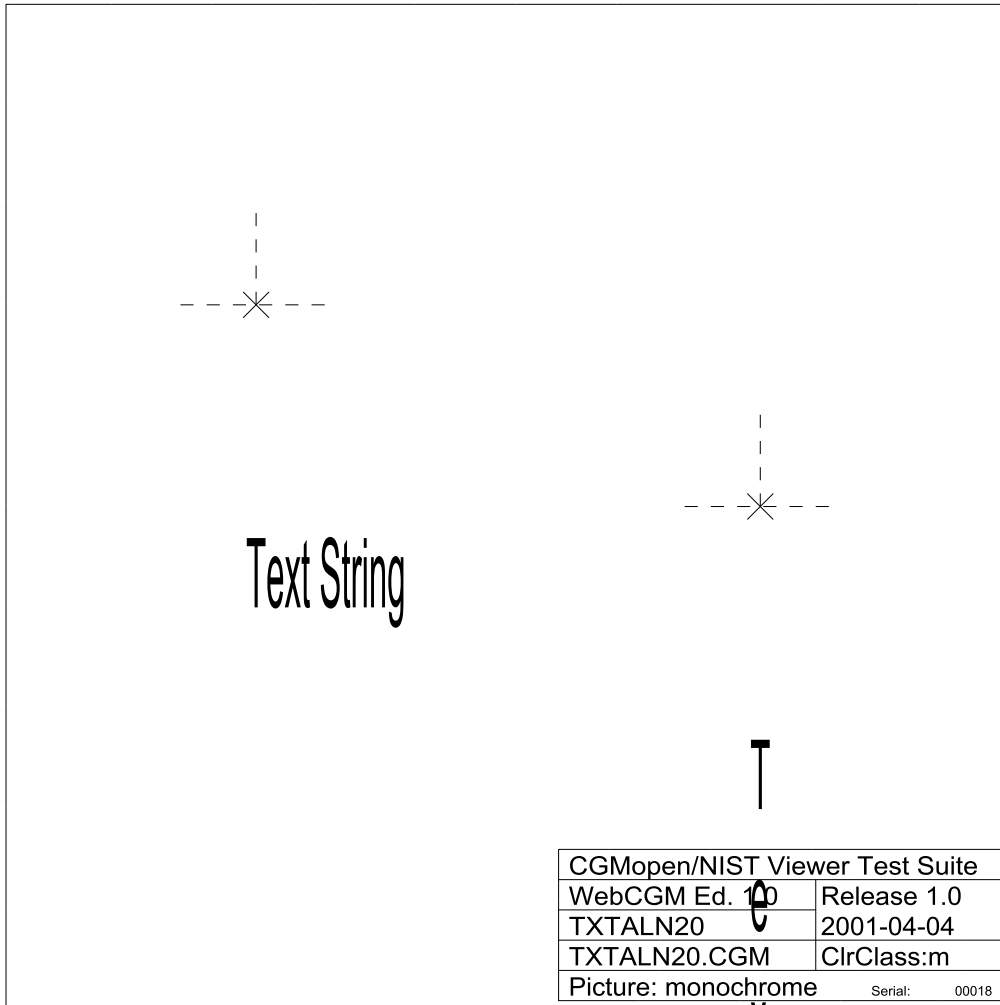




TX TALN19-PNG

Fig 107, Sheet 2 of 2 TX TALN19

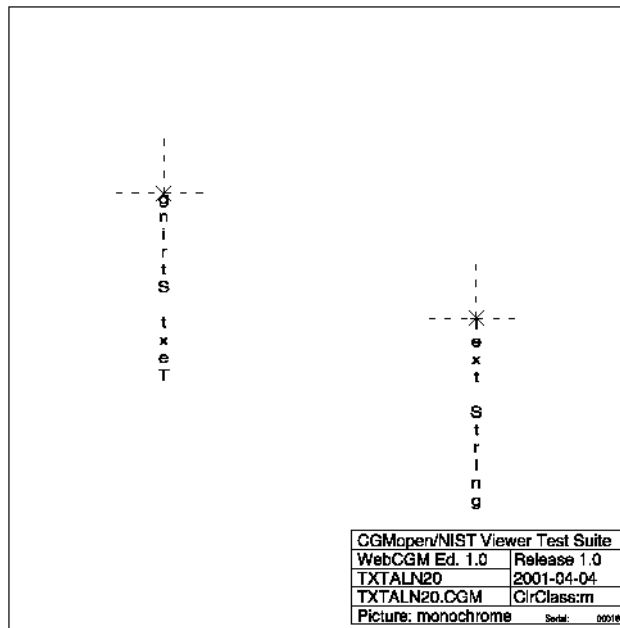
1.14.29 TXTALN20



CGMopen/NIST Viewer Test Suite	
WebCGM Ed. 10	Release 1.0
TXTALN20	2001-04-04
TXTALN20.CGM	CirClass:m
Picture: monochrome	Serial: 00018

TXTALN20-CGM

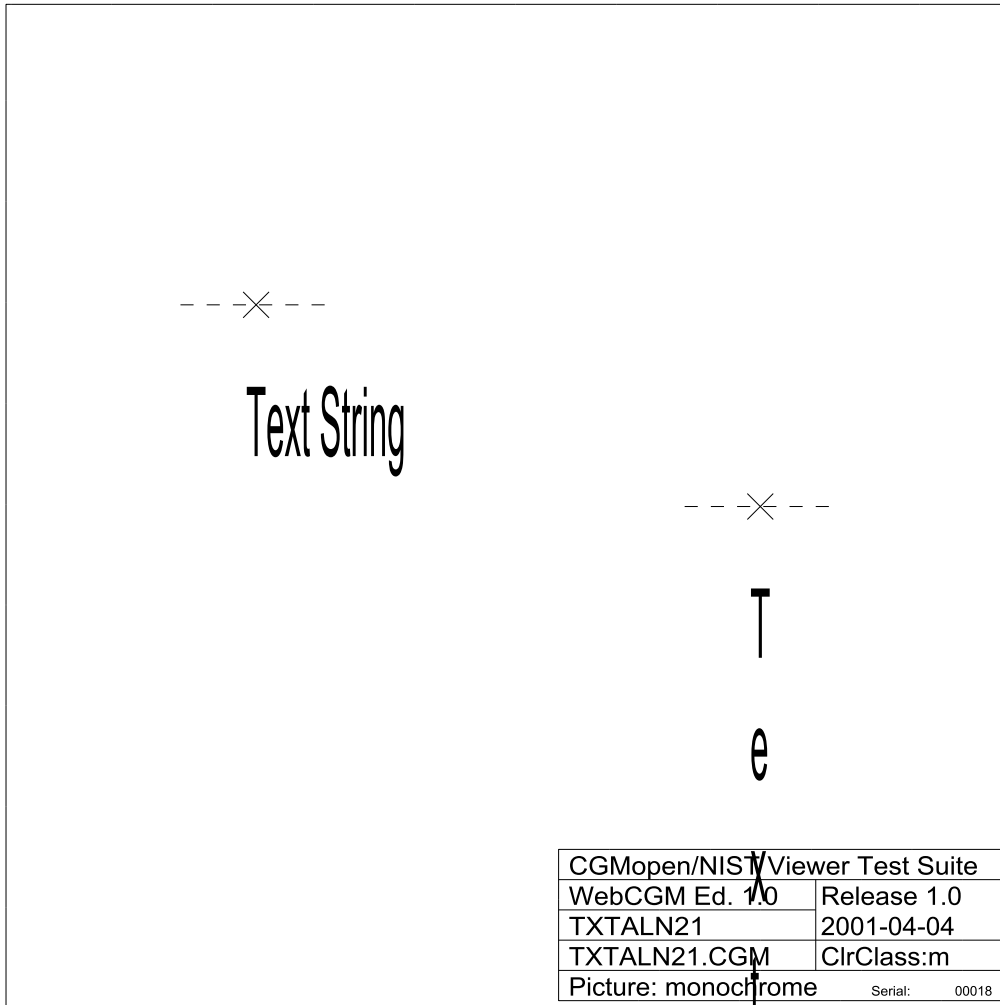
Fig 108, Sheet 1 of 2 TXTALN20



TXTALN20-PNG

Fig 108, Sheet 2 of 2 TXTALN20

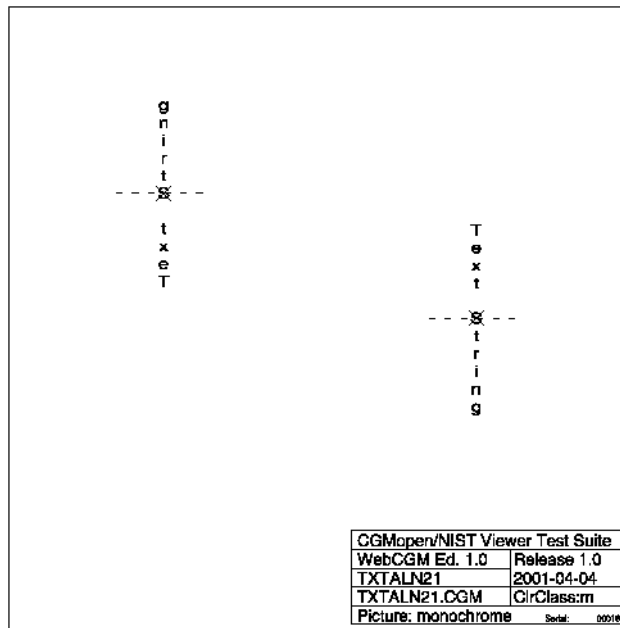
1.14.30 TXTALN21



TXTALN21-CGM

Fig 109, Sheet 1 of 2 TXTALN21

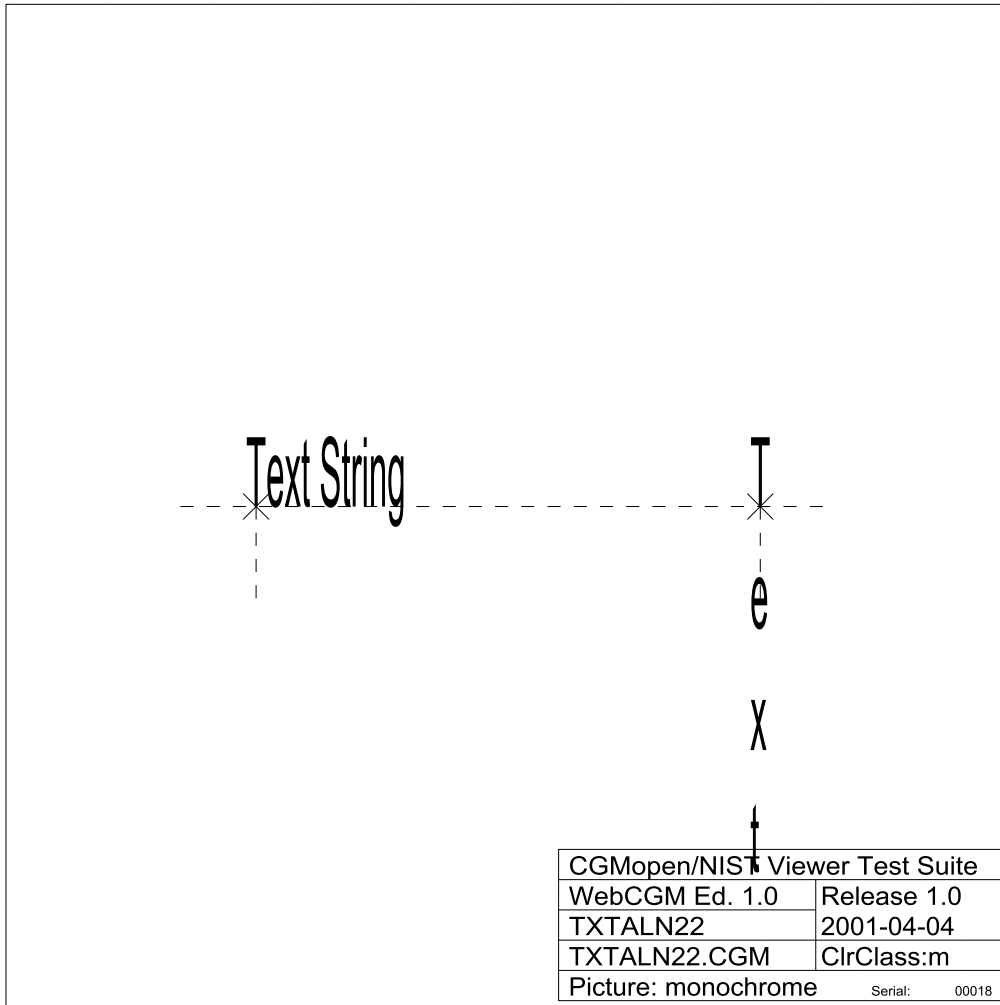
S  
t  
r  
i



TX TALN21-PNG

Fig 109, Sheet 2 of 2 TX TALN21

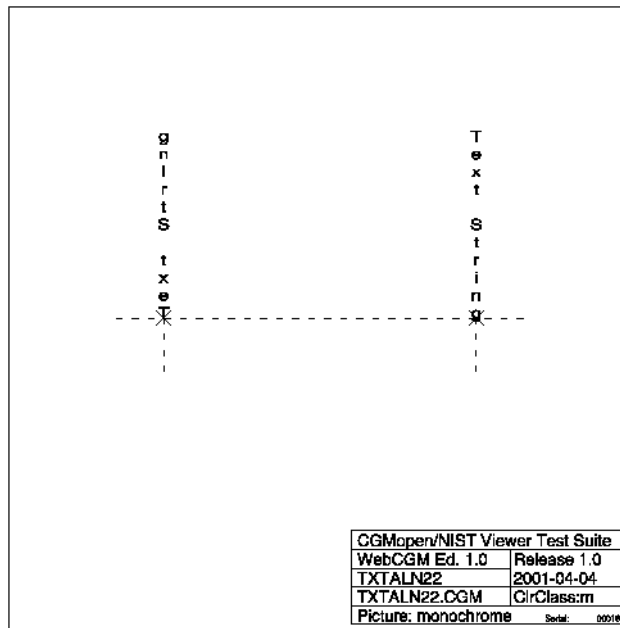
1.14.31 TXTALN22



TXTALN22-CGM

Fig 110, Sheet 1 of 2 TXTALN22

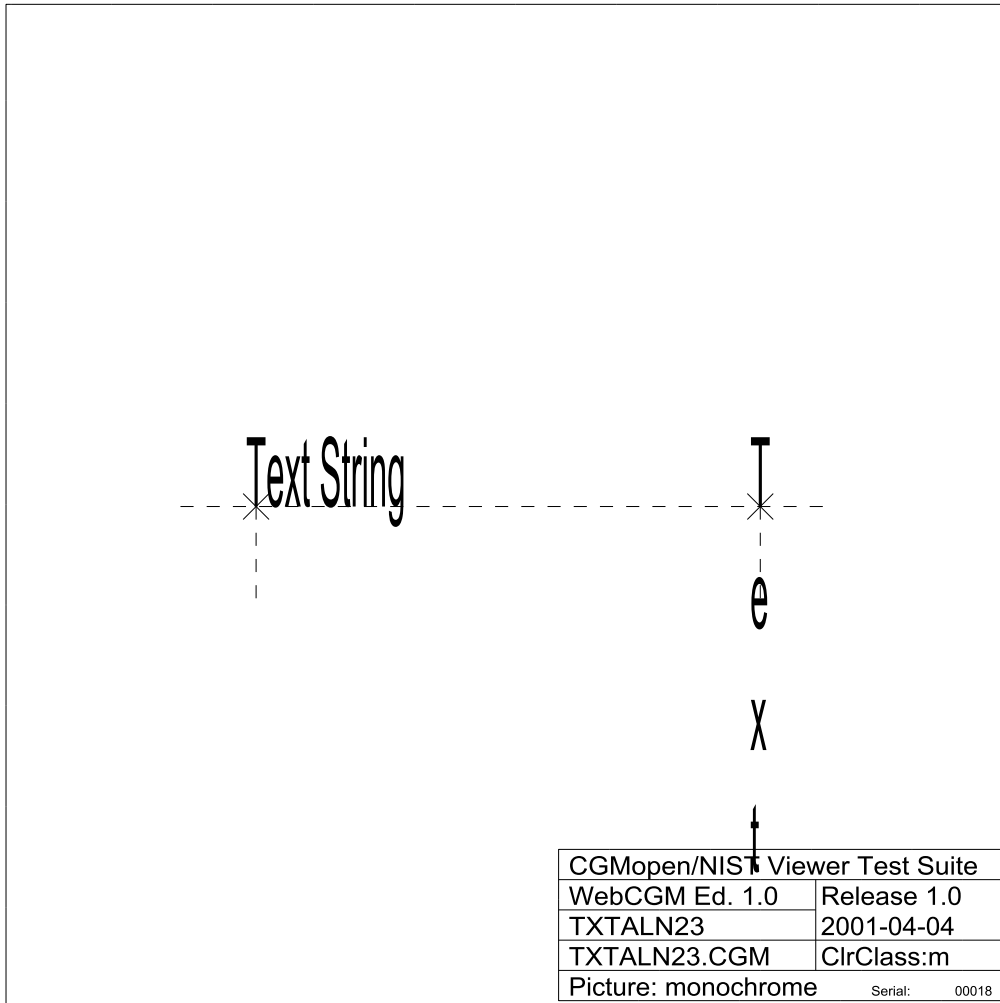
S  
t  
r  
i  
n  
g



TX TALN22-PNG

Fig 110, Sheet 2 of 2 TX TALN22

1.14.32 TXTALN23

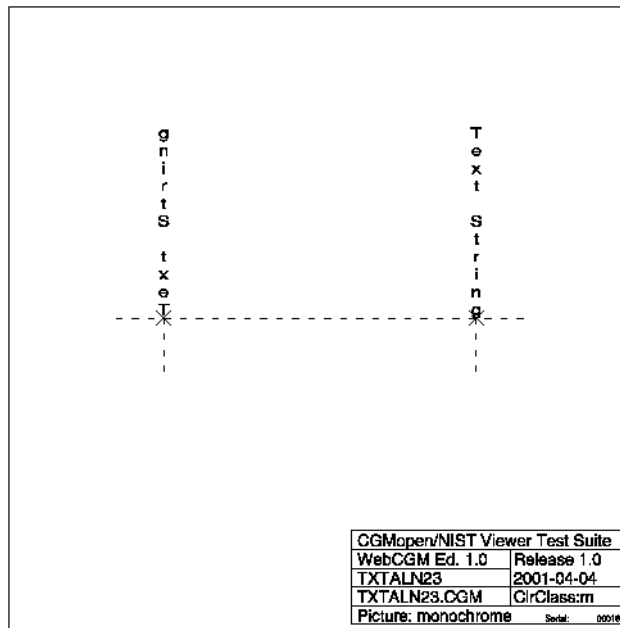


TXTALN23-CGM

Fig 111, Sheet 1 of 2 TXTALN23

S  
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n  
g

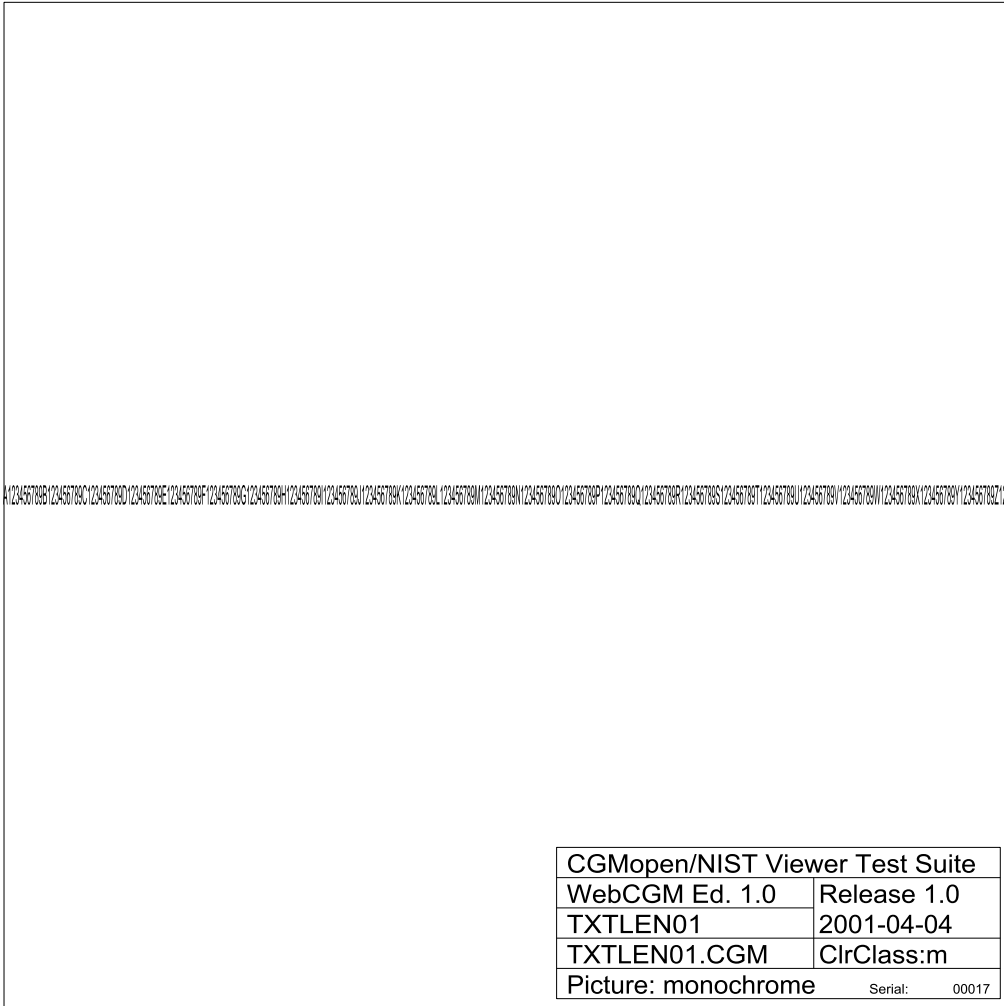




TXTALN23-PNG

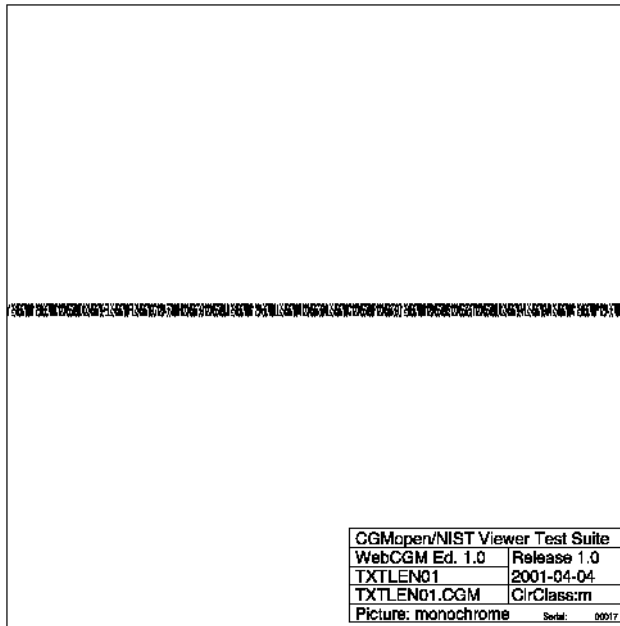
Fig 111, Sheet 2 of 2 TXTALN23

1.14.33 TXTLEN01



TXTLEN01-CGM

Fig 112, Sheet 1 of 2 TXTLEN01



TXTLN01-PNG

Fig 112, Sheet 2 of 2 TXTLN01

1.14.34 TXTCOL01



TXTCOL01-CGM

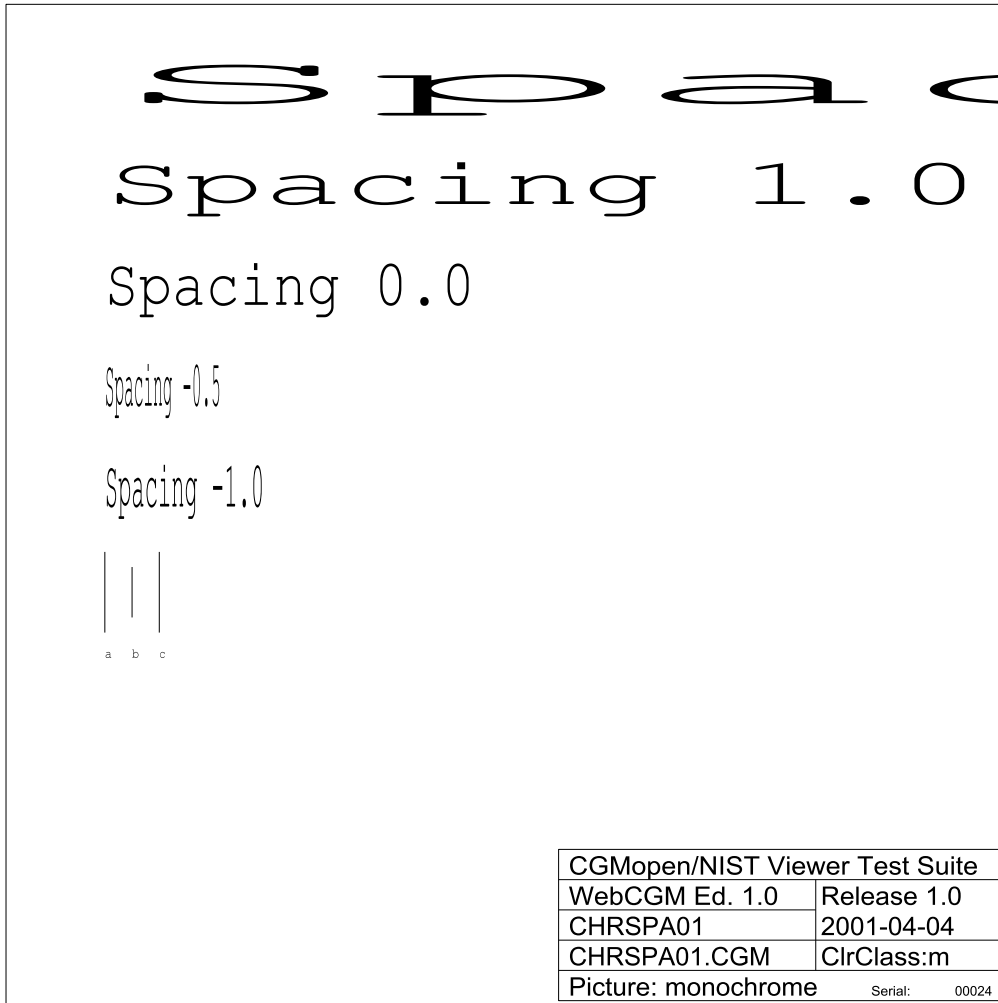
Fig 113, Sheet 1 of 2 TXTCOL01



TXTCOL01-PNG

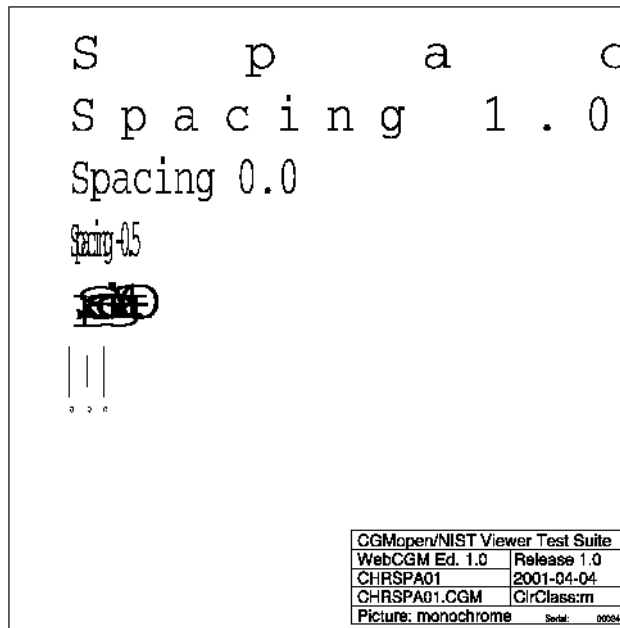
Fig 113, Sheet 2 of 2 TXTCOL01

1.14.35 CHRSPA01



CHRSPA01-CGM

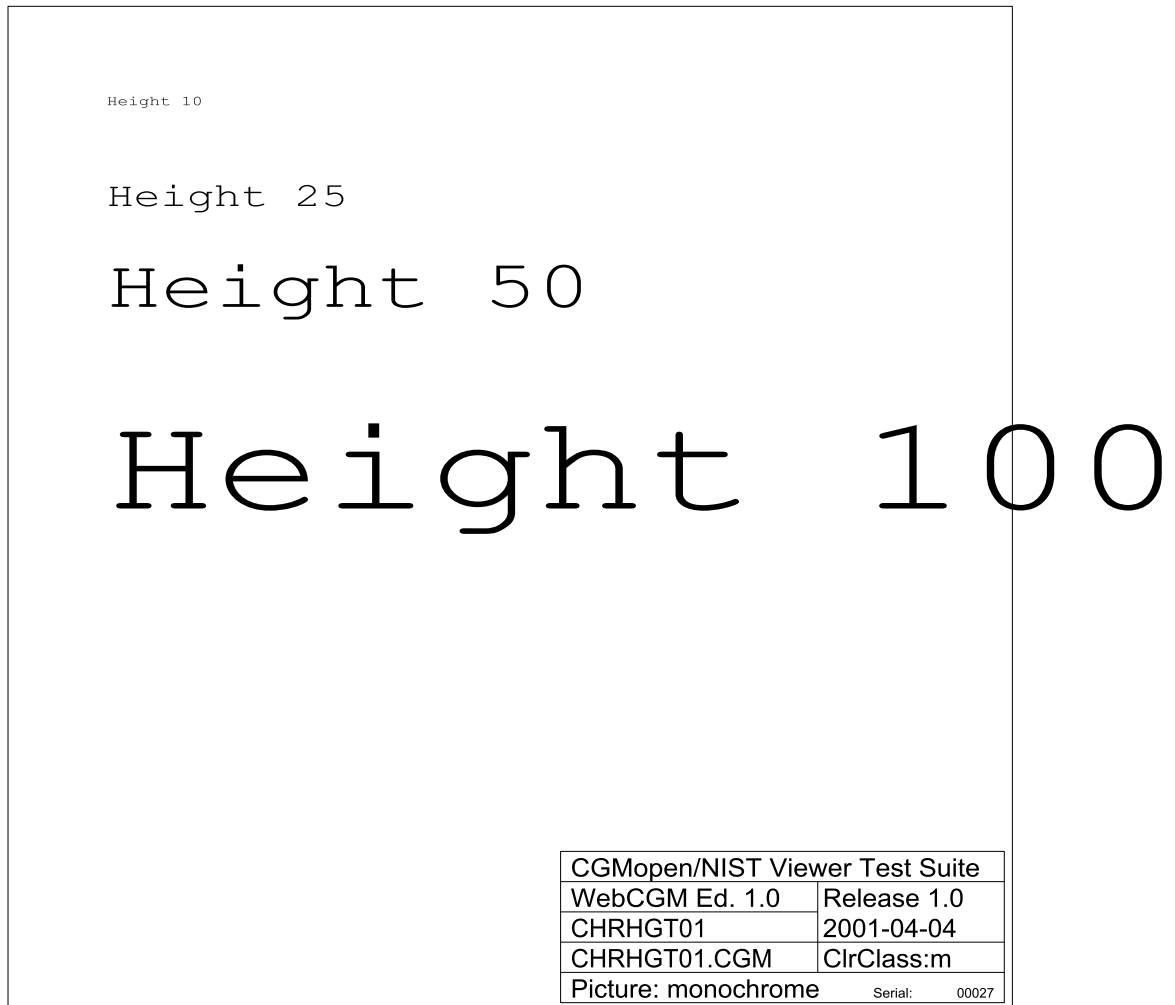
Fig 114, Sheet 1 of 2 CHRSPA01



CHRSPA01-PNG

Fig 114, Sheet 2 of 2 CHRSPA01

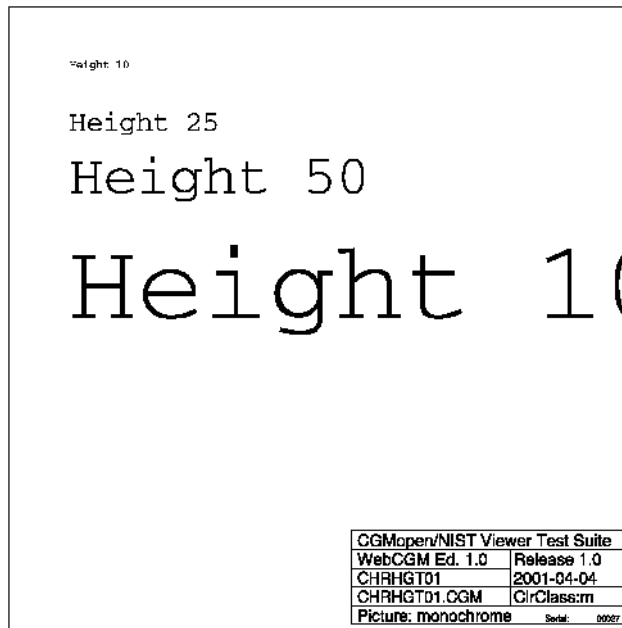
1.14.36 CHRHGT01



CHRHGT01-CGM

Fig 115, Sheet 1 of 2 CHRHGT01

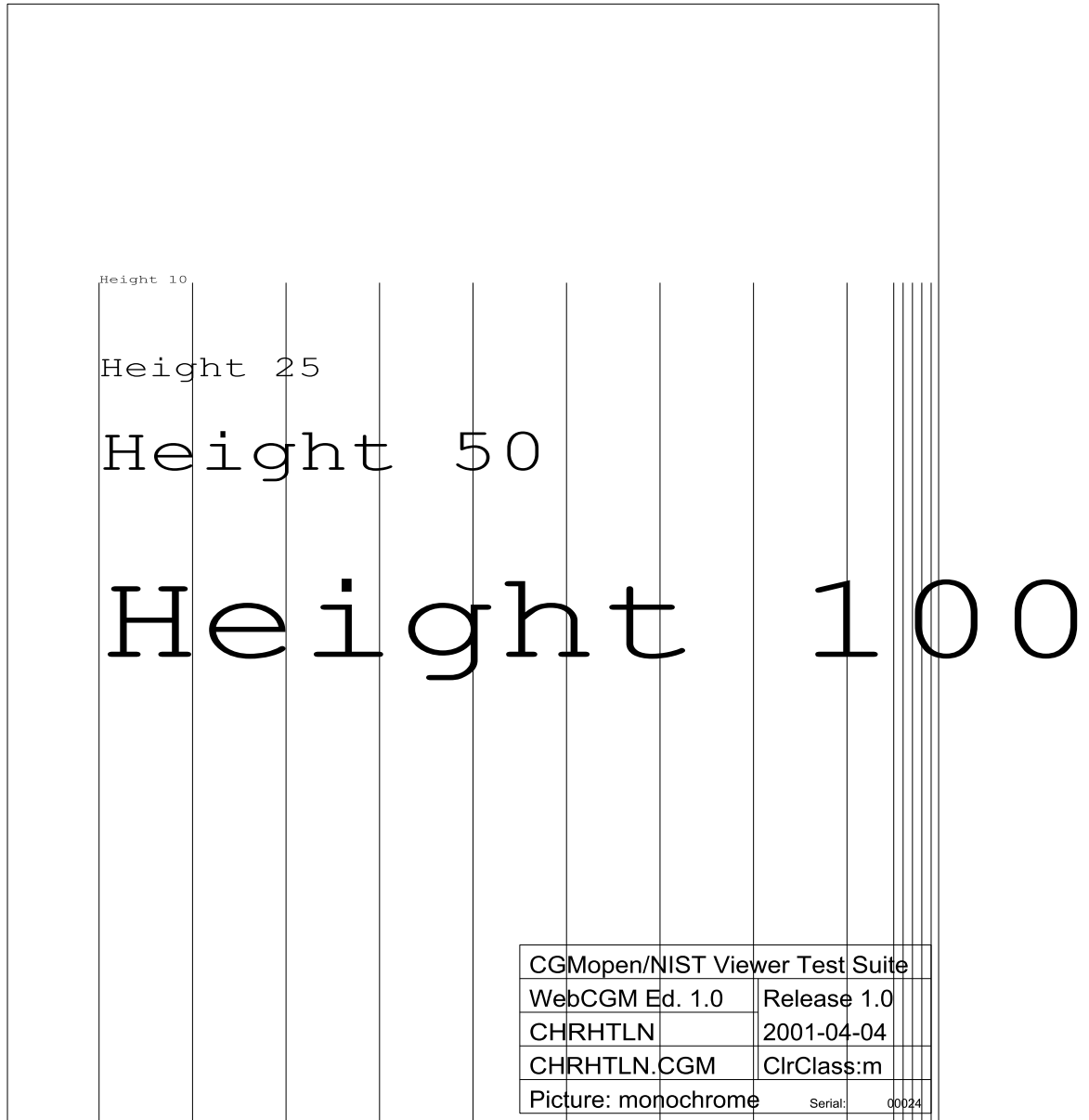




CHRHGT01-PNG

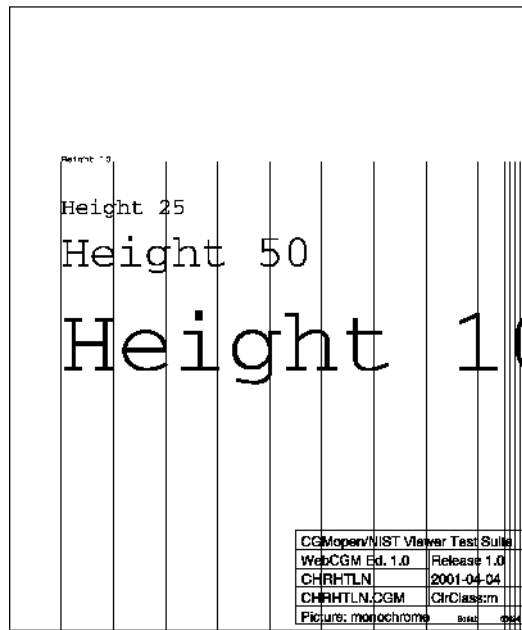
Fig 115, Sheet 2 of 2 CHRHGT01

1.14.37 CHRHTLN



CHRHTLN-CGM

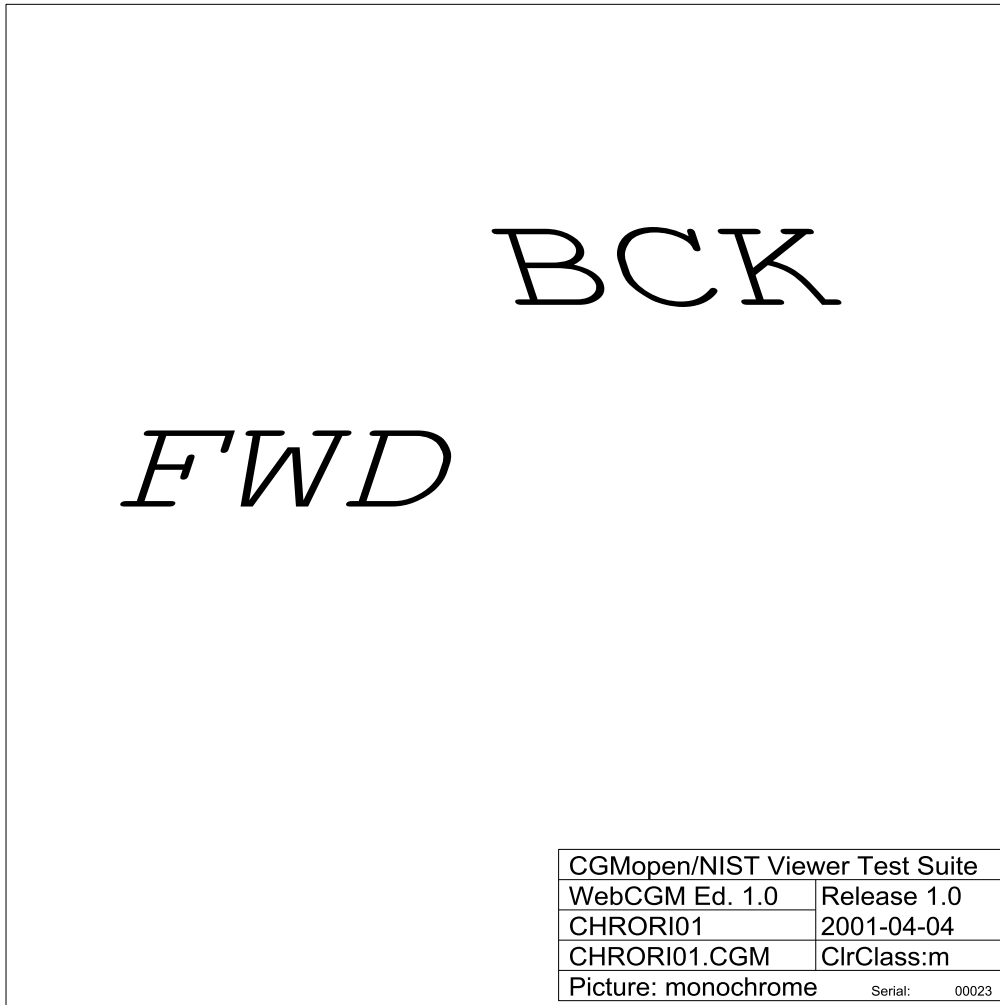
Fig 116, Sheet 1 of 2 CHRHTLN



CHRHTLN-PNG

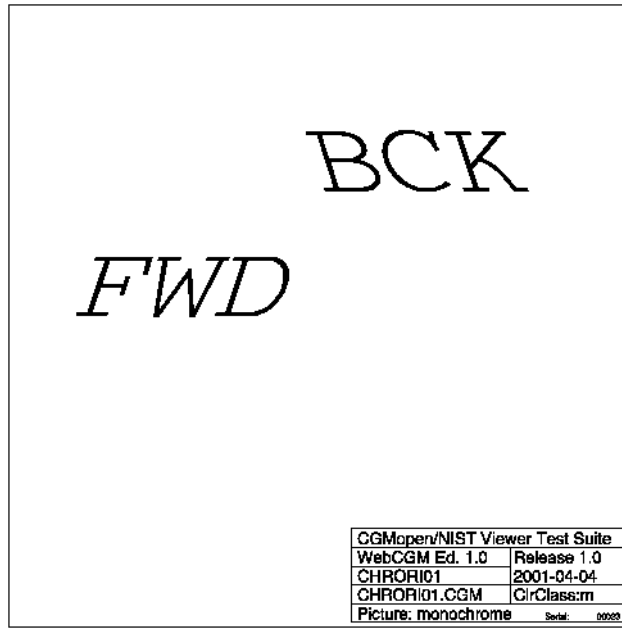
Fig 116, Sheet 2 of 2 CHRHTLN

1.14.38 CHRORI01



CHRORI01-CGM

Fig 117, Sheet 1 of 2 CHRORI01

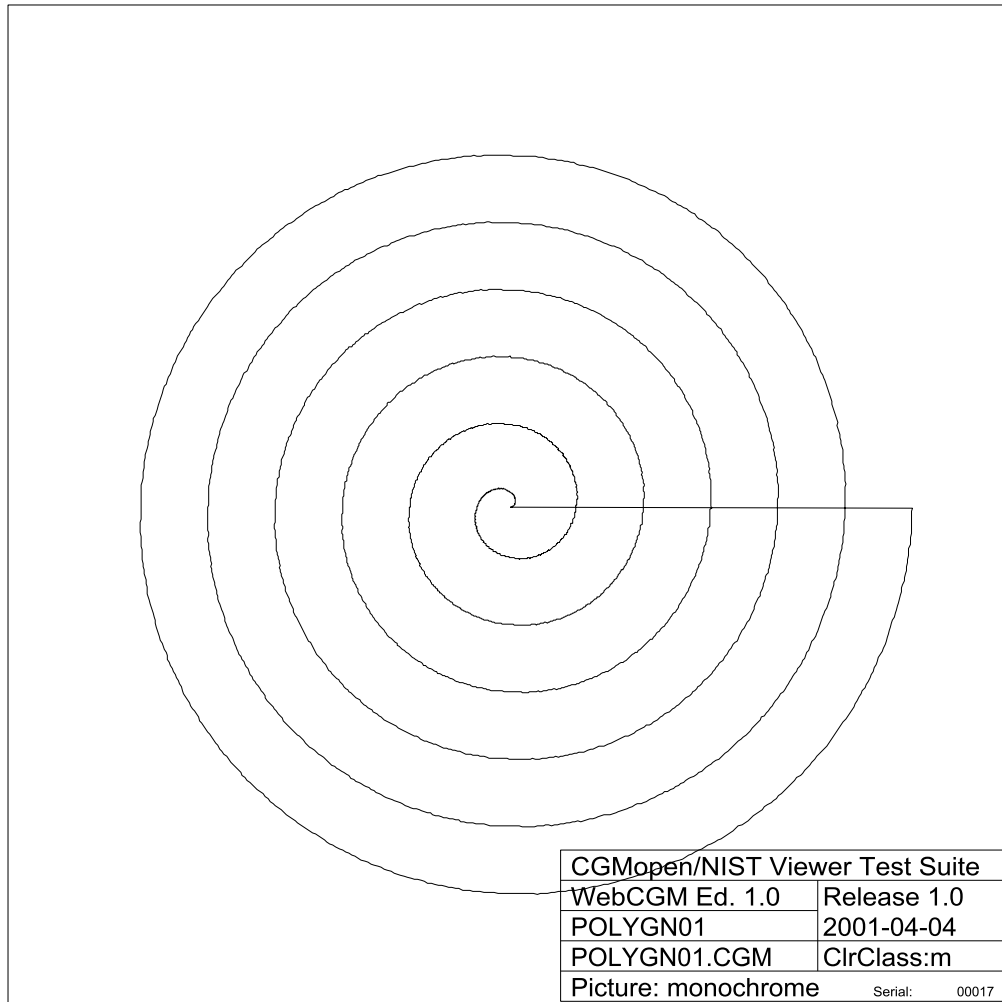


CHRORI01-PNG

Fig 117, Sheet 2 of 2 CHRORI01

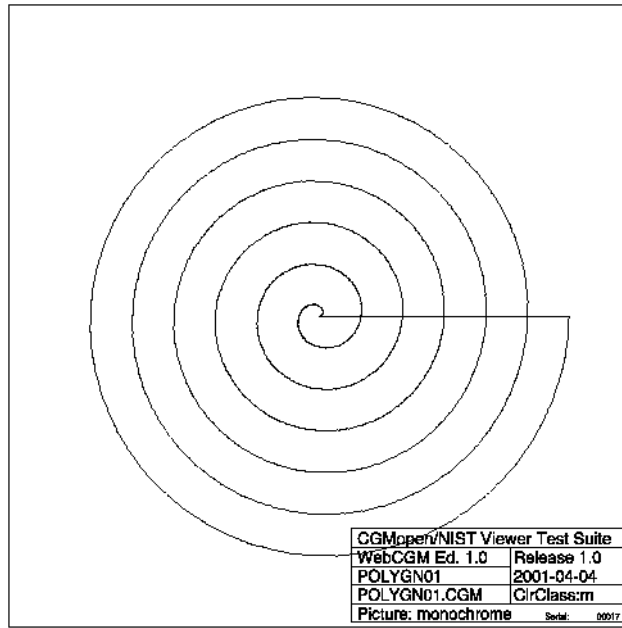
1.15 Fill-Area Elements

1.15.1 POLYGN01



POLYGN01-CGM

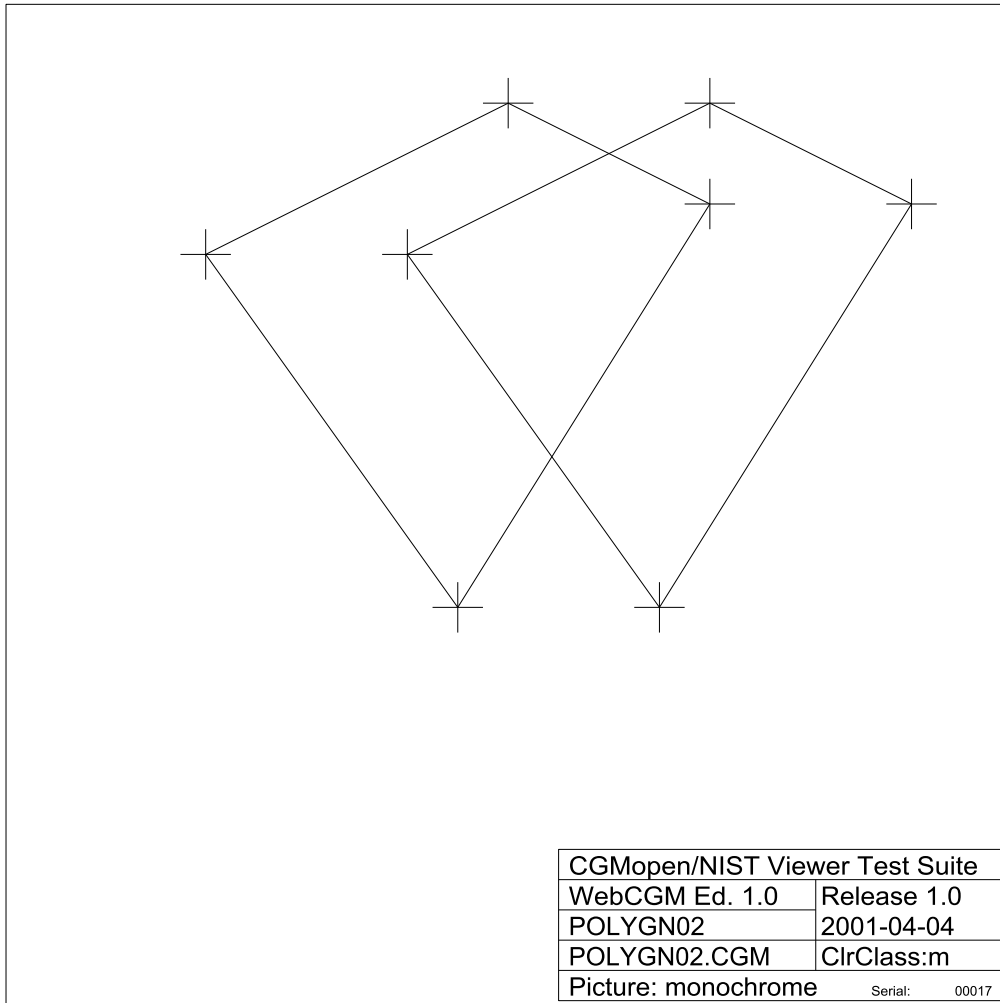
Fig 118, Sheet 1 of 2 POLYGN01



POLYGN01-PNG

*Fig 118, Sheet 2 of 2 POLYGN01*

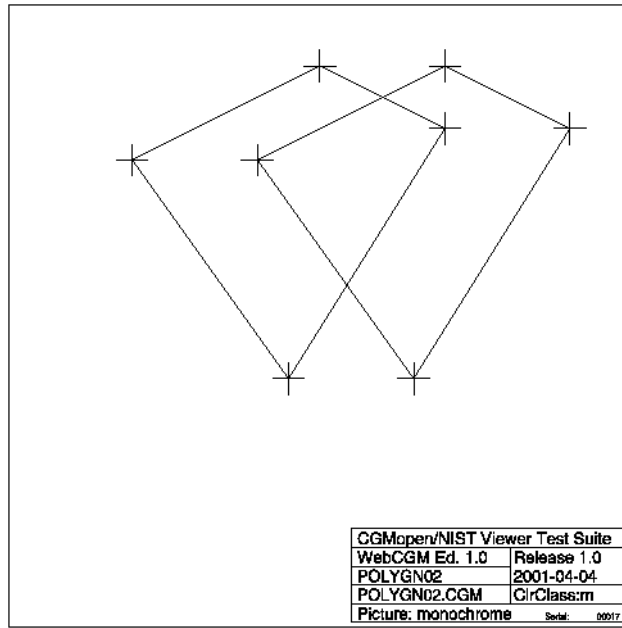
1.15.2 POLYGN02



POLYGN02-CGM

Fig 119, Sheet 1 of 2 POLYGN02

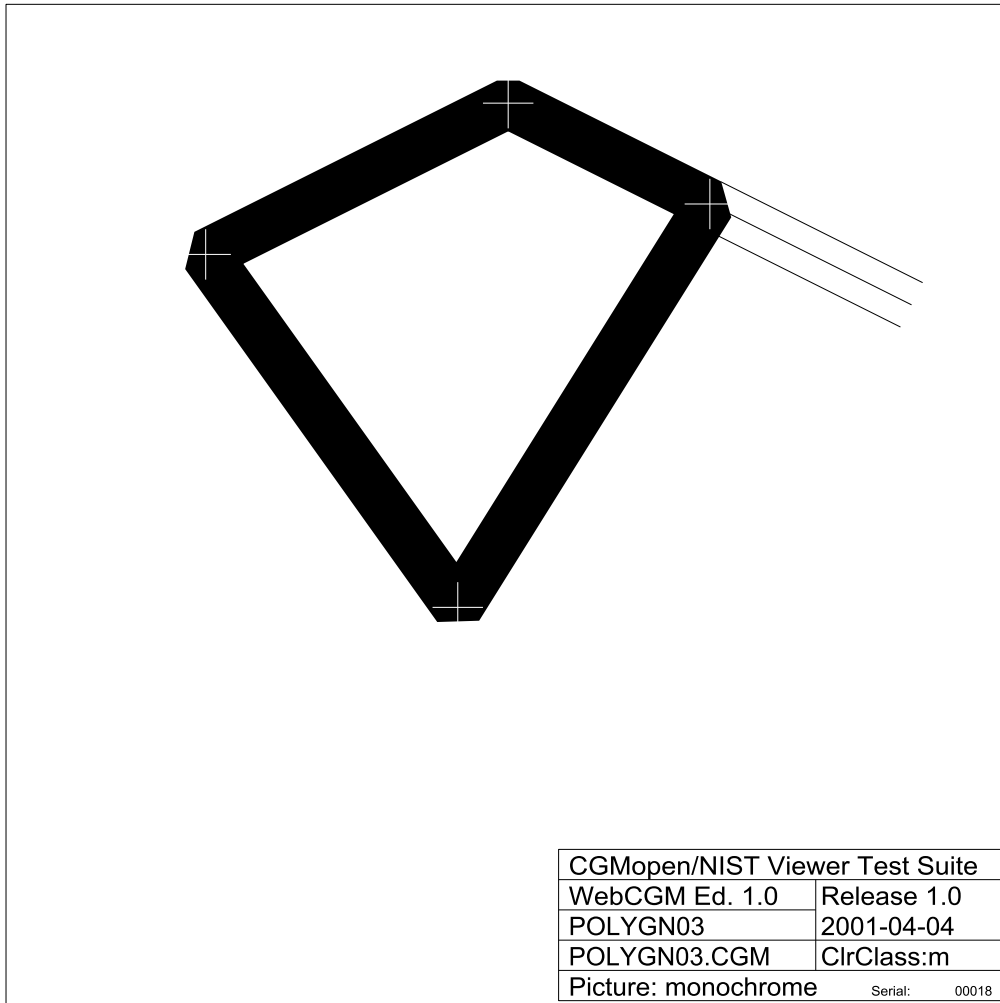




POLYGN02-PNG

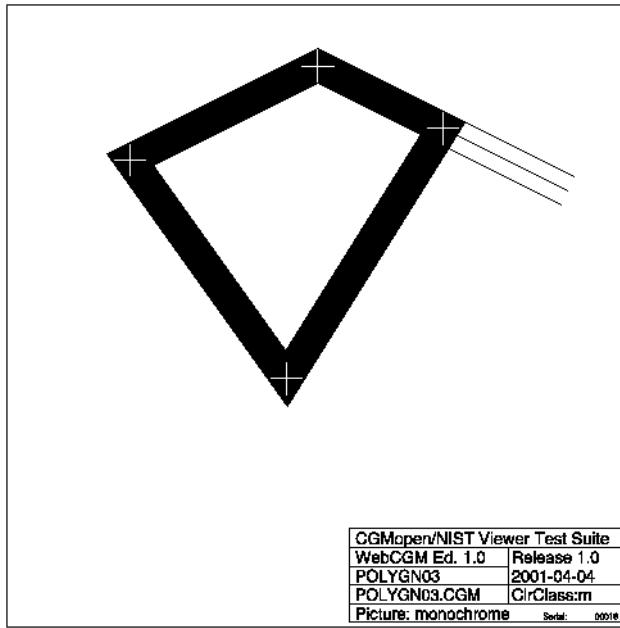
Fig 119, Sheet 2 of 2 POLYGN02

1.15.3 POLYGN03



POLYGN03-CGM

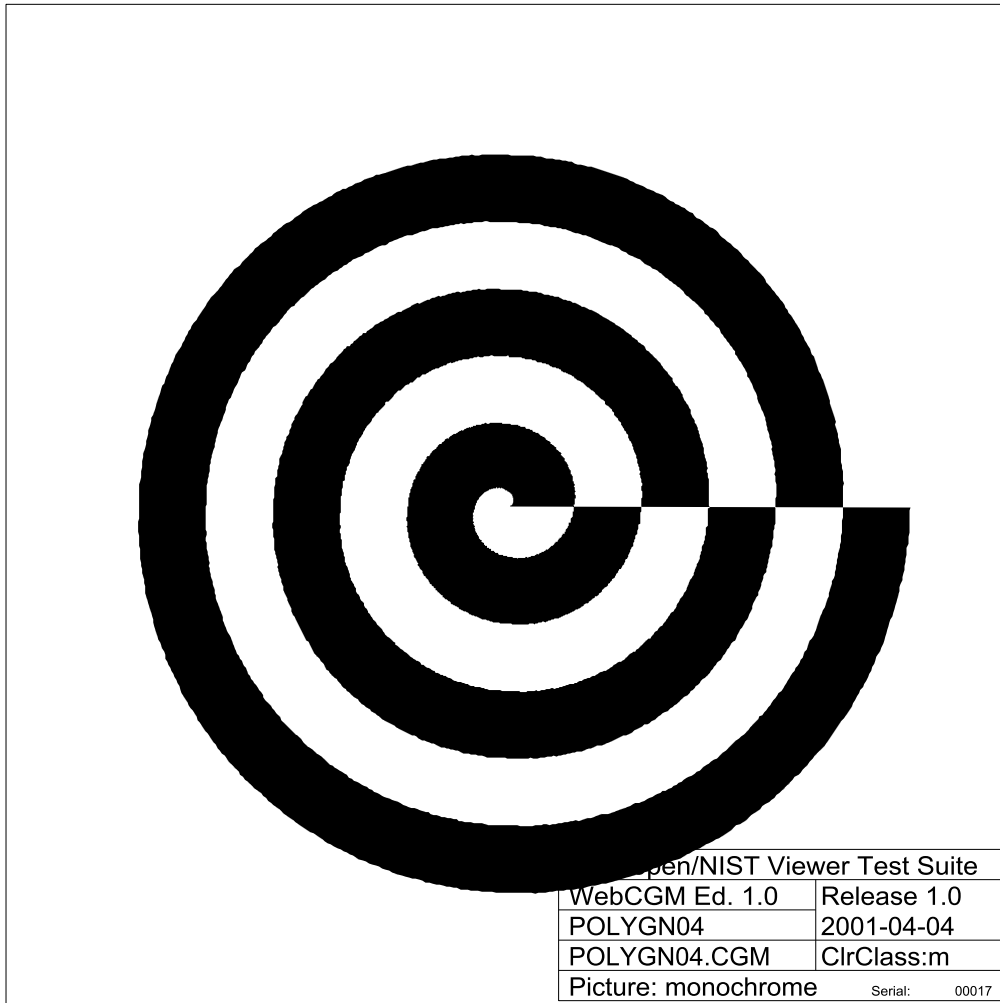
Fig 120, Sheet 1 of 2 POLYGN03



POLYGN03-PNG

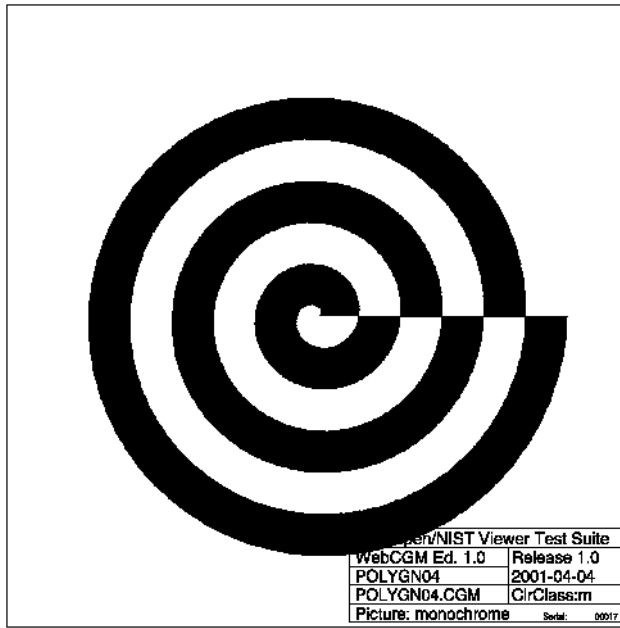
Fig 120, Sheet 2 of 2 POLYGN03

1.15.4 POLYGN04



POLYGN04-CGM

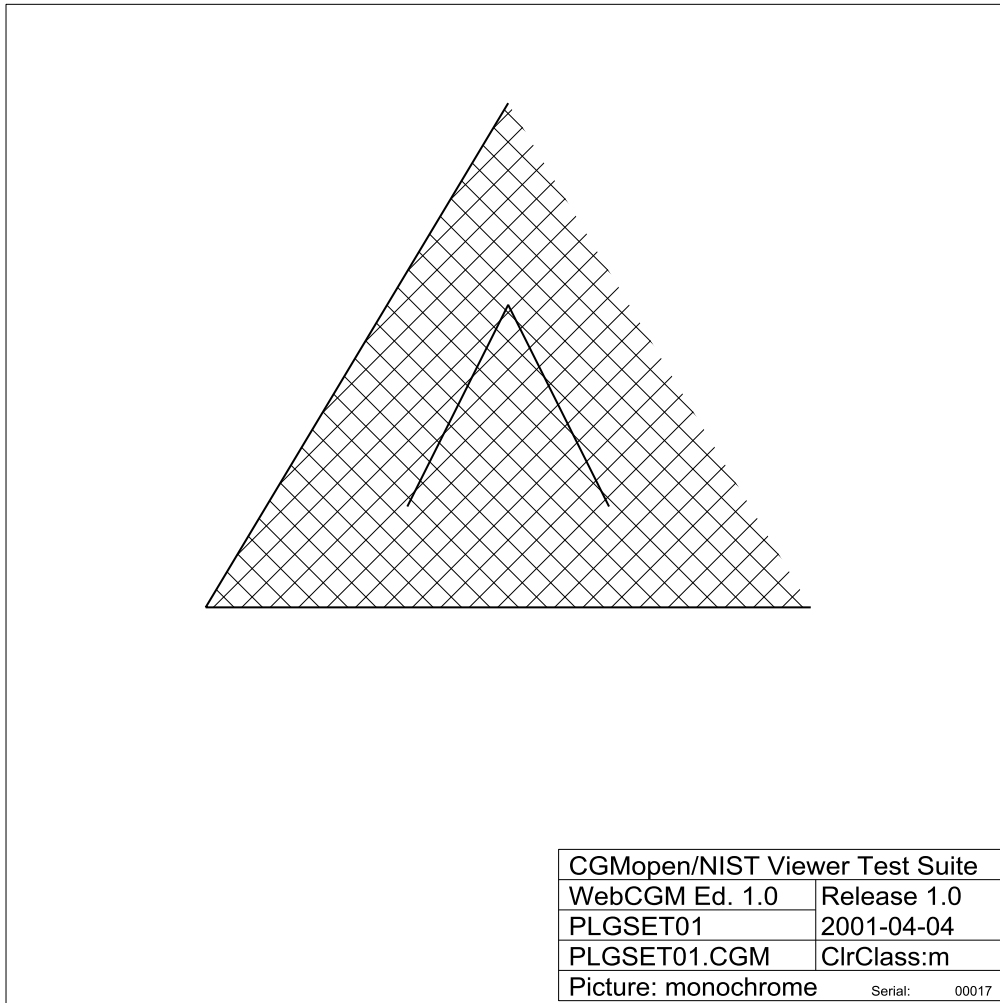
Fig 121, Sheet 1 of 2 POLYGN04



POLYGN04-PNG

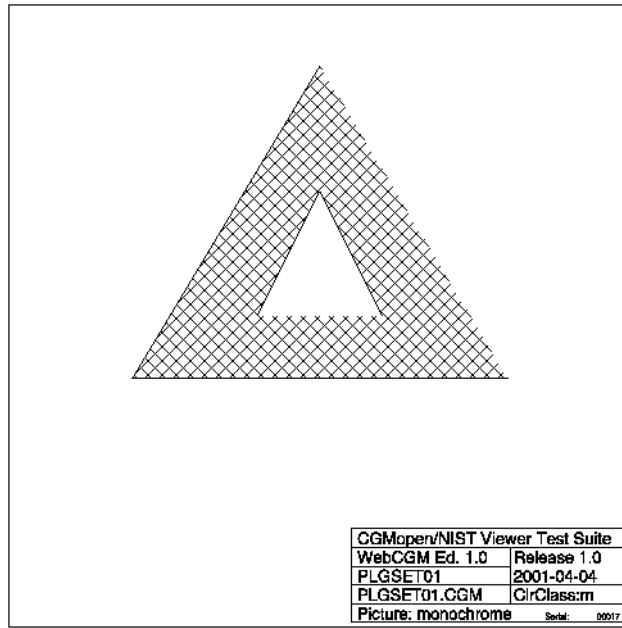
Fig 121, Sheet 2 of 2 POLYGN04

1.15.5 PLGSET01



PLGSET01-CGM

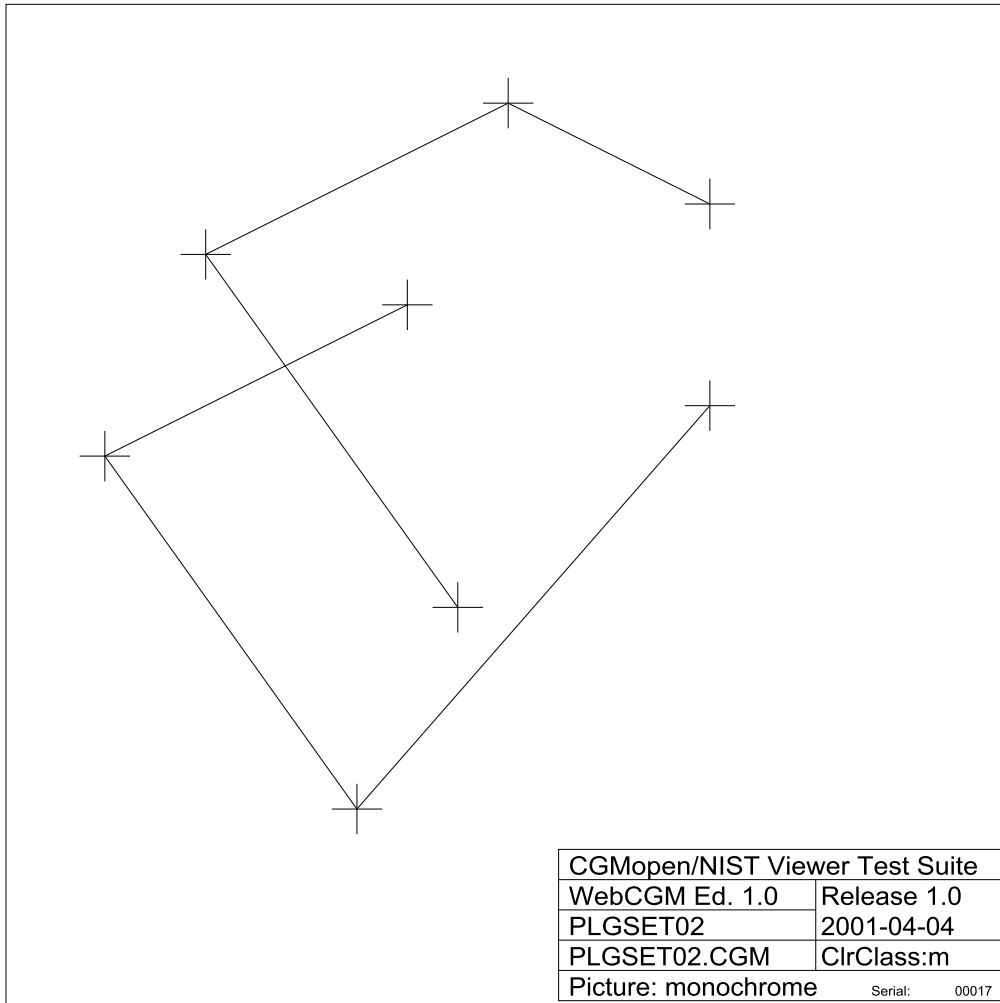
Fig 122, Sheet 1 of 2 PLGSET01



PLGSET01-PNG

Fig 122, Sheet 2 of 2 PLGSET01

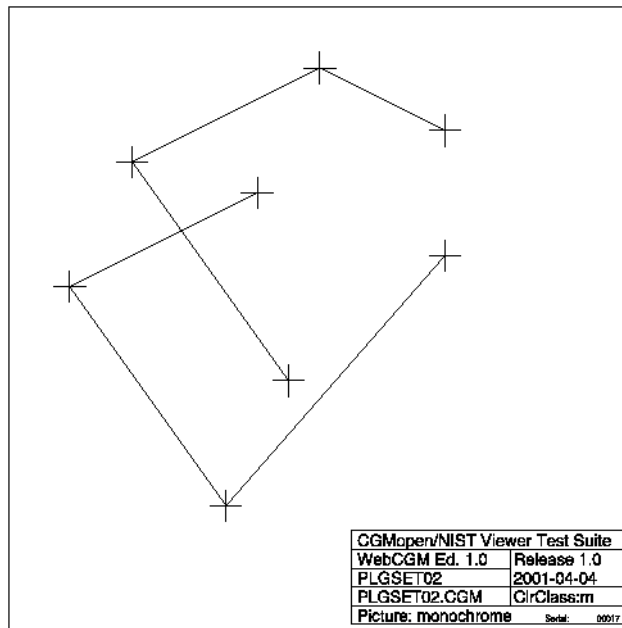
1.15.6 PLGSET02



PLGSET02-CGM

Fig 123, Sheet 1 of 2 PLGSET02

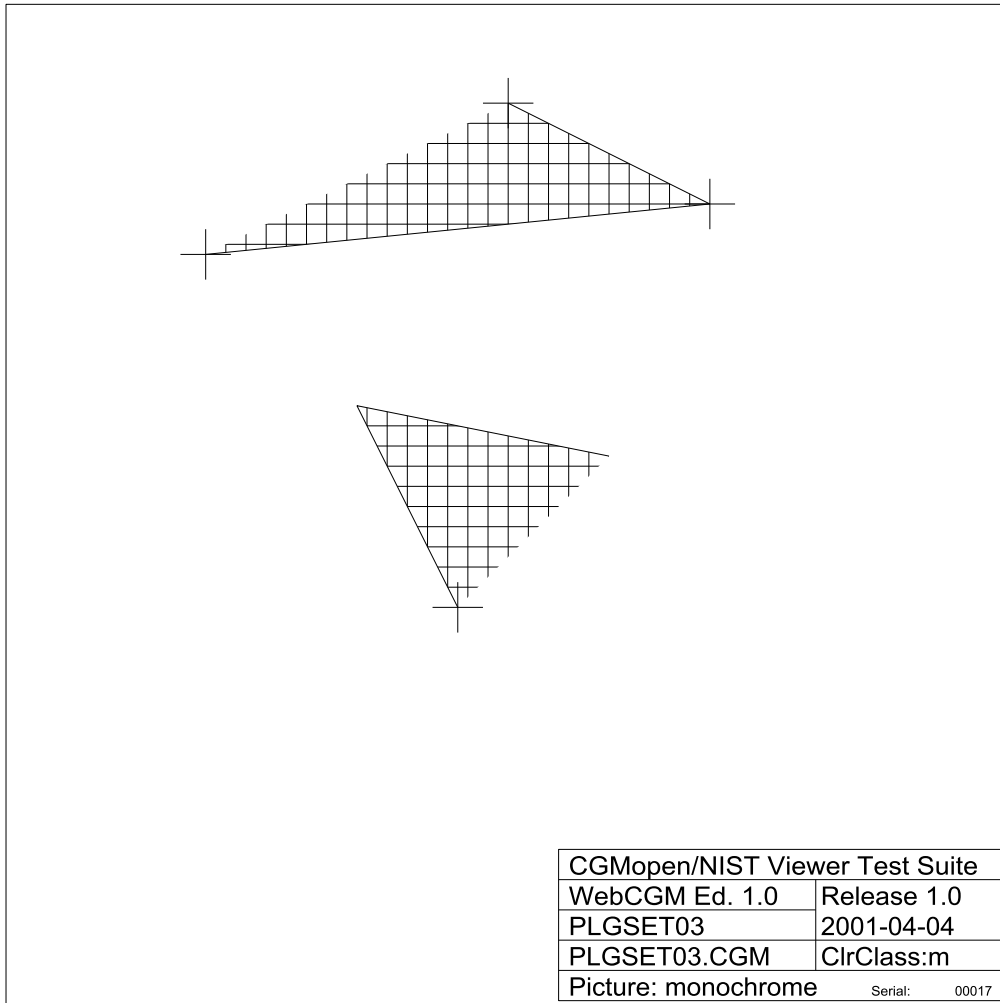




PLGSET02-PNG

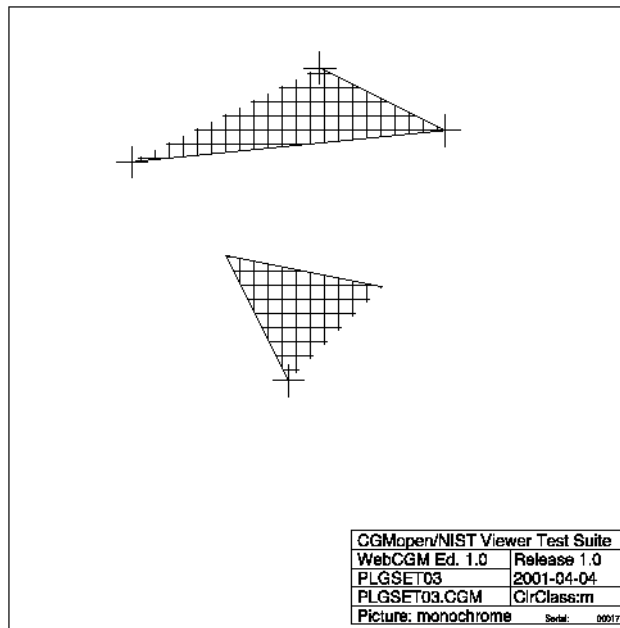
Fig 123, Sheet 2 of 2 PLGSET02

1.15.7 PLGSET03



PLGSET03-CGM

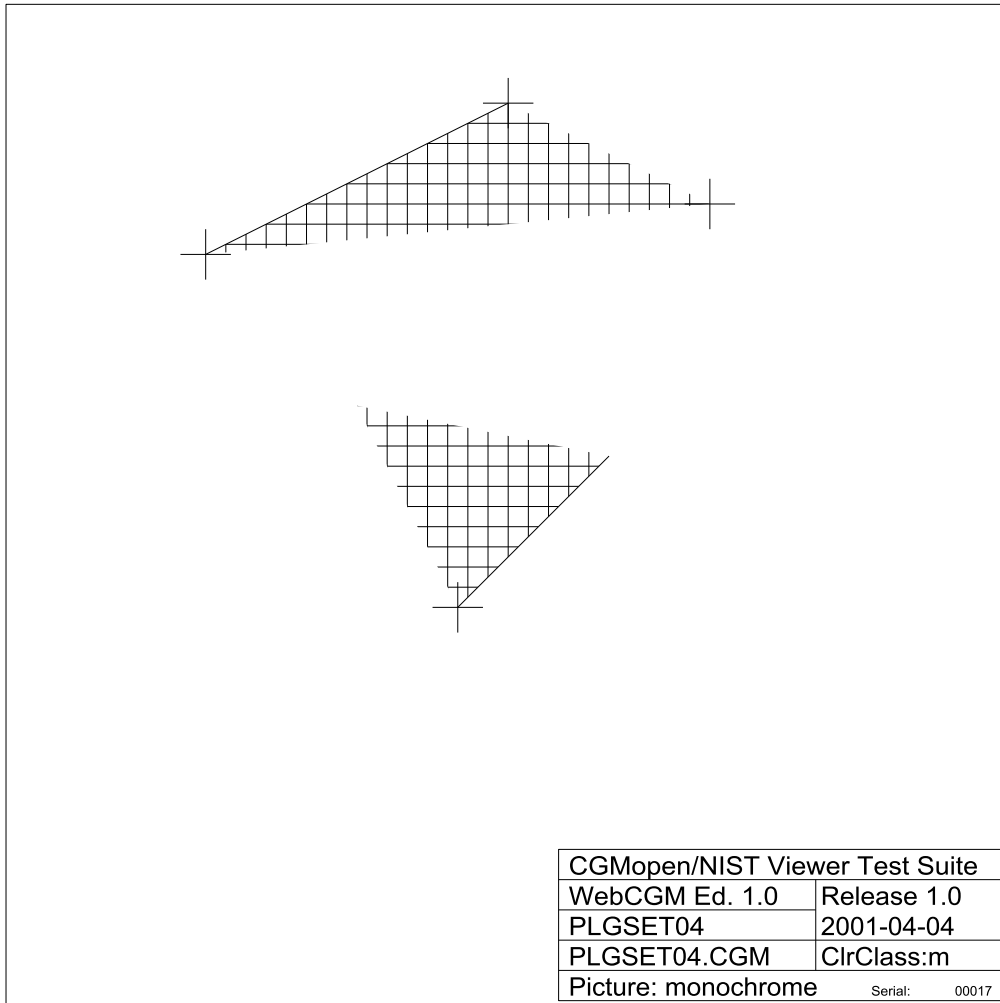
Fig 124, Sheet 1 of 2 PLGSET03



PLGSET03-PNG

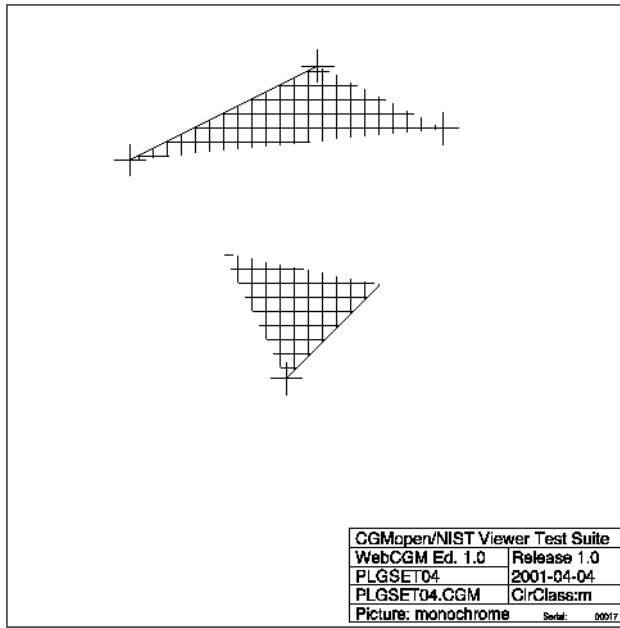
Fig 124, Sheet 2 of 2 PLGSET03

1.15.8 PLGSET04



PLGSET04-CGM

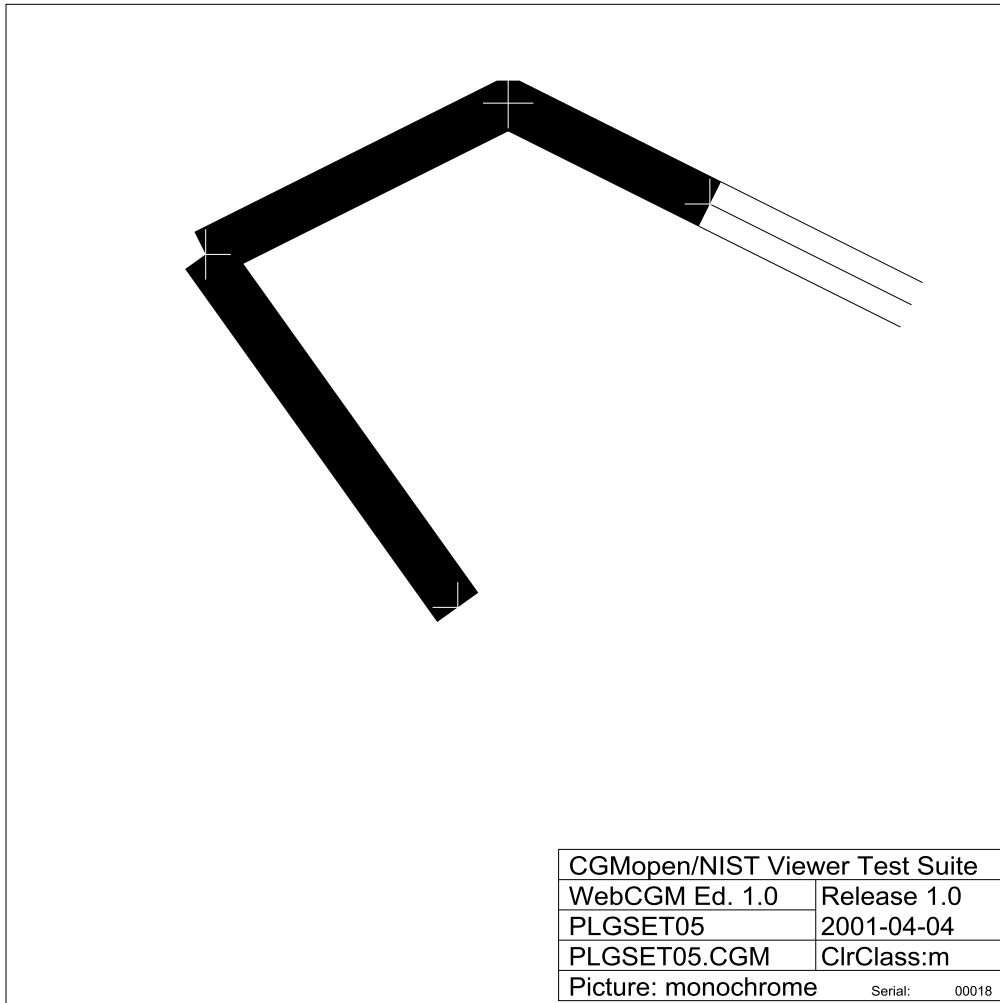
Fig 125, Sheet 1 of 2 PLGSET04



PLGSET04-PNG

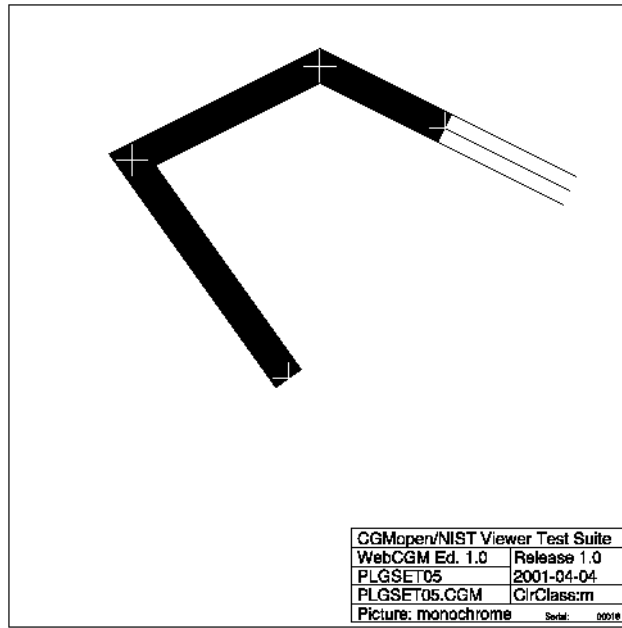
Fig 125, Sheet 2 of 2 PLGSET04

1.15.9 PLGSET05



PLGSET05-CGM

Fig 126, Sheet 1 of 2 PLGSET05



PLGSET05-PNG

Fig 126, Sheet 2 of 2 PLGSET05

1.15.10 PLGSET06

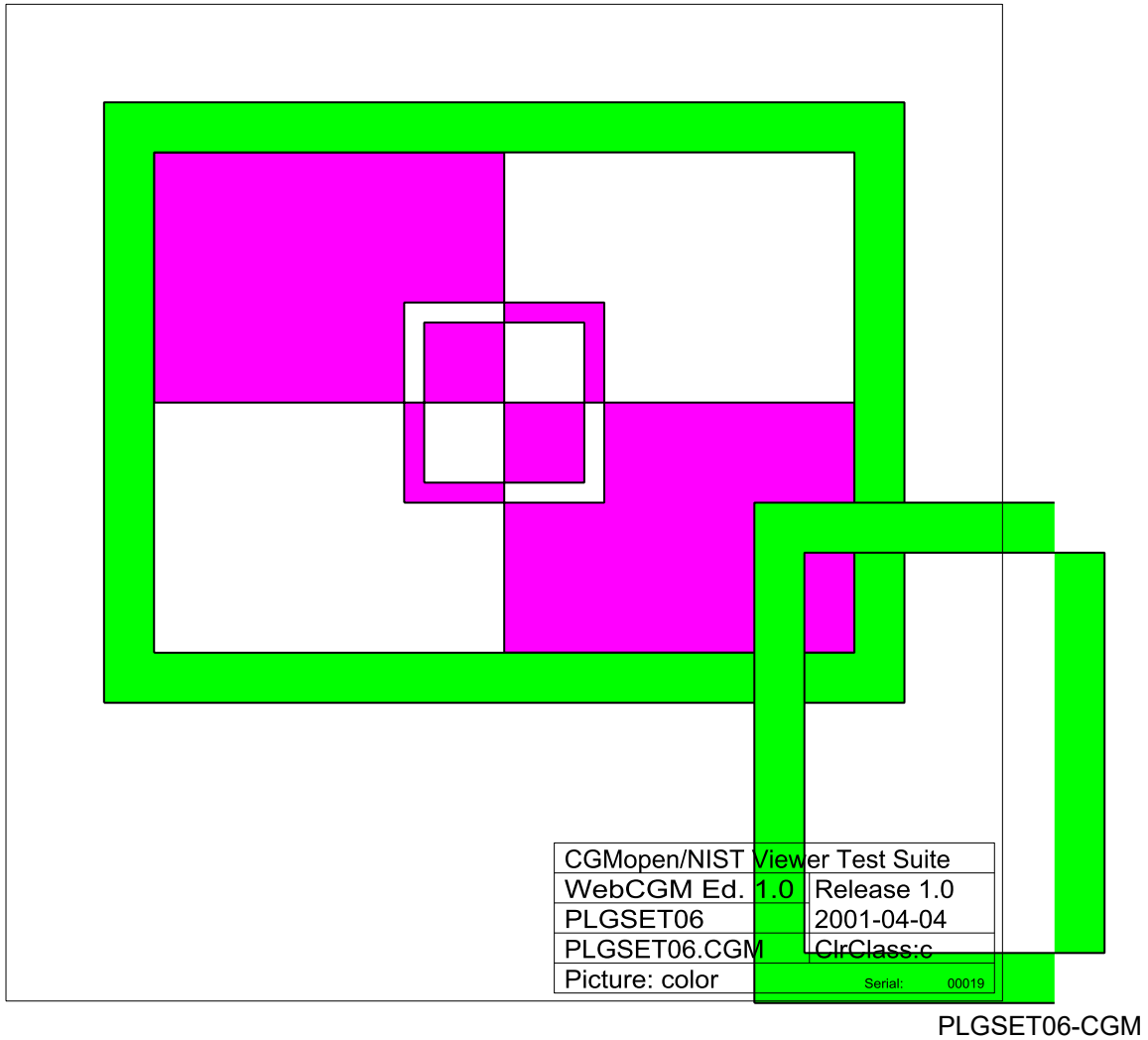
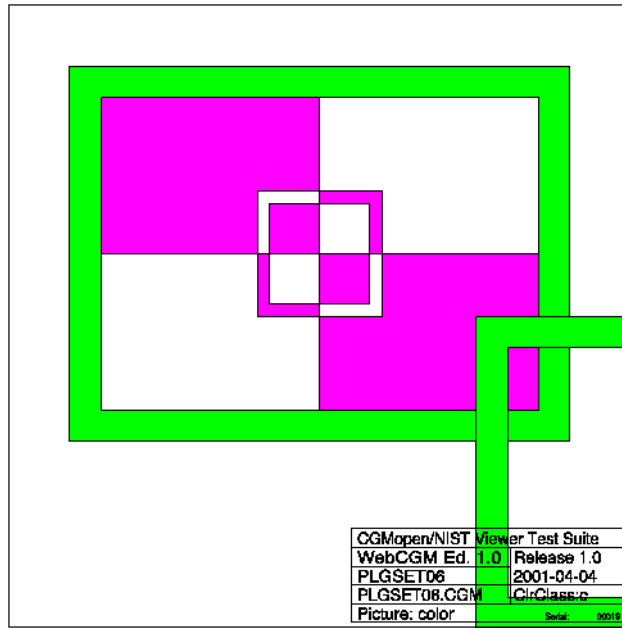


Fig 127, Sheet 1 of 2 PLGSET06

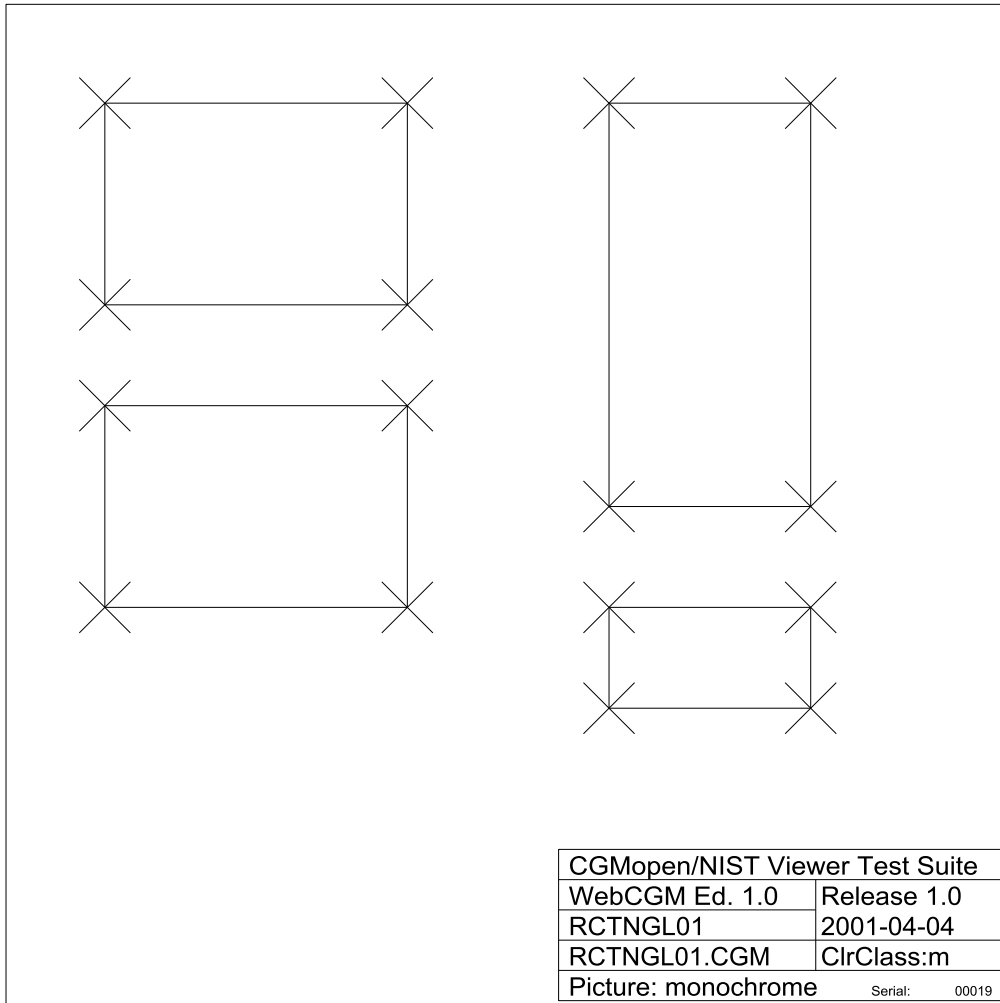




PLGSET06-PNG

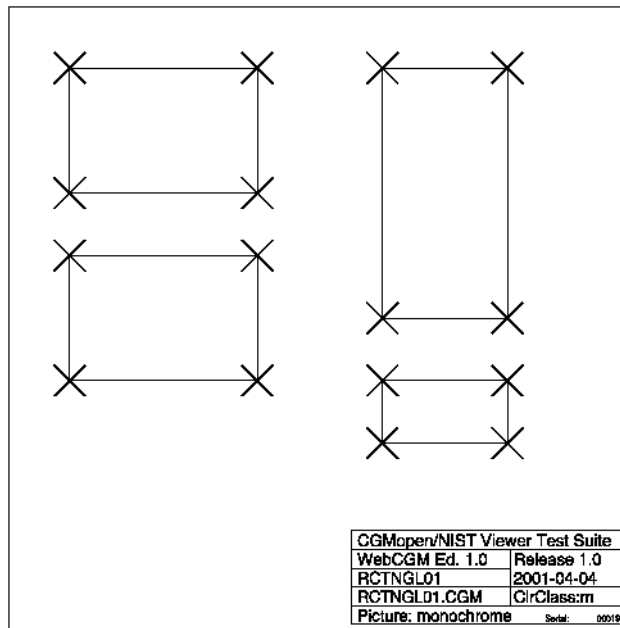
Fig 127, Sheet 2 of 2 PLGSET06

1.15.11 RCTNGL01



RCTNGL01-CGM

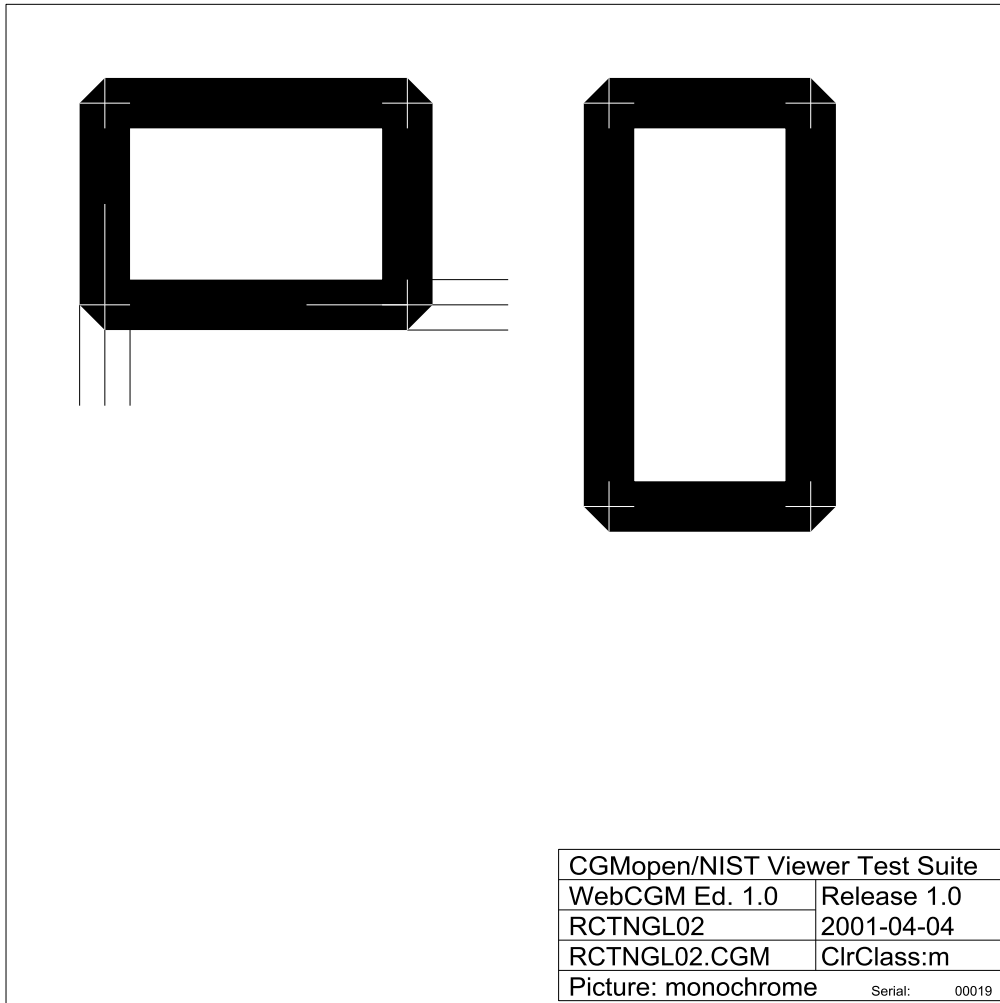
Fig 128, Sheet 1 of 2 RCTNGL01



RCTNGL01-PNG

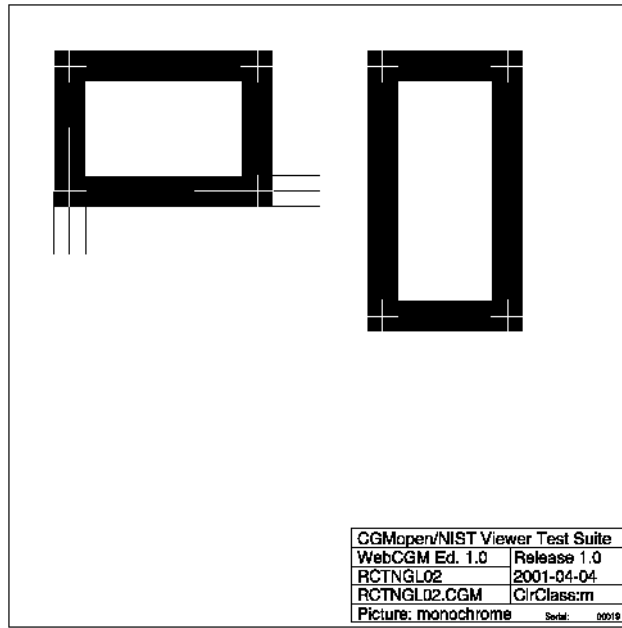
Fig 128, Sheet 2 of 2 RCTNGL01

1.15.12 RCTNGL02



RCTNGL02-CGM

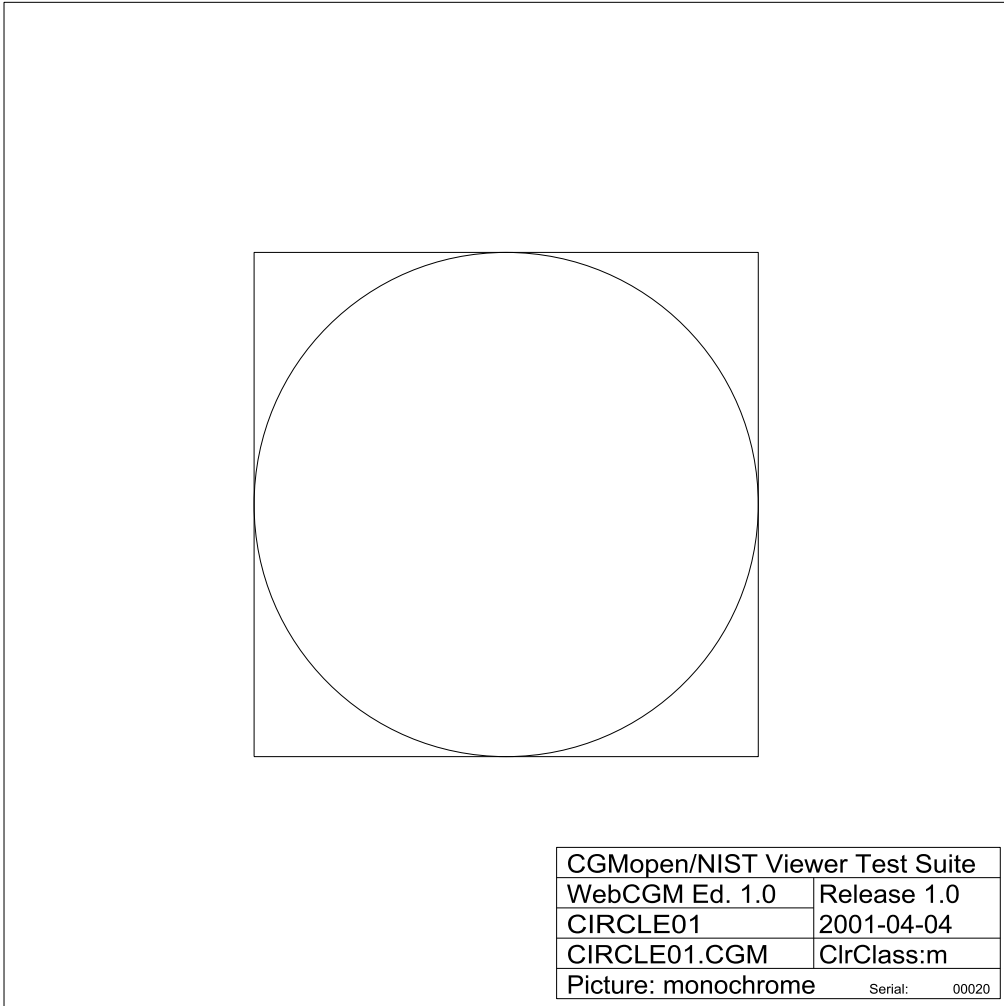
Fig 129, Sheet 1 of 2 RCTNGL02



RCTNGL02-PNG

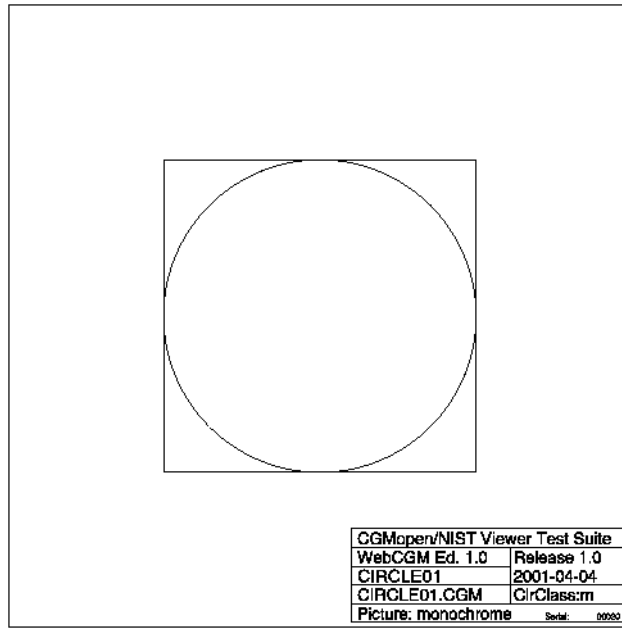
Fig 129, Sheet 2 of 2 RCTNGL02

1.15.13 CIRCLE01



CIRCLE01-CGM

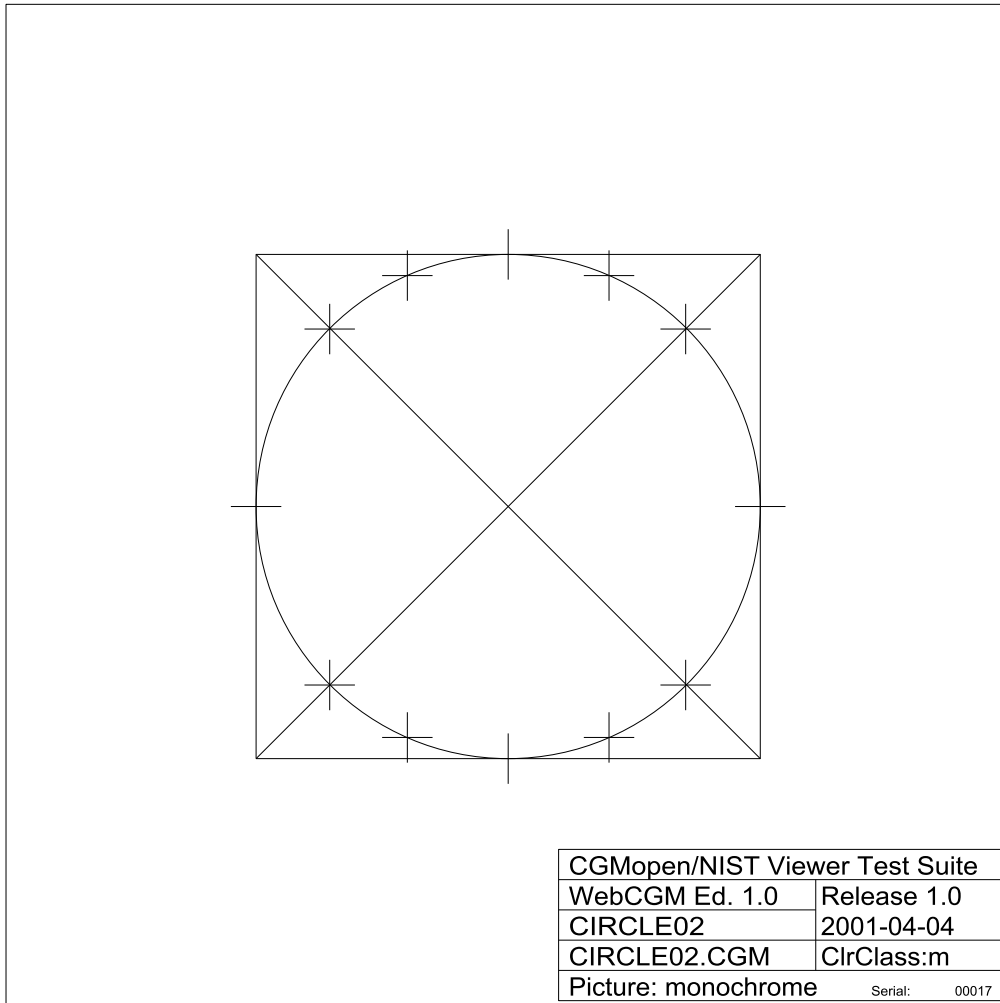
Fig 130, Sheet 1 of 2 CIRCLE01



CIRCLE01-PNG

Fig 130, Sheet 2 of 2 CIRCLE01

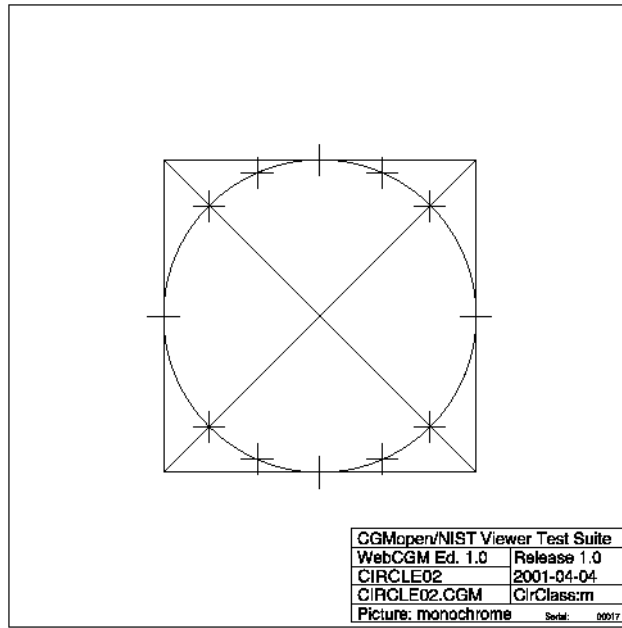
1.15.14 CIRCLE02



CIRCLE02-CGM

Fig 131, Sheet 1 of 2 CIRCLE02

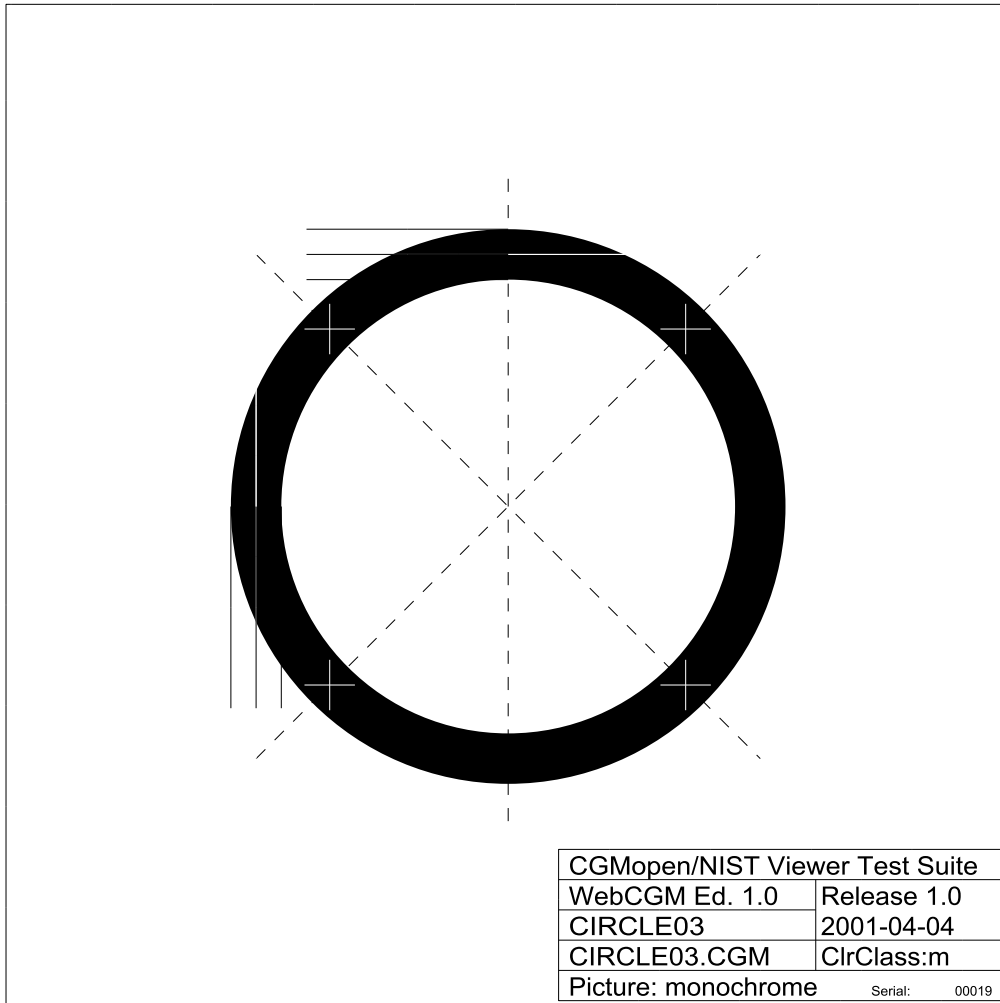




CIRCLE02-PNG

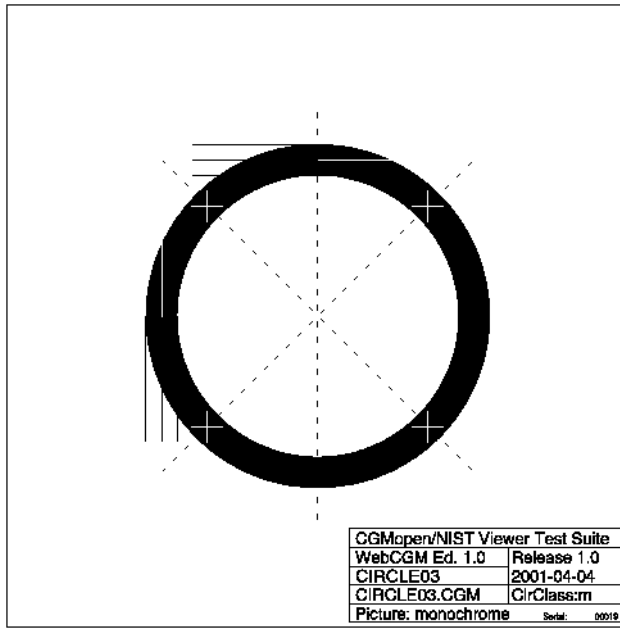
Fig 131, Sheet 2 of 2 CIRCLE02

1.15.15 CIRCLE03



CIRCLE03-CGM

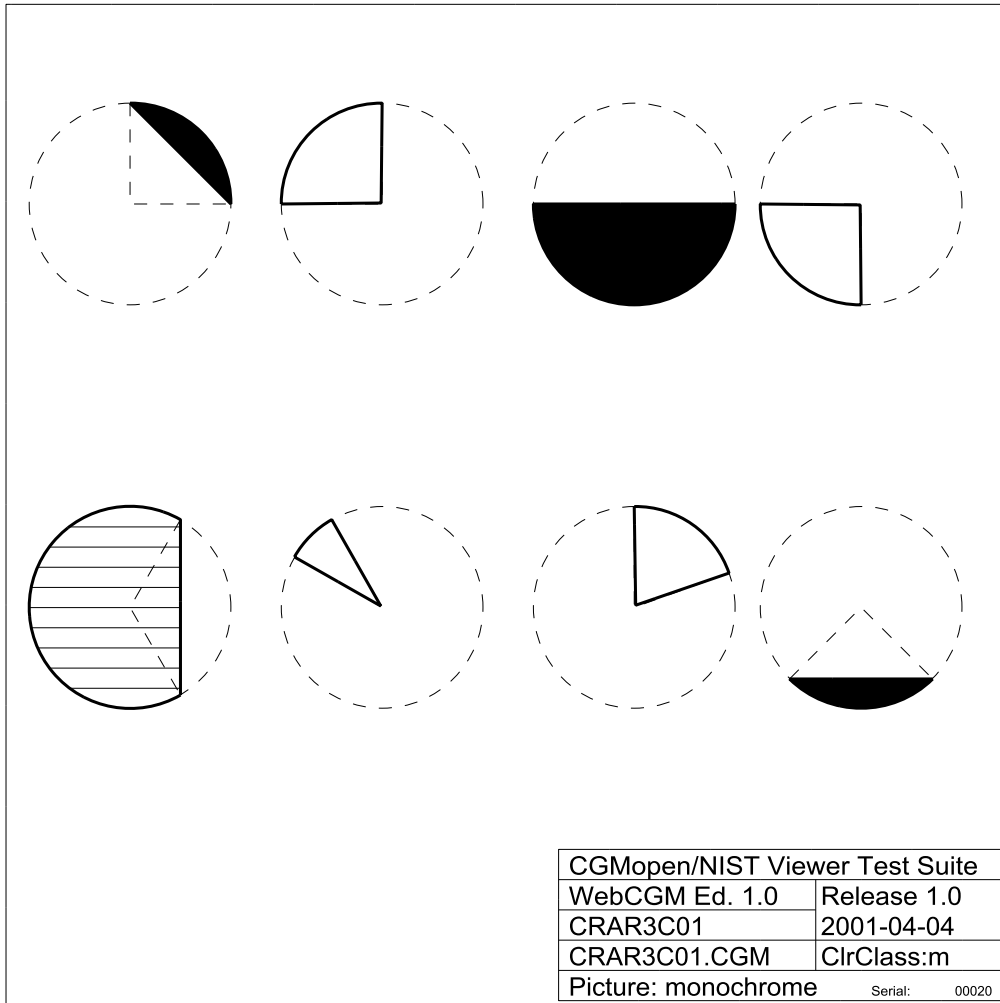
Fig 132, Sheet 1 of 2 CIRCLE03



CIRCLE03-PNG

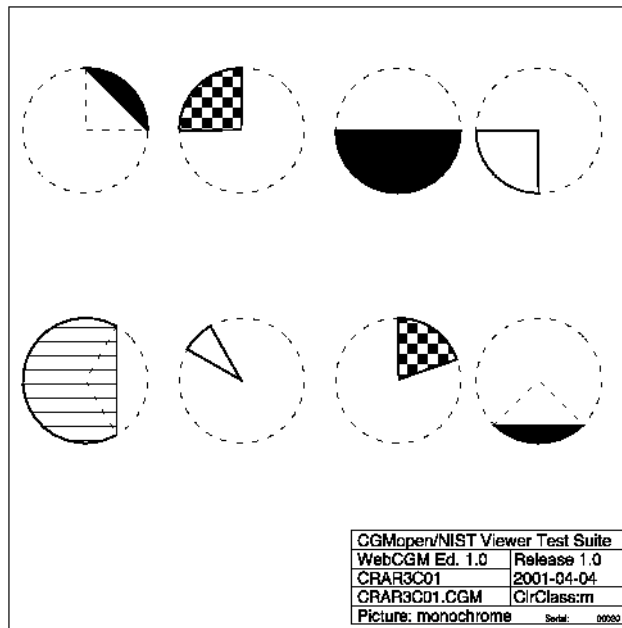
Fig 132, Sheet 2 of 2 CIRCLE03

1.15.16 CRAR3C01



CRAR3C01-CGM

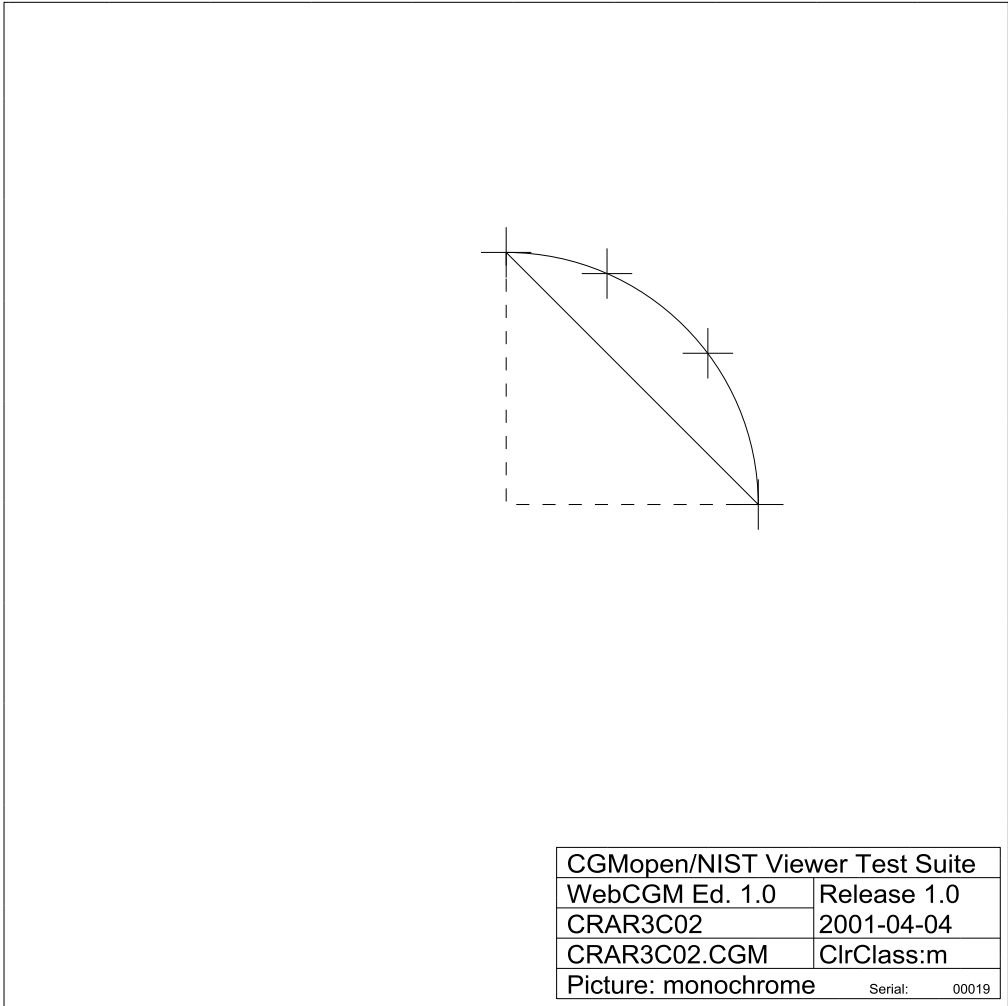
Fig 133, Sheet 1 of 2 CRAR3C01



CRAR3C01-PNG

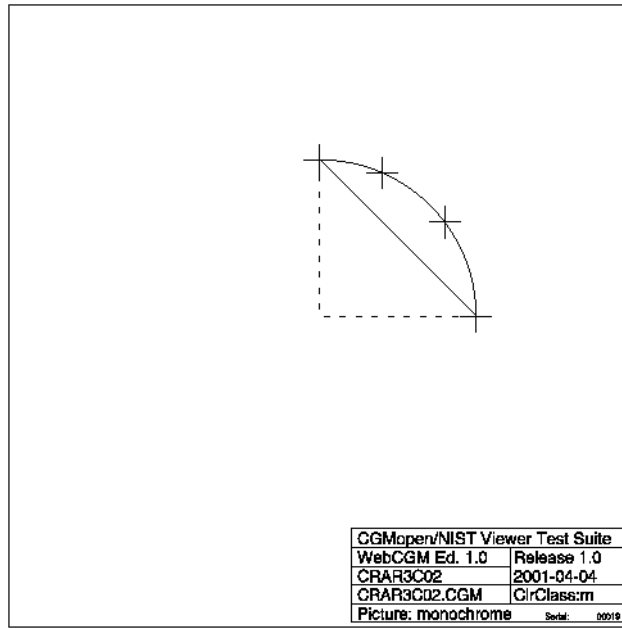
Fig 133, Sheet 2 of 2 CRAR3C01

1.15.17 CRAR3C02



CRAR3C02-CGM

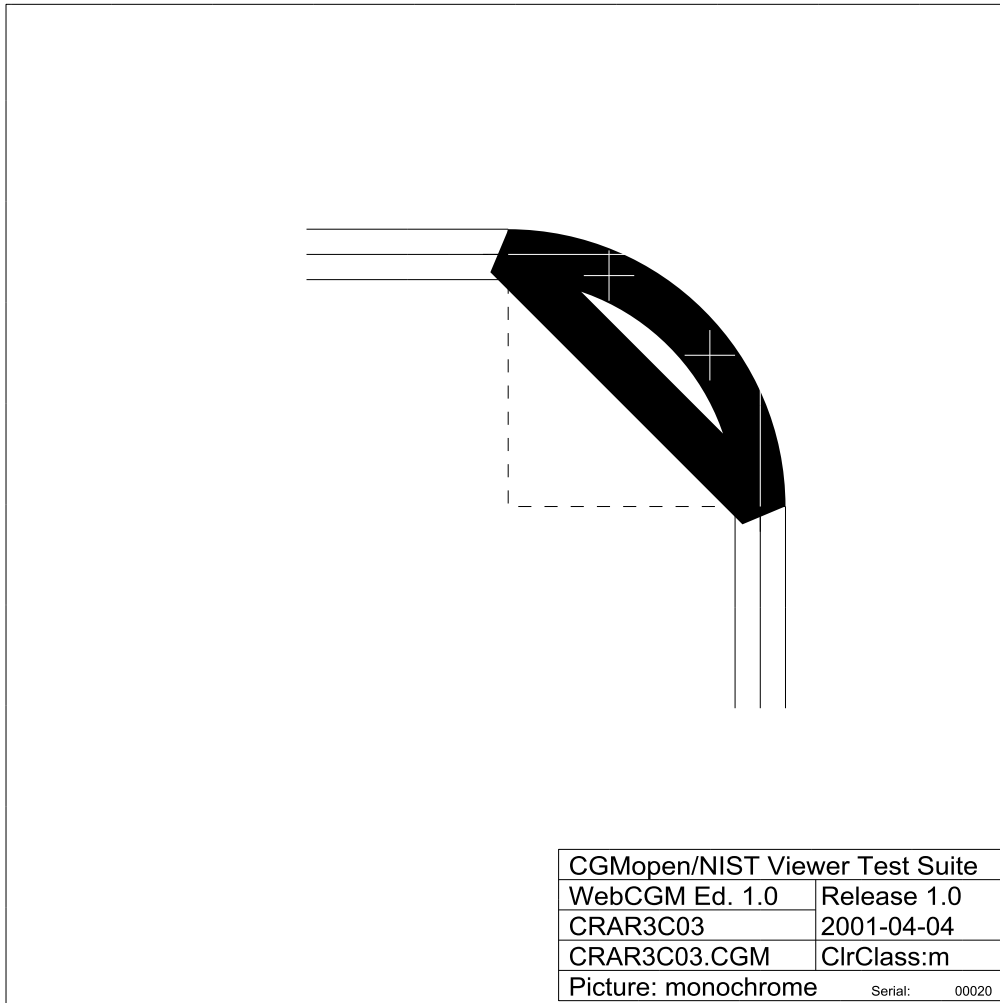
Fig 134, Sheet 1 of 2 CRAR3C02



CRAR3C02-PNG

Fig 134, Sheet 2 of 2 CRAR3C02

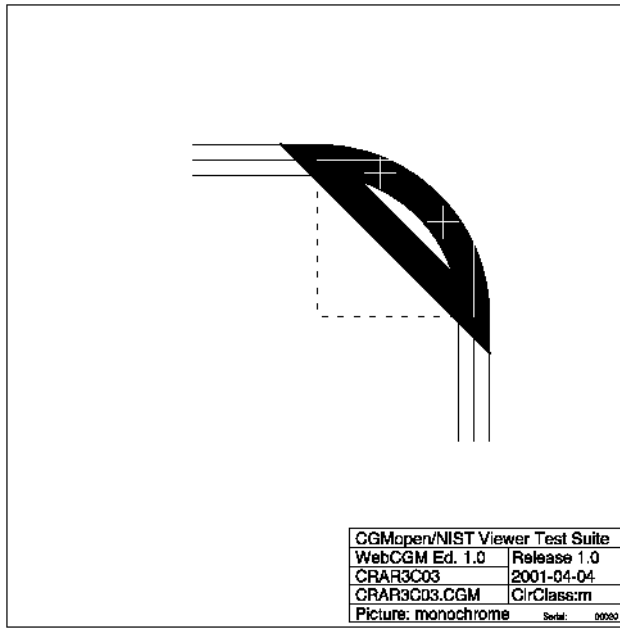
1.15.18 CRAR3C03



CRAR3C03-CGM

Fig 135, Sheet 1 of 2 CRAR3C03

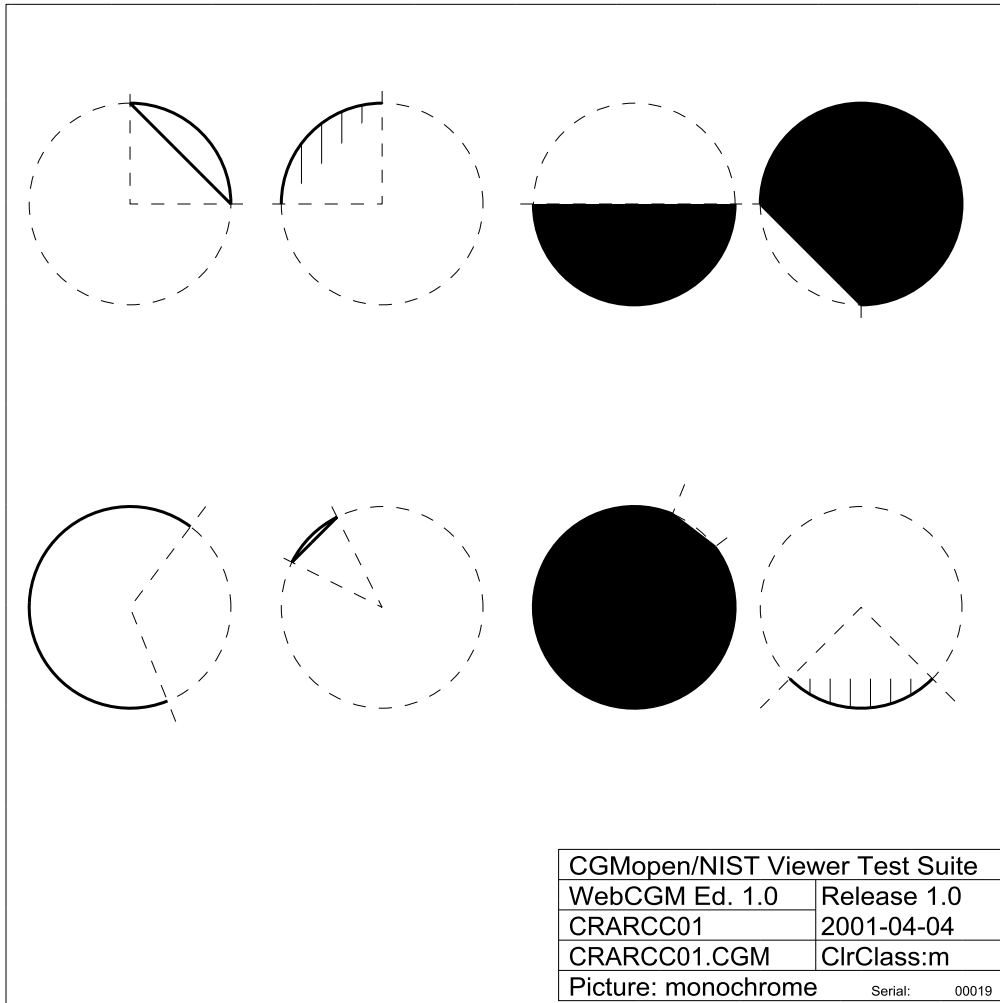




CRAR3C03-PNG

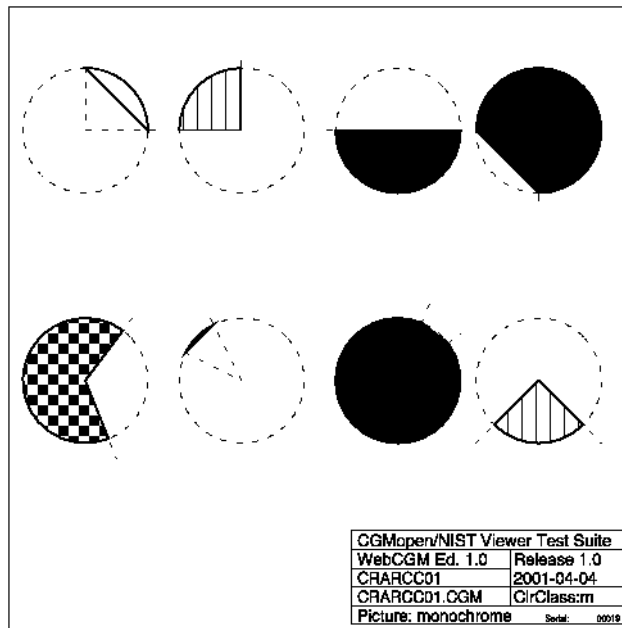
Fig 135, Sheet 2 of 2 CRAR3C03

1.15.19 CRARCC01



CRARCC01-CGM

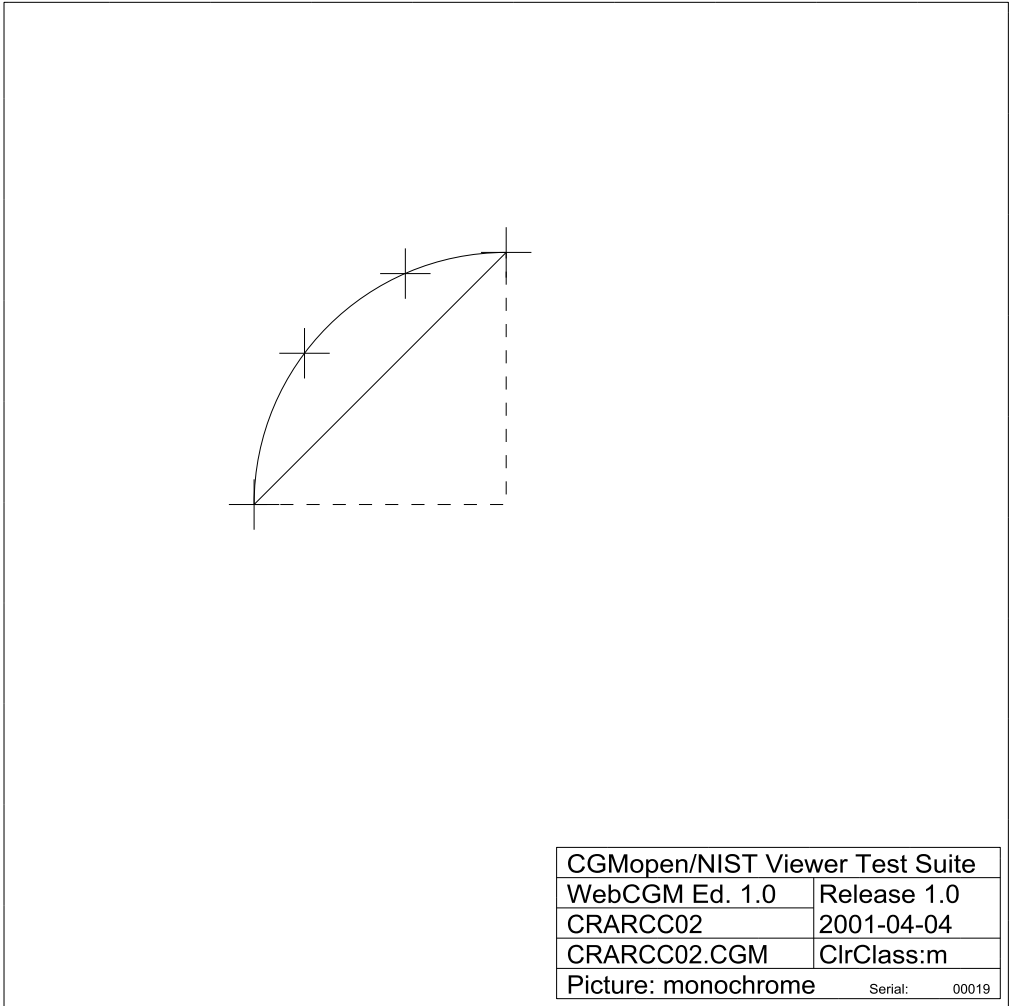
Fig 136, Sheet 1 of 2 CRARCC01



CRARCC01-PNG

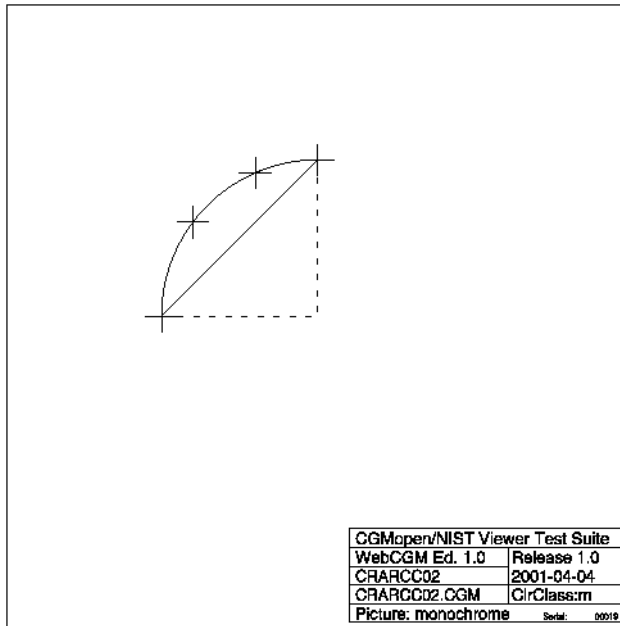
Fig 136, Sheet 2 of 2 CRARCC01

1.15.20 CRARCC02



CRARCC02-CGM

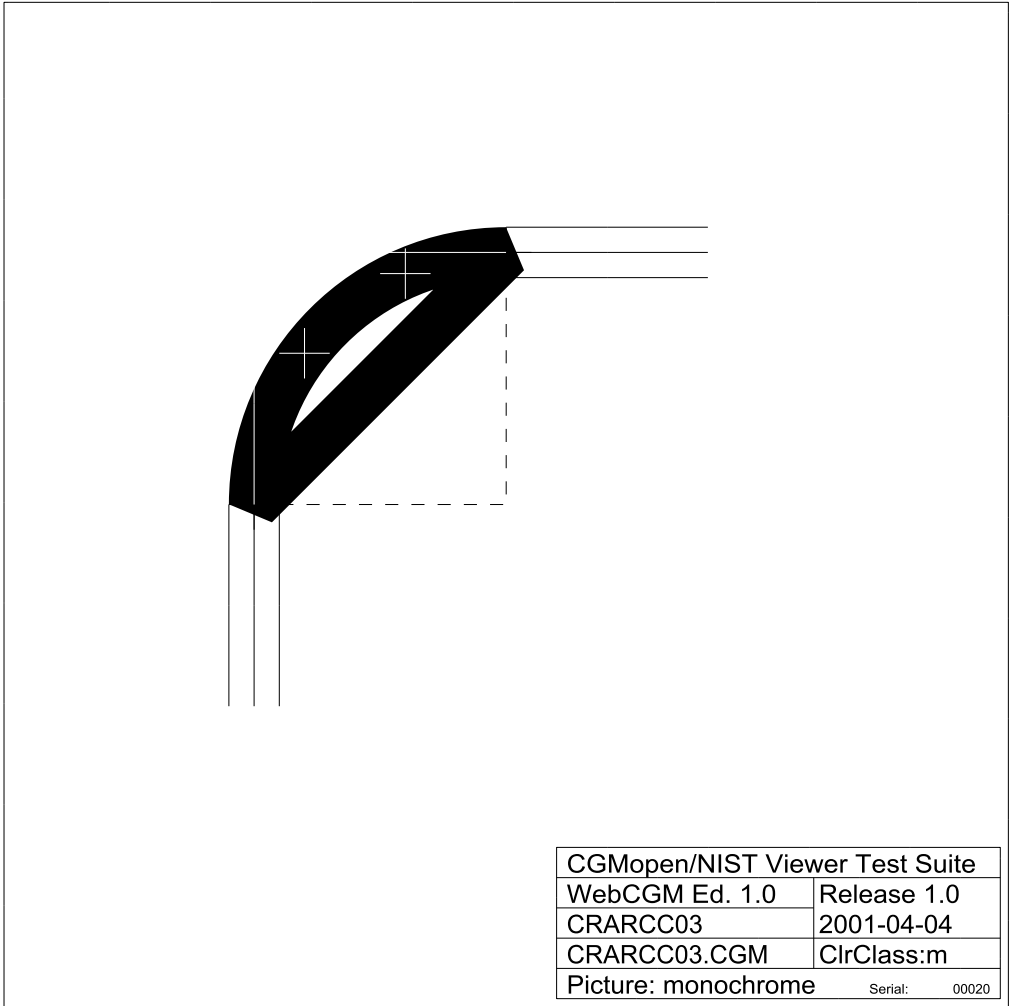
Fig 137, Sheet 1 of 2 CRARCC02



CRARCC02-PNG

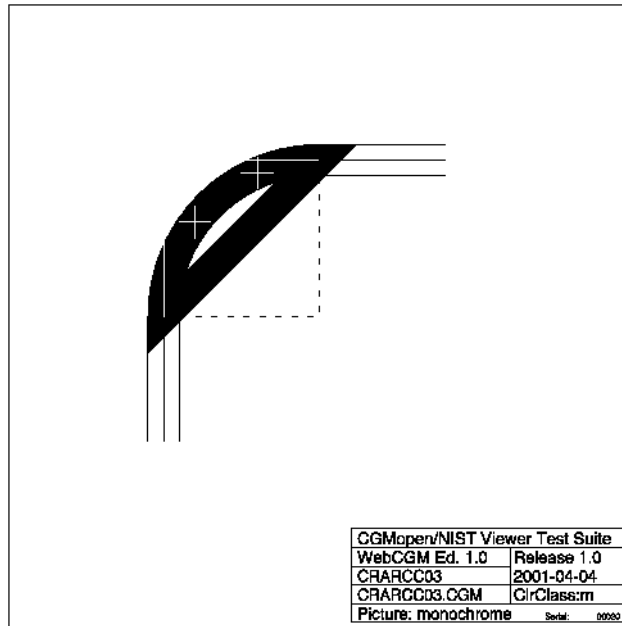
Fig 137, Sheet 2 of 2 CRARCC02

1.15.21 CRARCC03



CRARCC03-CGM

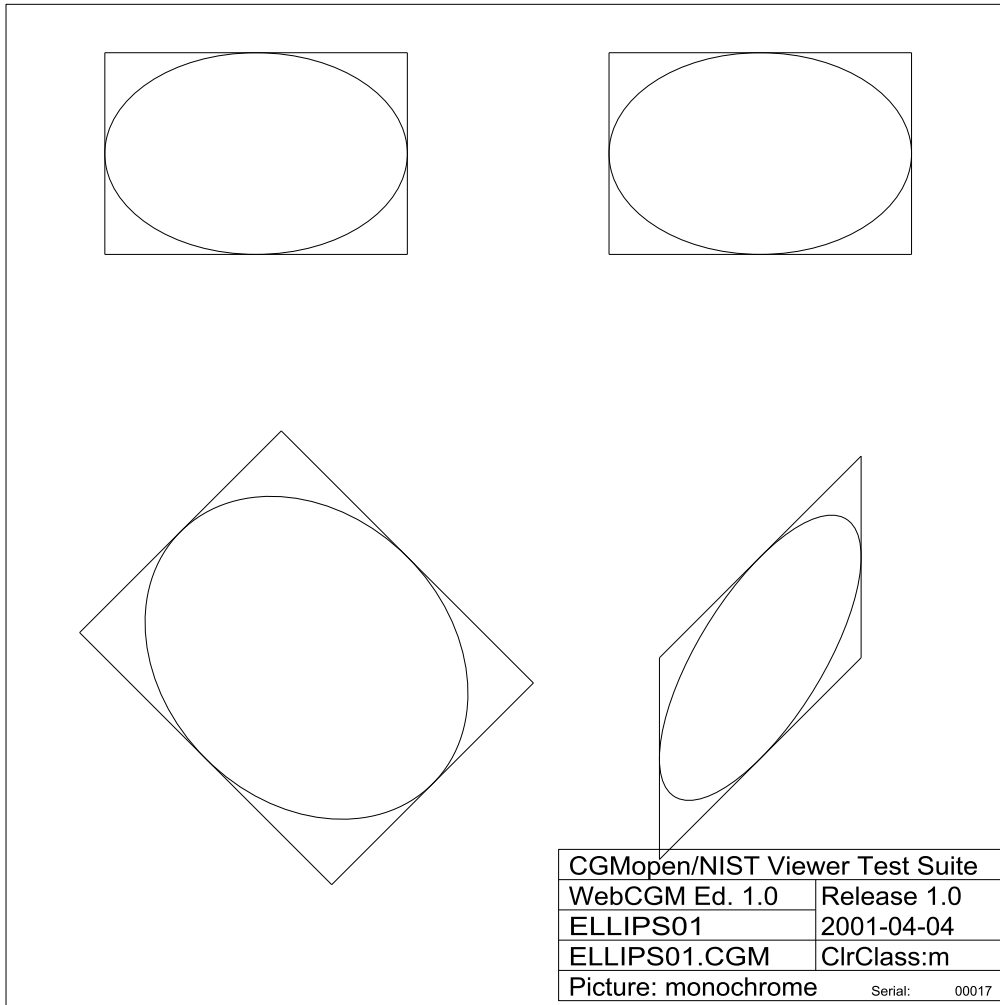
Fig 138, Sheet 1 of 2 CRARCC03



CRARCC03-PNG

Fig 138, Sheet 2 of 2 CRARCC03

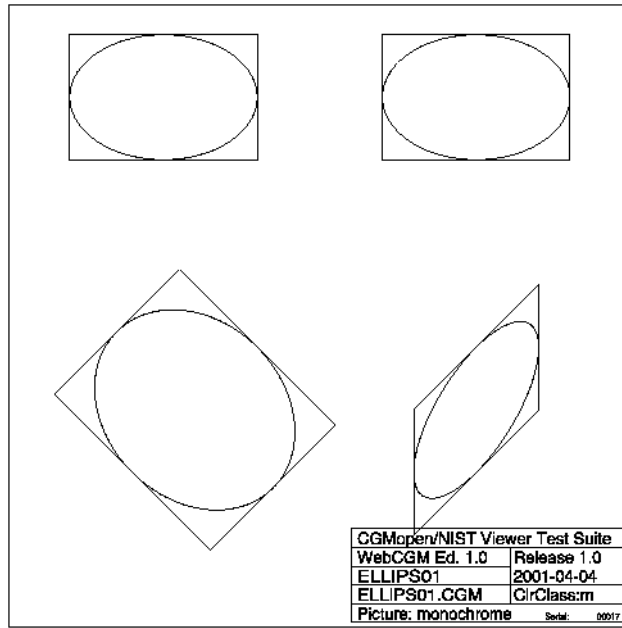
1.15.22 ELLIPS01



ELLIPS01-CGM

Fig 139, Sheet 1 of 2 ELLIPS01

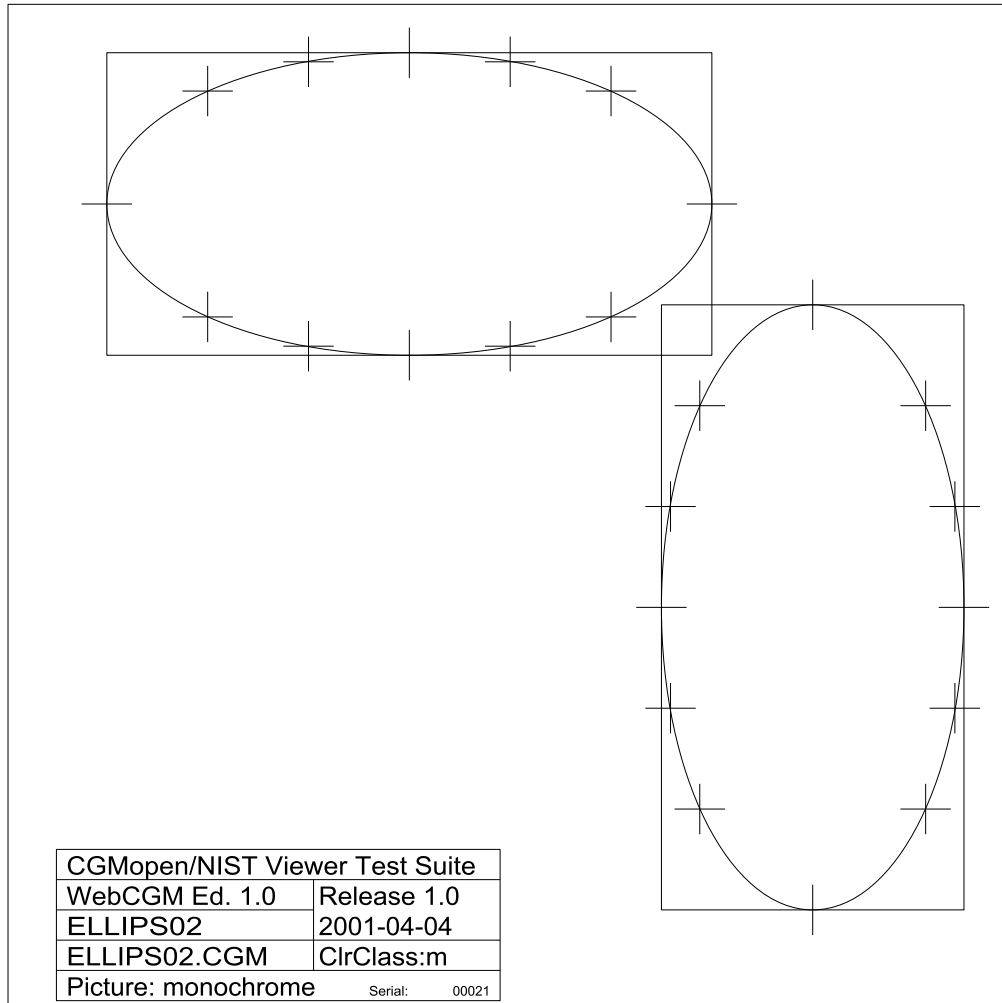




ELLIPS01-PNG

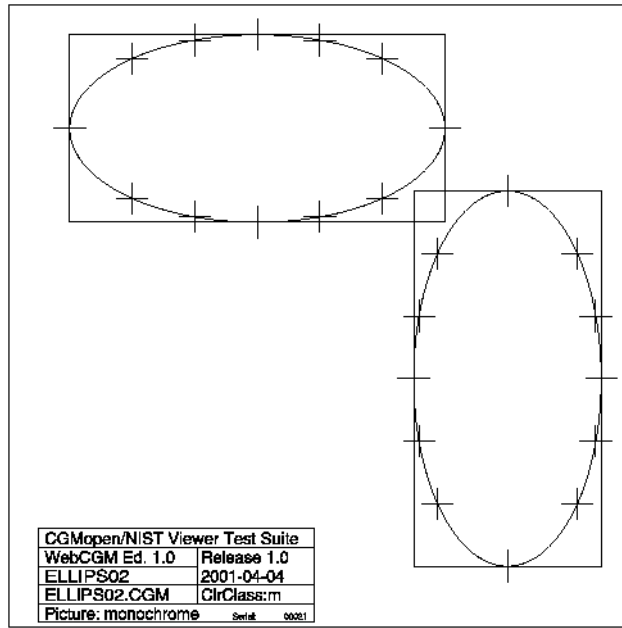
Fig 139, Sheet 2 of 2 ELLIPS01

1.15.23 ELLIPS02



ELLIPS02-CGM

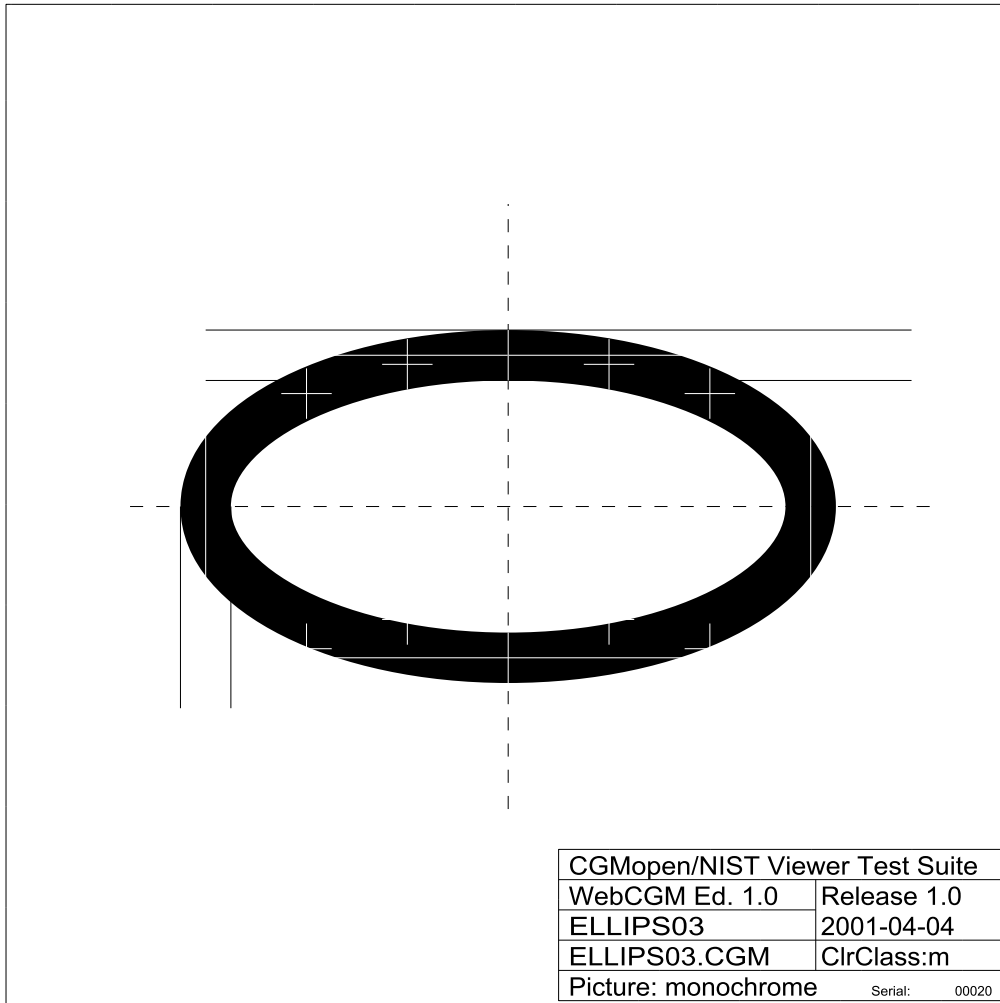
Fig 140, Sheet 1 of 2 ELLIPS02



ELLIPS02-PNG

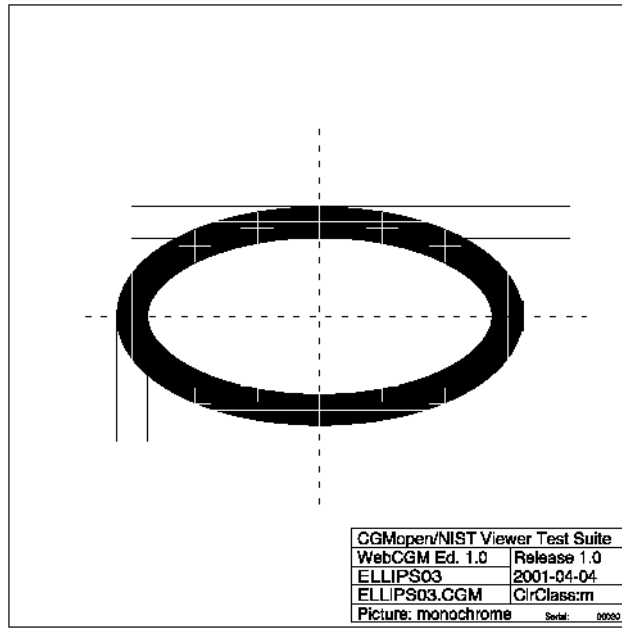
Fig 140, Sheet 2 of 2 ELLIPS02

1.15.24 ELLIPS03



ELLIPS03-CGM

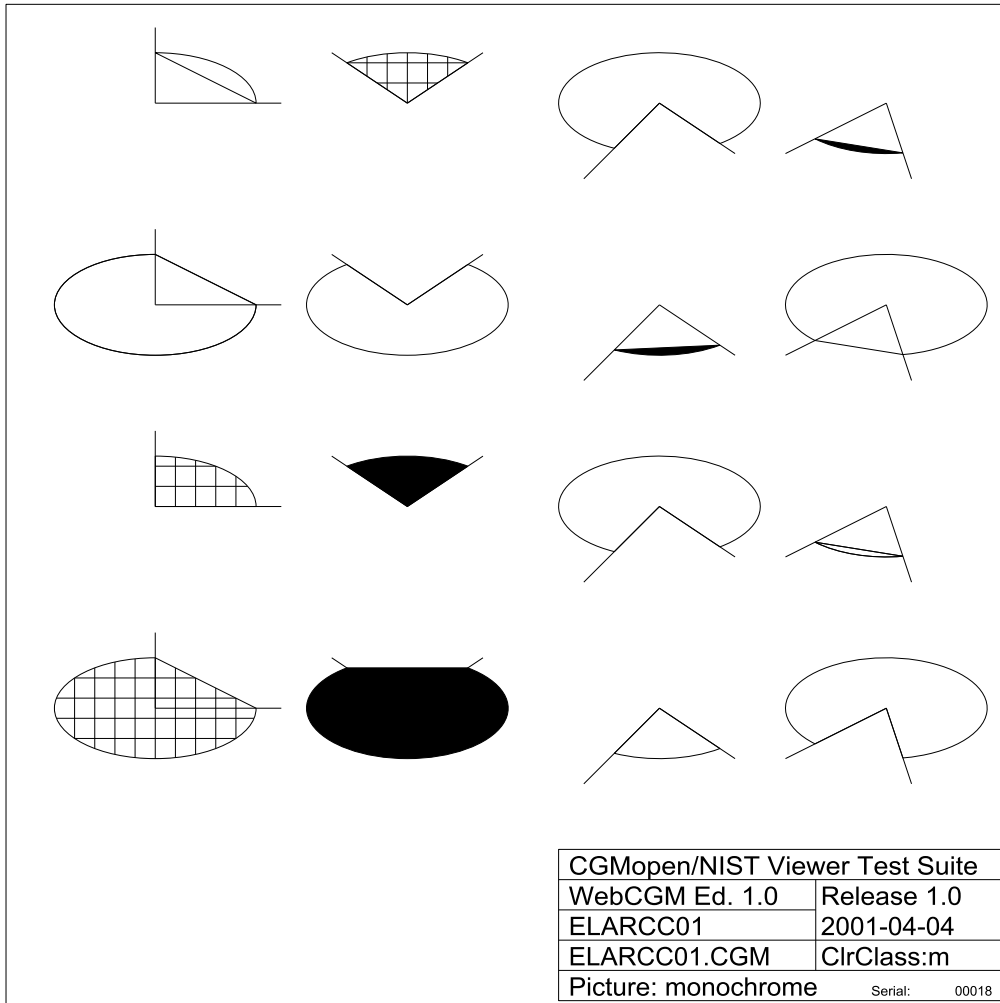
Fig 141, Sheet 1 of 2 ELLIPS03



ELLIPS03-PNG

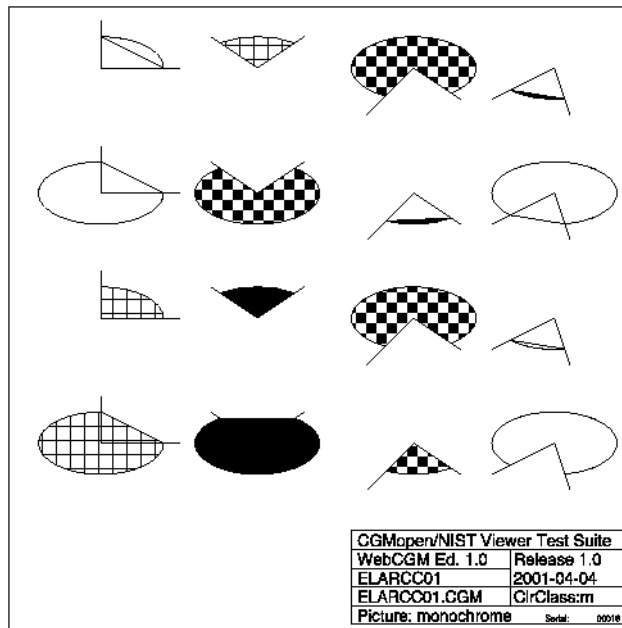
Fig 141, Sheet 2 of 2 ELLIPS03

1.15.25 ELARCC01



ELARCC01-CGM

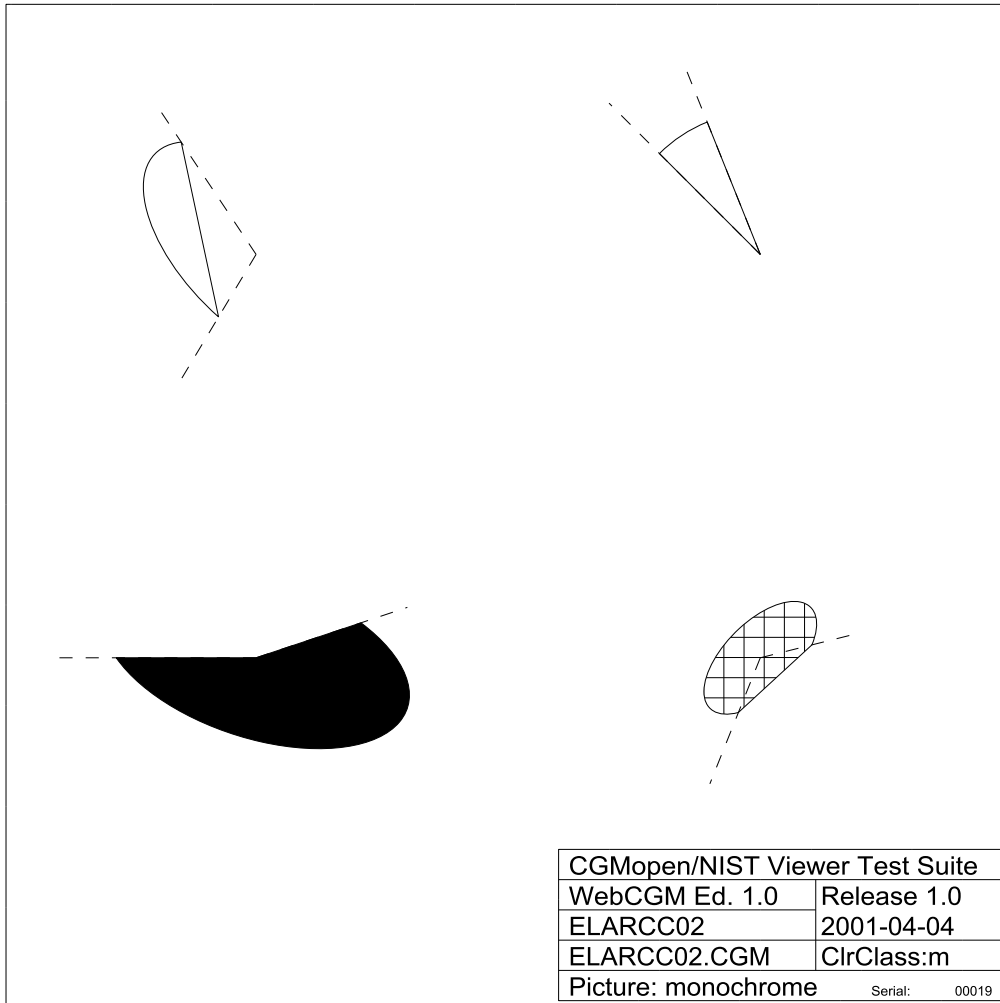
Fig 142, Sheet 1 of 2 ELARCC01



ELARCC01-PNG

Fig 142, Sheet 2 of 2 ELARCC01

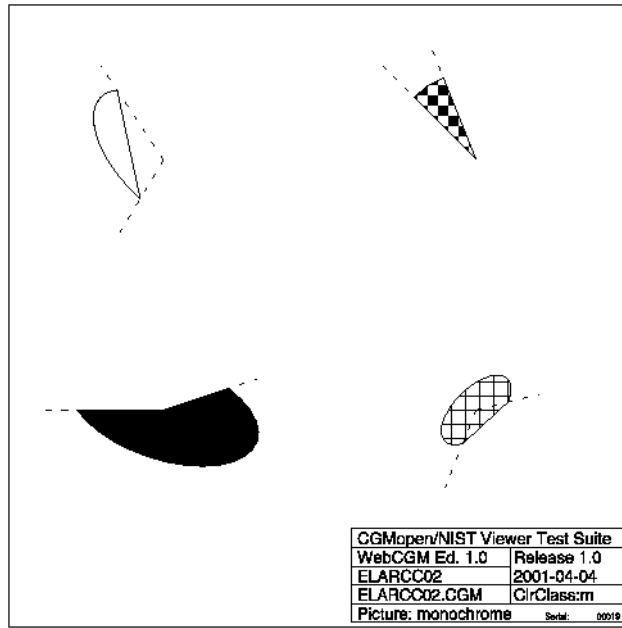
1.15.26 ELARCC02



ELARCC02-CGM

Fig 143, Sheet 1 of 2 ELARCC02

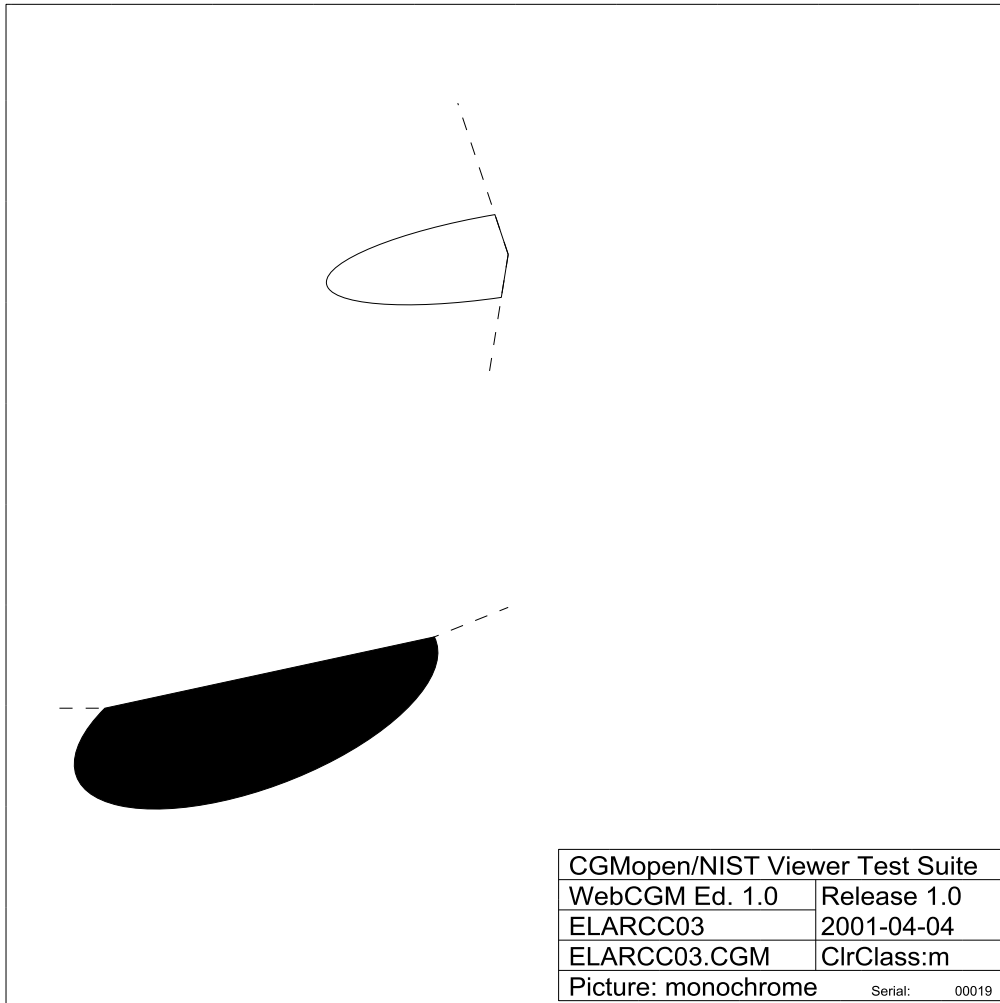




ELARCC02-PNG

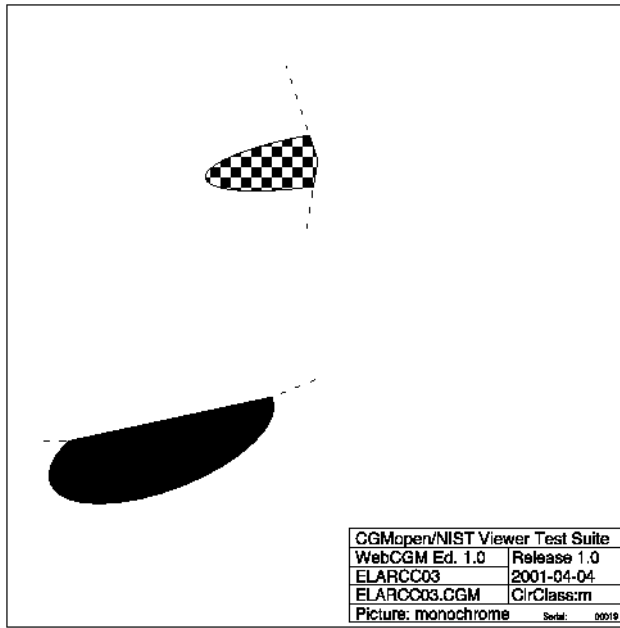
Fig 143, Sheet 2 of 2 ELARCC02

1.15.27 ELARCC03



ELARCC03-CGM

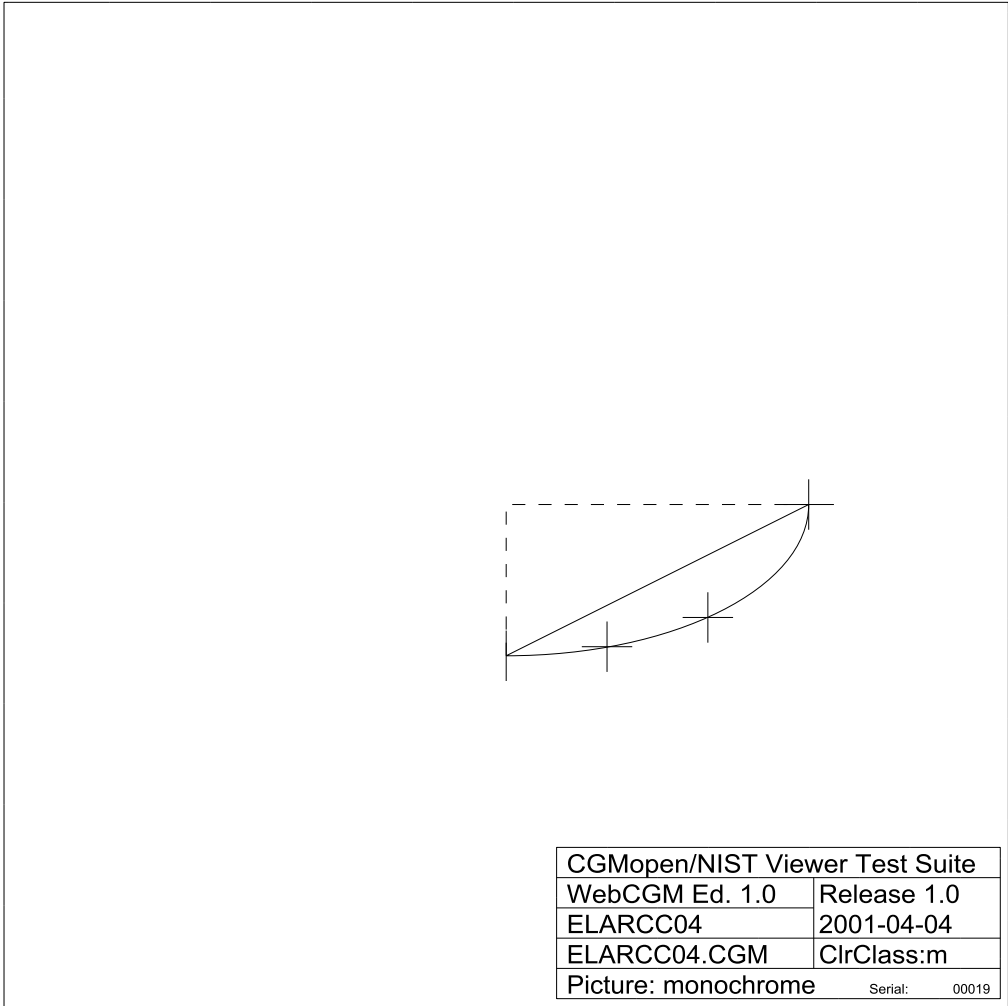
Fig 144, Sheet 1 of 2 ELARCC03



ELARCC03-PNG

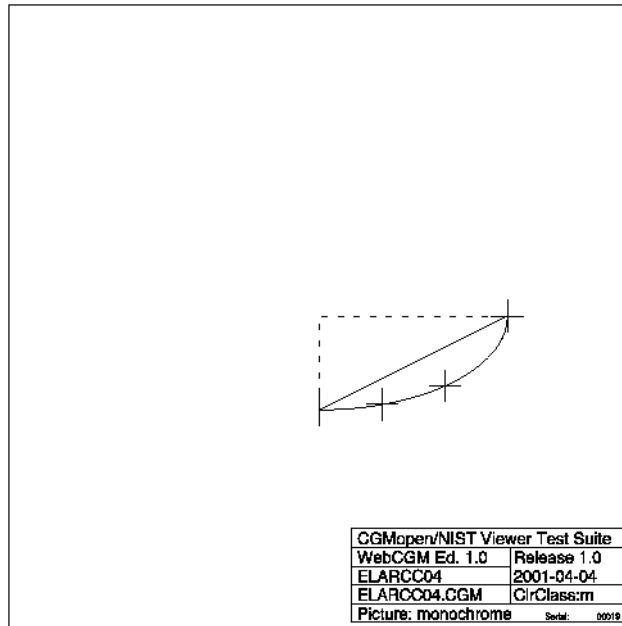
Fig 144, Sheet 2 of 2 ELARCC03

1.15.28 ELARCC04



ELARCC04-CGM

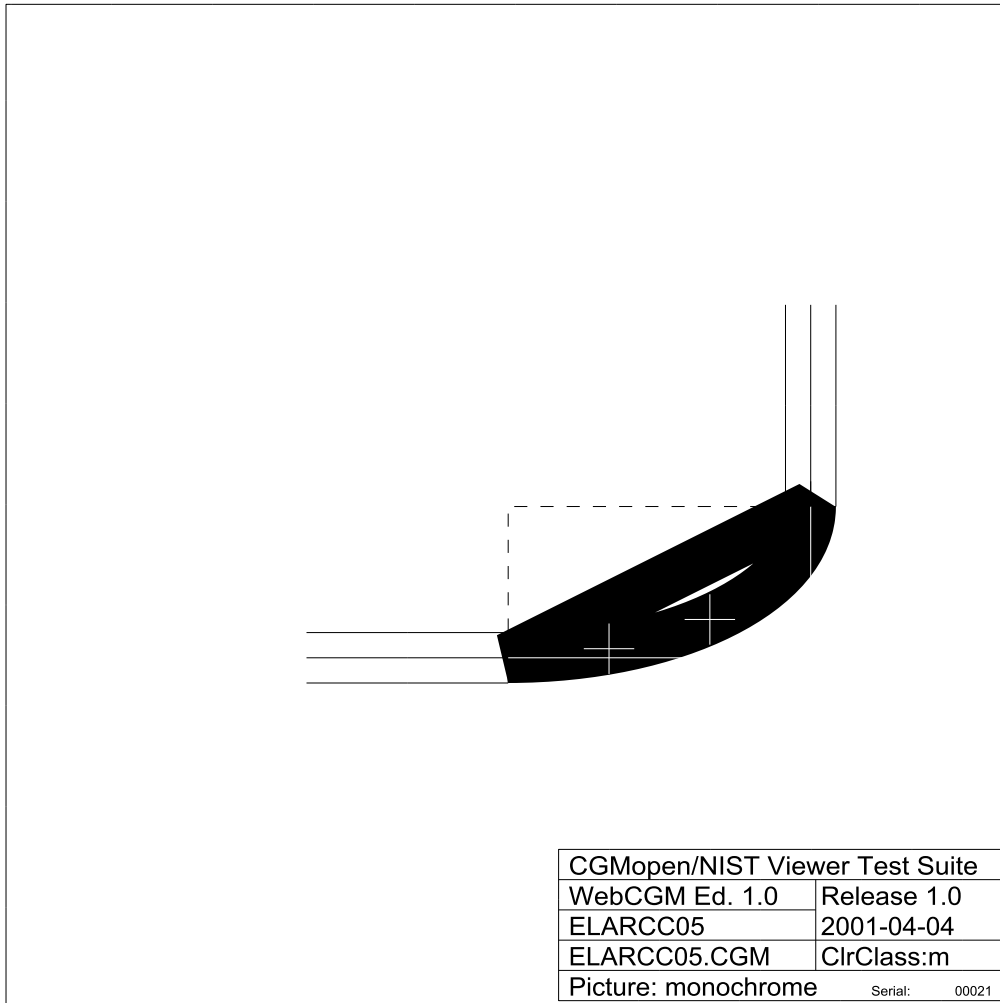
Fig 145, Sheet 1 of 2 ELARCC04



ELARCC04-PNG

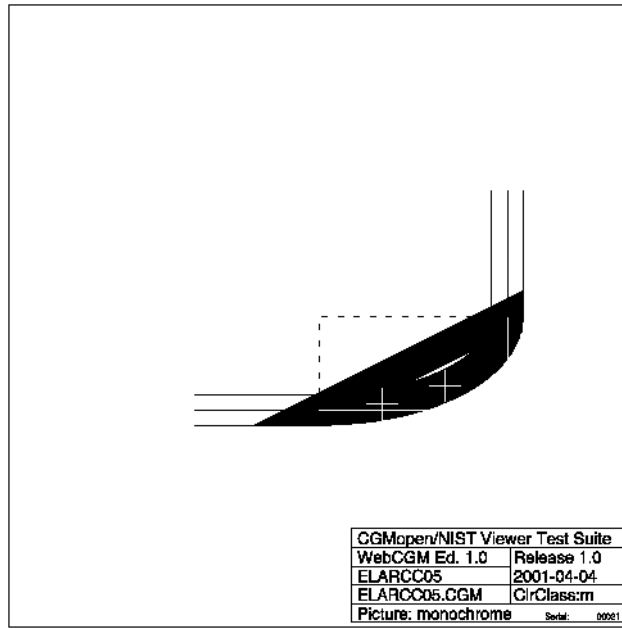
Fig 145, Sheet 2 of 2 ELARCC04

1.15.29 ELARCC05



ELARCC05-CGM

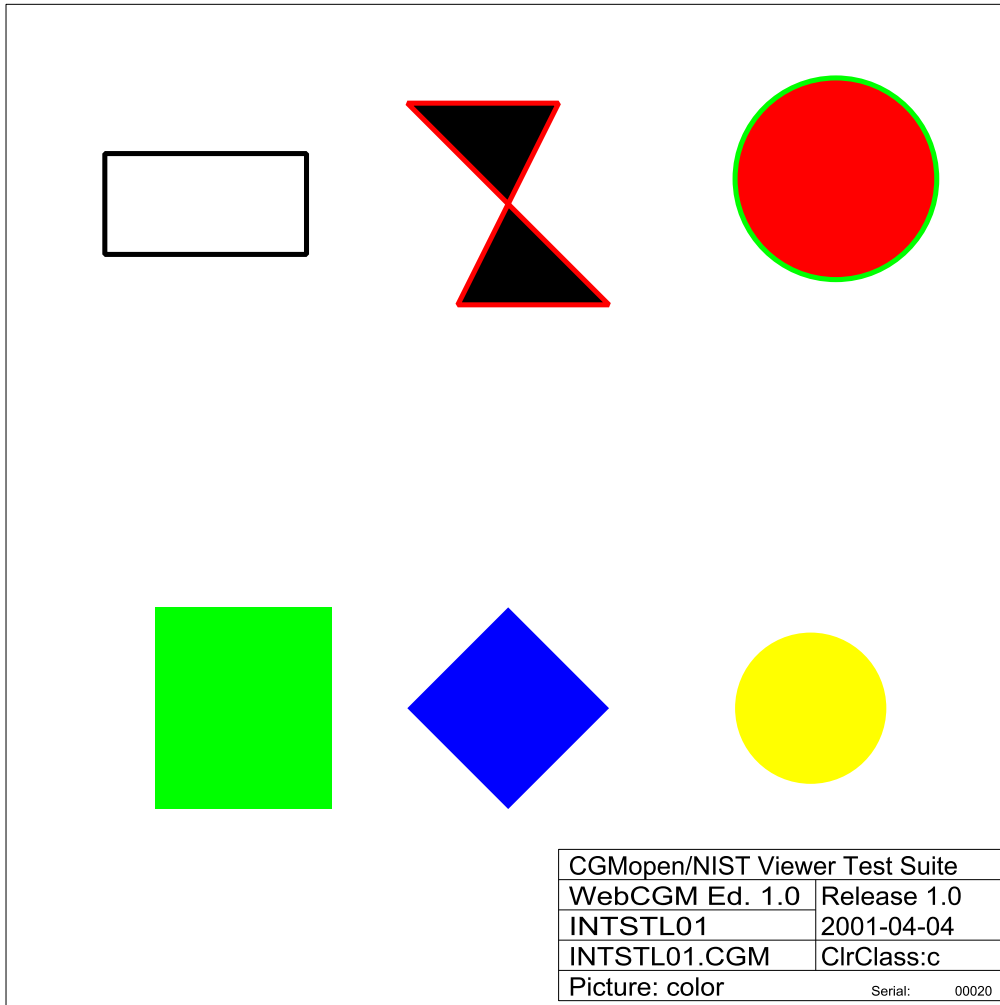
Fig 146, Sheet 1 of 2 ELARCC05



ELARCC05-PNG

Fig 146, Sheet 2 of 2 ELARCC05

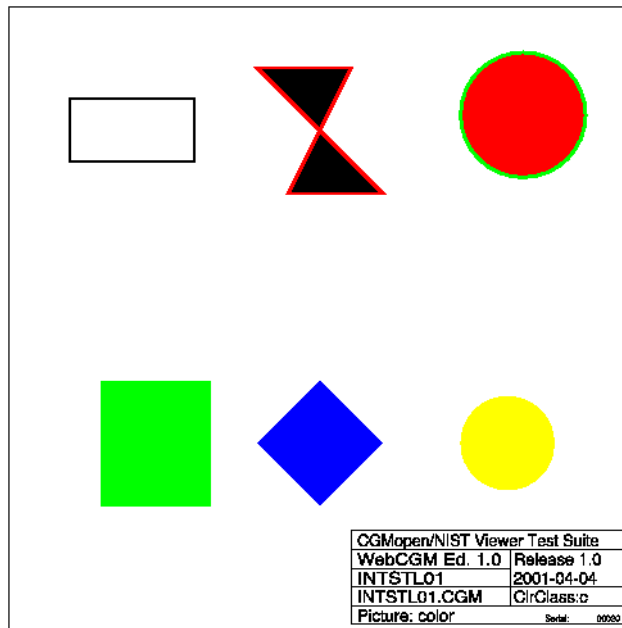
1.15.30 INTSTL01



INTSTL01-CGM

Fig 147, Sheet 1 of 2 INTSTL01

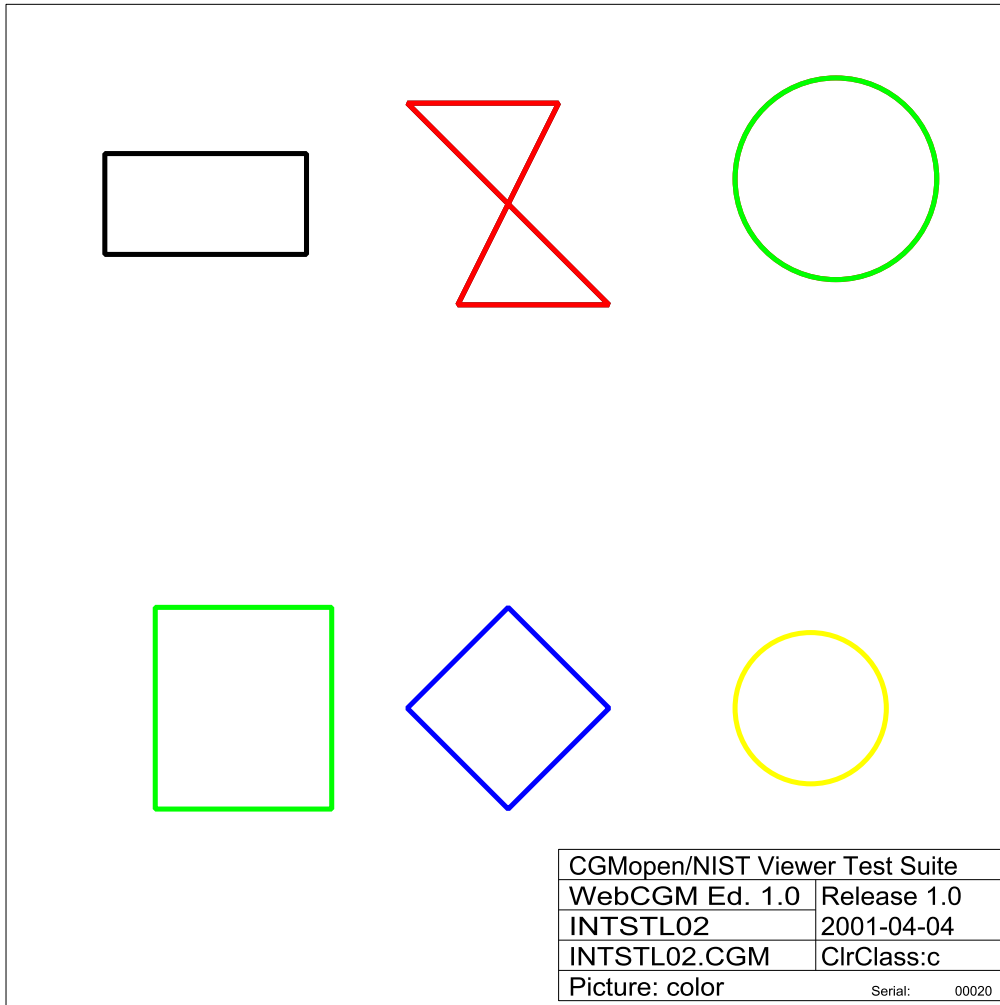




INTSTL01-PNG

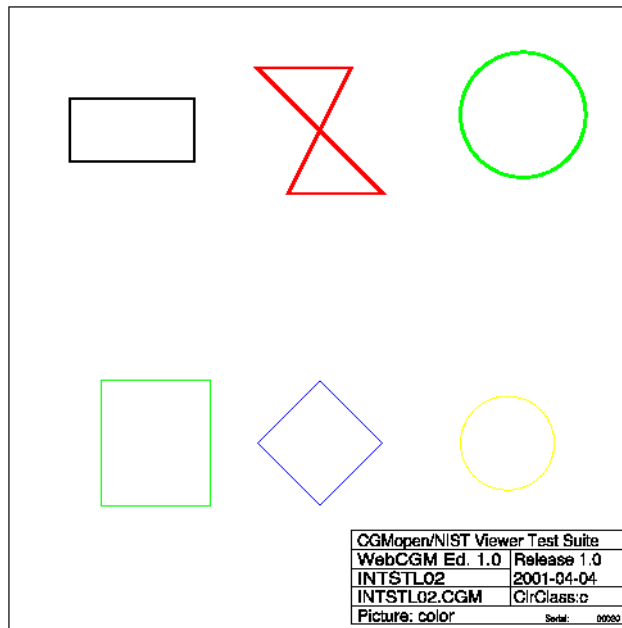
Fig 147, Sheet 2 of 2 INTSTL01

1.15.31 INTSTL02



INTSTL02-CGM

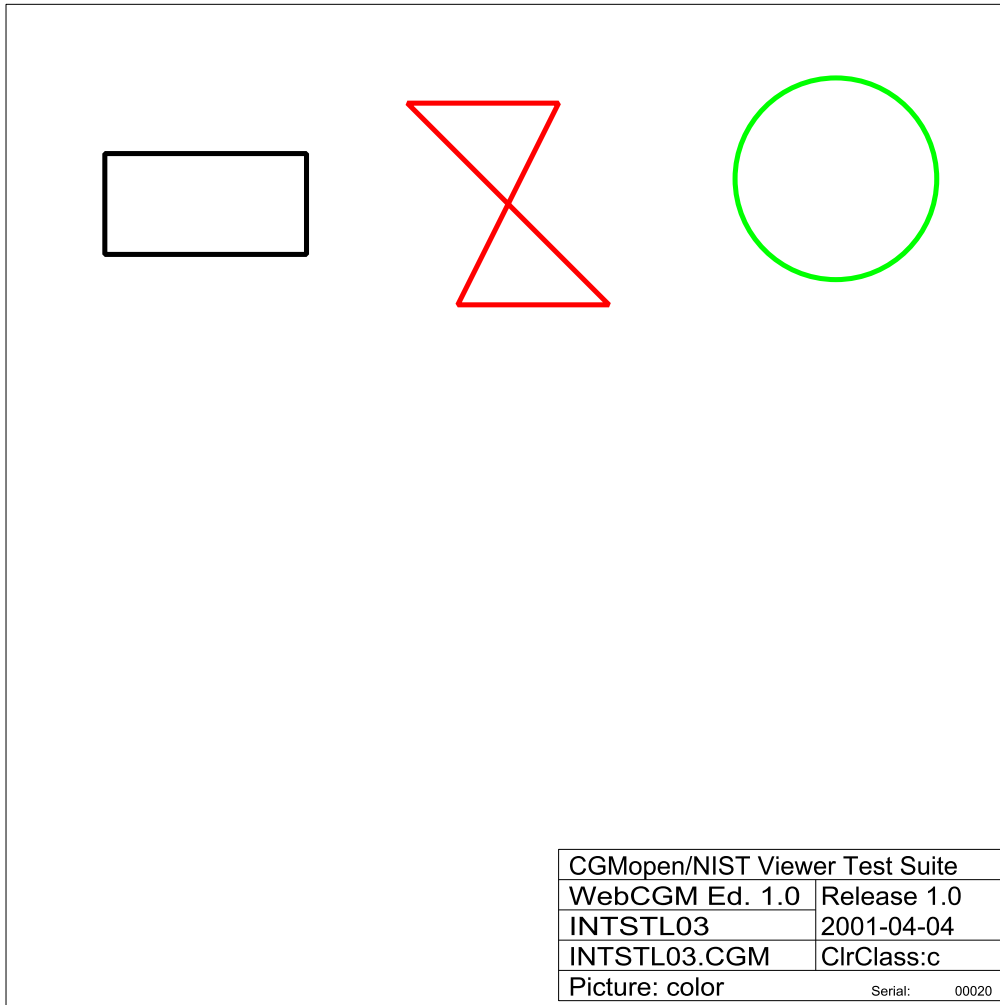
Fig 148, Sheet 1 of 2 INTSTL02



INTSTL02-PNG

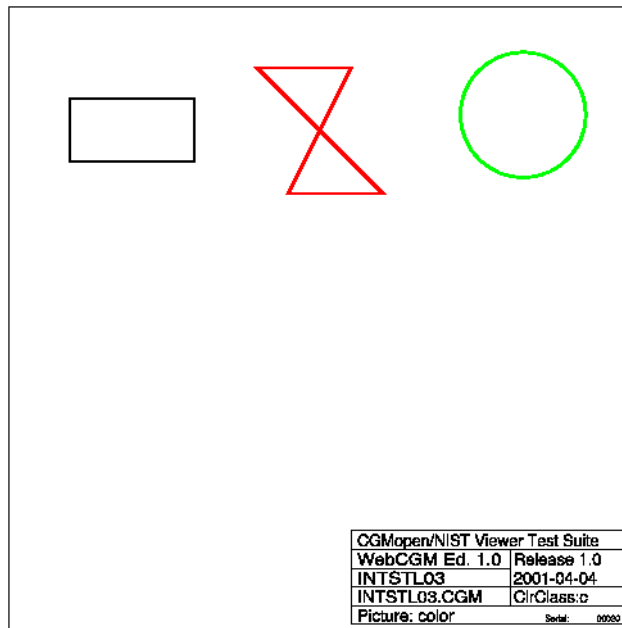
Fig 148, Sheet 2 of 2 INTSTL02

1.15.32 INTSTL03



INTSTL03-CGM

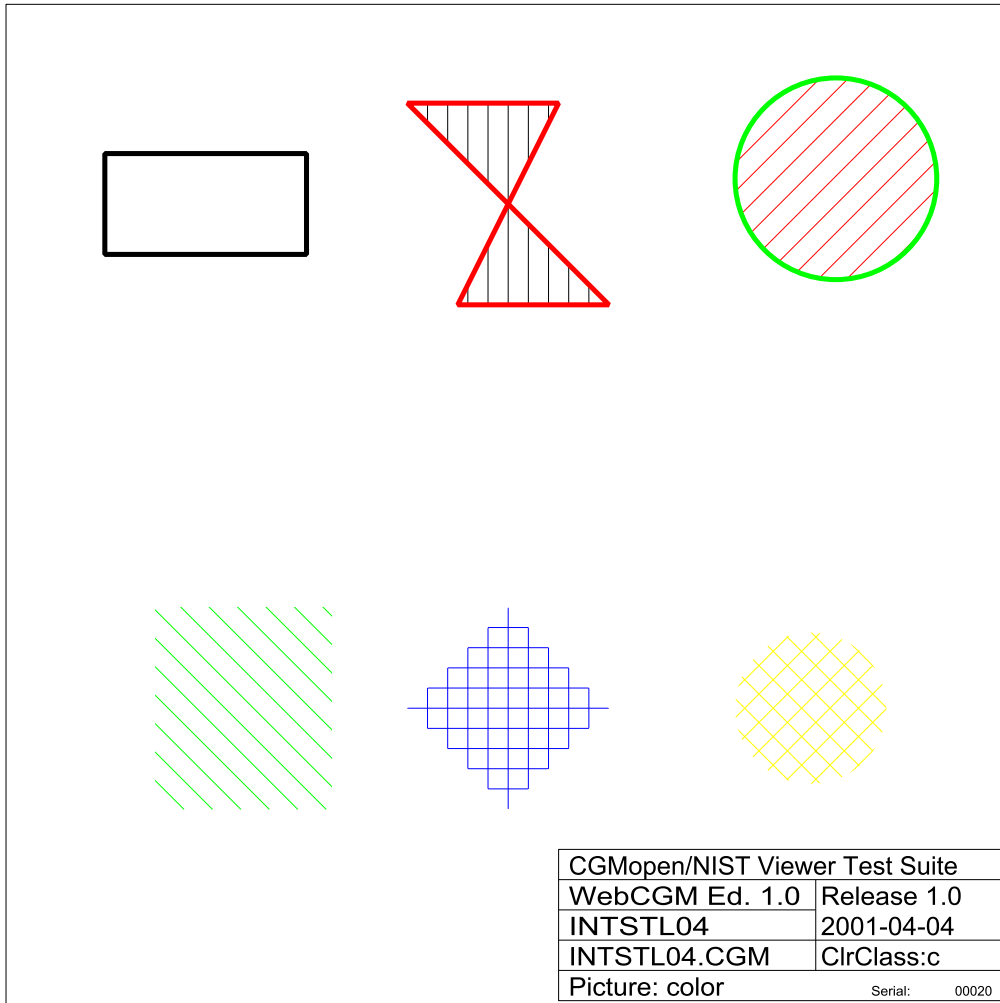
Fig 149, Sheet 1 of 2 INTSTL03



INTSTL03-PNG

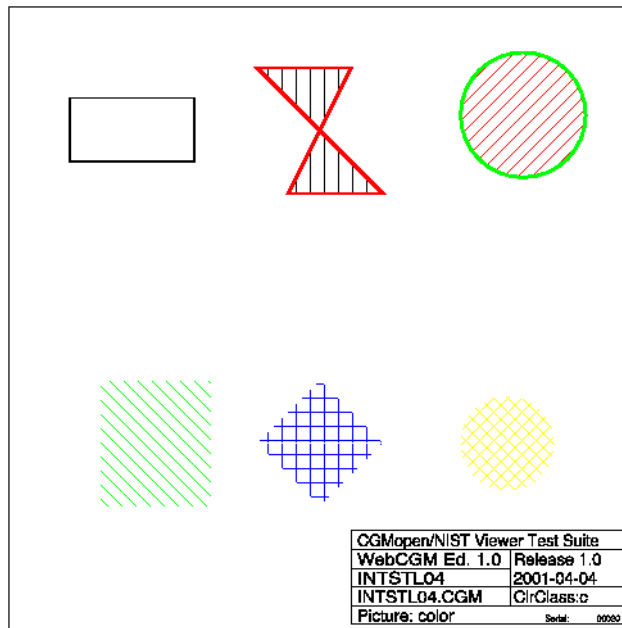
Fig 149, Sheet 2 of 2 INTSTL03

1.15.33 INTSTL04



INTSTL04-CGM

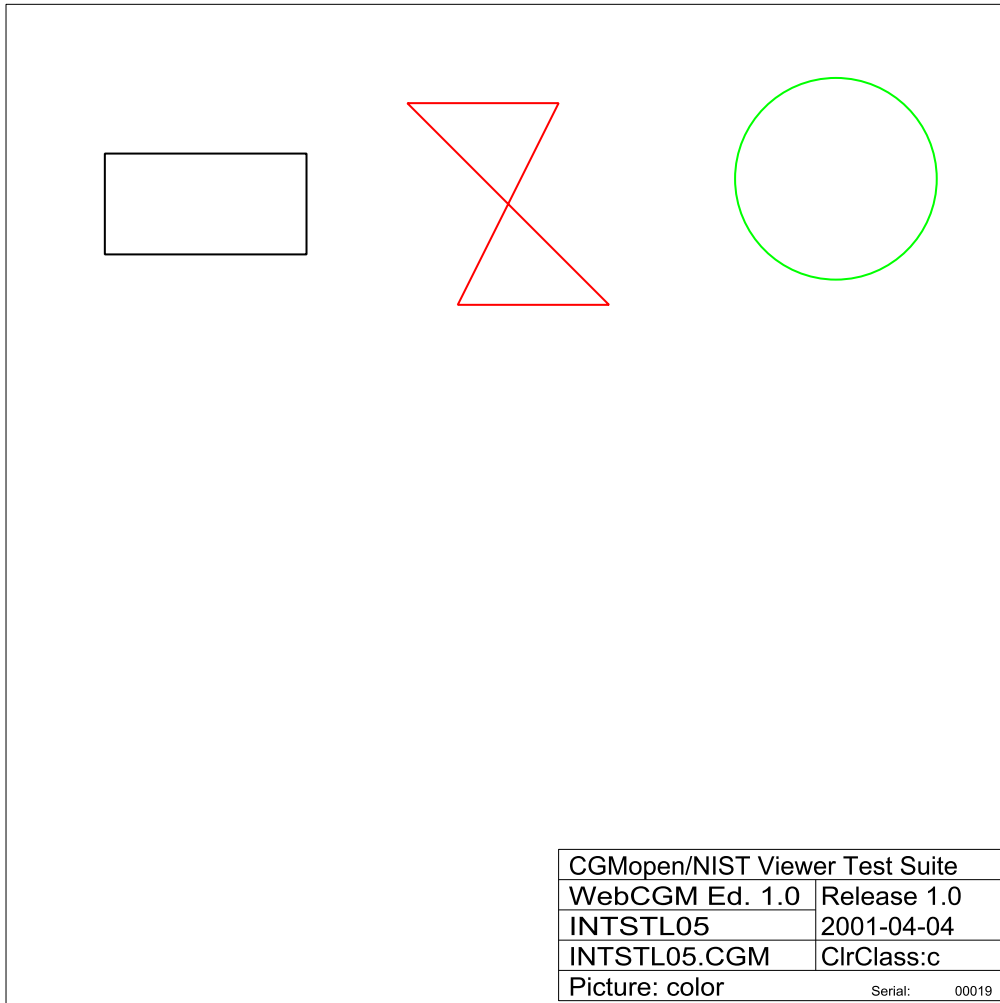
Fig 150, Sheet 1 of 2 INTSTL04



INTSTL04-PNG

Fig 150, Sheet 2 of 2 INTSTL04

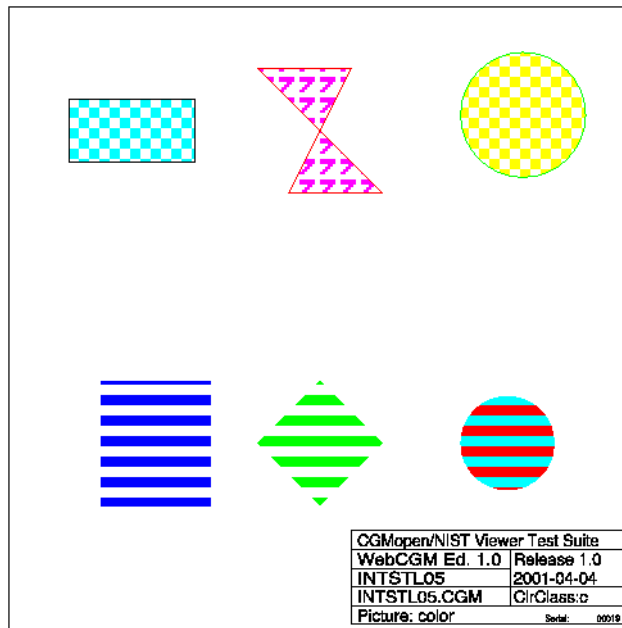
1.15.34 INTSTL05



INTSTL05-CGM

Fig 151, Sheet 1 of 2 INTSTL05

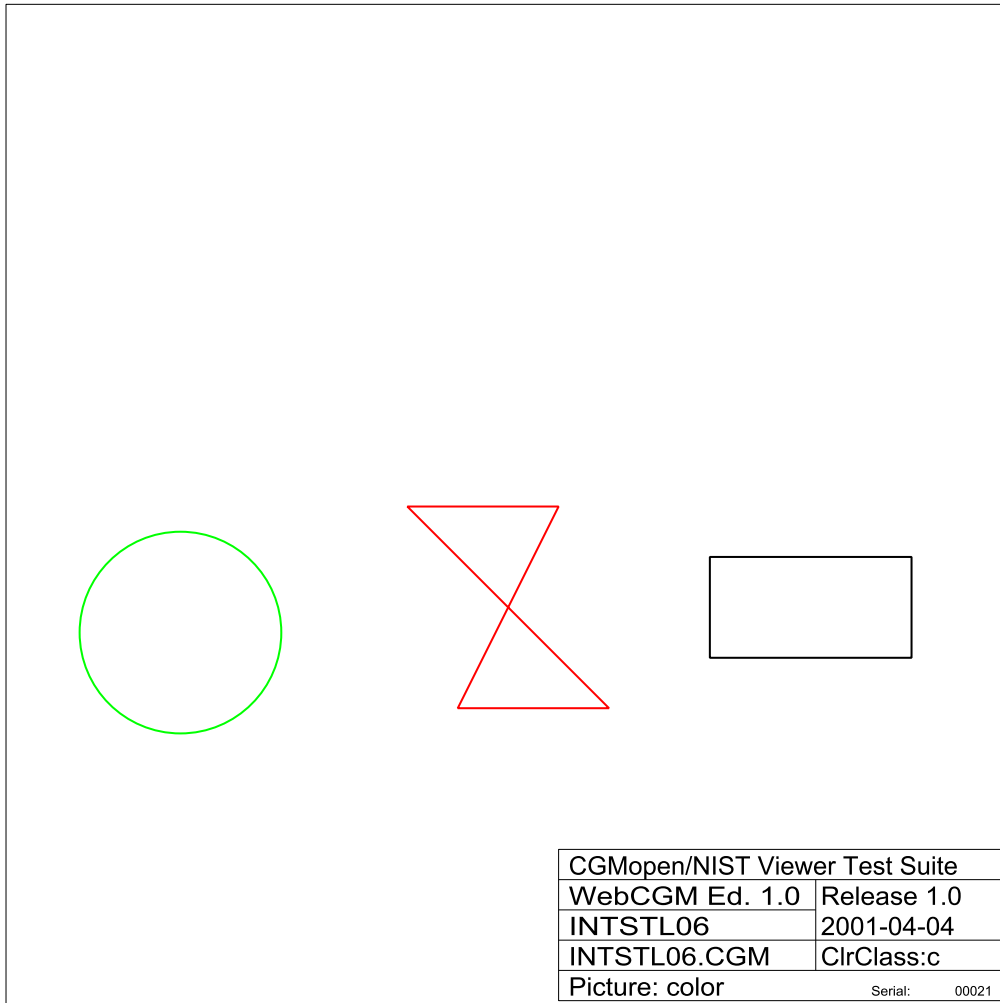




INTSTL05-PNG

Fig 151, Sheet 2 of 2 INTSTL05

1.15.35 INTSTL06



INTSTL06-CGM

Fig 152, Sheet 1 of 2 INTSTL06

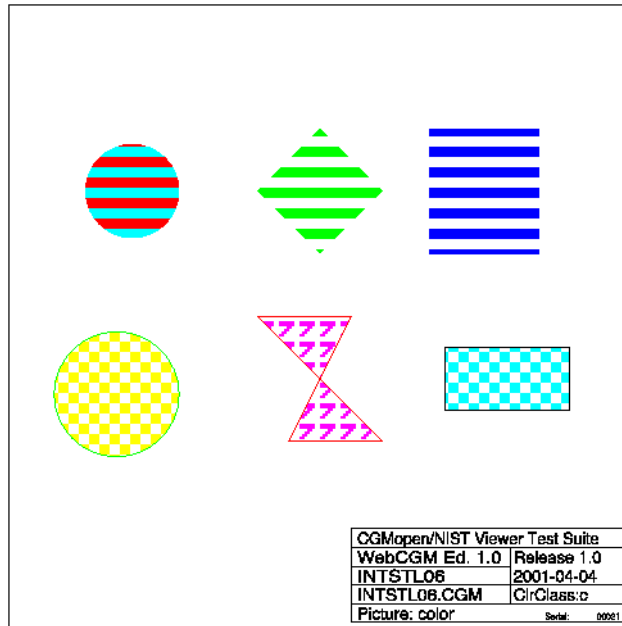
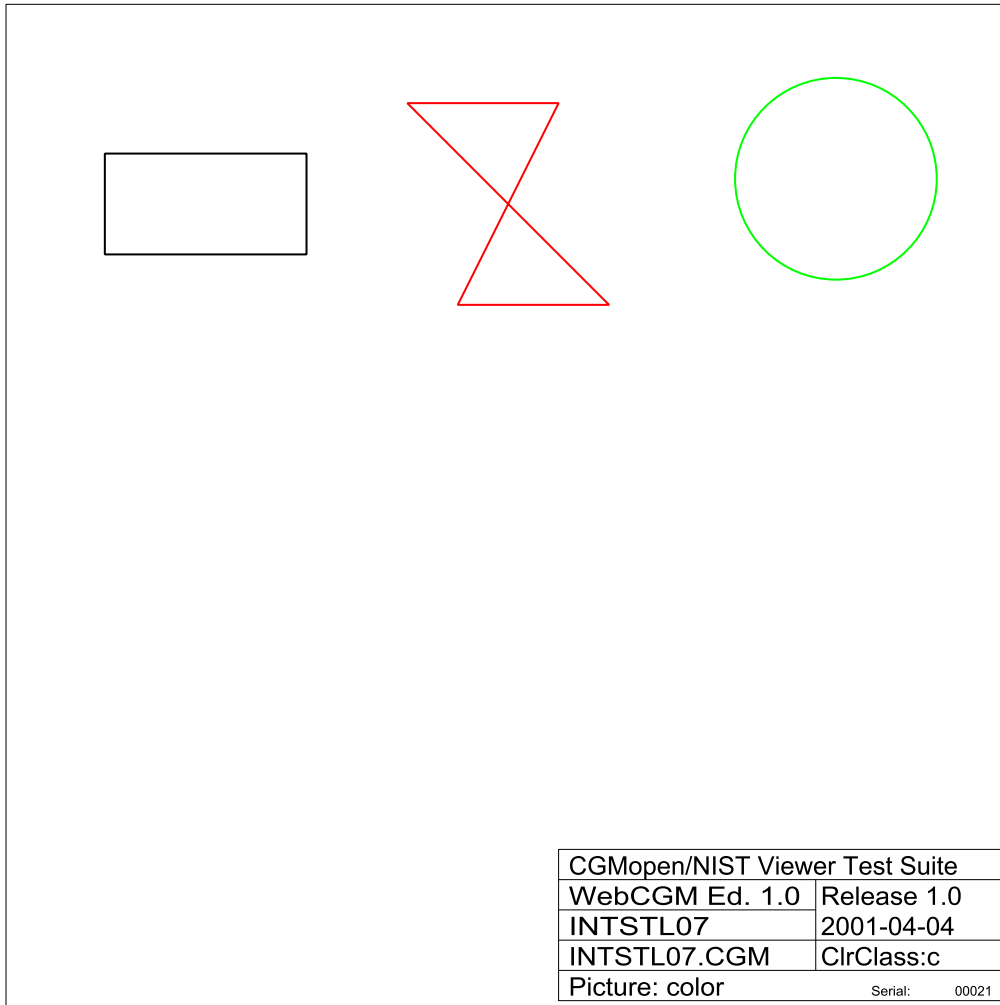


Fig 152, Sheet 2 of 2 INTSTL06

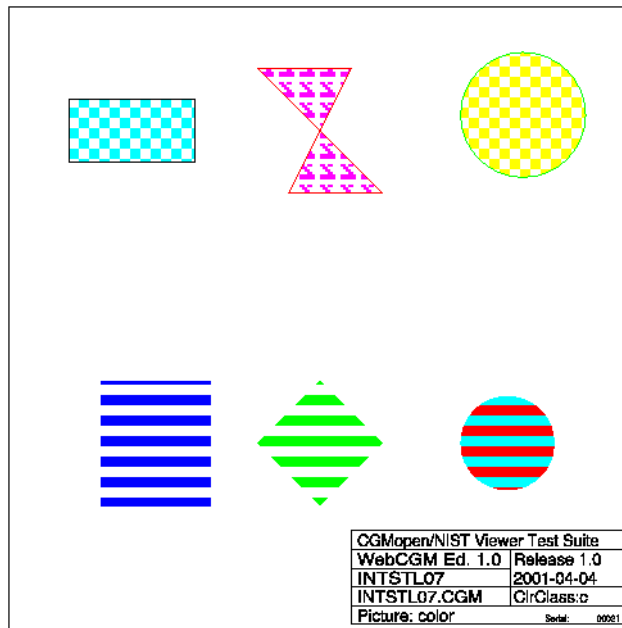
INTSTL06-PNG

1.15.36 INTSTL07



INTSTL07-CGM

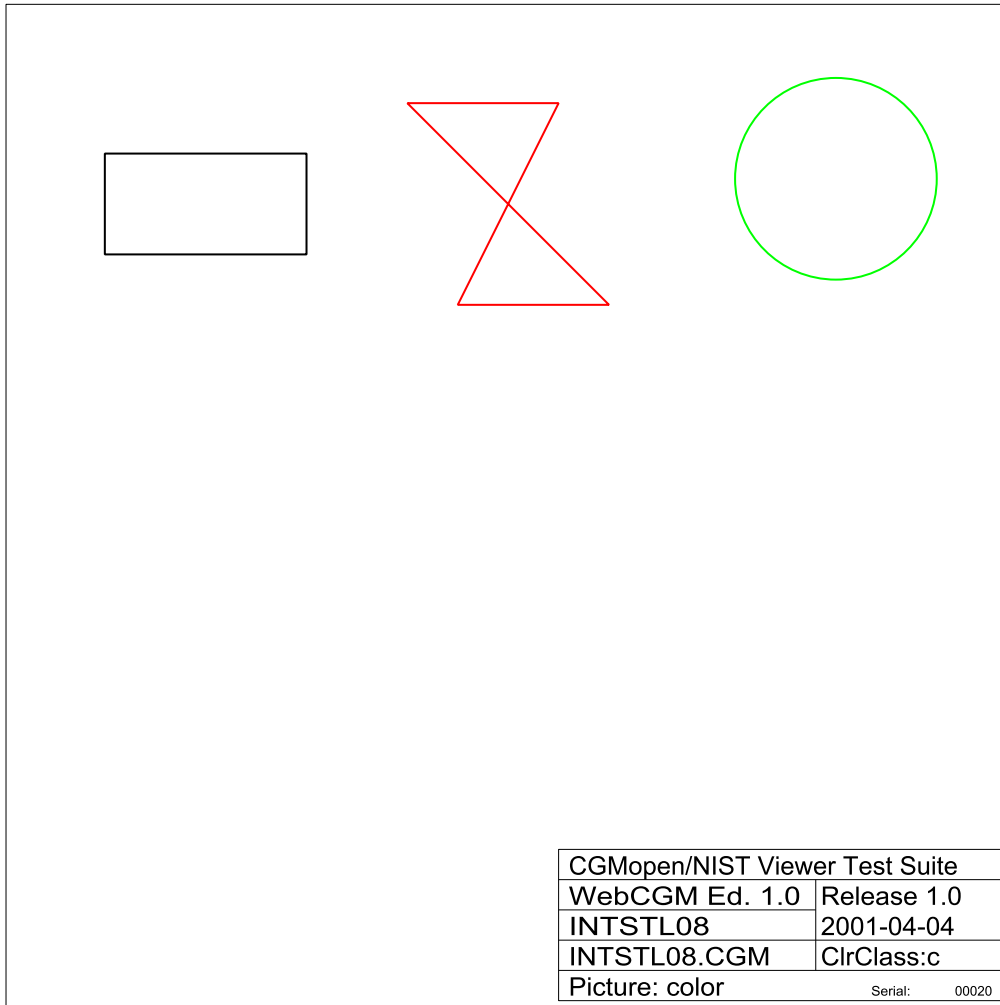
Fig 153, Sheet 1 of 2 INTSTL07



INTSTL07-PNG

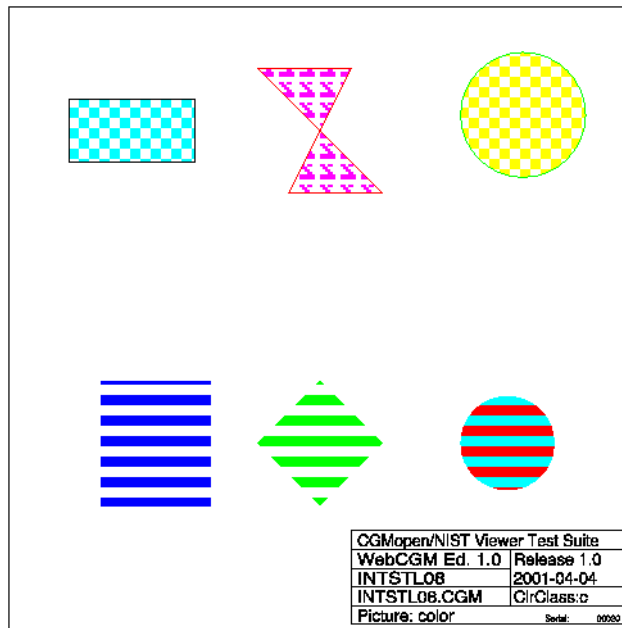
Fig 153, Sheet 2 of 2 INTSTL07

1.15.37 INTSTL08



INTSTL08-CGM

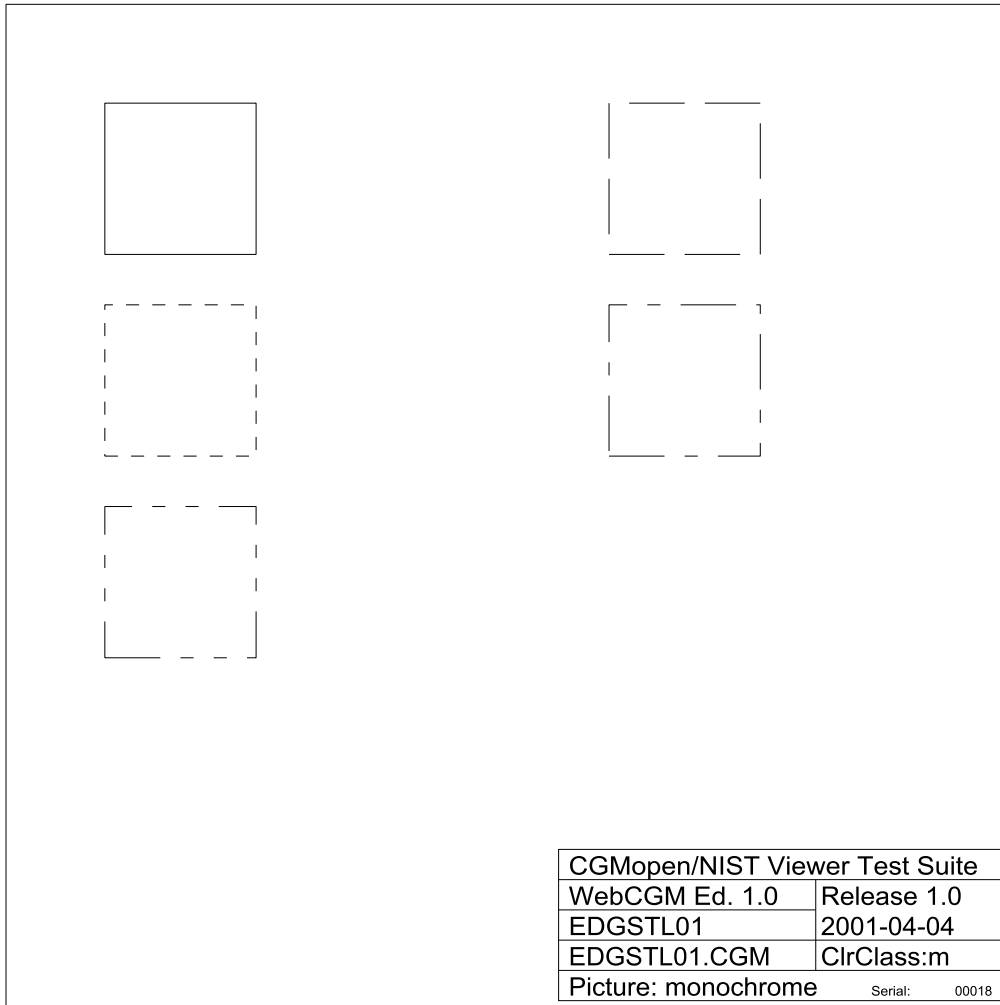
Fig 154, Sheet 1 of 2 INTSTL08



INTSTL08-PNG

Fig 154, Sheet 2 of 2 INTSTL08

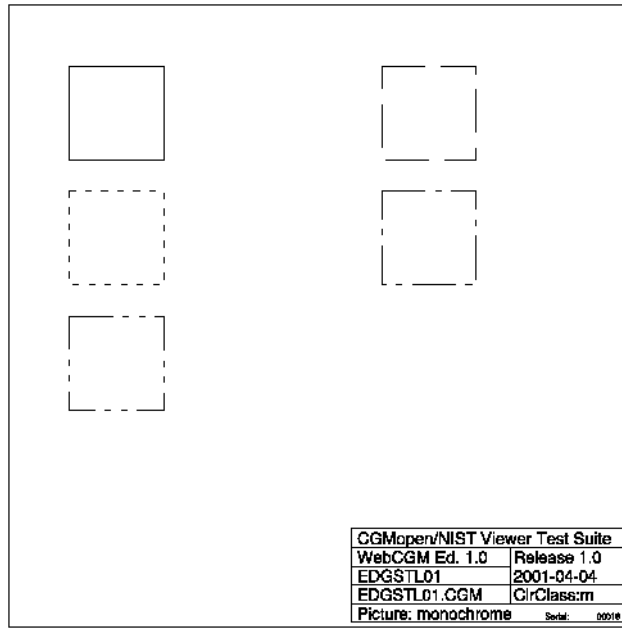
1.15.38 EDGSTL01



edgstl01-CGM

Fig 155, Sheet 1 of 2 EDGSTL01

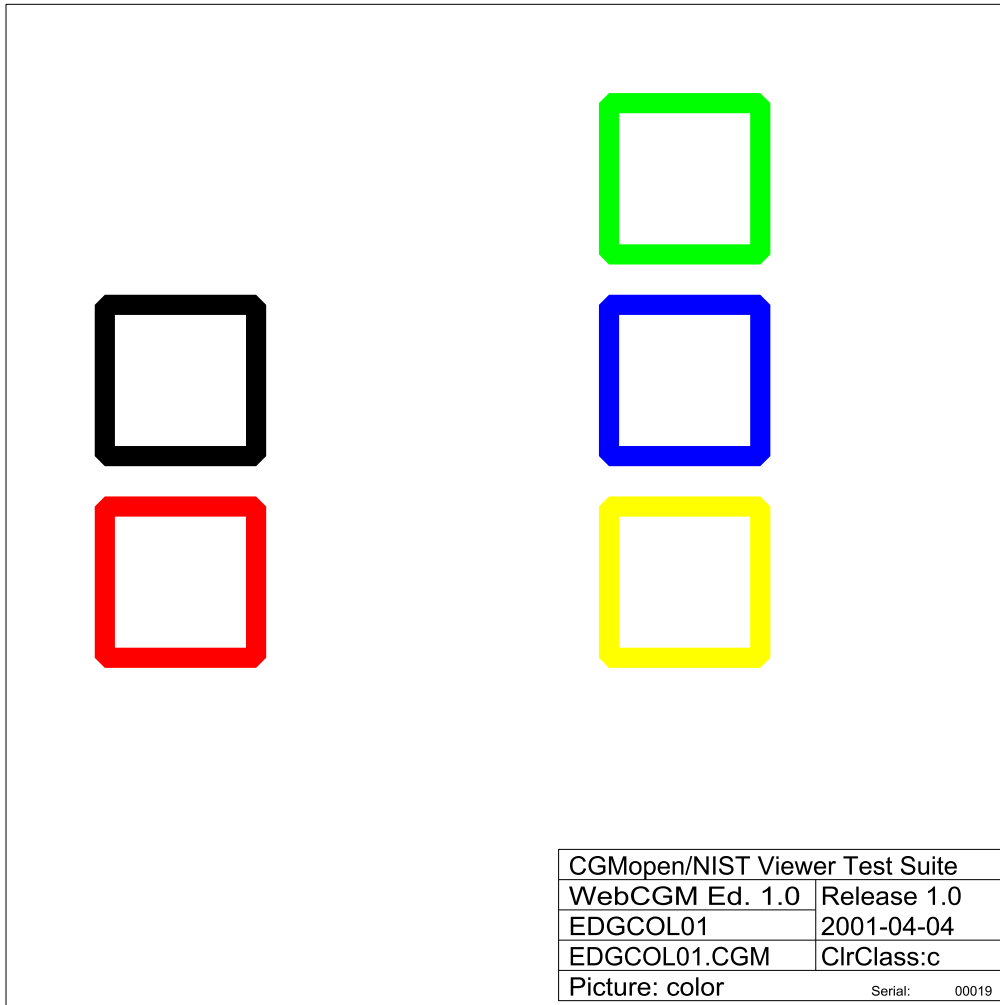




edgstl01-PNG

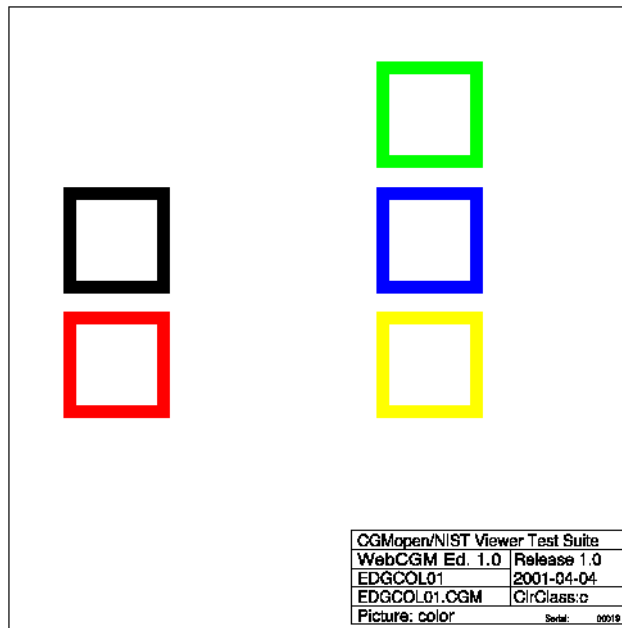
Fig 155, Sheet 2 of 2 EDGSTL01

1.15.39 EDGCOL01



EDGCOL01-CGM

Fig 156, Sheet 1 of 2 EDGCOL01



EDGCOL01-PNG

Fig 156, Sheet 2 of 2 EDGCOL01

**1.16**      **Pattern Table**

**1.16.1**      **PATTBL01**

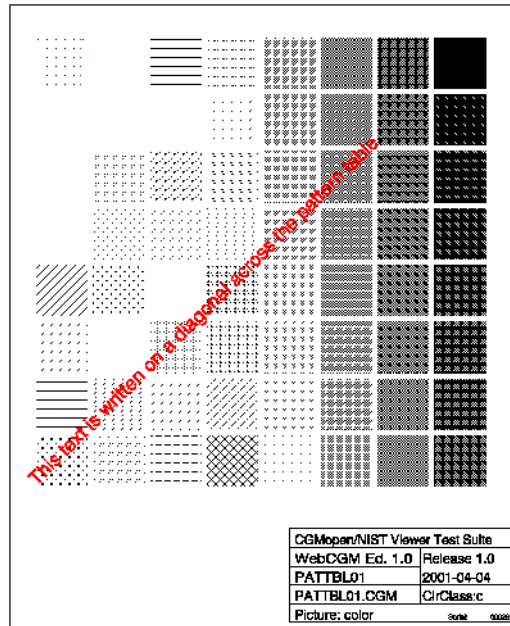
This text is written on a diagonal across the pattern table

CGMopen/NIST Viewer Test Suite	
WebCGM Ed. 1.0	Release 1.0
PATTBL01	2001-04-04
PATTBL01.CGM	ClrClass:c
Picture: color	Serial: 00029

PATTBL01-CGM

Fig 157, Sheet 1 of 2 PATTBL01

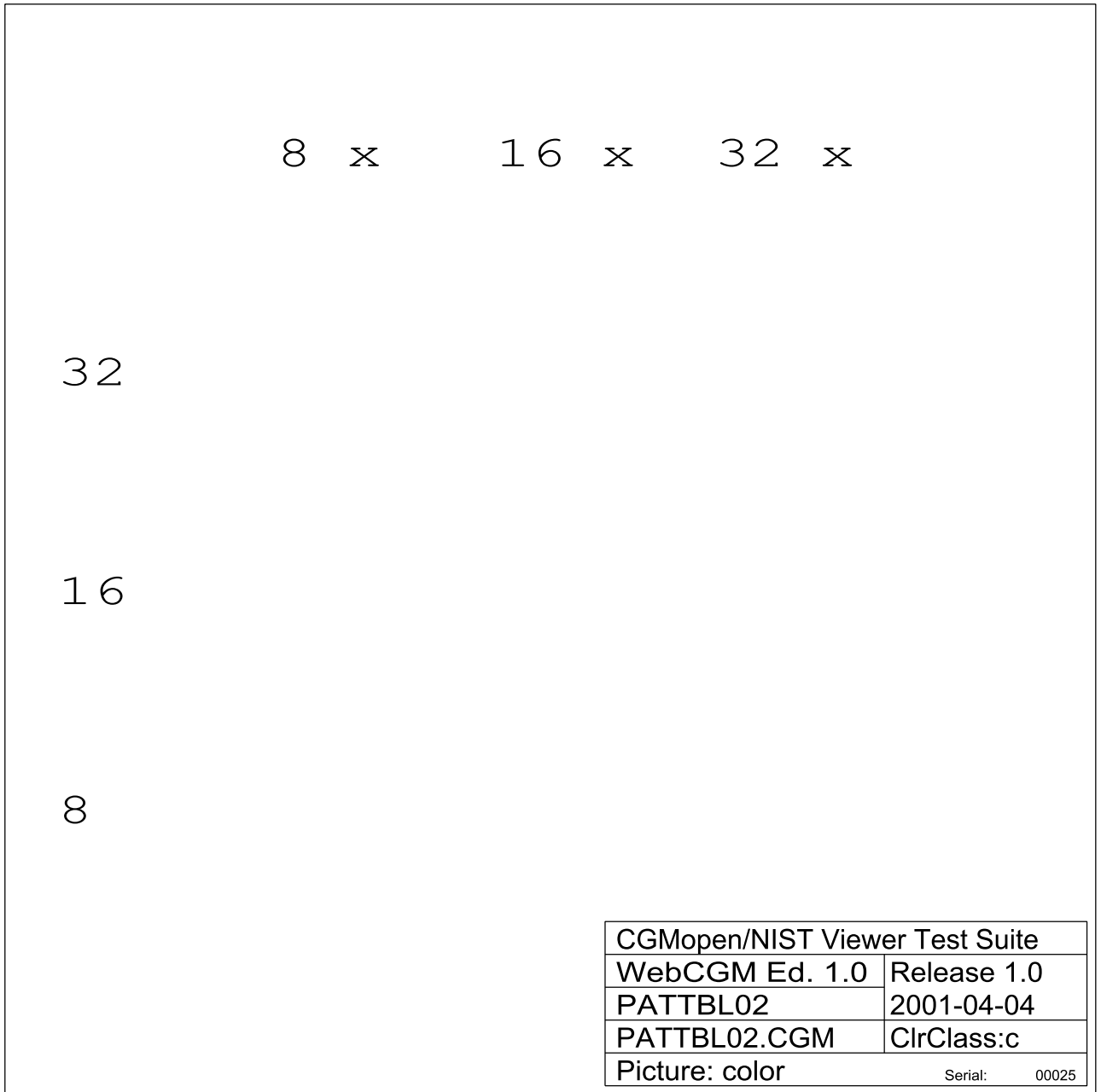
Produced by Docuneering Ltd.



PATTBL01-PNG

Fig 157, Sheet 2 of 2 PATTBL01

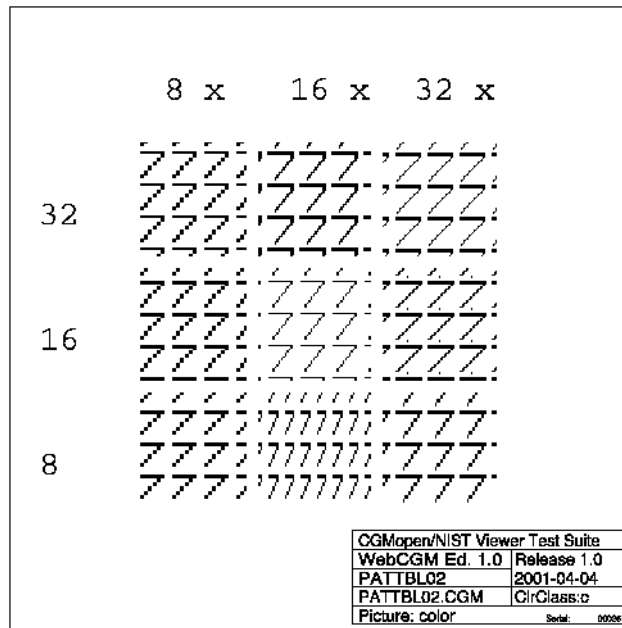
1.16.2 PATTBL02



PATTBL02-CGM

Fig 158, Sheet 1 of 2 PATTBL02

Produced by Docuneering Ltd.



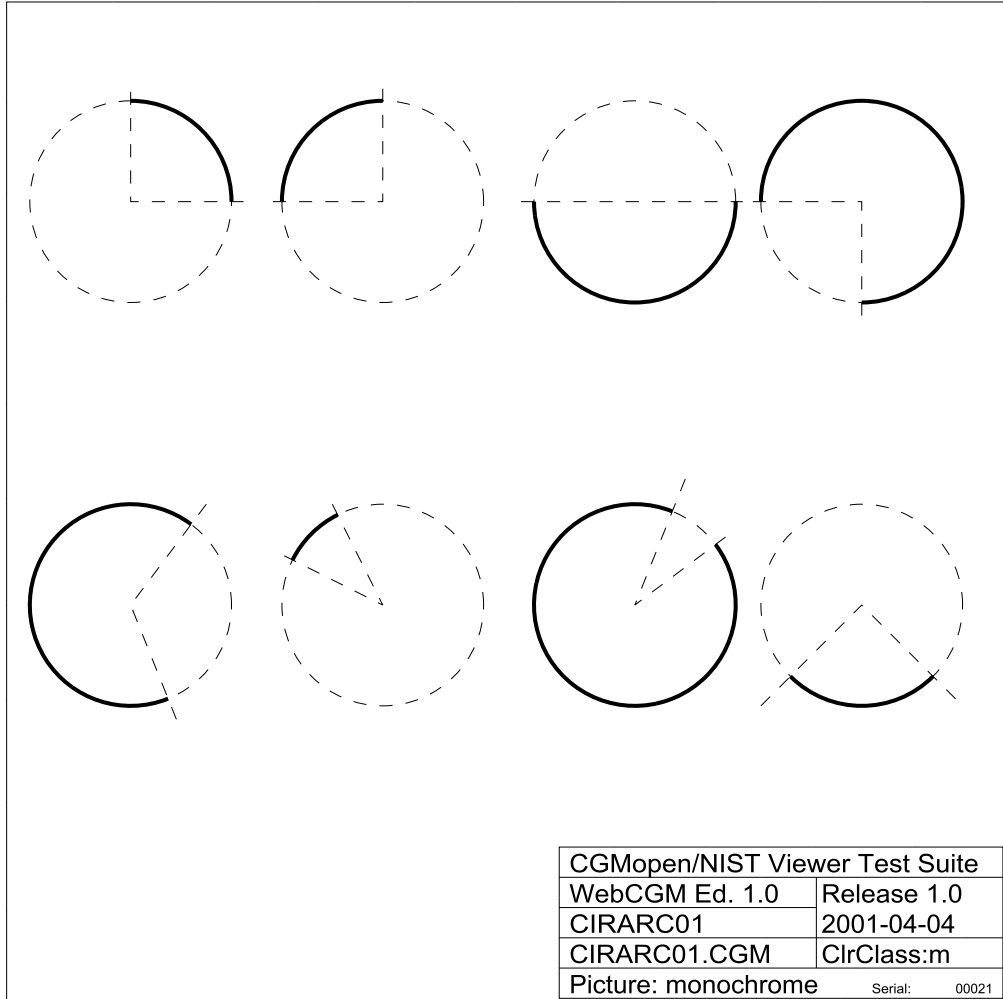
PATTBL02-PNG

Fig 158, Sheet 2 of 2 PATTBL02



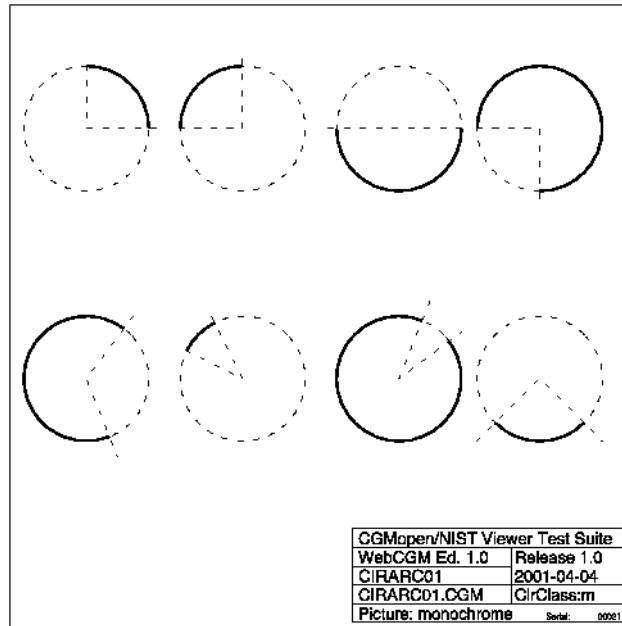
**1.17 Line Elements**

**1.17.1 CIRARC01**



CIRARC01-CGM

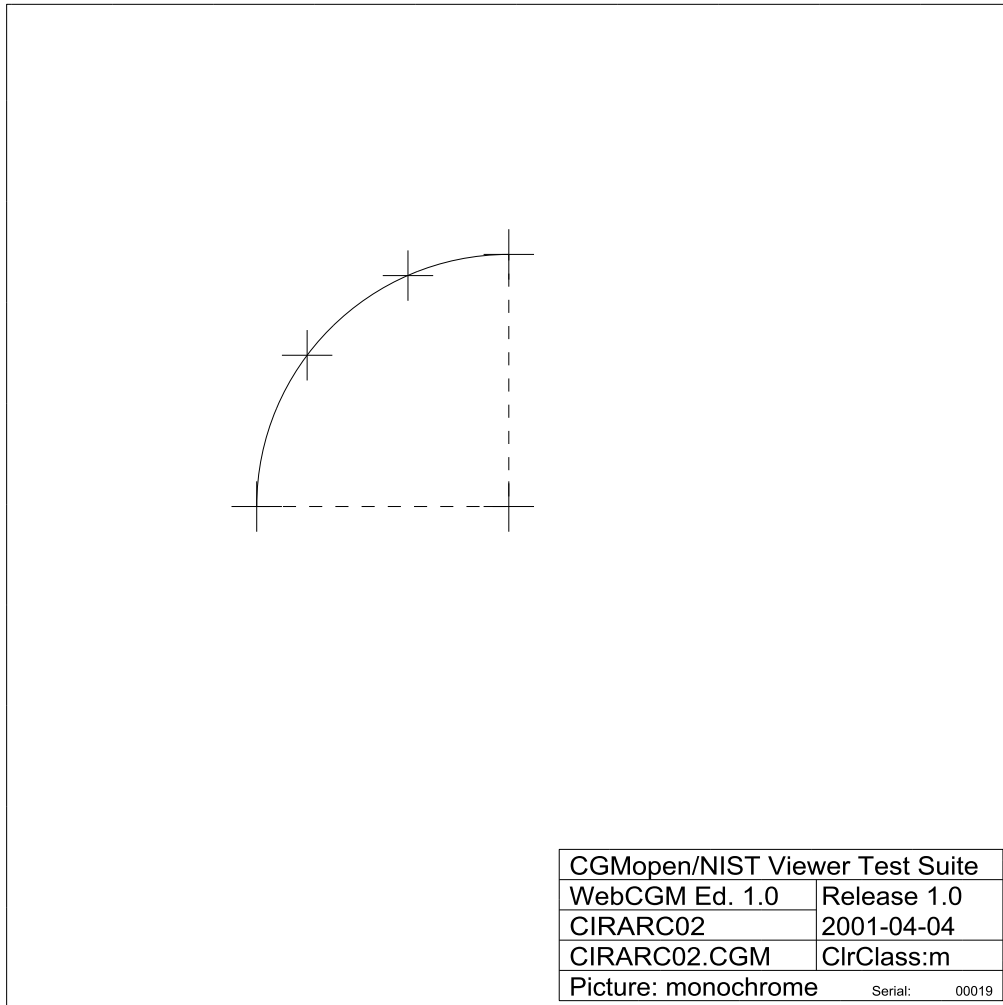
*Fig 159, Sheet 1 of 2 CIRARC01*



CIRARC01-PNG

Fig 159, Sheet 2 of 2 CIRARC01

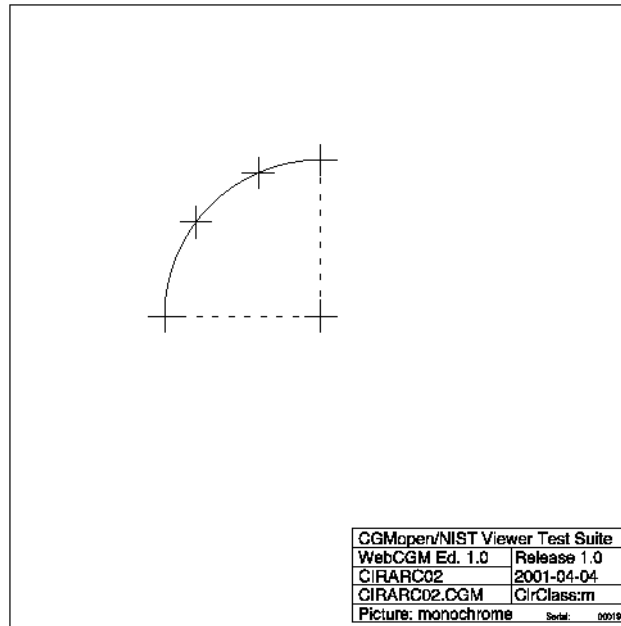
1.17.2 CIRARC02



CIRARC02-CGM

Fig 160, Sheet 1 of 2 CIRARC02

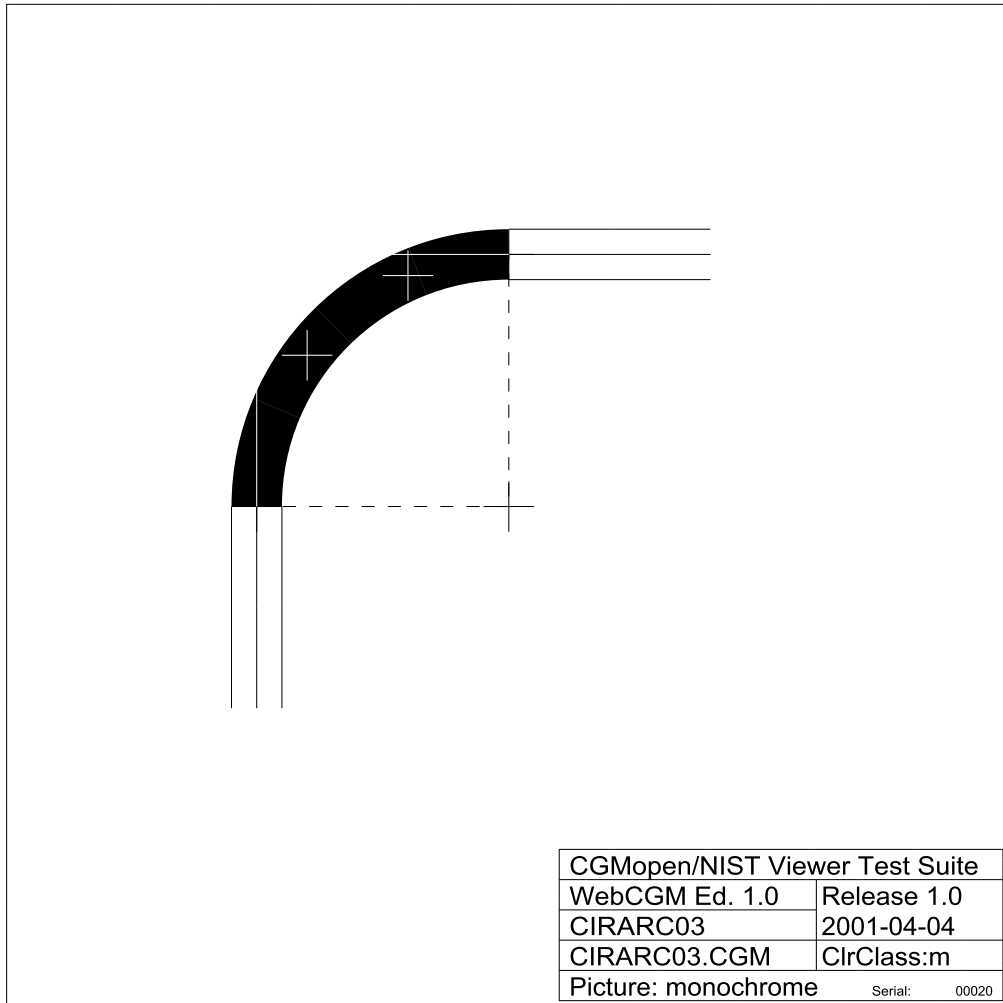
Produced by Docuneering Ltd.



CIRARC02-PNG

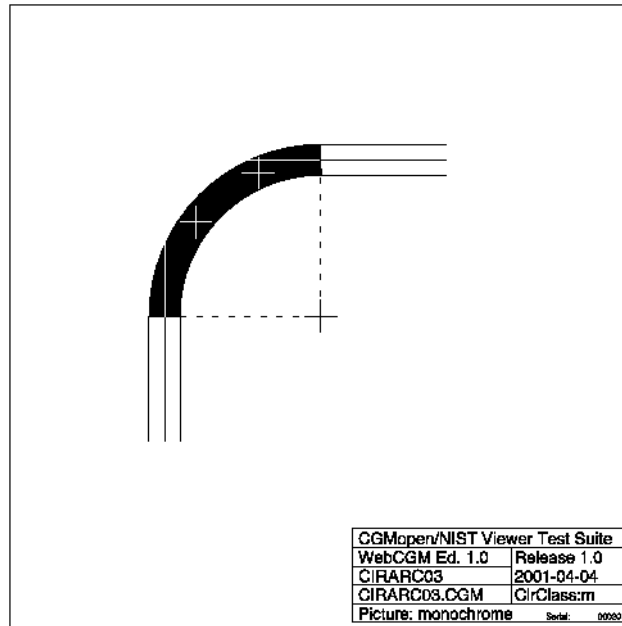
Fig 160, Sheet 2 of 2 CIRARC02

1.17.3 CIRARC03



CIRARC03-CGM

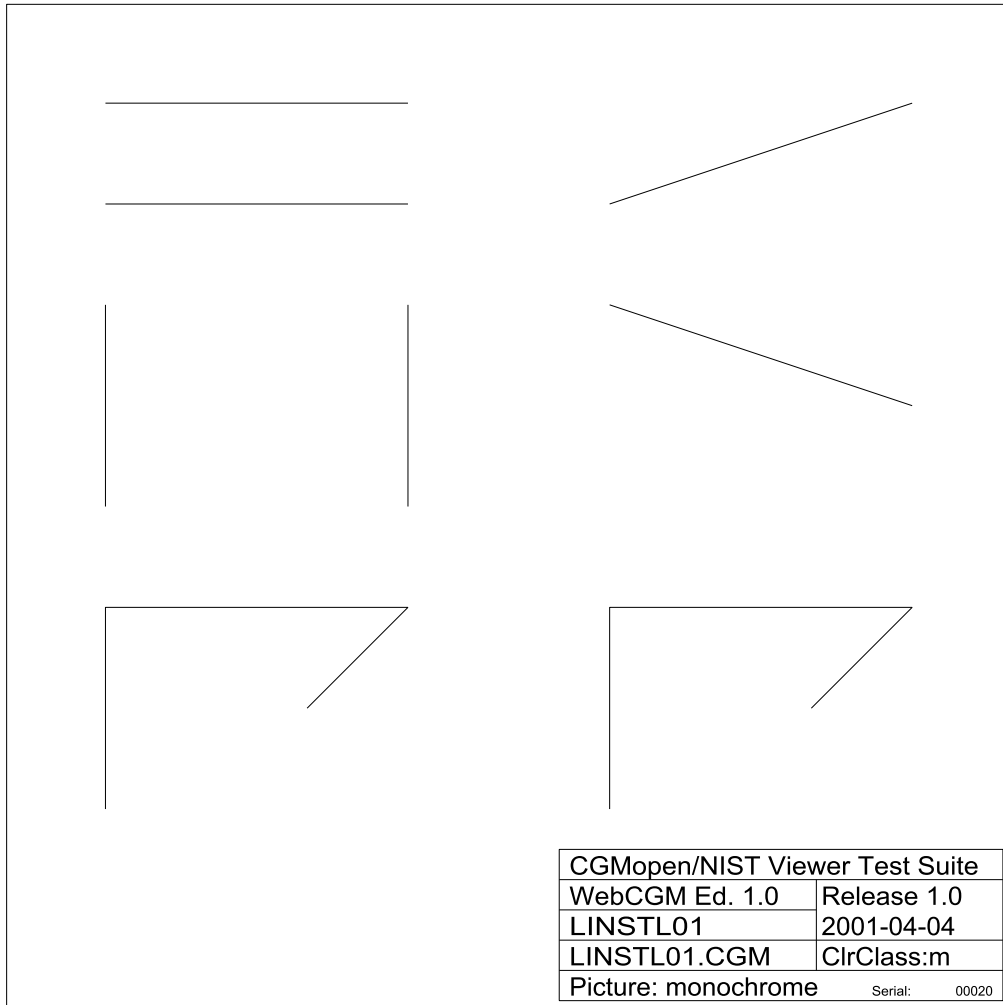
Fig 161, Sheet 1 of 2 CIRARC03



CIRARC03-PNG

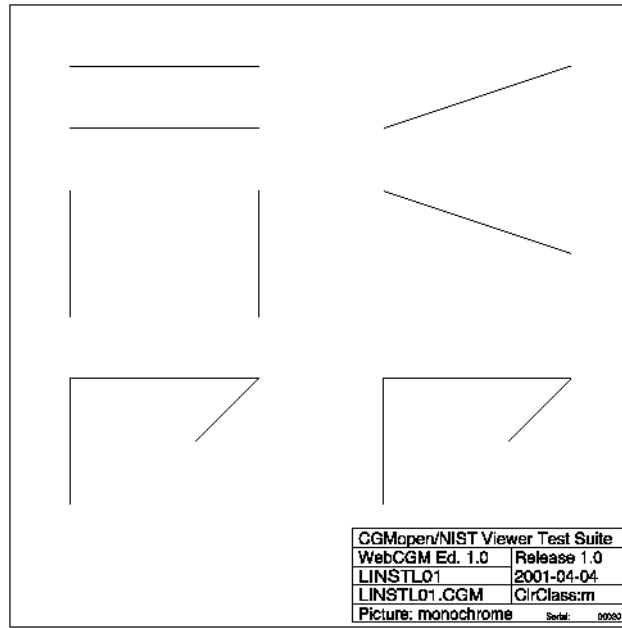
Fig 161, Sheet 2 of 2 CIRARC03

1.17.4 LINSTL01



LINSTL01-CGM

Fig 162, Sheet 1 of 2 LINSTL01

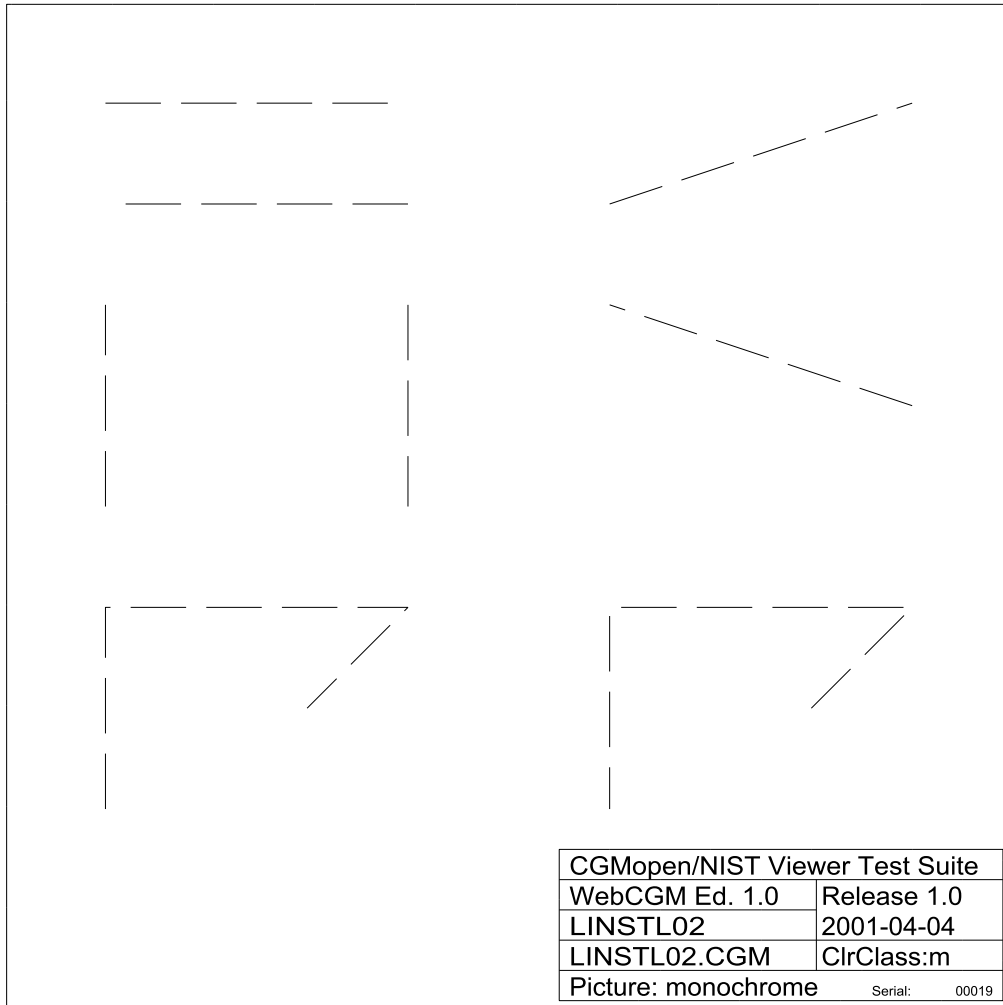


LINSTL01-PNG

Fig 162, Sheet 2 of 2 LINSTL01

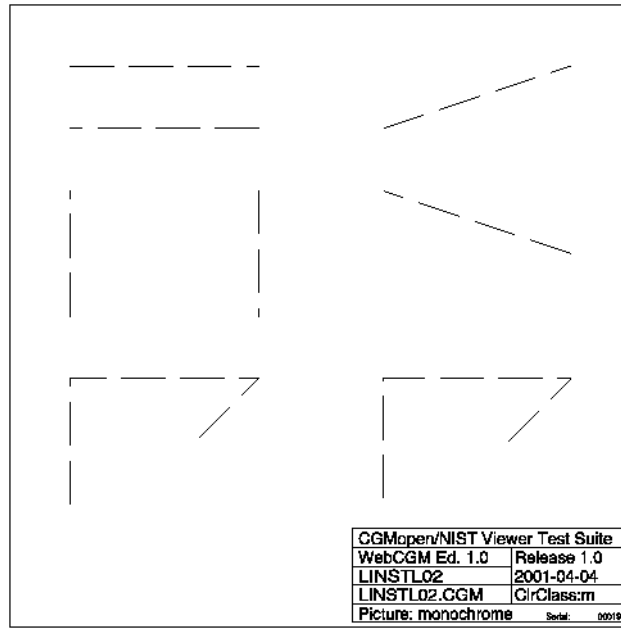


1.17.5 LINSTL02



LINSTL02-CGM

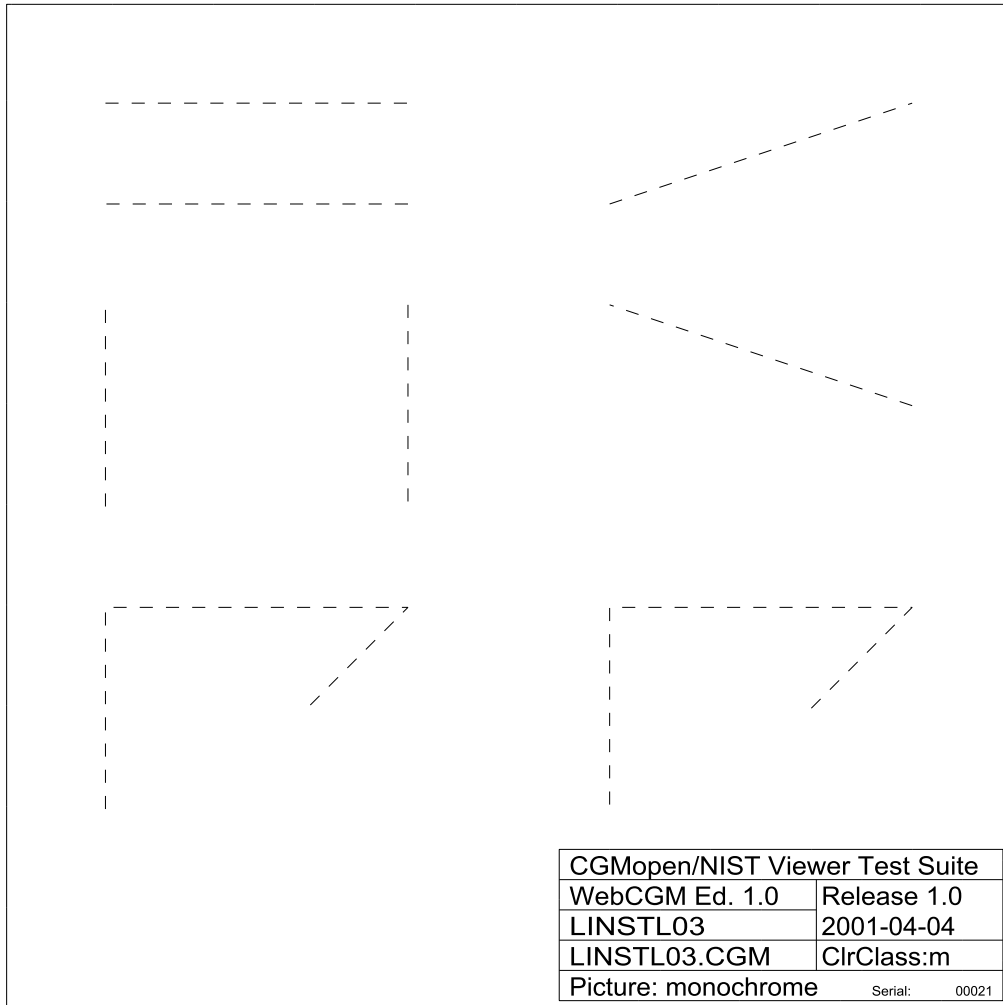
Fig 163, Sheet 1 of 2 LINSTL02



LINSTL02-PNG

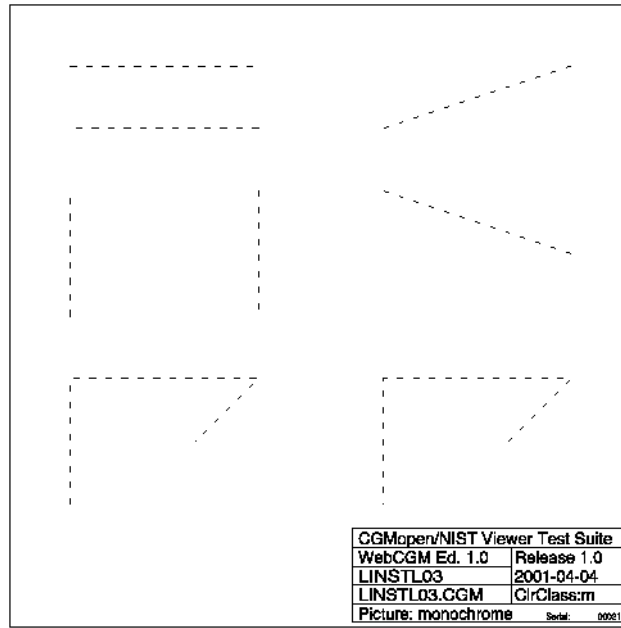
Fig 163, Sheet 2 of 2 LINSTL02

1.17.6 LINSTL03



LINSTL03-CGM

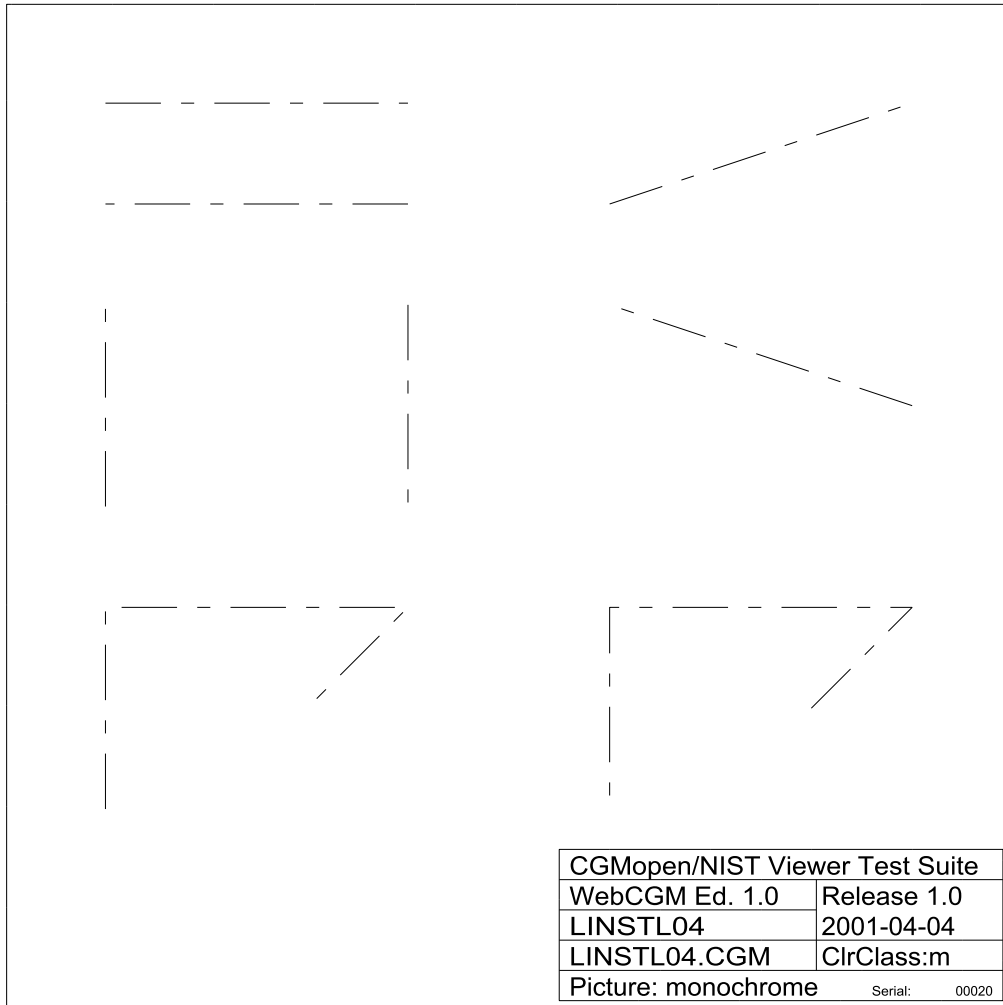
Fig 164, Sheet 1 of 2 LINSTL03



LINSTL03-PNG

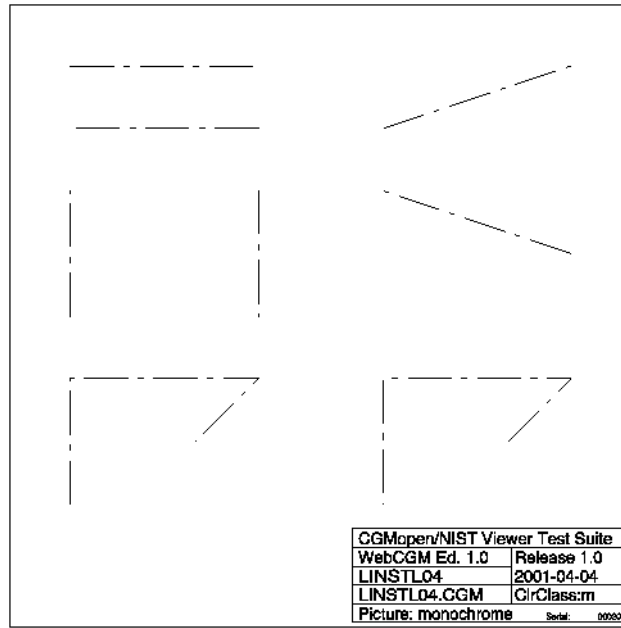
Fig 164, Sheet 2 of 2 LINSTL03

1.17.7 LINSTL04



LINSTL04-CGM

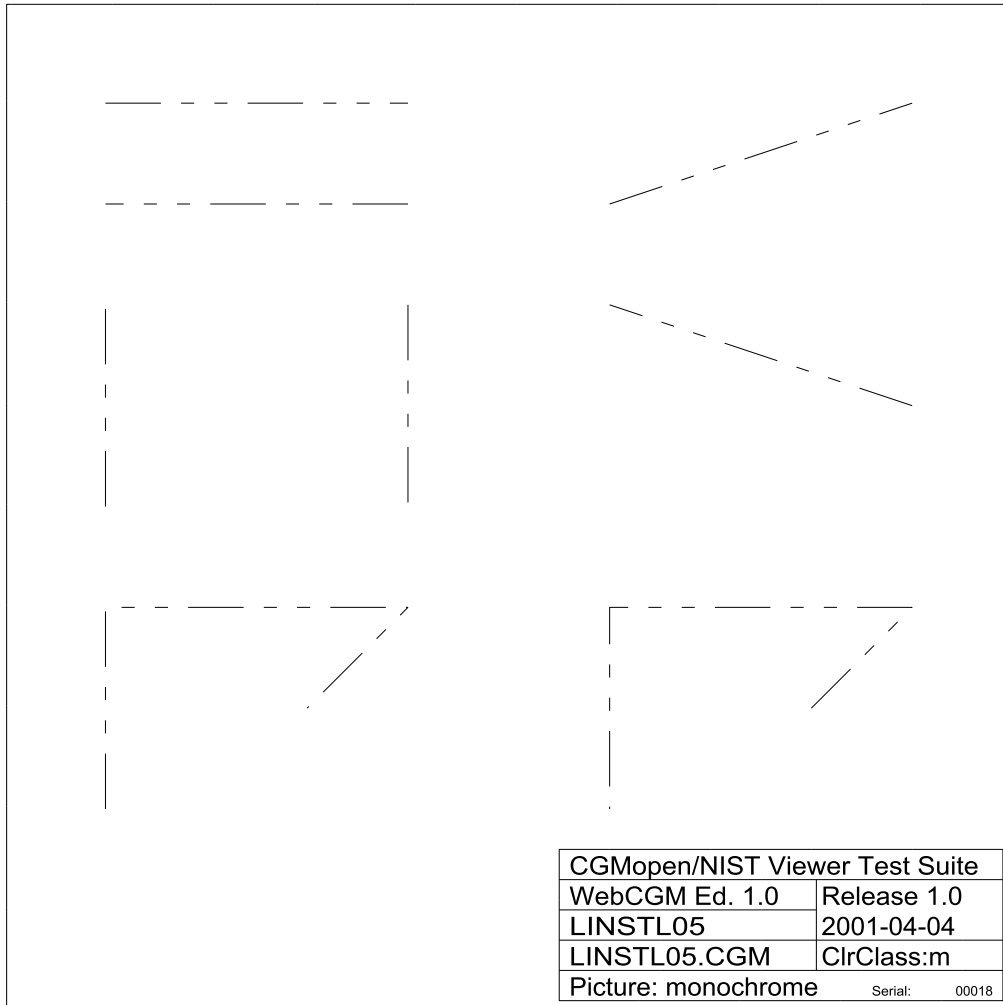
Fig 165, Sheet 1 of 2 LINSTL04



LINSTL04-PNG

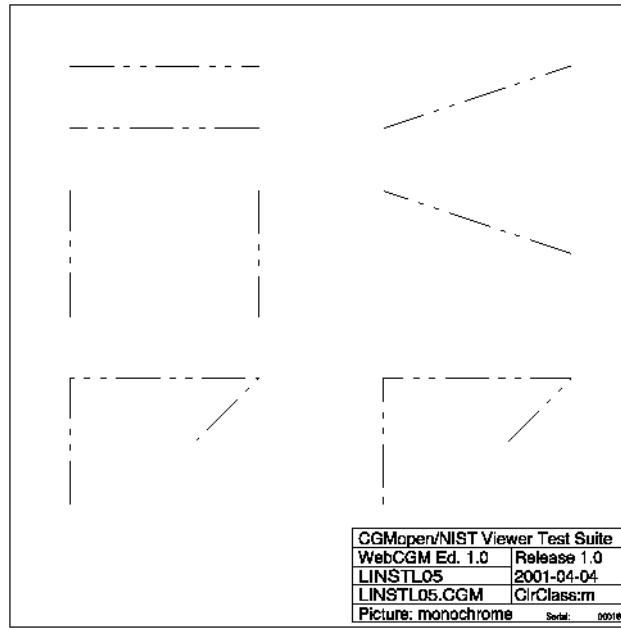
Fig 165, Sheet 2 of 2 LINSTL04

1.17.8 LINSTL05



LINSTL05-CGM

Fig 166, Sheet 1 of 2 LINSTL05

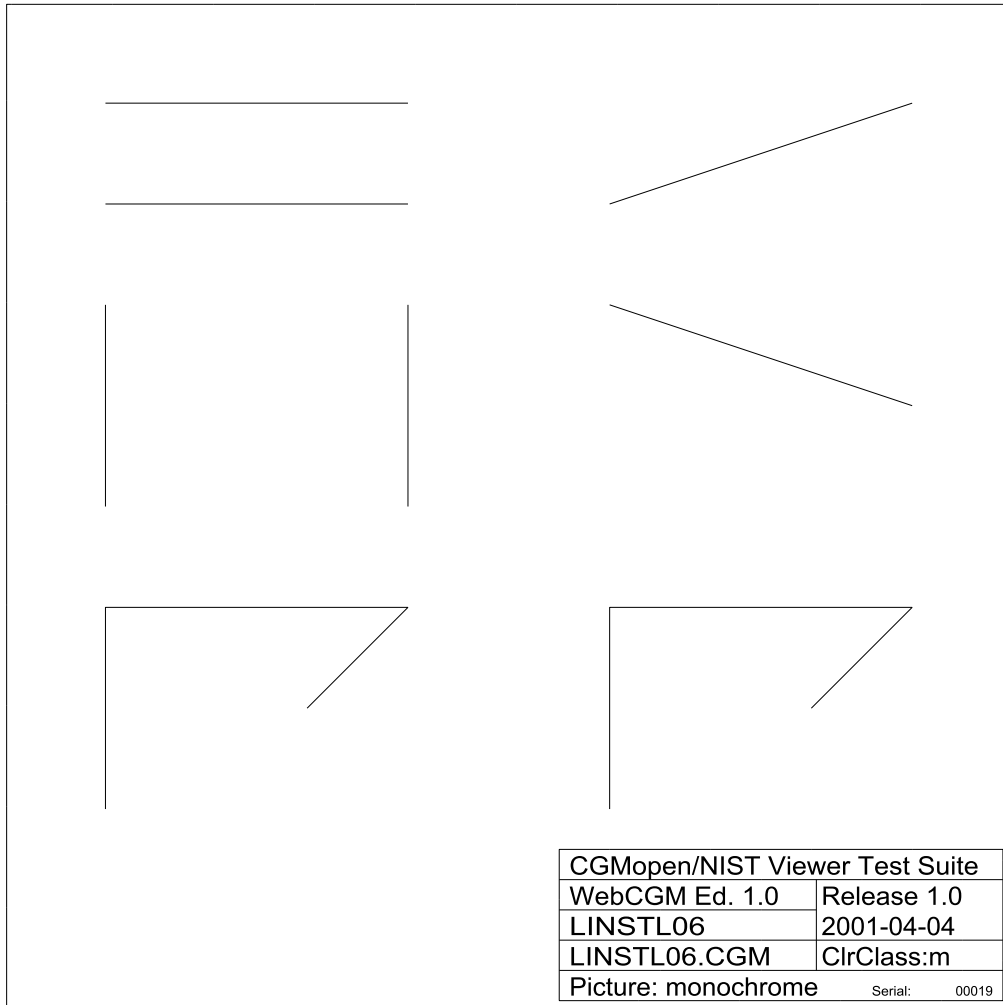


LINSTL05-PNG

Fig 166, Sheet 2 of 2 LINSTL05

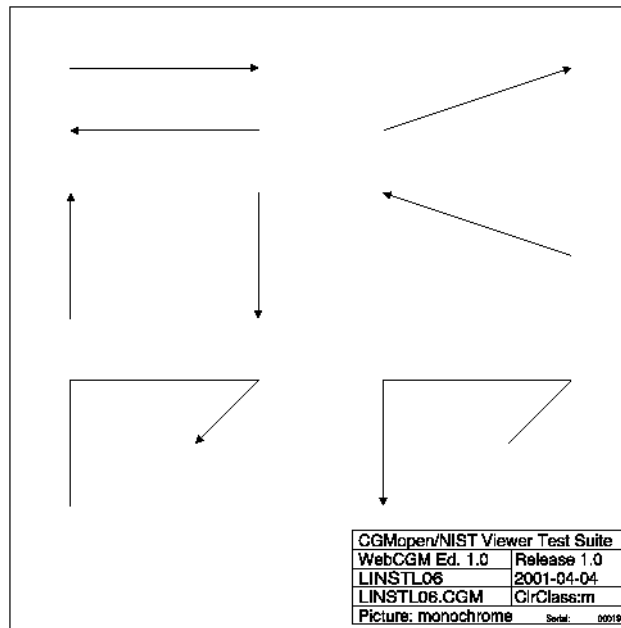


1.17.9 LINSTL06



LINSTL06-CGM

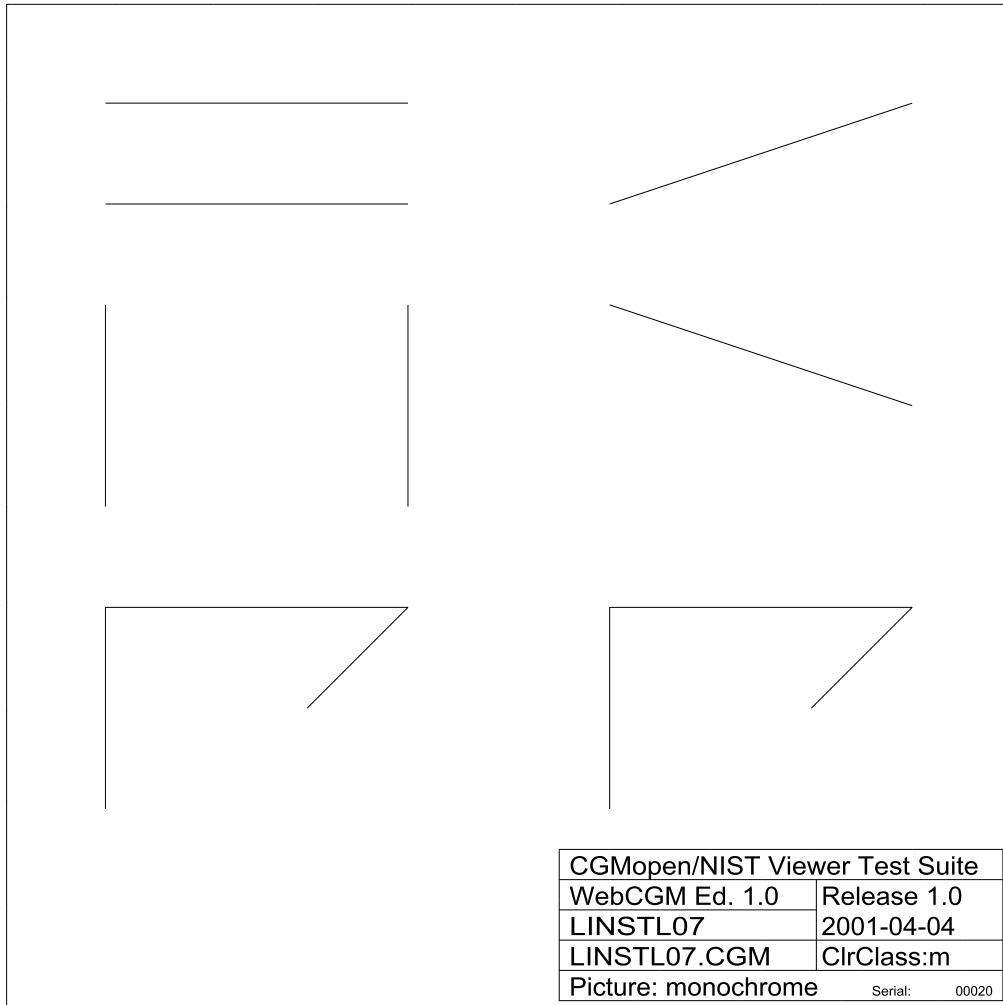
Fig 167, Sheet 1 of 2 LINSTL06



LINSTL06-PNG

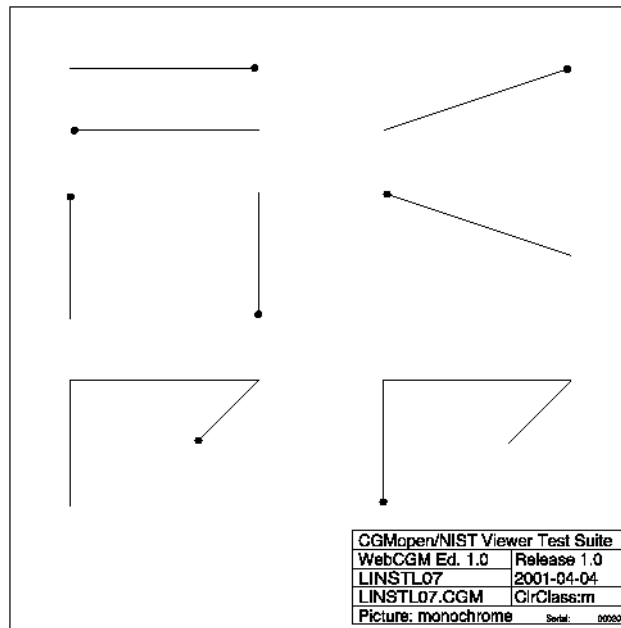
Fig 167, Sheet 2 of 2 LINSTL06

1.17.10 LINSTL07



LINSTL07-CGM

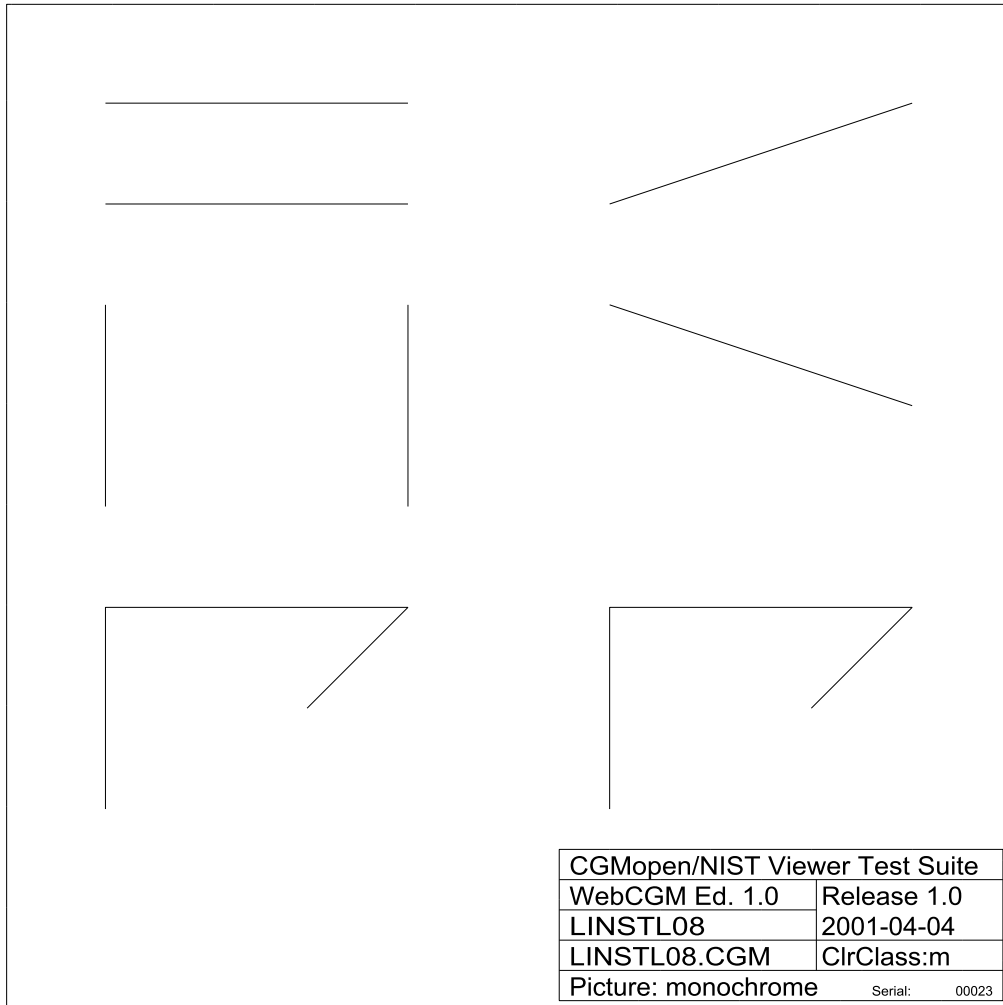
Fig 168, Sheet 1 of 2 LINSTL07



LINSTL07-PNG

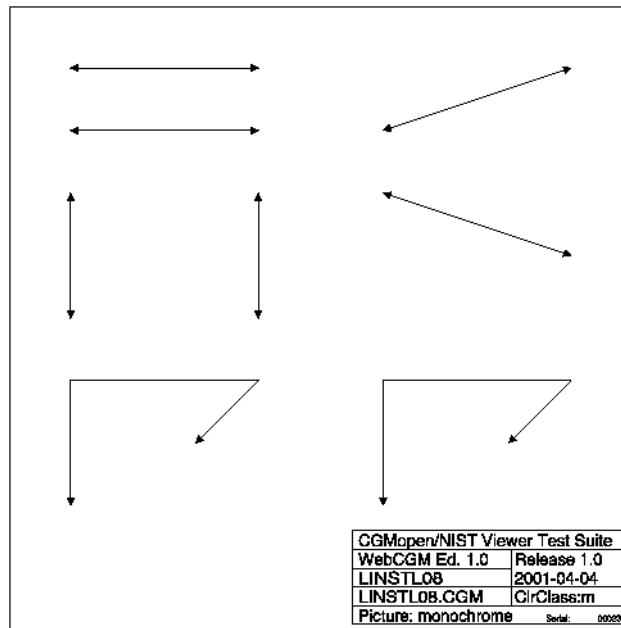
Fig 168, Sheet 2 of 2 LINSTL07

1.17.11 LINSTL08



LINSTL08-CGM

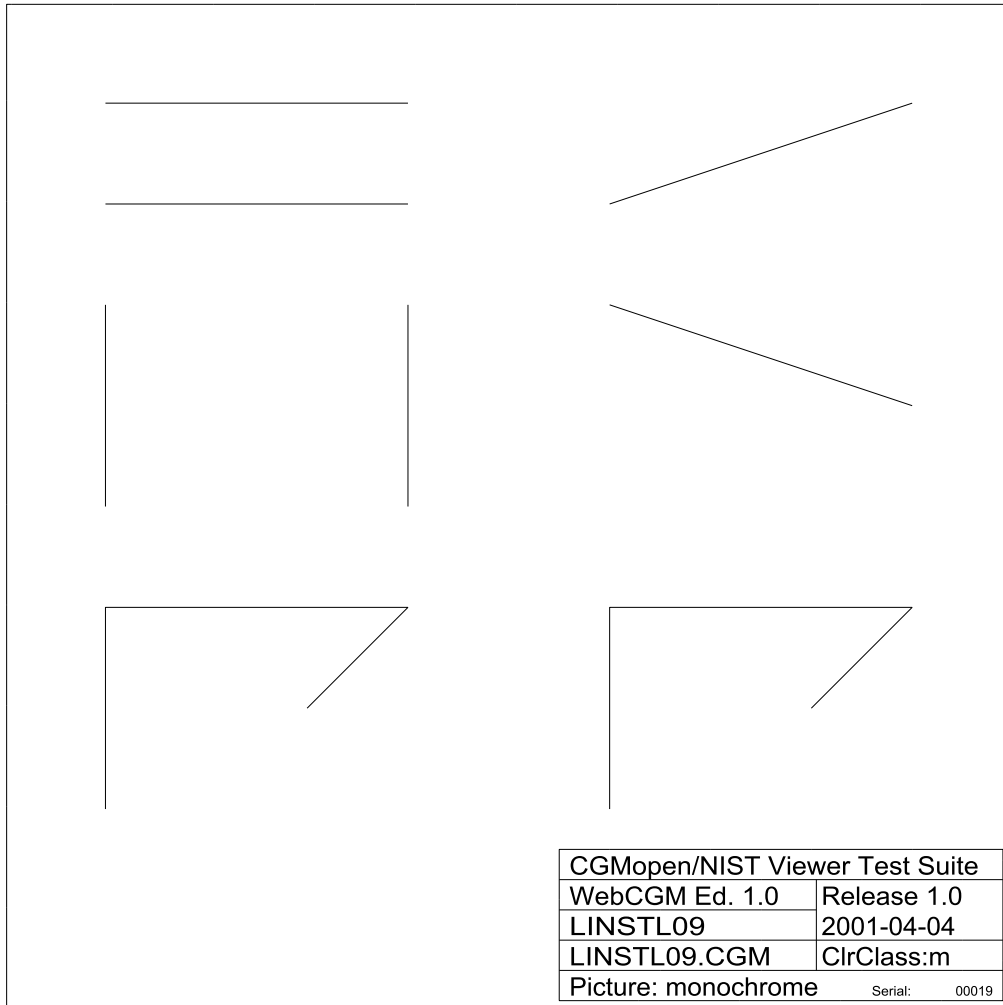
Fig 169, Sheet 1 of 2 LINSTL08



LINSTL08-PNG

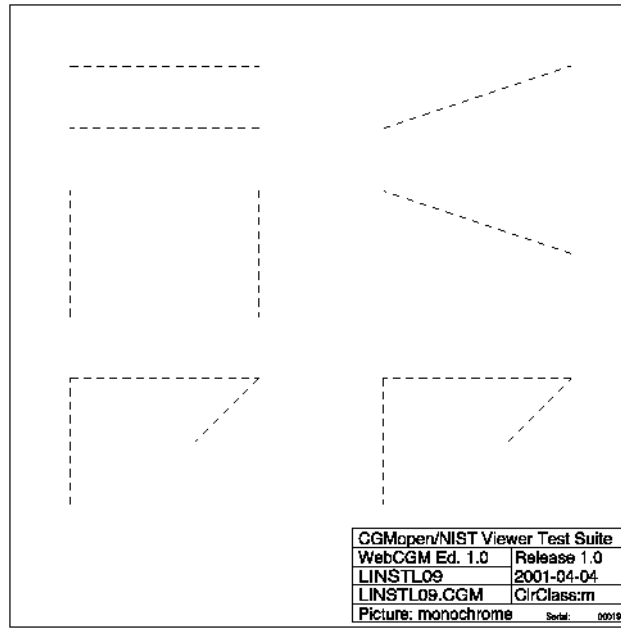
Fig 169, Sheet 2 of 2 LINSTL08

1.17.12 LINSTL09



LINSTL09-CGM

Fig 170, Sheet 1 of 2 LINSTL09

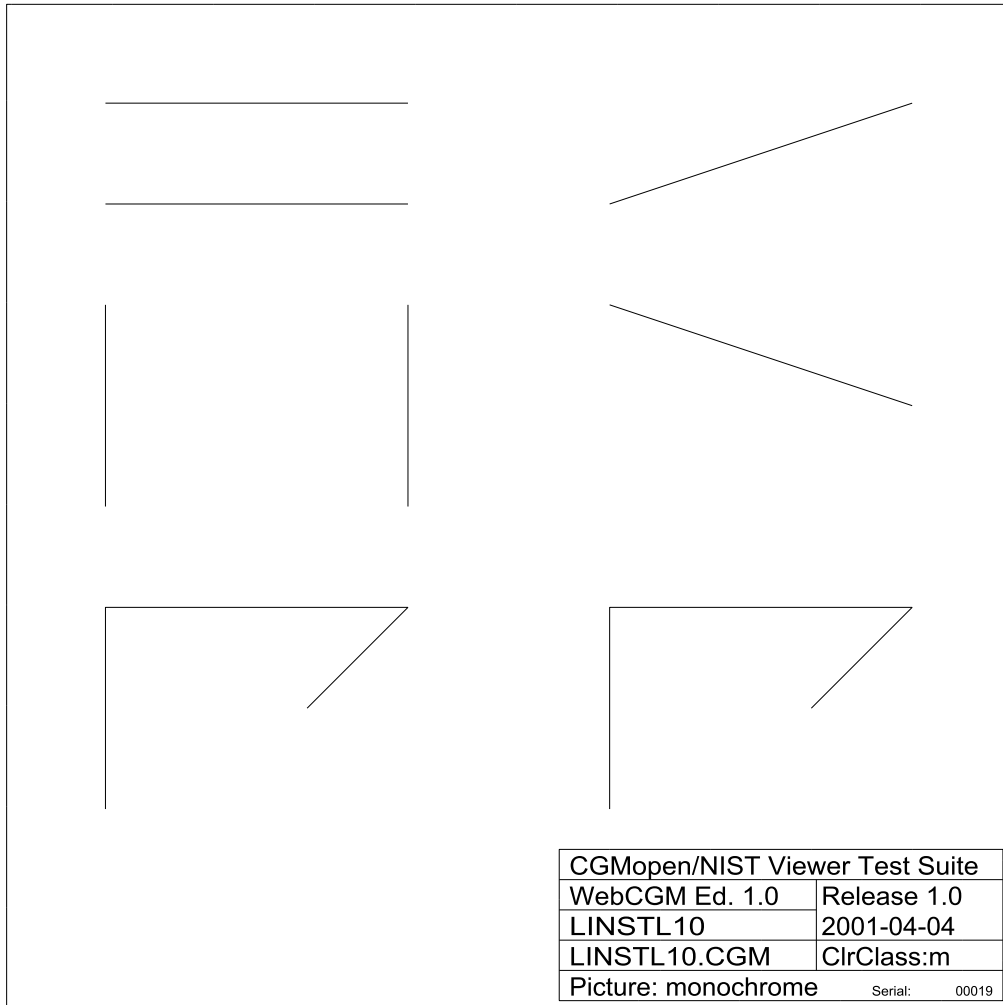


LINSTL09-PNG

Fig 170, Sheet 2 of 2 LINSTL09

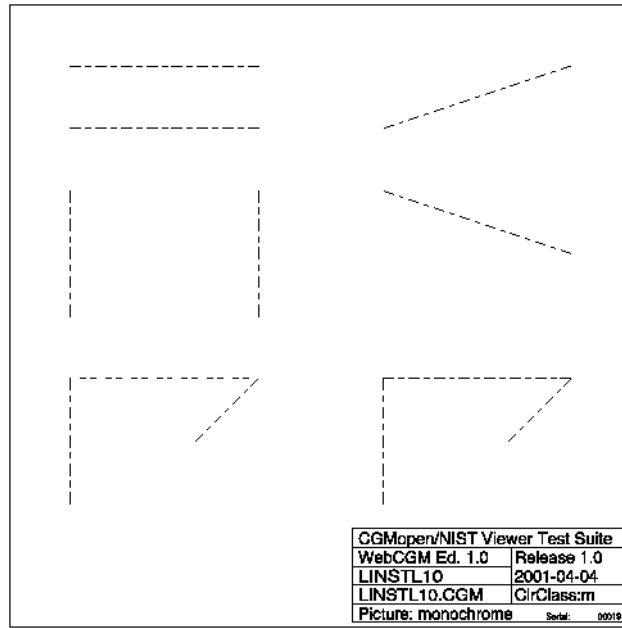


1.17.13 LINSTL10



LINSTL10-CGM

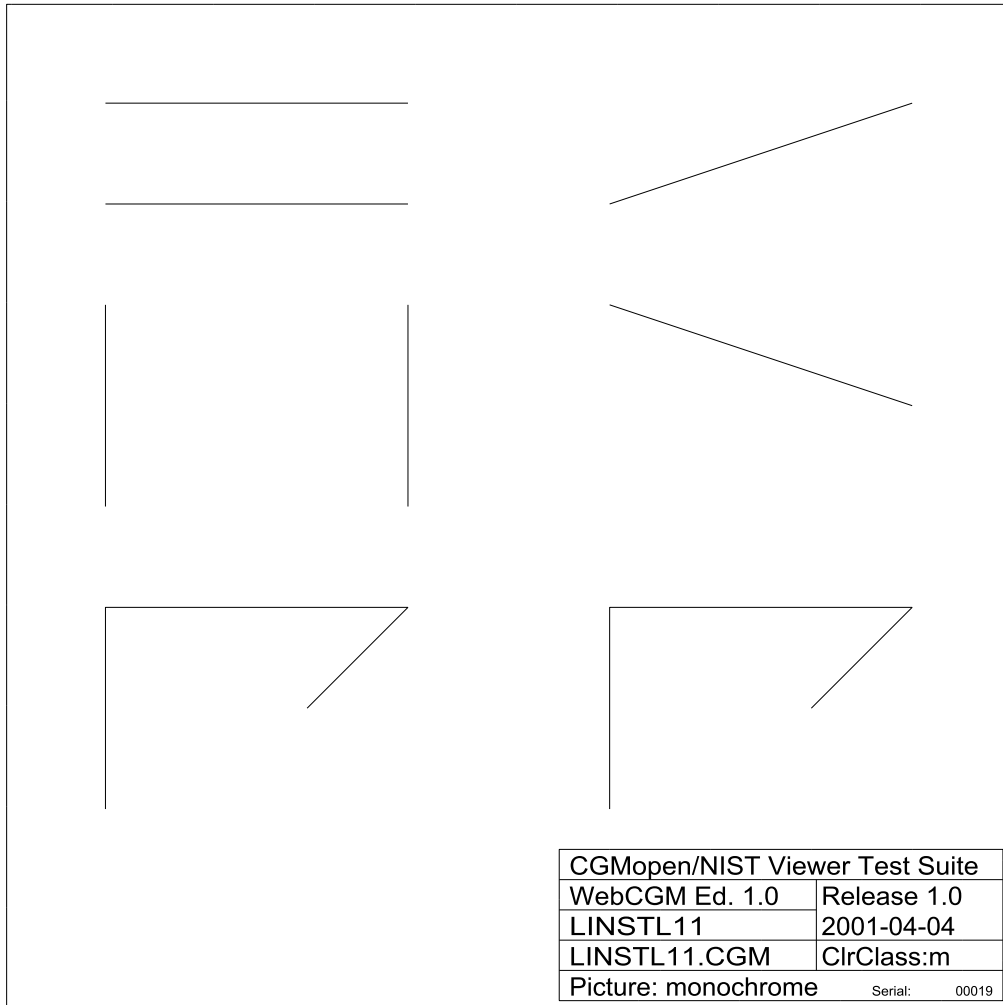
Fig 171, Sheet 1 of 2 LINSTL10



LINSTL10-PNG

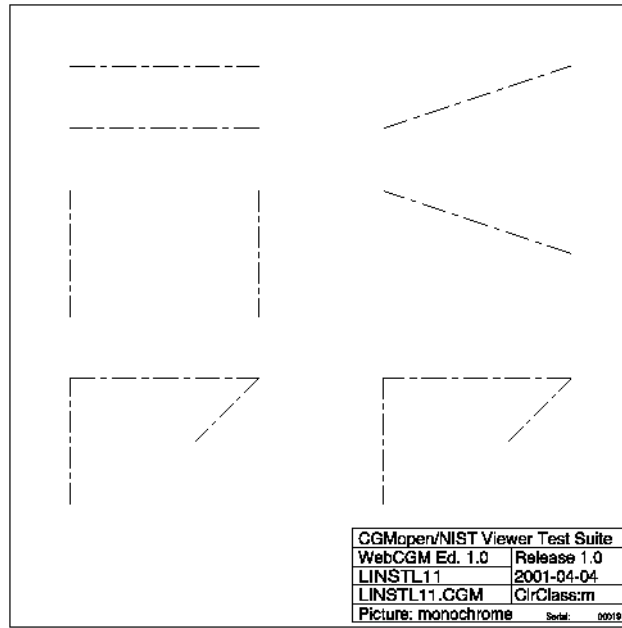
Fig 171, Sheet 2 of 2 LINSTL10

1.17.14 LINSTL11



LINSTL11-CGM

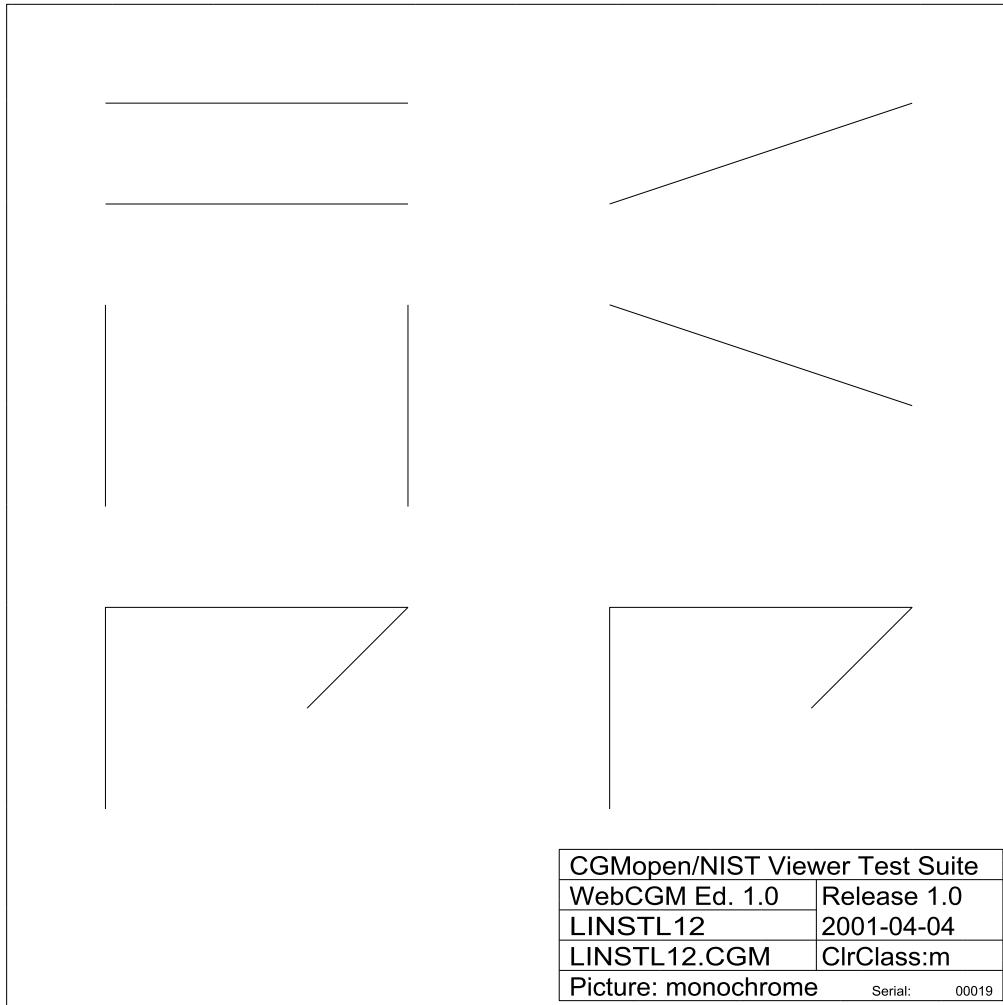
Fig 172, Sheet 1 of 2 LINSTL11



LINSTL11-PNG

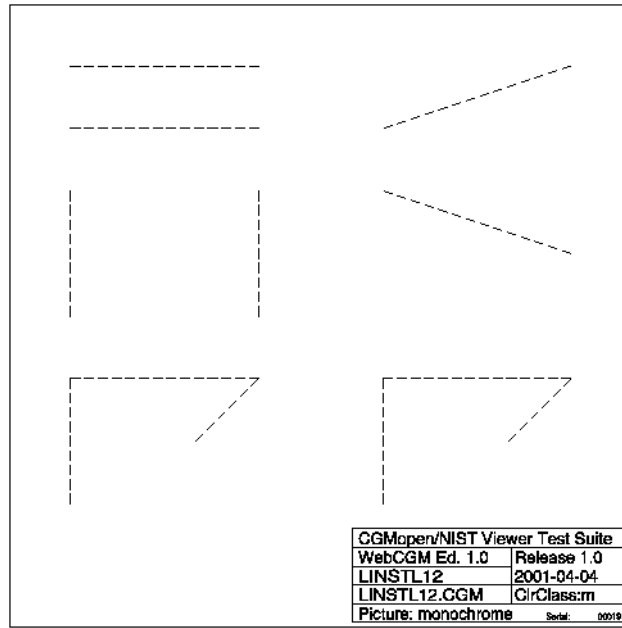
Fig 172, Sheet 2 of 2 LINSTL11

1.17.15 LINSTL12



LINSTL12-CGM

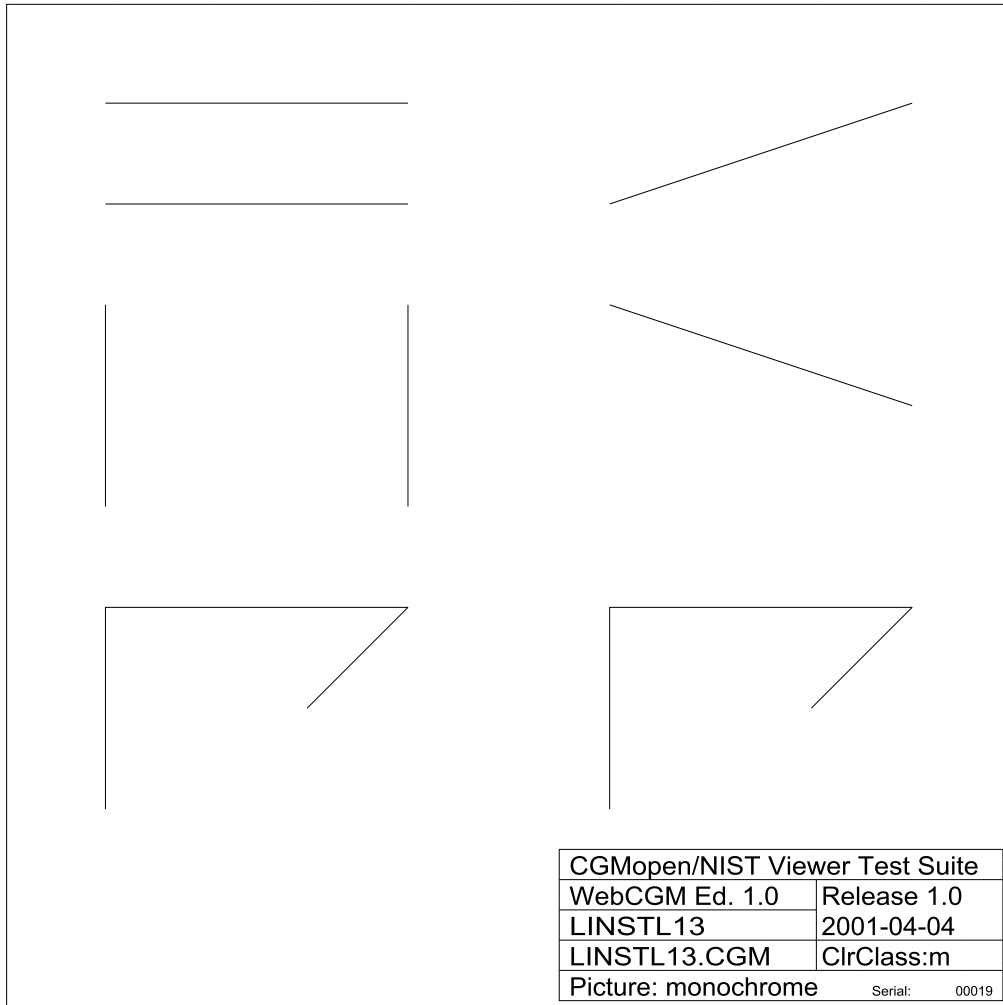
Fig 173, Sheet 1 of 2 LINSTL12



LINSTL12-PNG

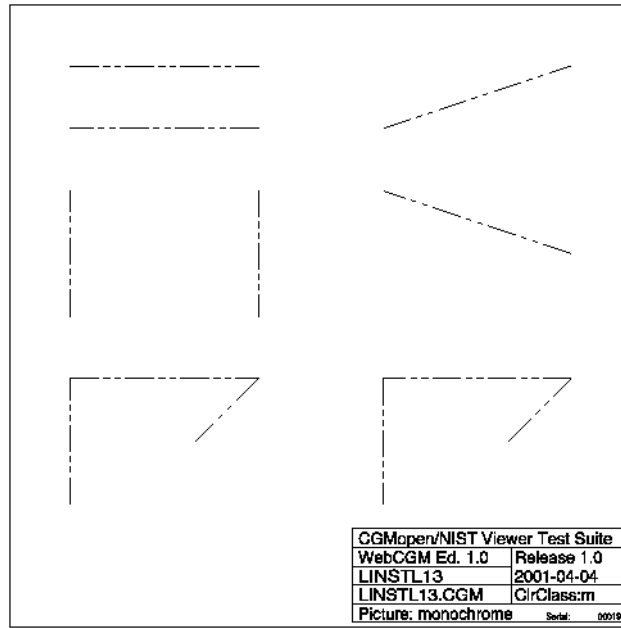
Fig 173, Sheet 2 of 2 LINSTL12

1.17.16 LINSTL13



LINSTL13-CGM

Fig 174, Sheet 1 of 2 LINSTL13

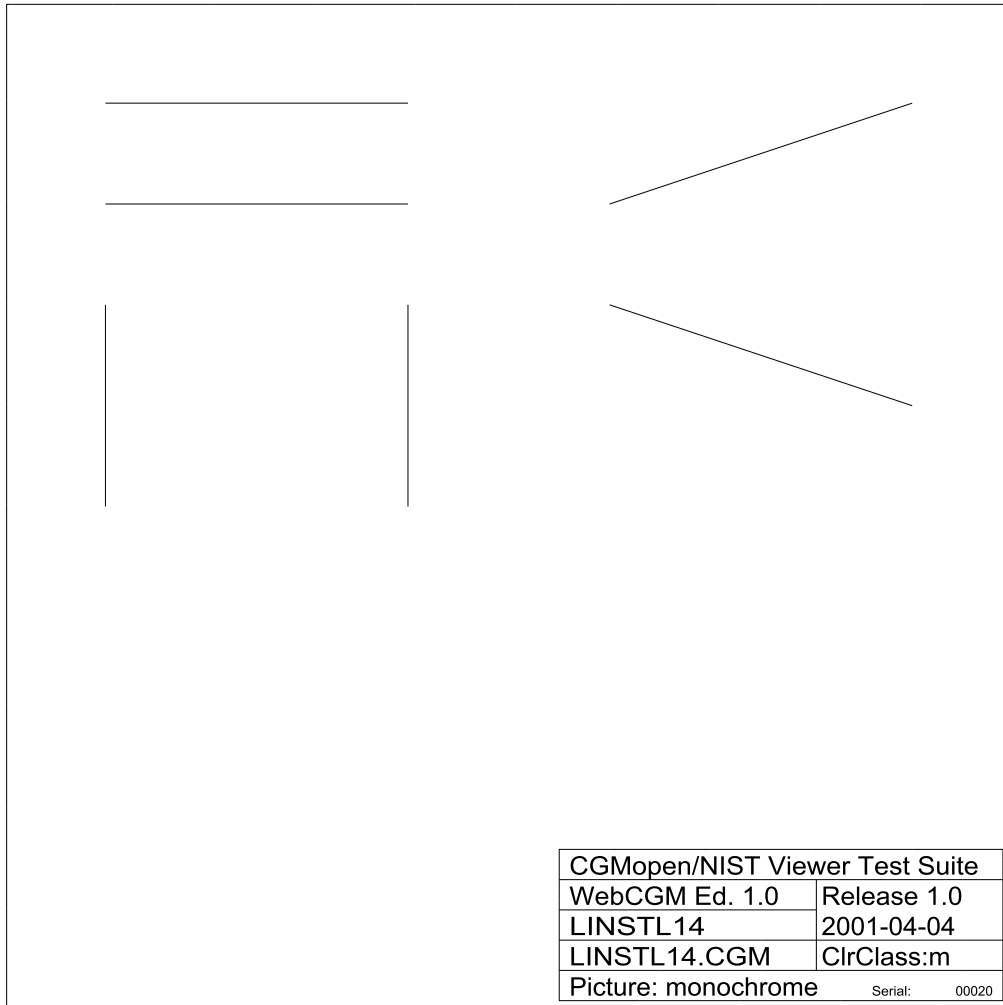


LINSTL13-PNG

Fig 174, Sheet 2 of 2 LINSTL13

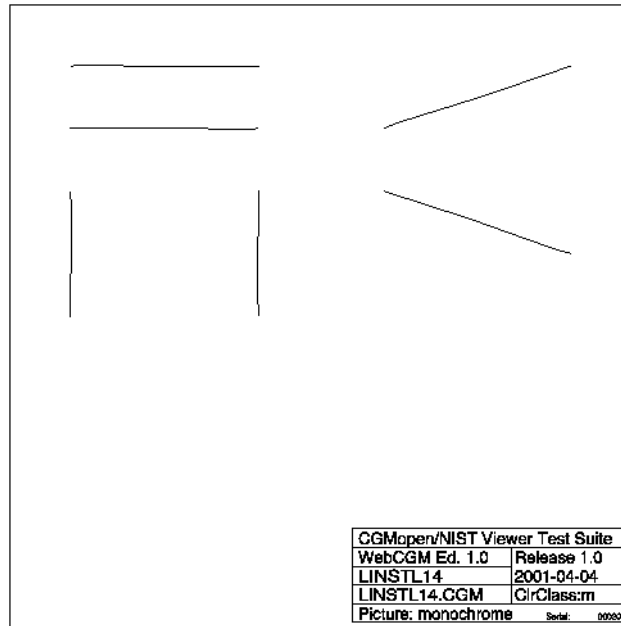


1.17.17 LINSTL14



LINSTL14-CGM

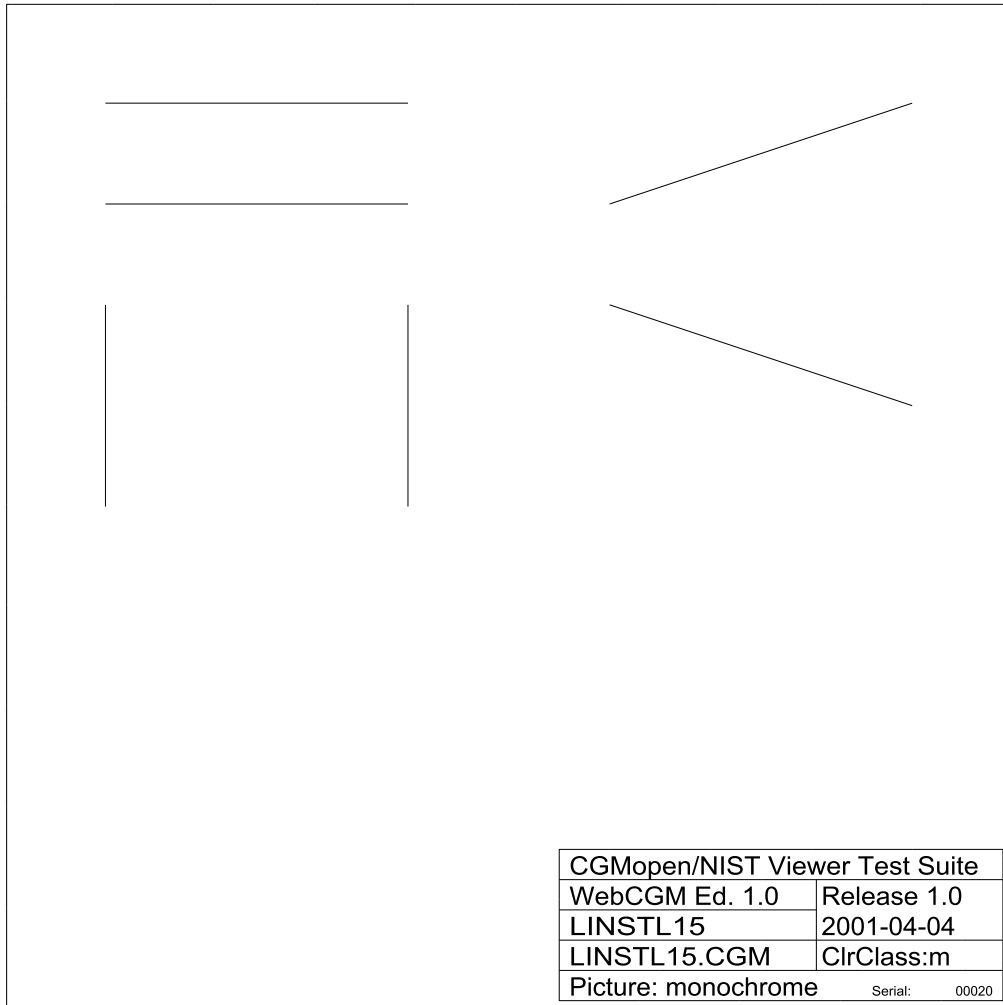
Fig 175, Sheet 1 of 2 LINSTL14



LINSTL14-PNG

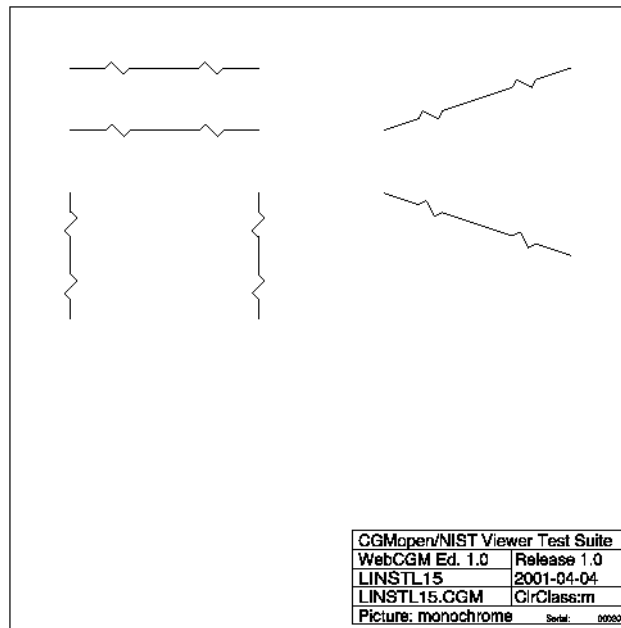
Fig 175, Sheet 2 of 2 LINSTL14

1.17.18 LINSTL15



LINSTL15-CGM

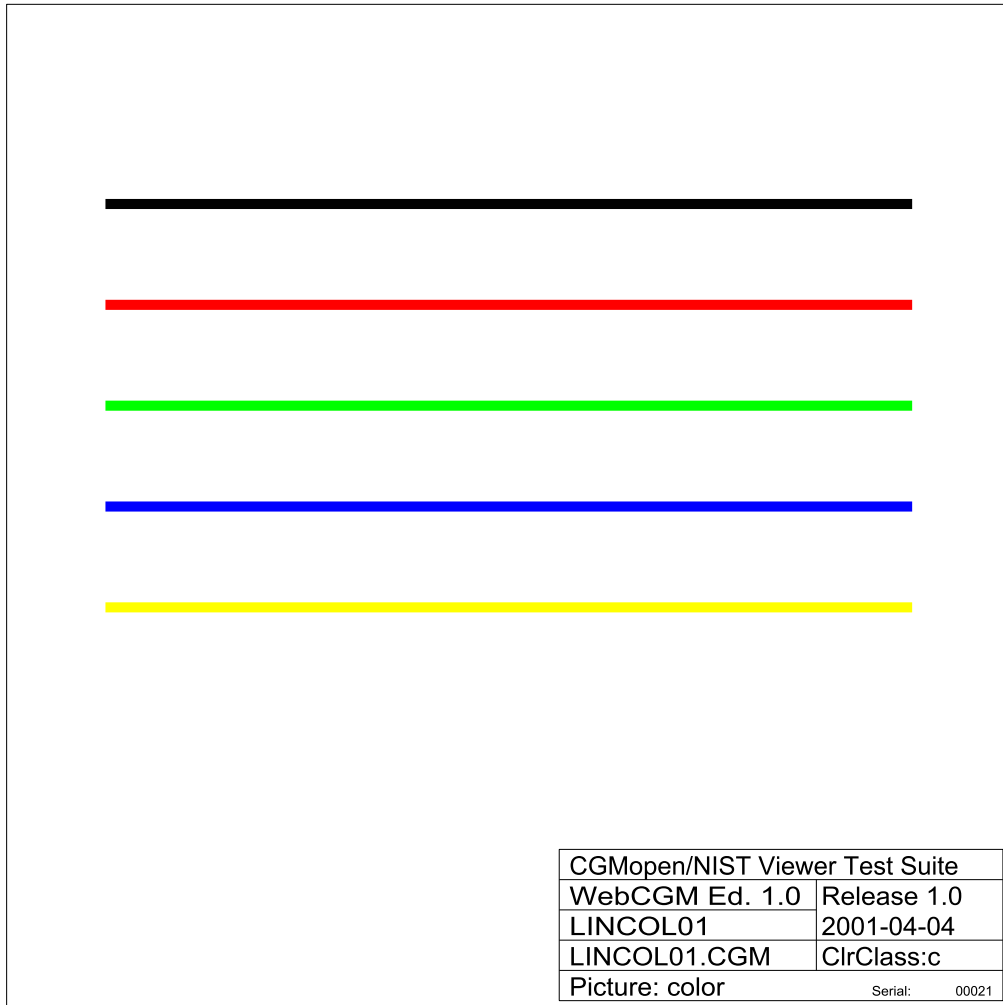
Fig 176, Sheet 1 of 2 LINSTL15



LINSTL15-PNG

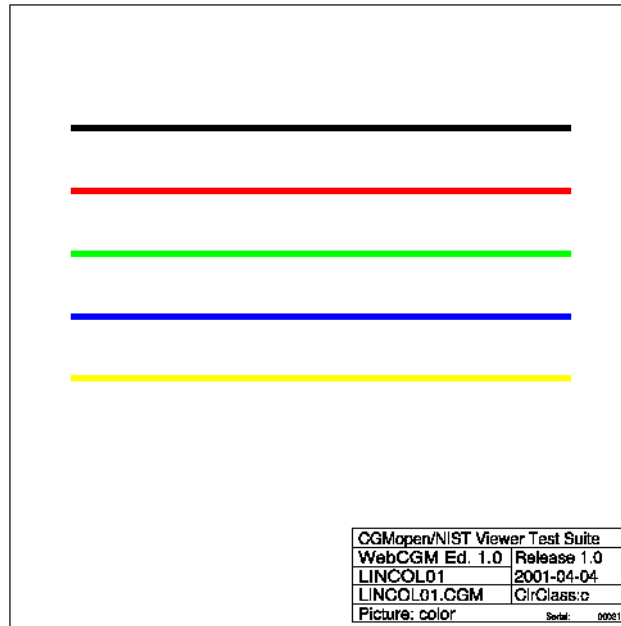
Fig 176, Sheet 2 of 2 LINSTL15

1.17.19 LINC0L01



LINC0L01-CGM

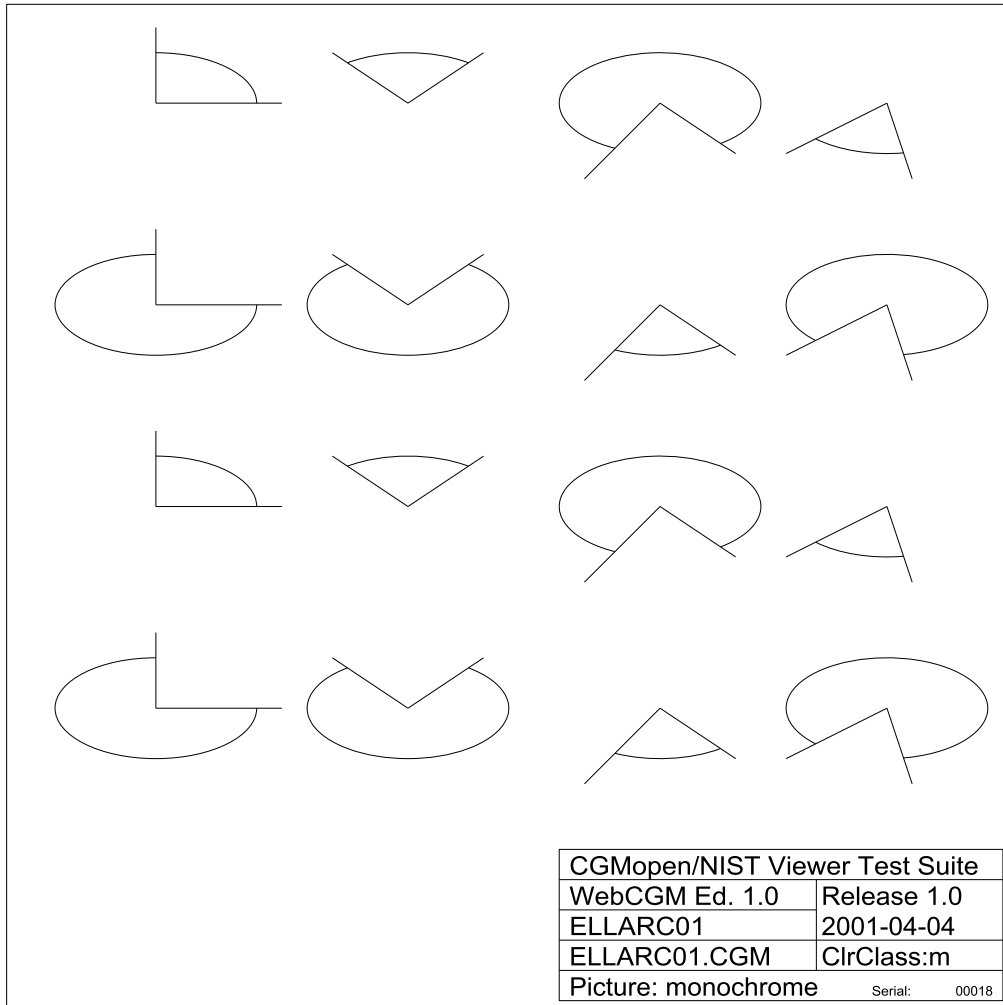
Fig 177, Sheet 1 of 2 LINC0L01



LINCOL01-PNG

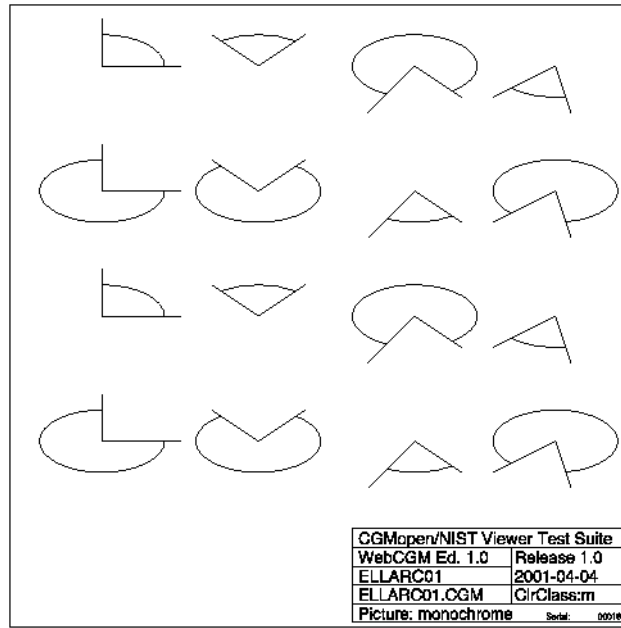
Fig 177, Sheet 2 of 2 LINCOL01

1.17.20 ELLARC01



ELLARC01-CGM

Fig 178, Sheet 1 of 2 ELLARC01

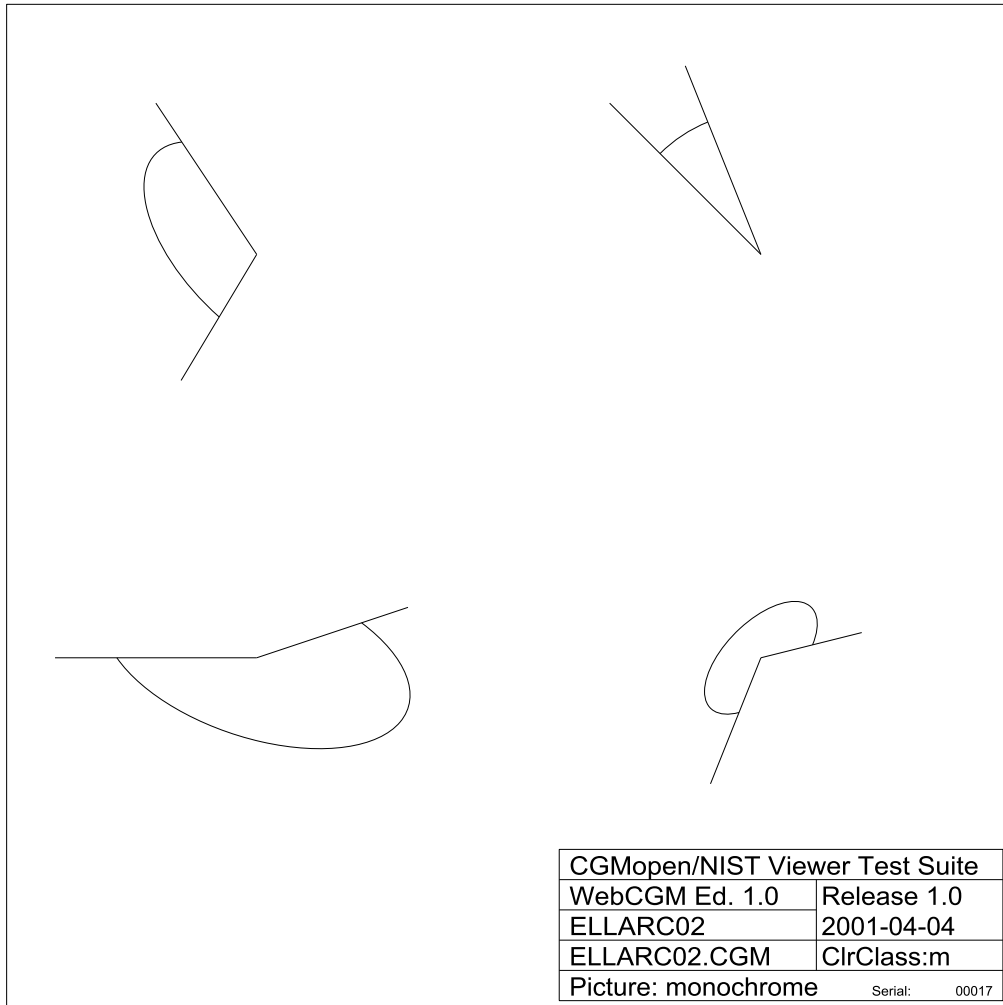


ELLARC01-PNG

Fig 178, Sheet 2 of 2 ELLARC01

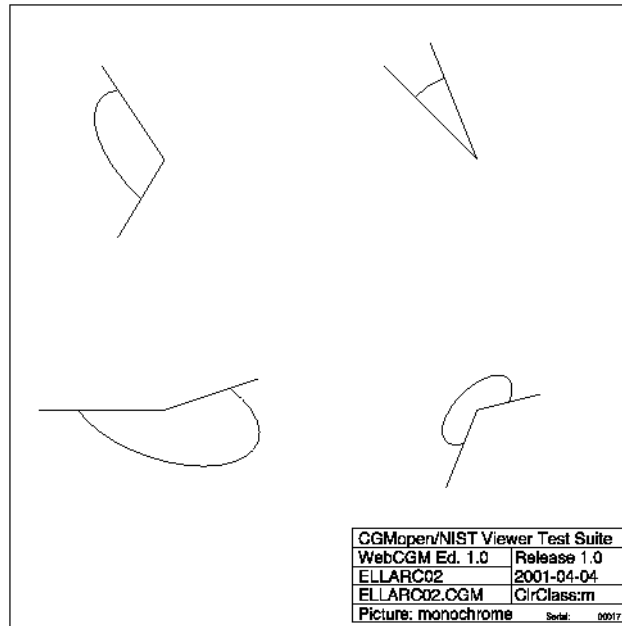


1.17.21 ELLARC02



ELLARC02-CGM

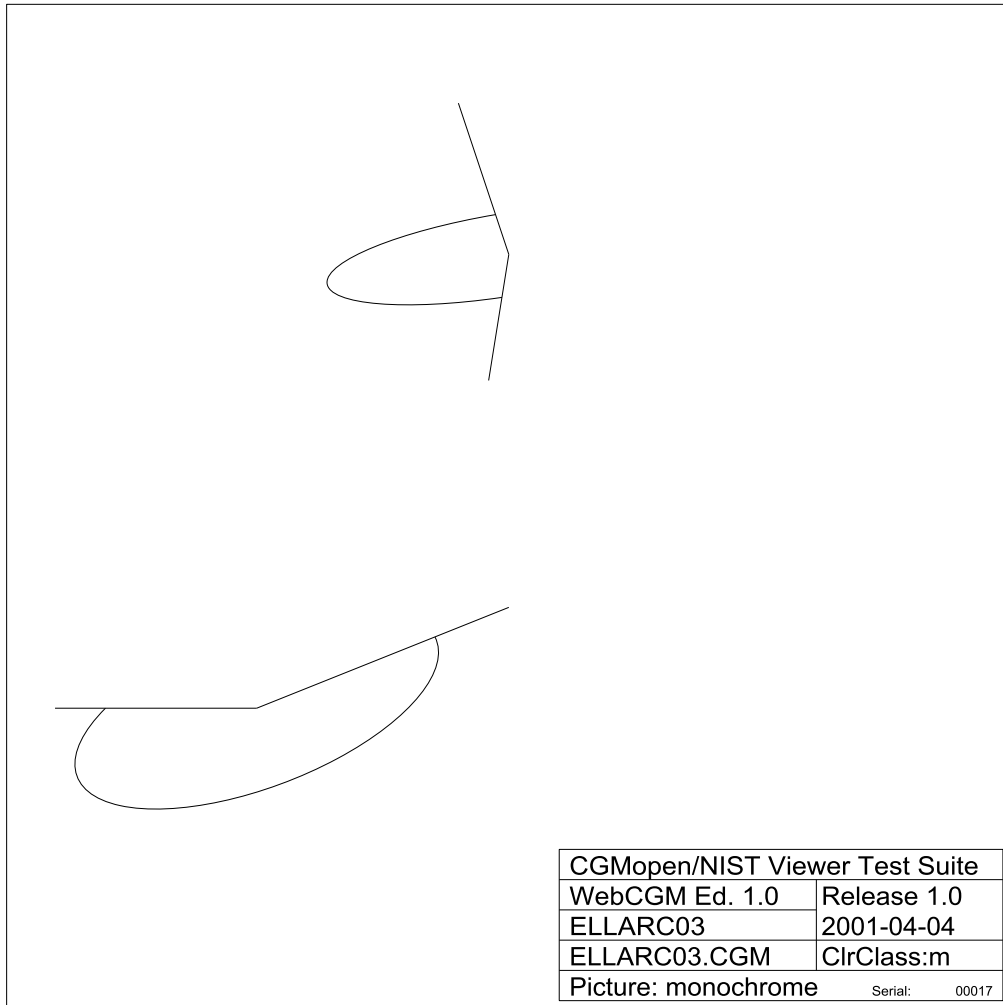
Fig 179, Sheet 1 of 2 ELLARC02



ELLARC02-PNG

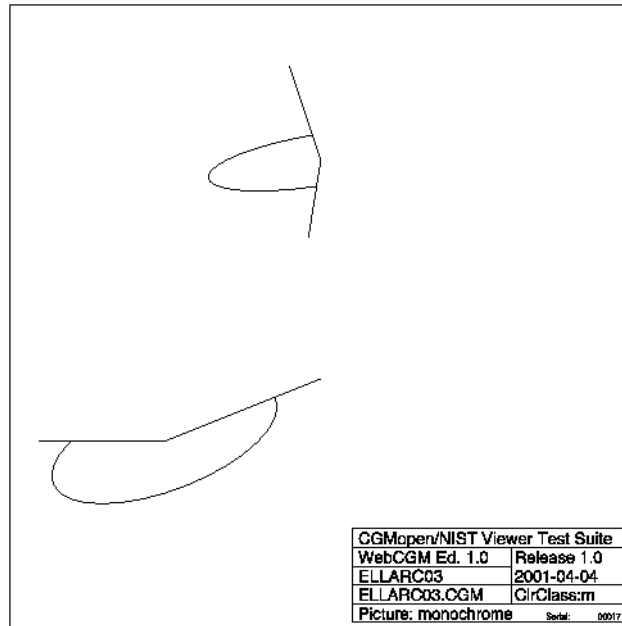
Fig 179, Sheet 2 of 2 ELLARC02

1.17.22 ELLARC03



ELLARC03-CGM

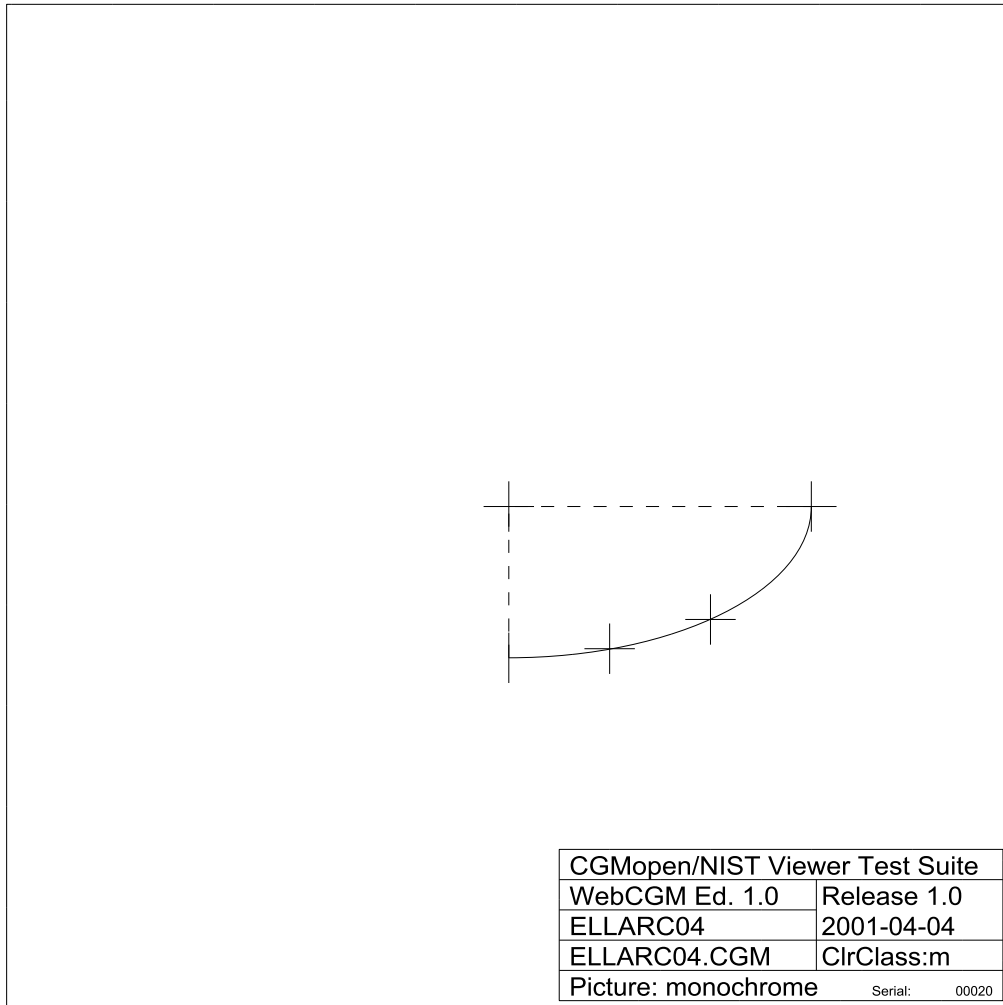
Fig 180, Sheet 1 of 2 ELLARC03



ELLARC03-PNG

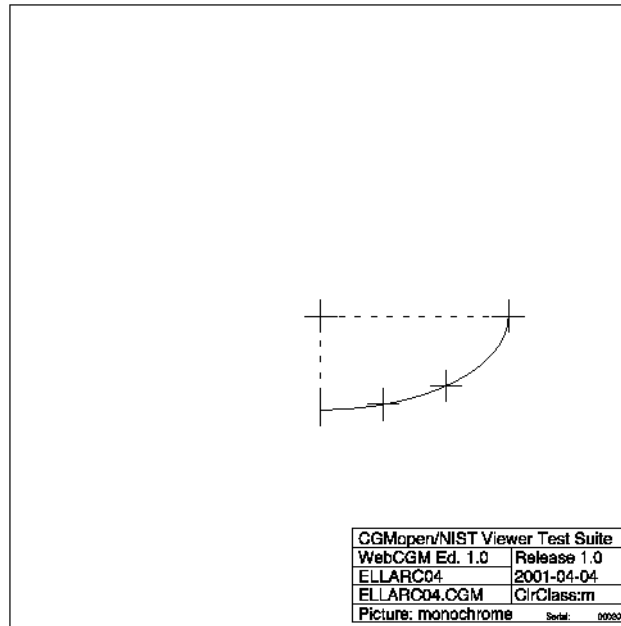
Fig 180, Sheet 2 of 2 ELLARC03

1.17.23 ELLARC04



ELLARC04-CGM

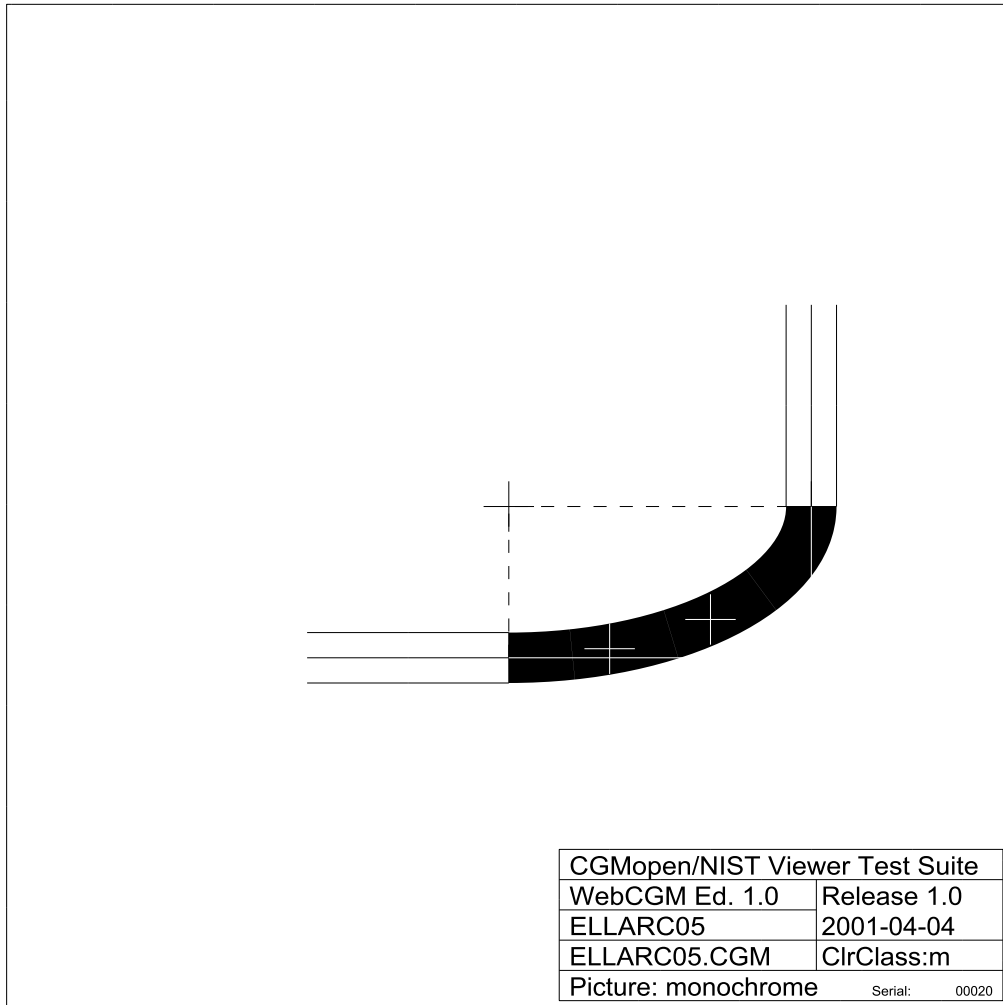
Fig 181, Sheet 1 of 2 ELLARC04



ELLARC04-PNG

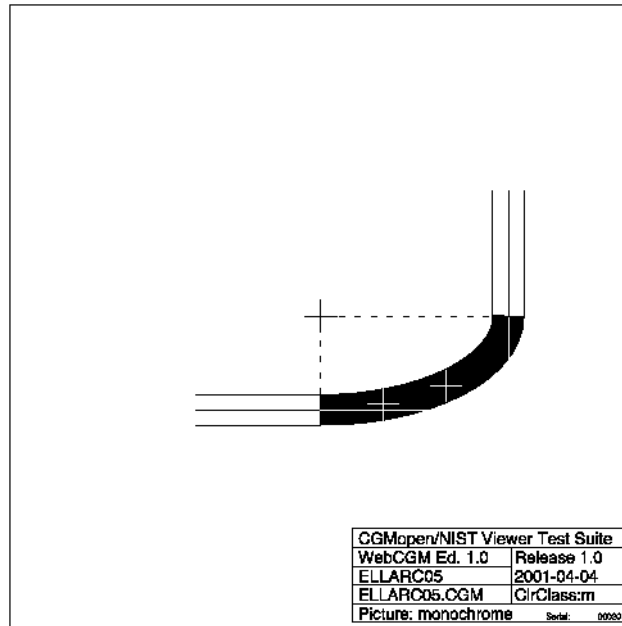
Fig 181, Sheet 2 of 2 ELLARC04

1.17.24 ELLARC05



ELLARC05-CGM

Fig 182, Sheet 1 of 2 ELLARC05

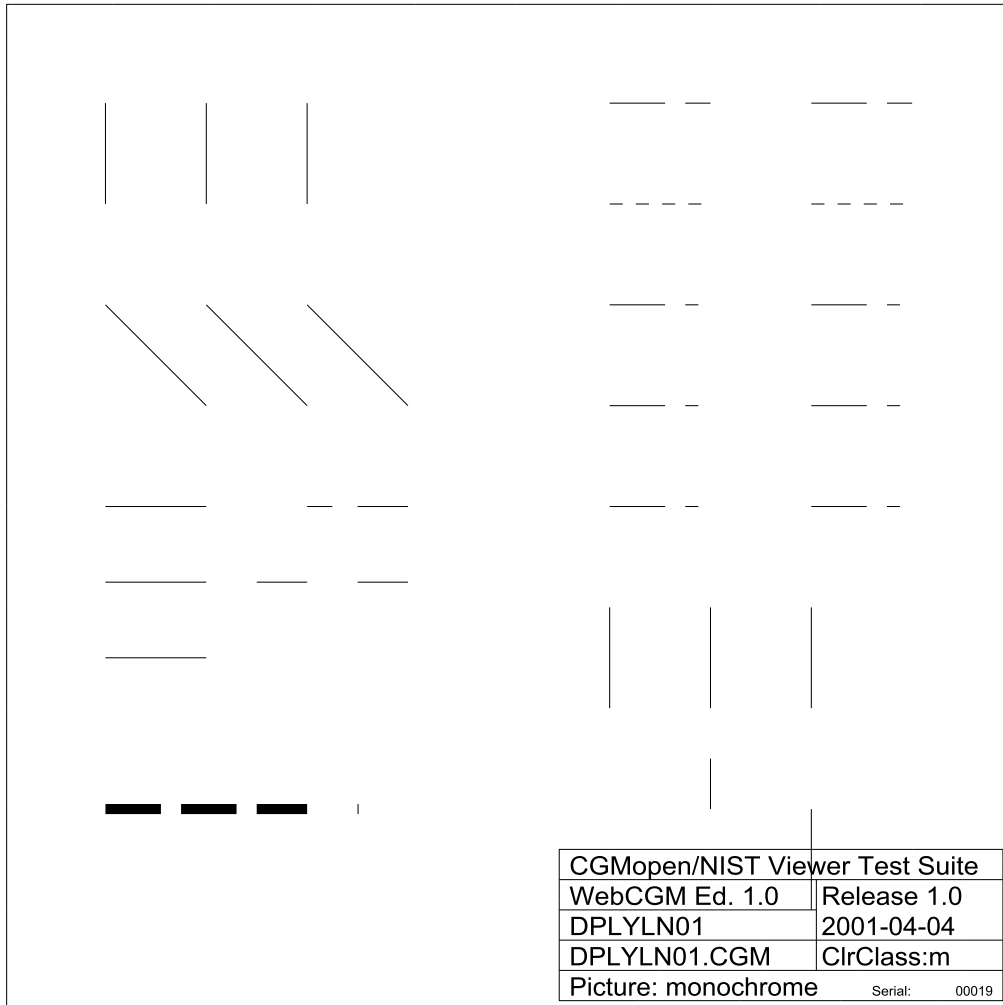


ELLARC05-PNG

Fig 182, Sheet 2 of 2 ELLARC05

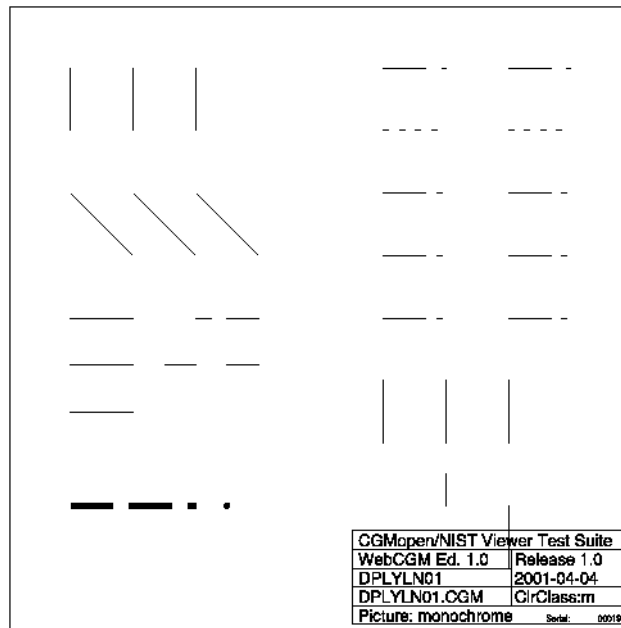


1.17.25 DPLYLN01



DPLYLN01-CGM

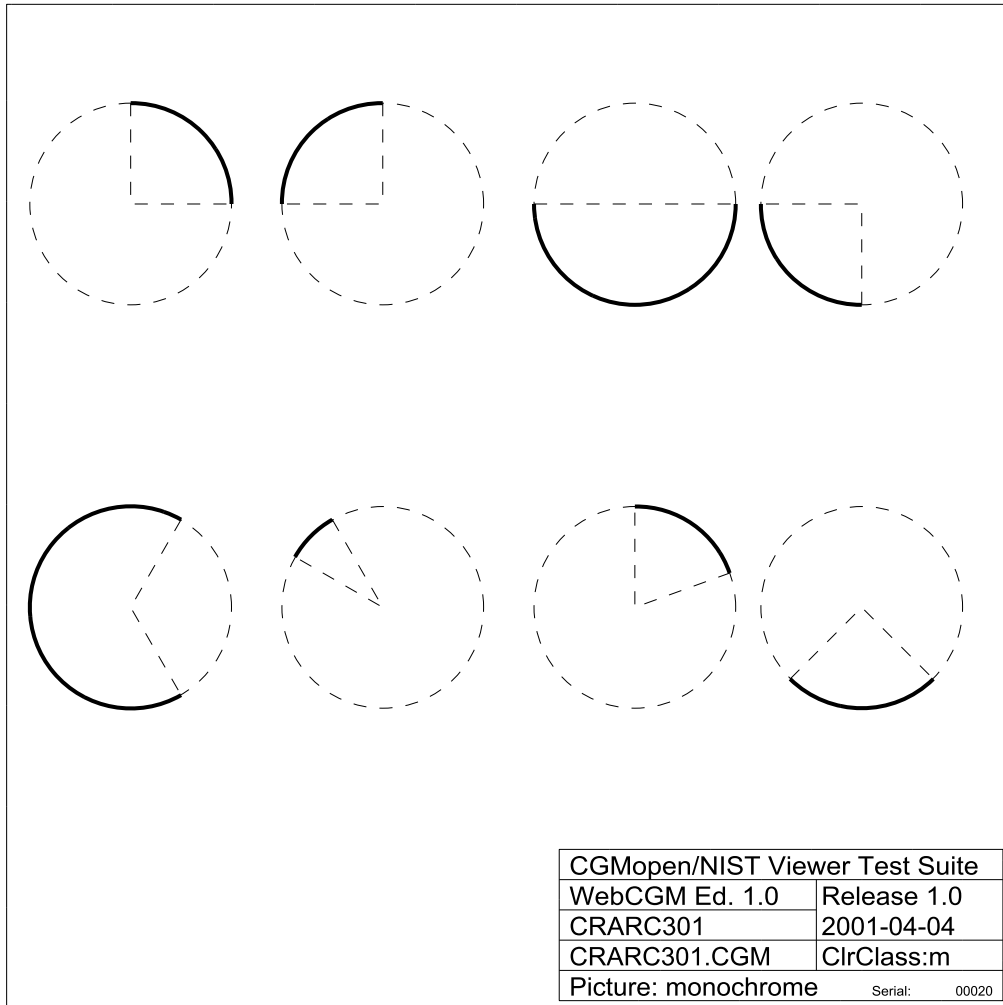
Fig 183, Sheet 1 of 2 DPLYLN01



DPLYLN01-PNG

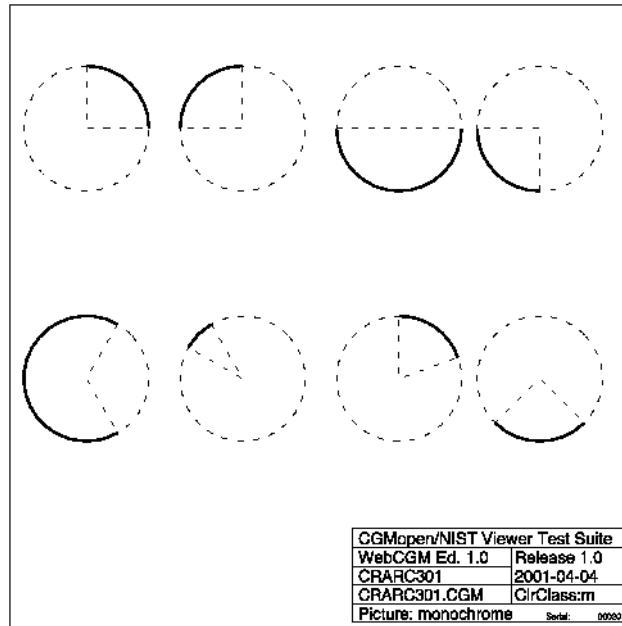
Fig 183, Sheet 2 of 2 DPLYLN01

1.17.26 CRARC301



CRARC301-CGM

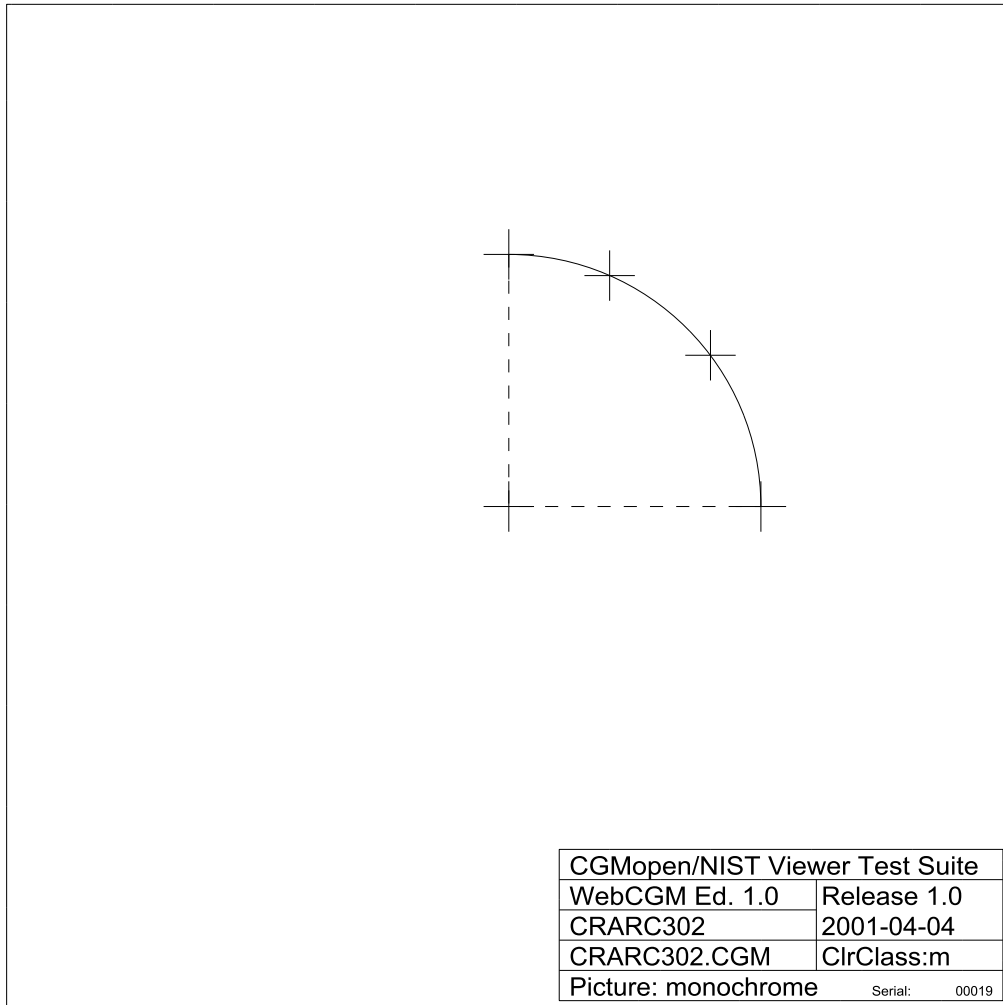
Fig 184, Sheet 1 of 2 CRARC301



CRARC301-PNG

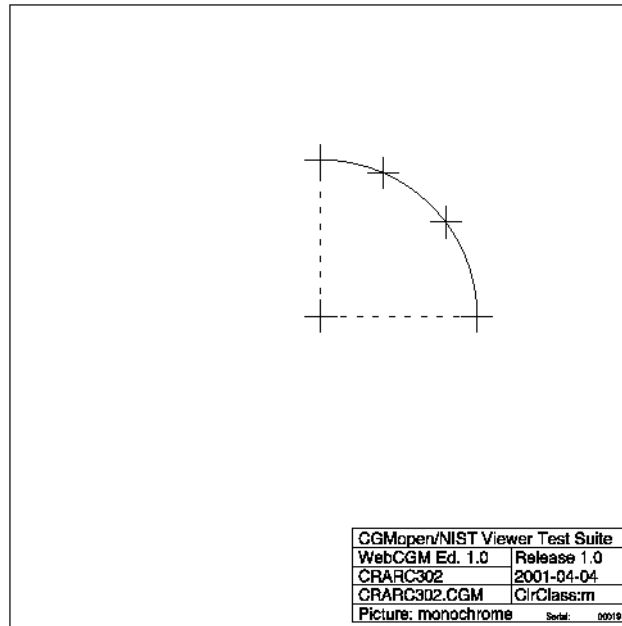
Fig 184, Sheet 2 of 2 CRARC301

1.17.27 CRARC302



CRARC302-CGM

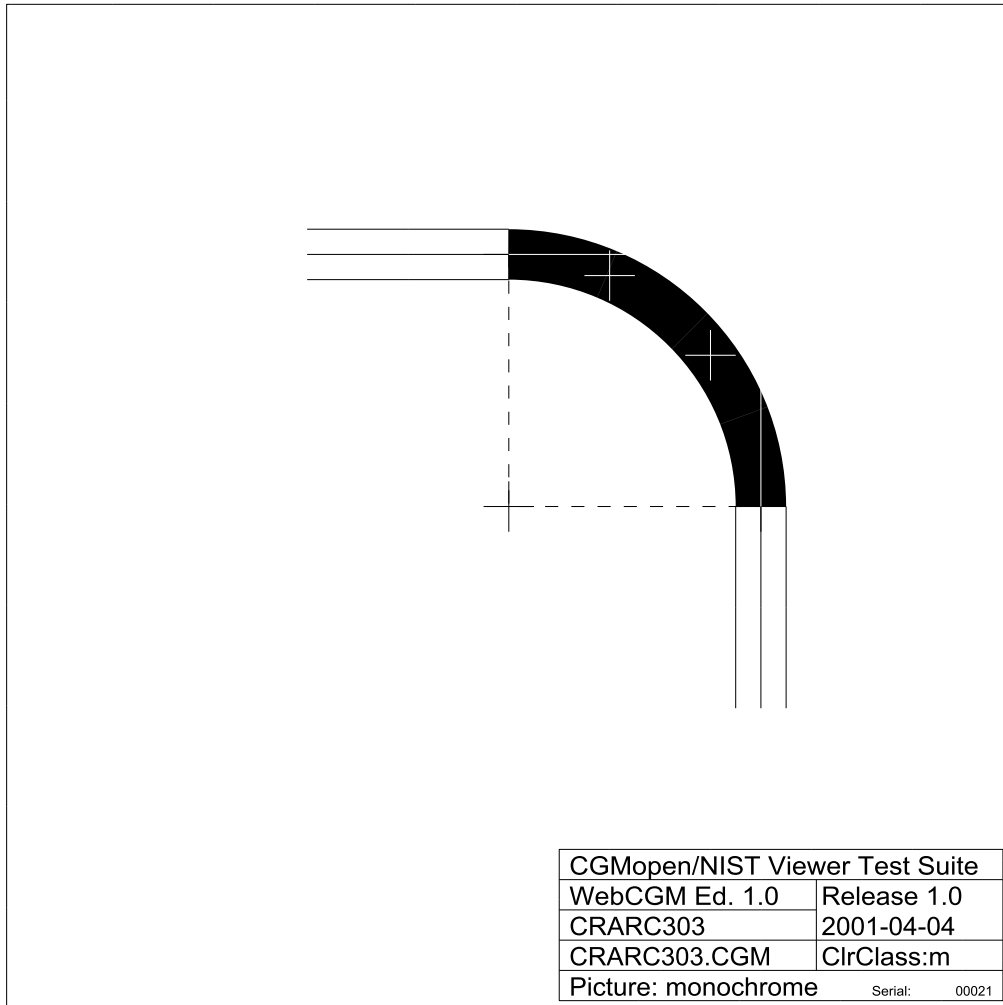
Fig 185, Sheet 1 of 2 CRARC302



CRARC302-PNG

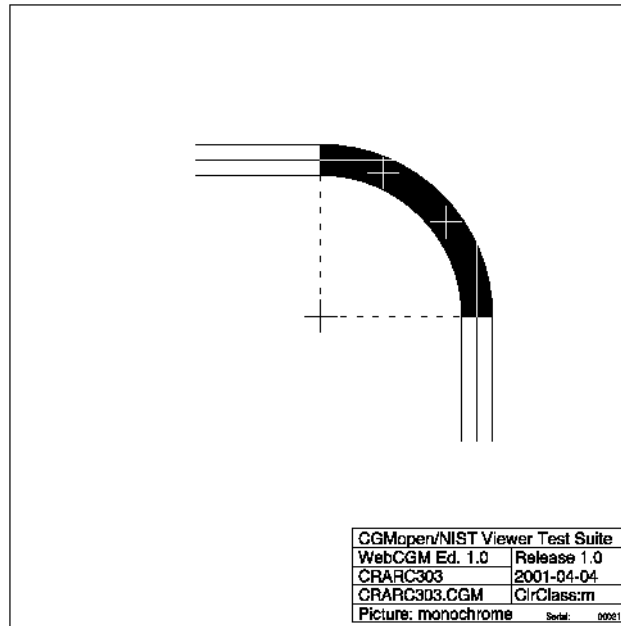
Fig 185, Sheet 2 of 2 CRARC302

1.17.28 CRARC303



CRARC303-CGM

Fig 186, Sheet 1 of 2 CRARC303

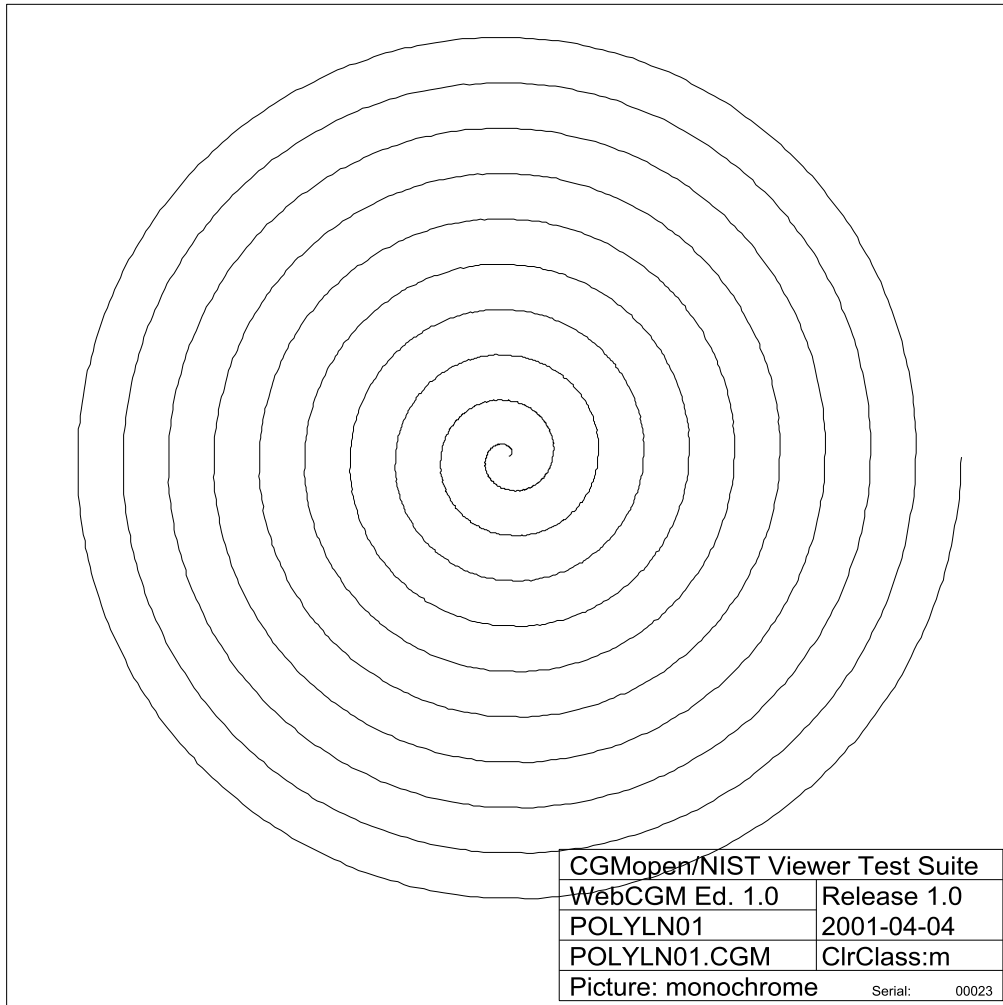


CRARC303-PNG

Fig 186, Sheet 2 of 2 CRARC303

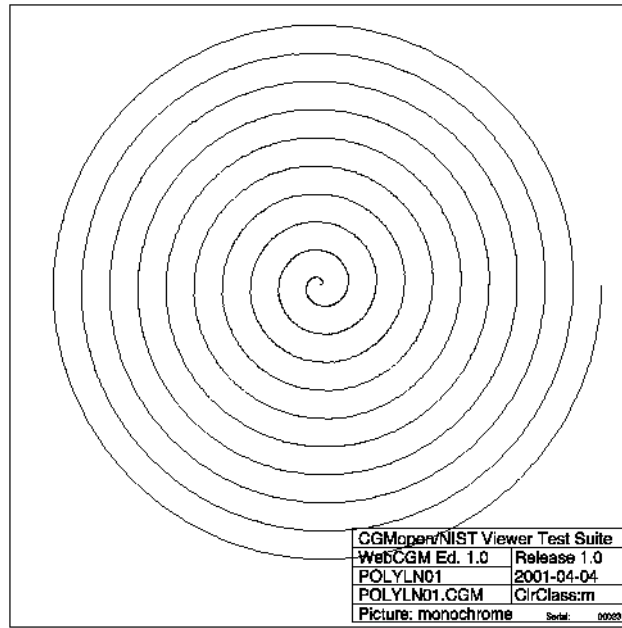


1.17.29 POLYLN01



POLYLN01-CGM

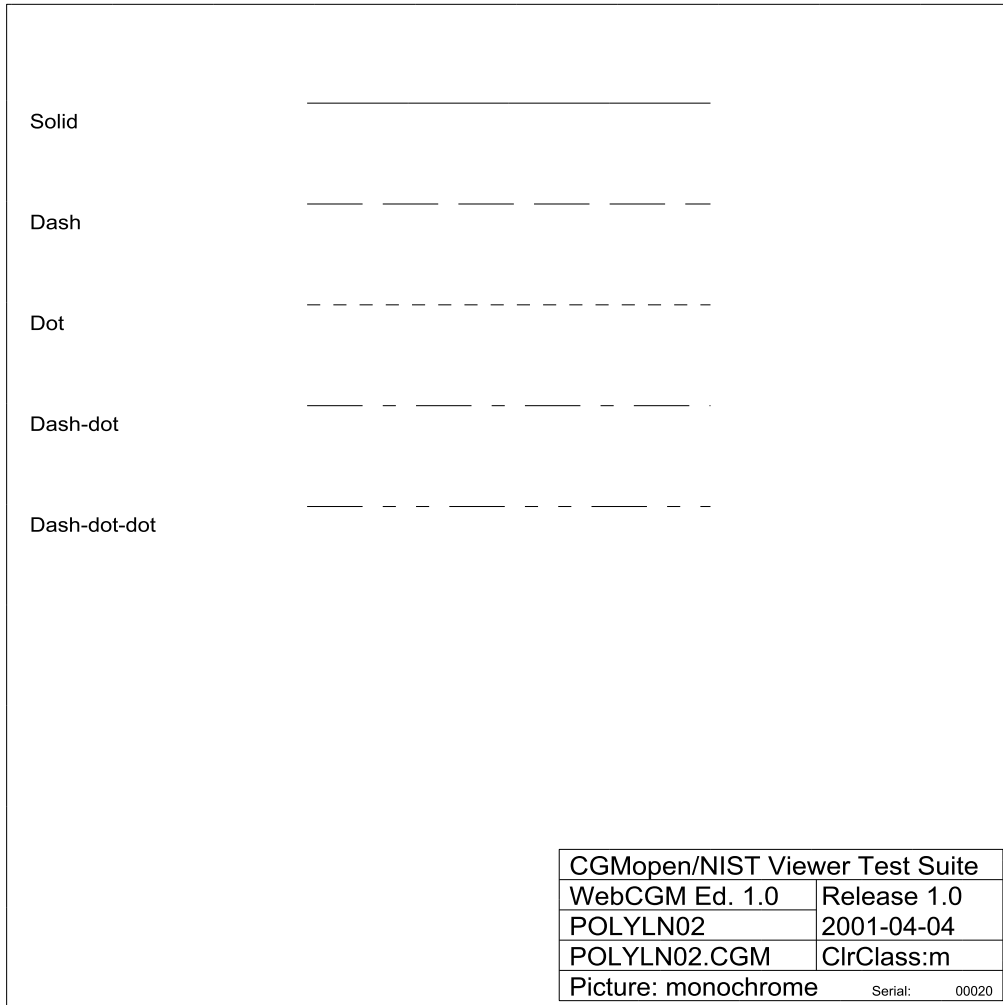
Fig 187, Sheet 1 of 2 POLYLN01



POLYLN01-PNG

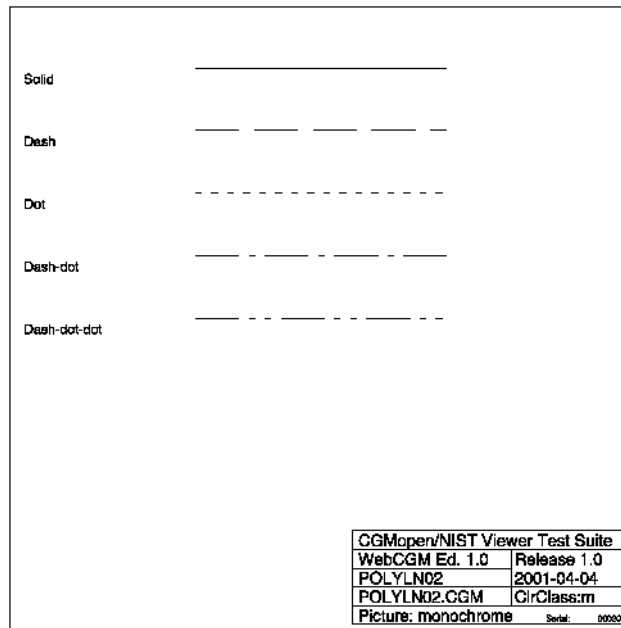
Fig 187, Sheet 2 of 2 POLYLN01

1.17.30 POLYLN02



POLYLN02-CGM

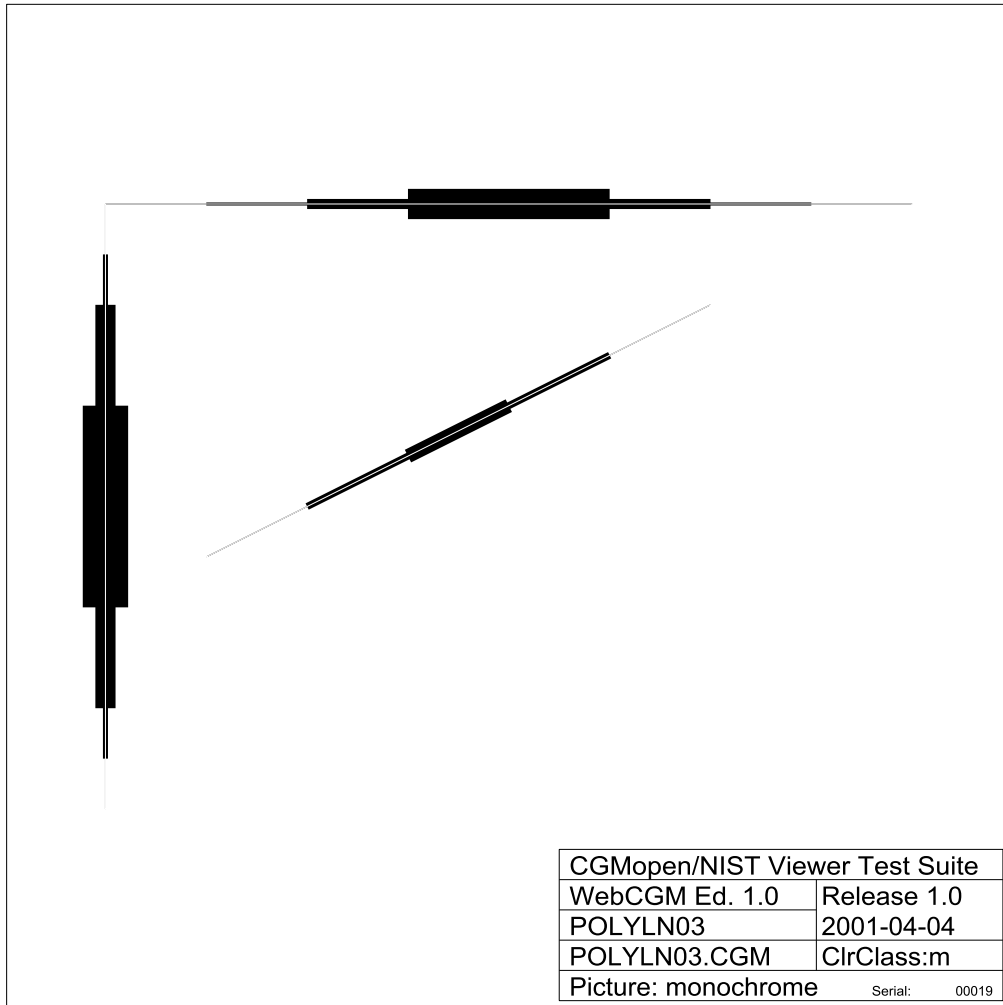
Fig 188, Sheet 1 of 2 POLYLN02



POLYLN02-PNG

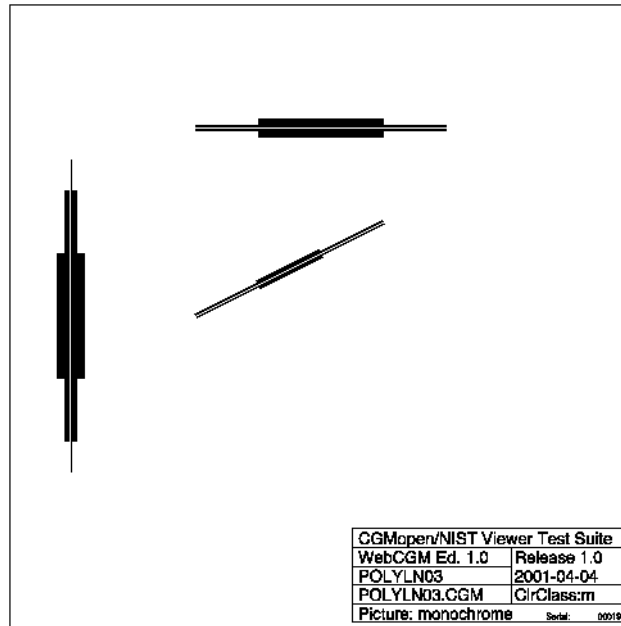
Fig 188, Sheet 2 of 2 POLYLN02

1.17.31 POLYLN03



POLYLN03-CGM

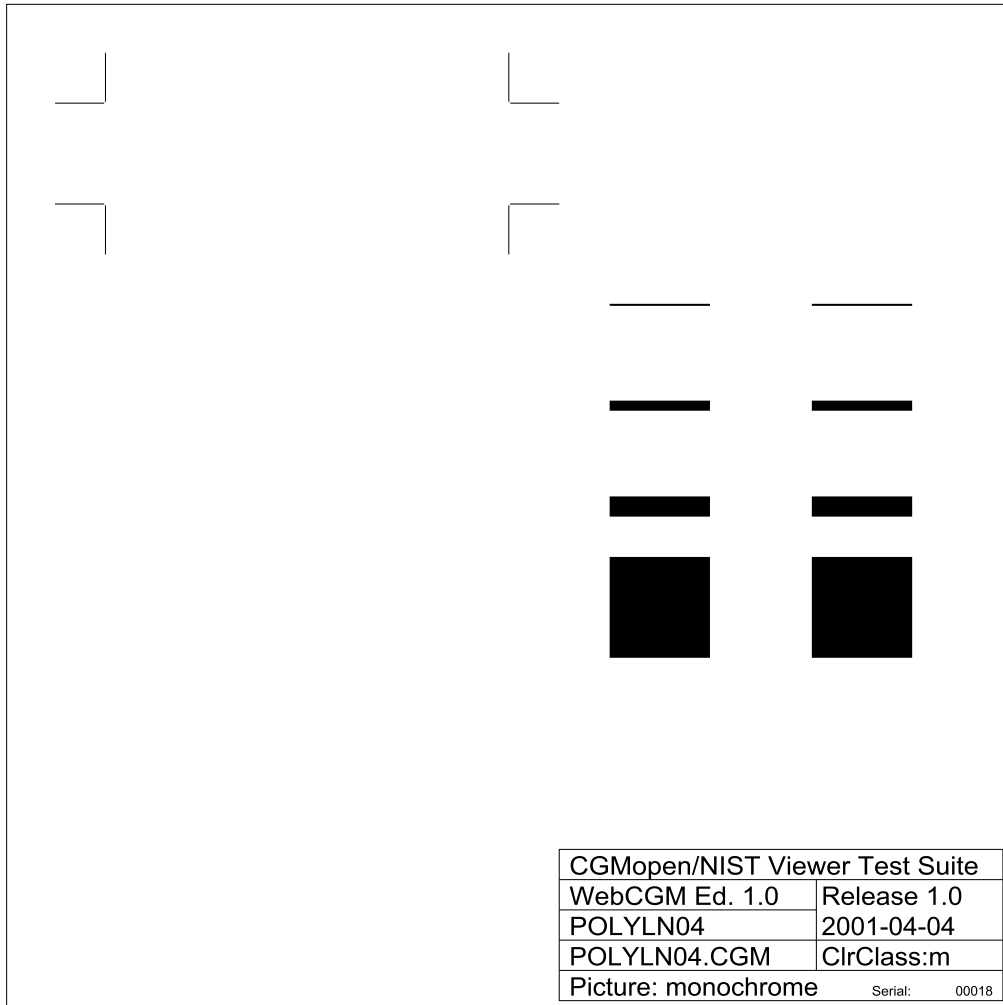
Fig 189, Sheet 1 of 2 POLYLN03



POLYLN03-PNG

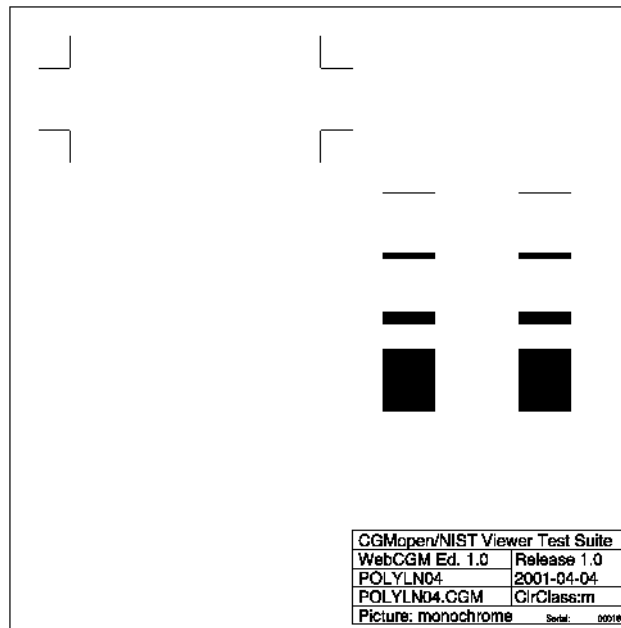
Fig 189, Sheet 2 of 2 POLYLN03

1.17.32 POLYLN04



POLYLN04-CGM

Fig 190, Sheet 1 of 2 POLYLN04



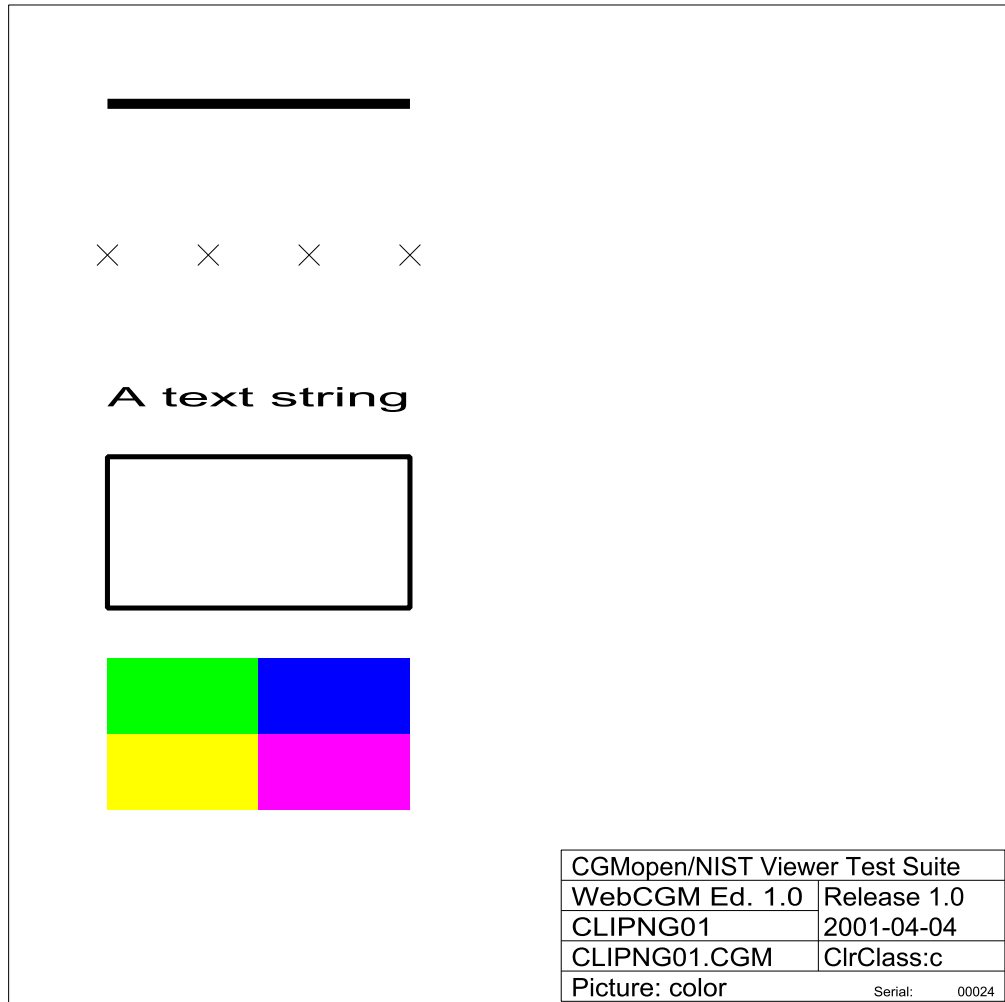
POLYLN04-PNG

Fig 190, Sheet 2 of 2 POLYLN04



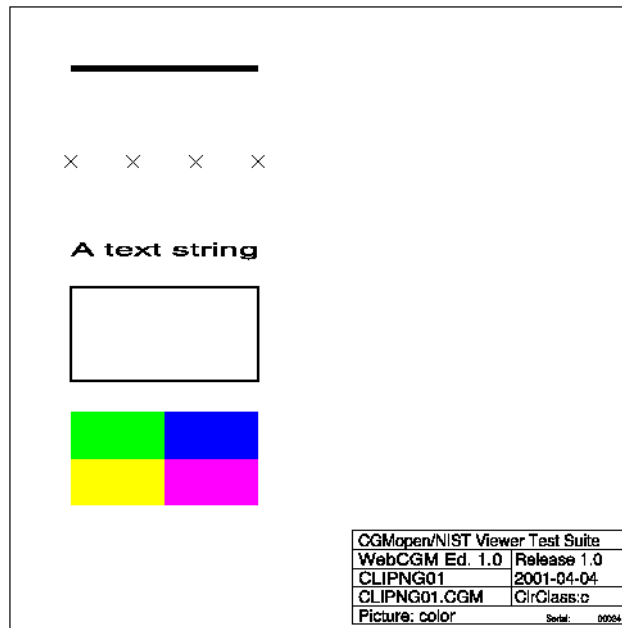
1.18 Clipping

1.18.1 CLIPNG01



CLIPNG01-CGM

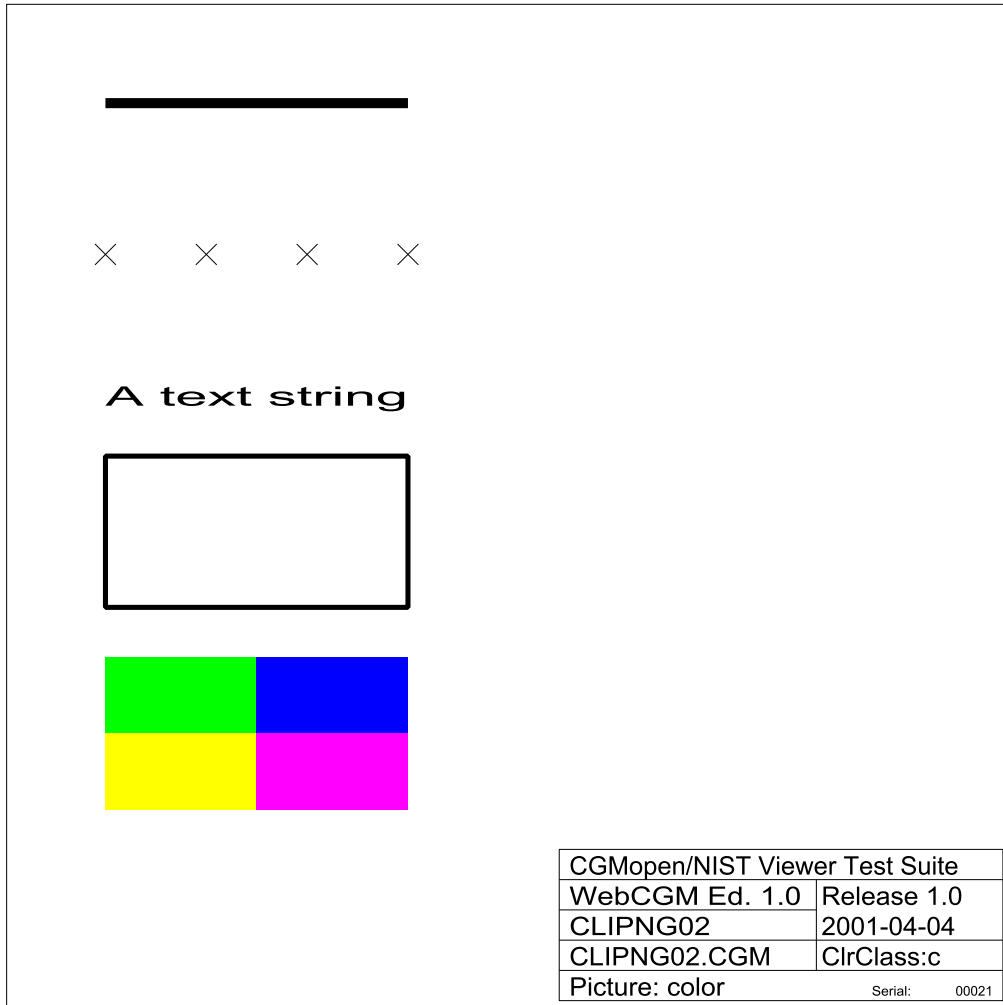
Fig 191, Sheet 1 of 2 CLIPNG01



CLIPNG01-PNG

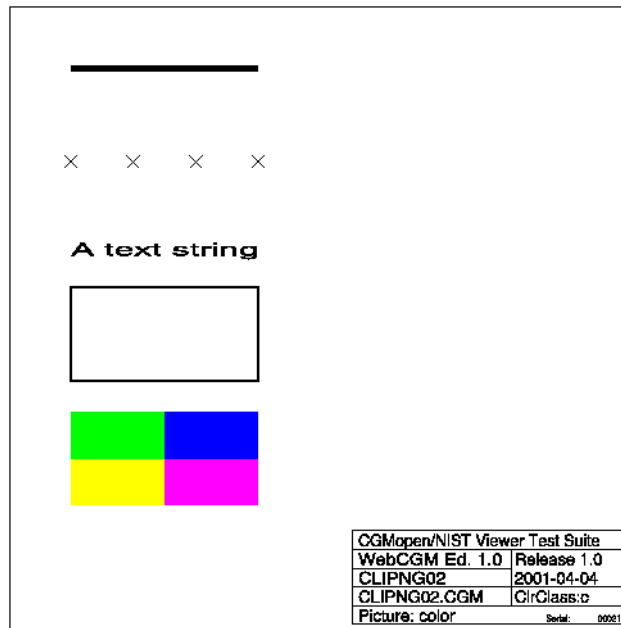
Fig 191, Sheet 2 of 2 CLIPNG01

1.18.2 CLIPNG02



CLIPNG02-CGM

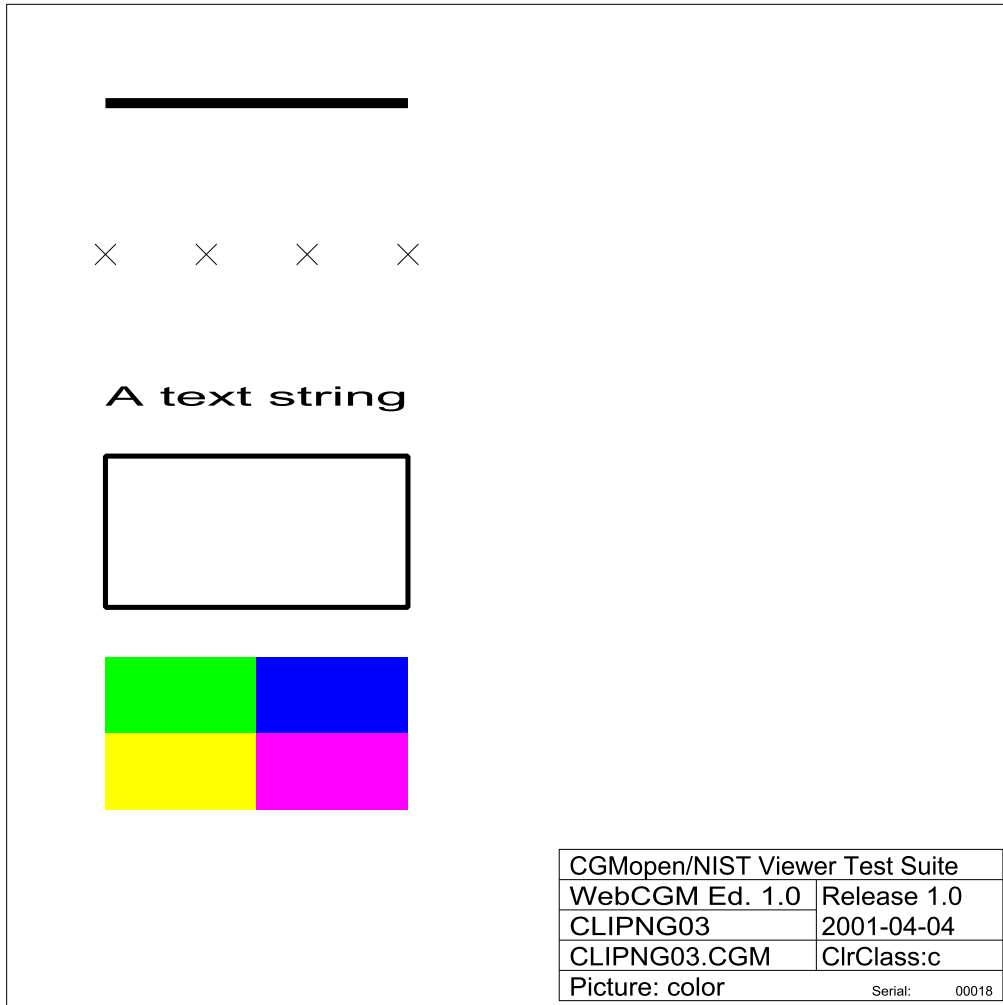
Fig 192, Sheet 1 of 2 CLIPNG02



CLIPNG02-PNG

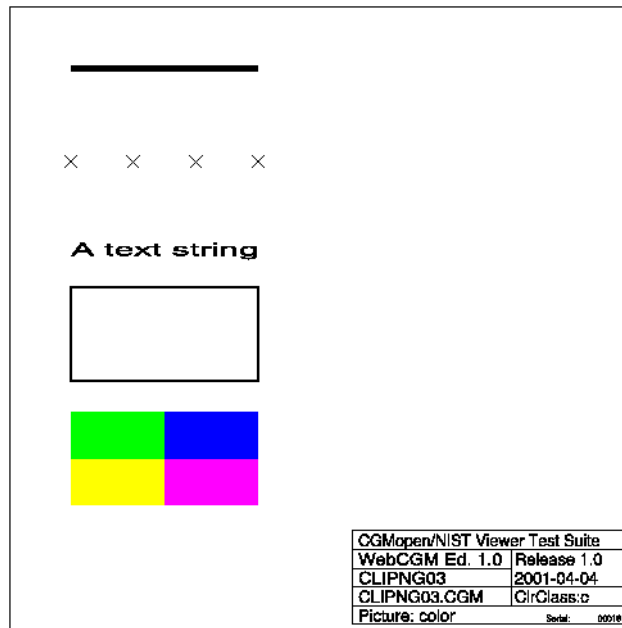
Fig 192, Sheet 2 of 2 CLIPNG02

1.18.3 CLIPNG03



CLIPNG03-CGM

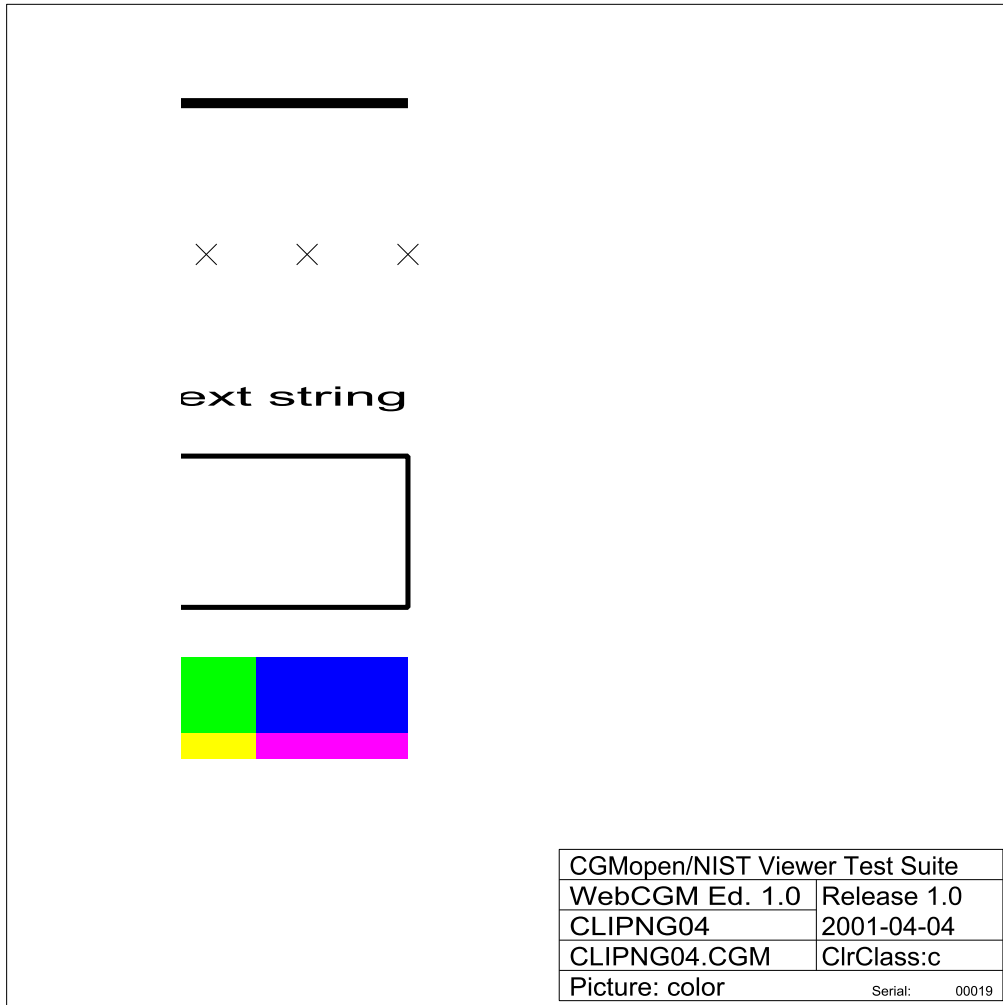
Fig 193, Sheet 1 of 2 CLIPNG03



CLIPNG03-PNG

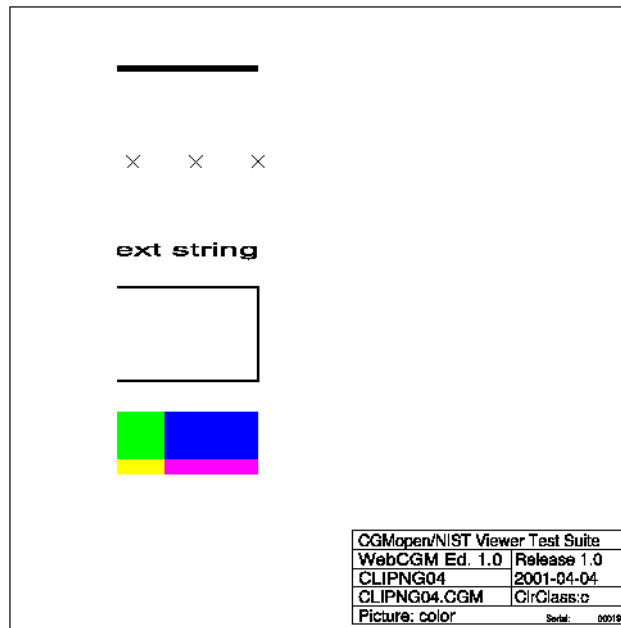
Fig 193, Sheet 2 of 2 CLIPNG03

1.18.4 CLIPNG04



CLIPNG04-CGM

Fig 194, Sheet 1 of 2 CLIPNG04



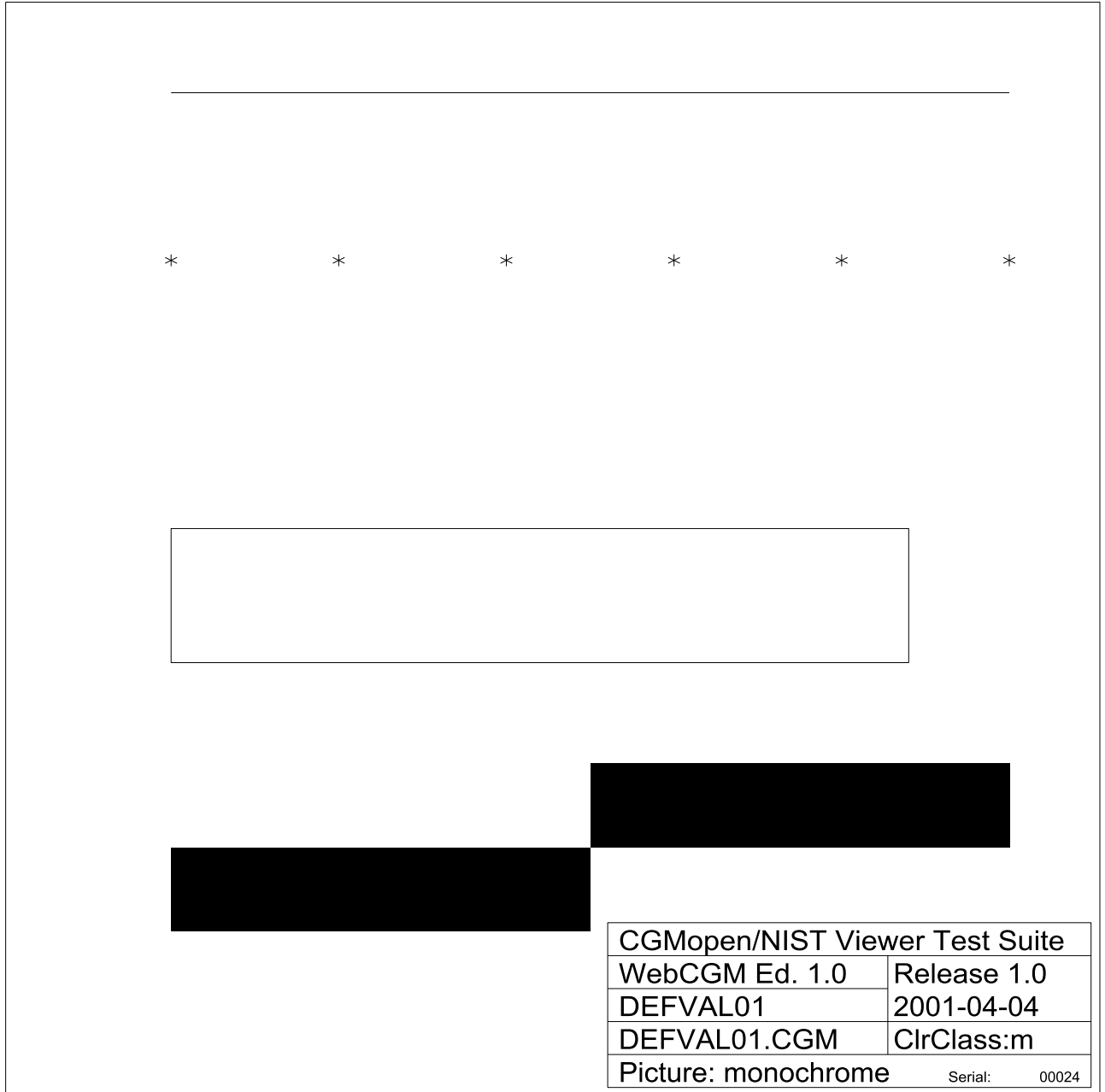
CLIPNG04-PNG

Fig 194, Sheet 2 of 2 CLIPNG04



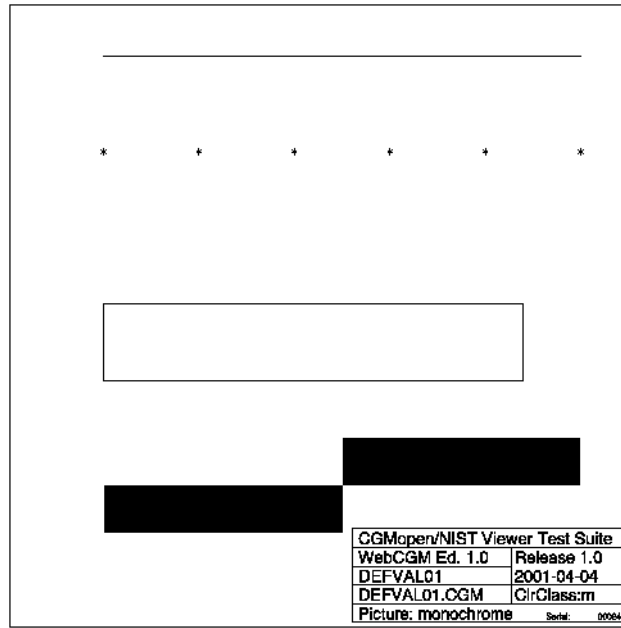
## 1.19 Defaults

### 1.19.1 DEFVAL01



DEFVAL01-CGM

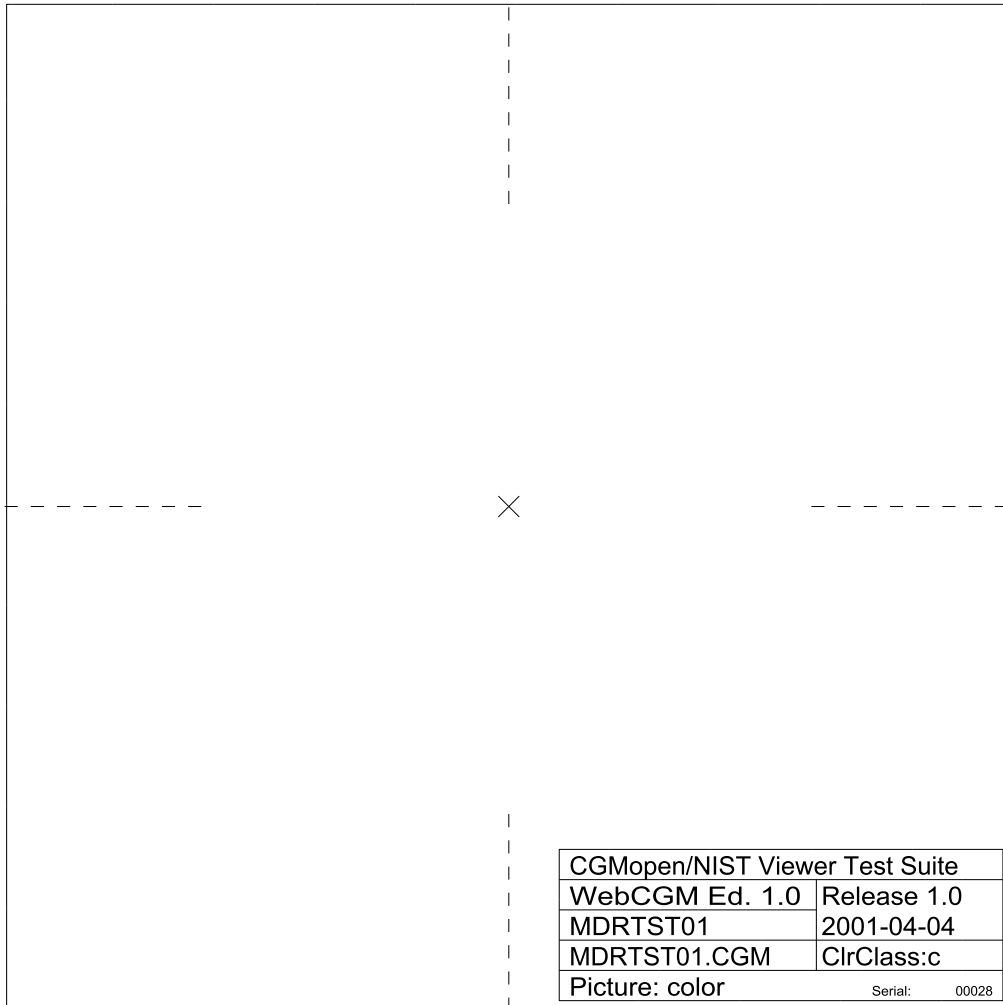
Fig 195, Sheet 1 of 2 DEFVAL01



DEFVAL01-PNG

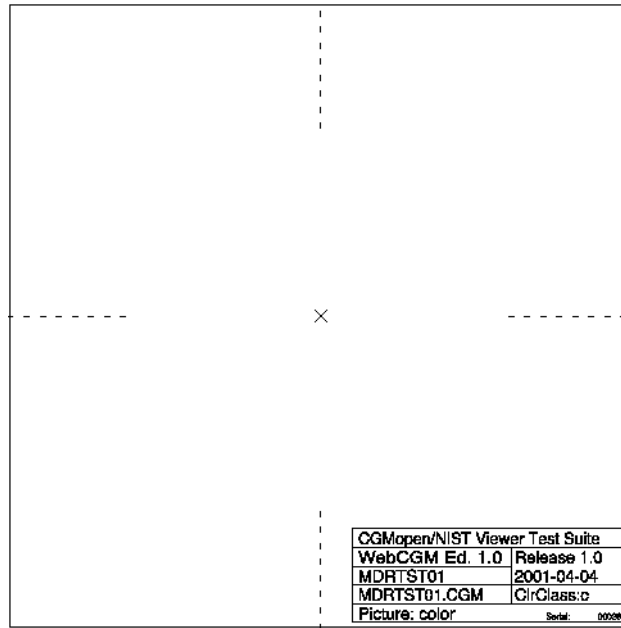
Fig 195, Sheet 2 of 2 DEFVAL01

1.19.2 MDRTST01



MDRTST01-CGM

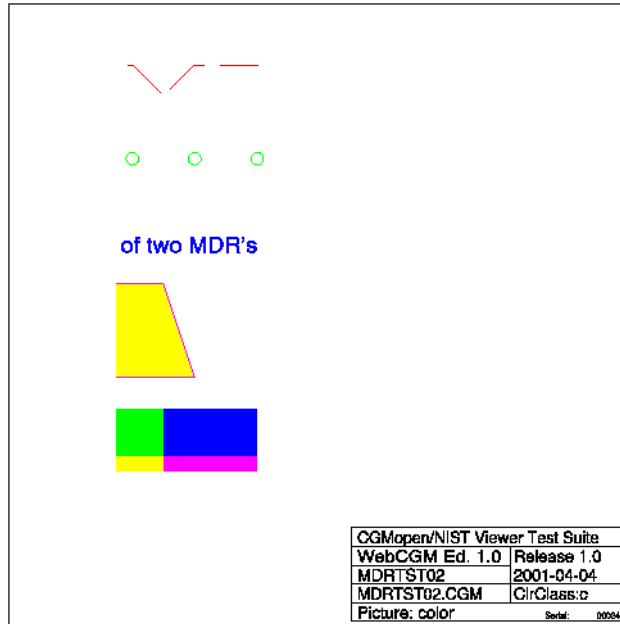
Fig 196, Sheet 1 of 2 MDRTST01



MDRTST01-PNG

Fig 196, Sheet 2 of 2 MDRTST01

1.19.3 MDRTST02

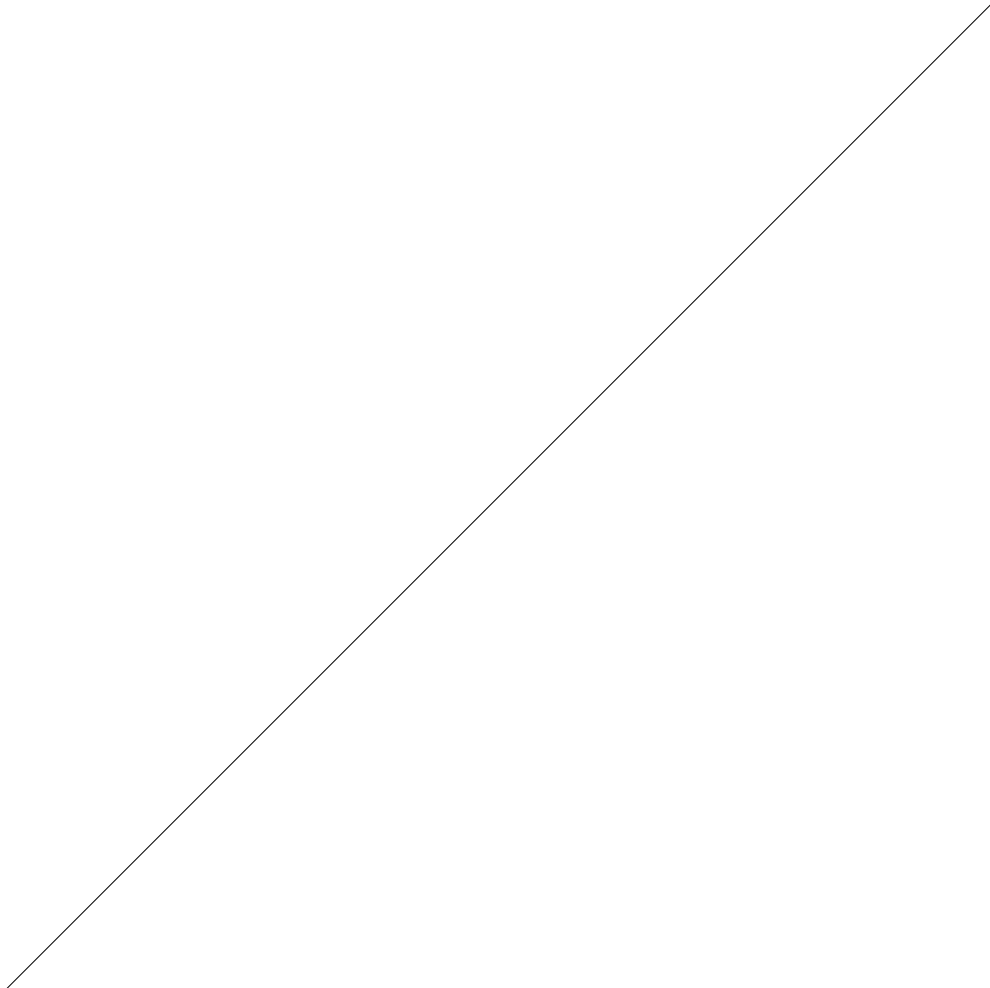


MDRTST02-PNG

Fig 197 MDRTST02

**1.20 Empty Pictures**

**1.20.1 EMT PCT01**



EMTPCT01-CGM

*Fig 198, Sheet 1 of 2 EMT PCT01*

EMTPCT01-PNG

*Fig 198, Sheet 2 of 2 EMTPCT01*

1.20.2    **EMTPCT02**

EMTPCT02-CGM

*Fig 199, Sheet 1 of 2 EMTPCT02*



EMTPCT02-PNG

*Fig 199, Sheet 2 of 2 EMTPCT02*

Produced by Docuneering Ltd.

**2 WebCGM10 - CGM Version 2**

**2.1 Begin/End Figure Element**

**2.1.1 FIGURE01**

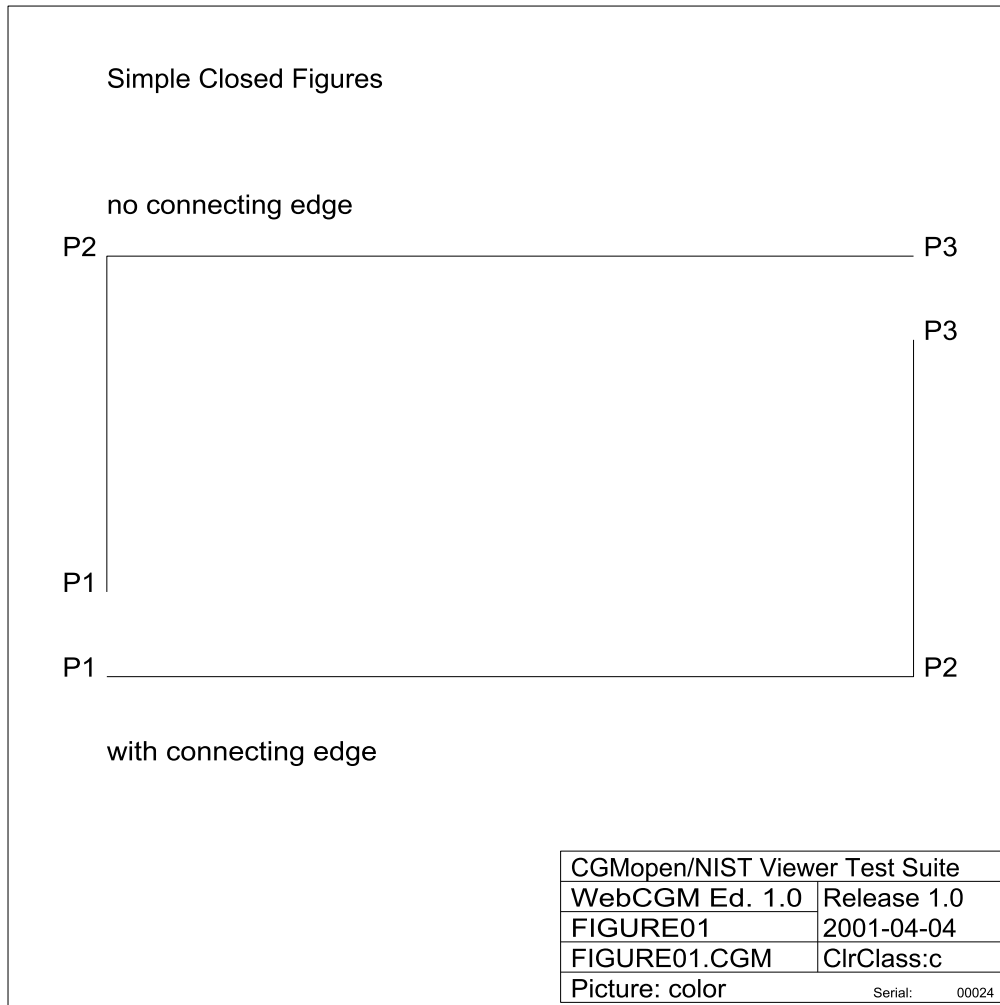


FIGURE01-CGM

Fig 200, Sheet 1 of 2 FIGURE01

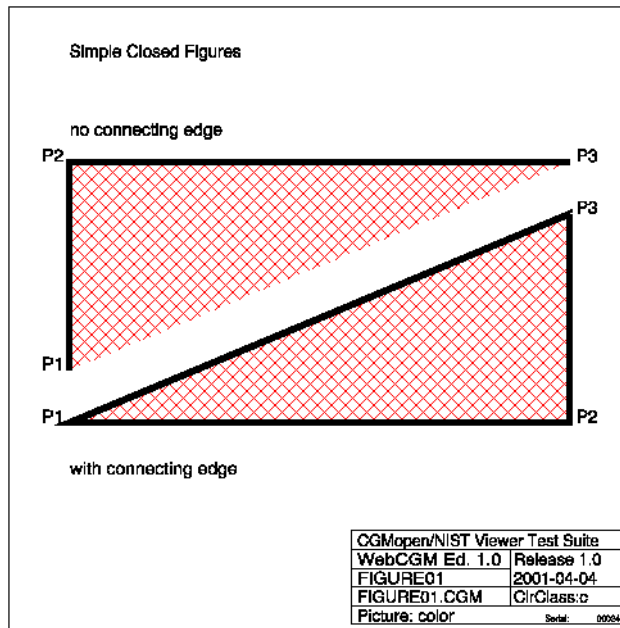


FIGURE01-PNG

Fig 200, Sheet 2 of 2 FIGURE01

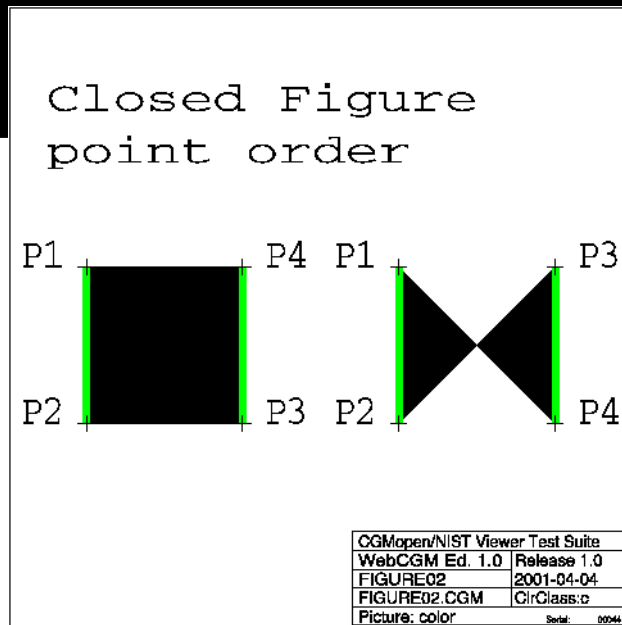


FIGURE02-PNG

Fig 201, Sheet 2 of 2 FIGURE02



FIGURE03-CGM

Fig 202, Sheet 1 of 2 FIGURE03

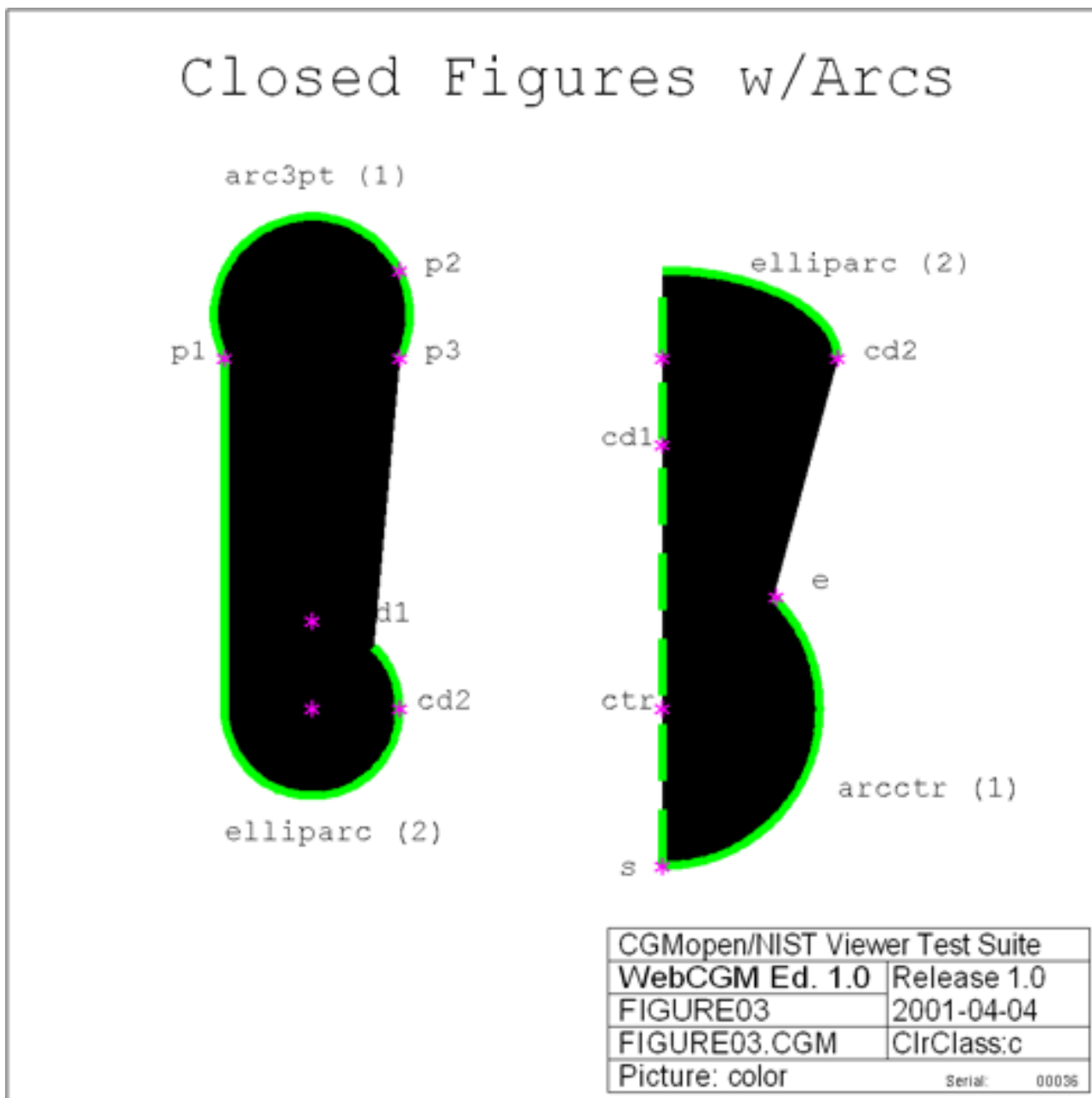


FIGURE03-PNG

Fig 202, Sheet 2 of 2 FIGURE03

2.1.4 FIGURE04

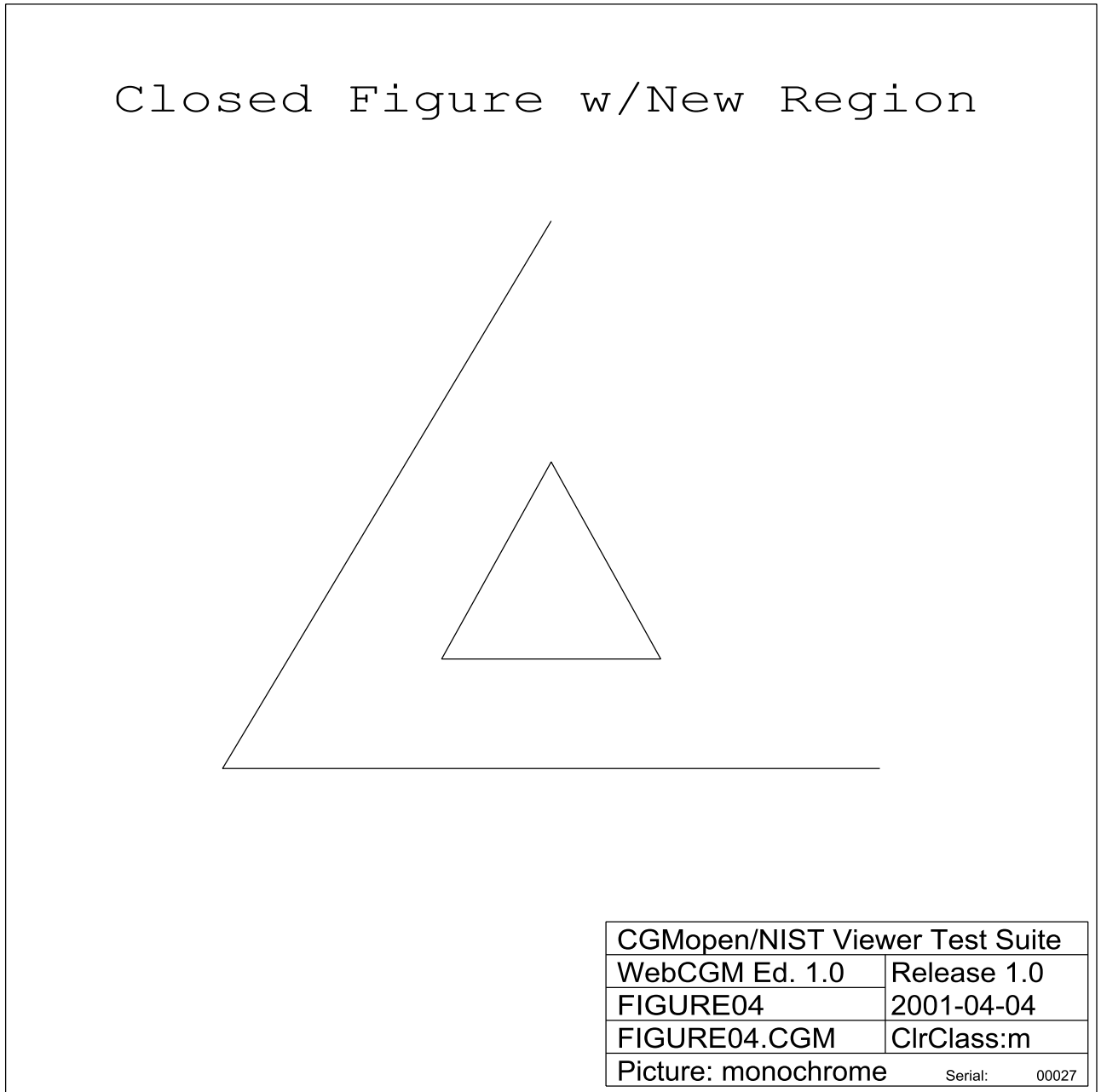


FIGURE04-CGM

Fig 203, Sheet 1 of 2 FIGURE04

Produced by Docuneering Ltd.

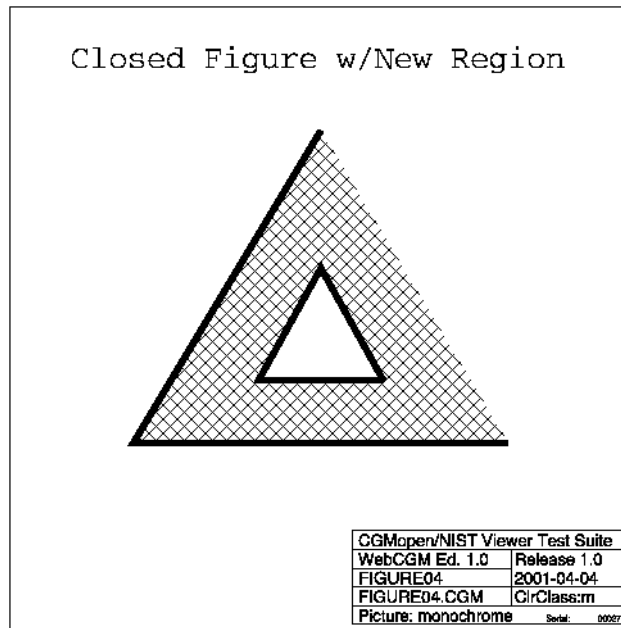


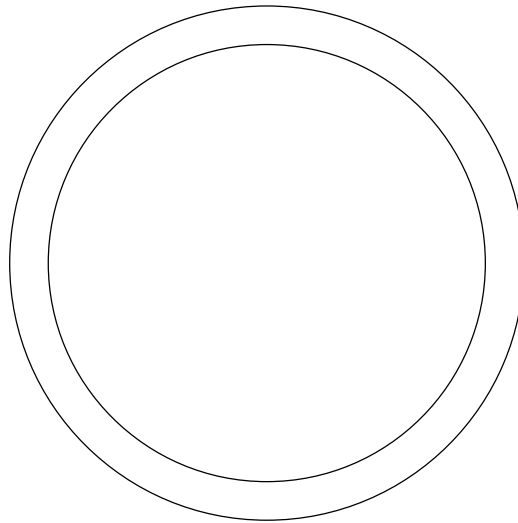
FIGURE04-PNG

Fig 203, Sheet 2 of 2 FIGURE04



2.1.5 FIGURE05

Arc Closed Figure w/New Region



CGMopen/NIST Viewer Test Suite	
WebCGM Ed. 1.0	Release 1.0
FIGURE05	2001-04-04
FIGURE05.CGM	ClrClass:m
Picture: monochrome	Serial: 00027

FIGURE05-CGM

Fig 204, Sheet 1 of 2 FIGURE05

Produced by Docuneering Ltd.

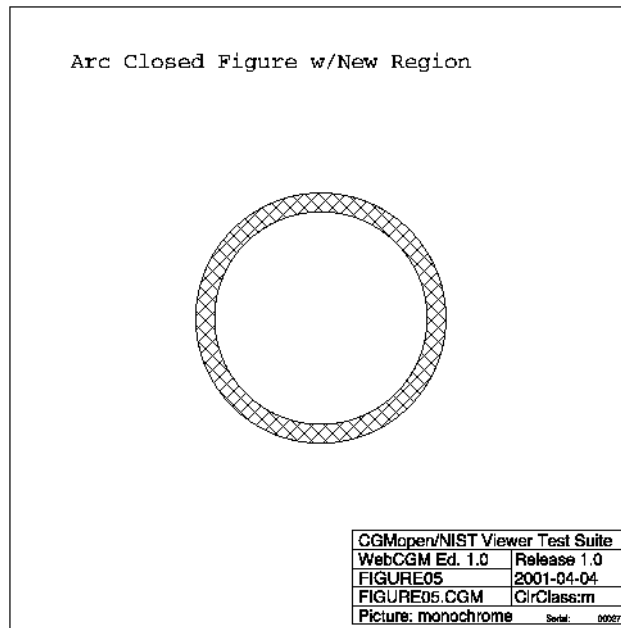


FIGURE05-PNG

Fig 204, Sheet 2 of 2 FIGURE05

2.1.6 FIGURE06

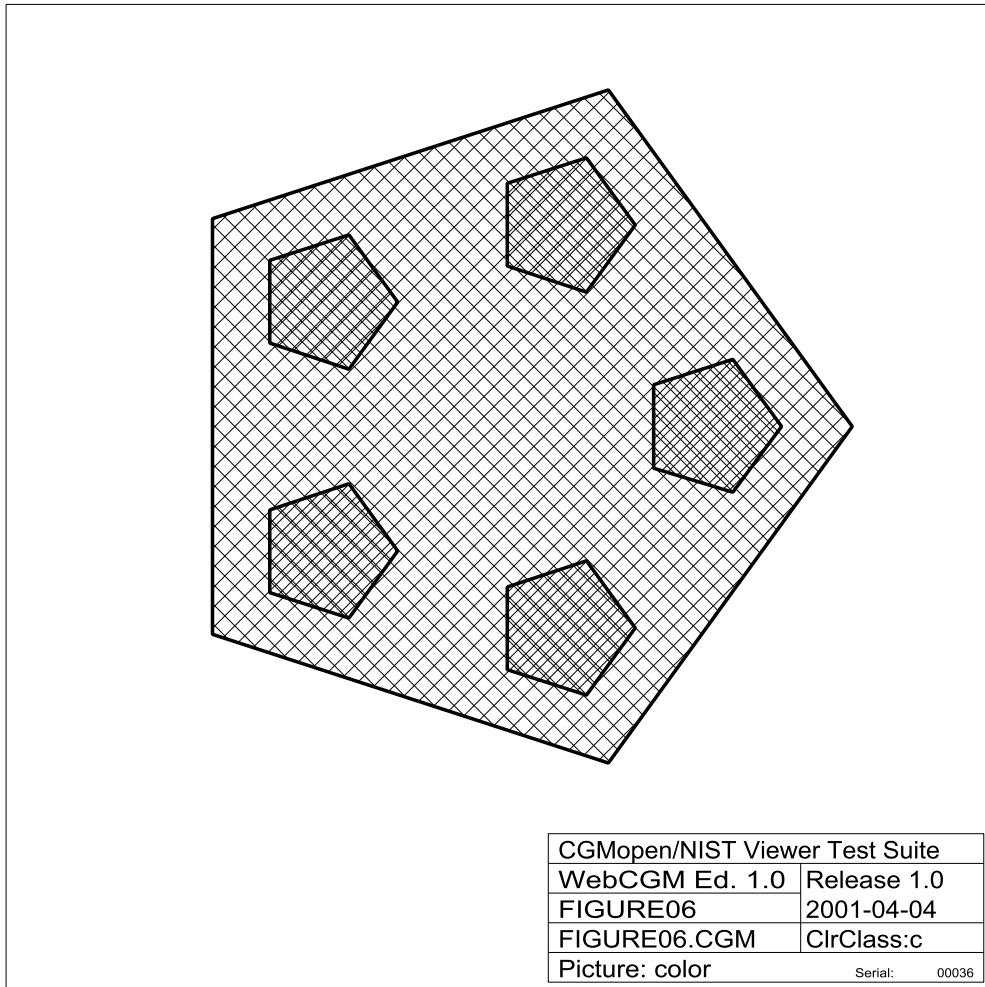


FIGURE06-CGM

Fig 205, Sheet 1 of 2 FIGURE06

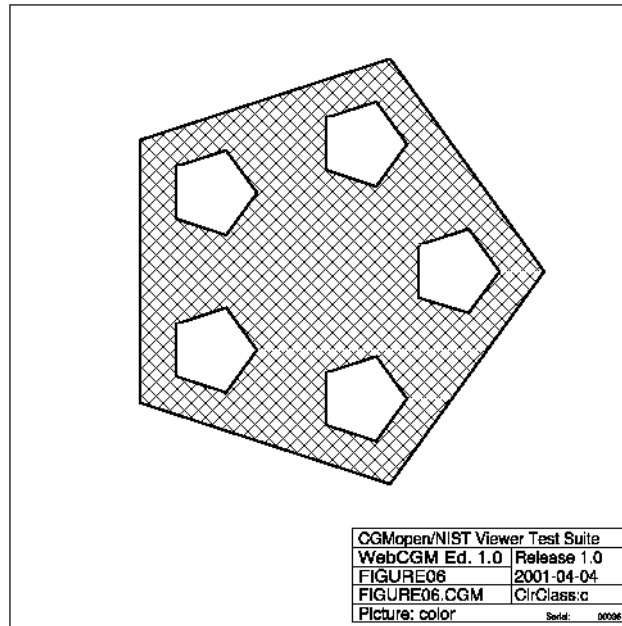


FIGURE06-PNG

Fig 205, Sheet 2 of 2 FIGURE06

2.1.7 FIGURE07

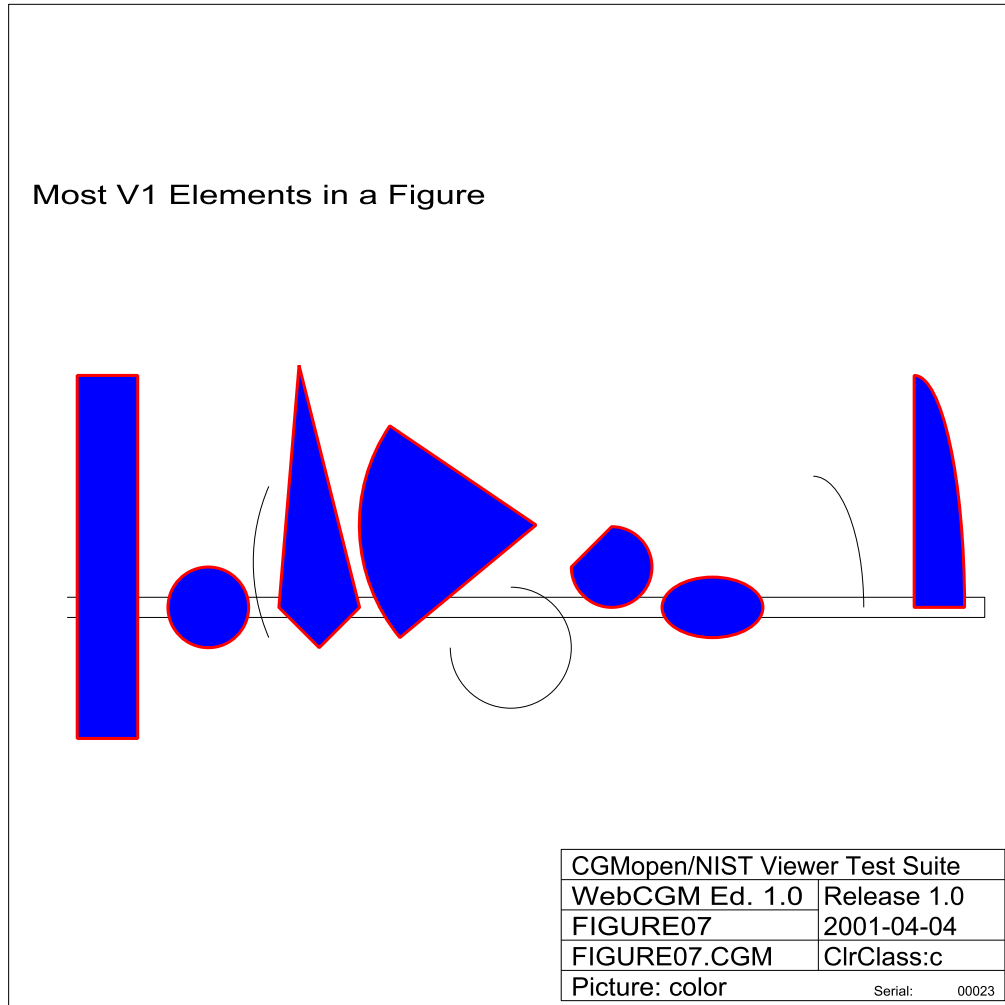


FIGURE07-CGM

Fig 206, Sheet 1 of 2 FIGURE07

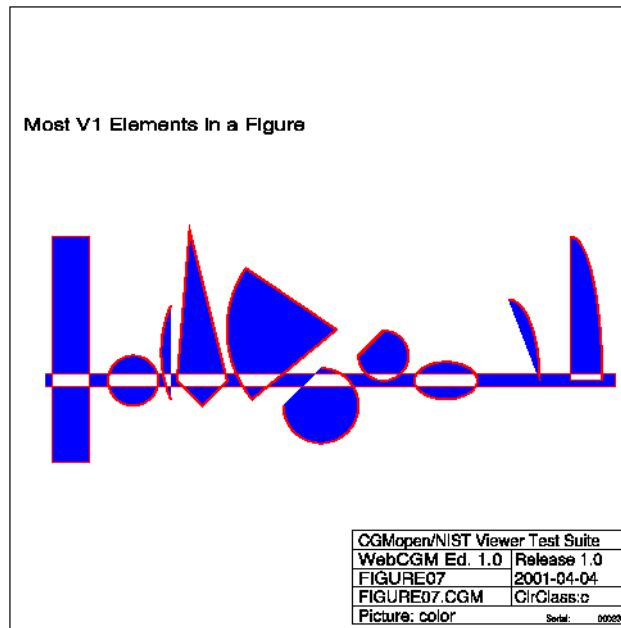
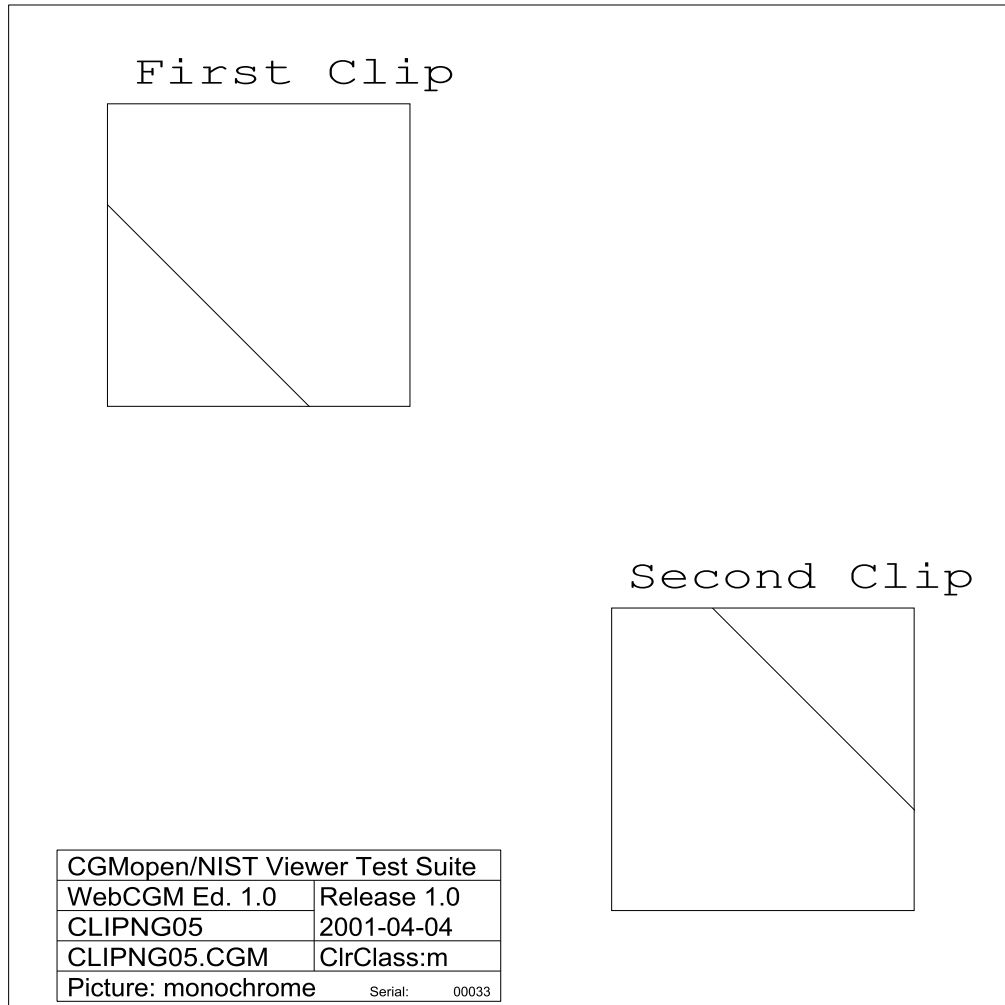


FIGURE07-PNG

Fig 206, Sheet 2 of 2 FIGURE07

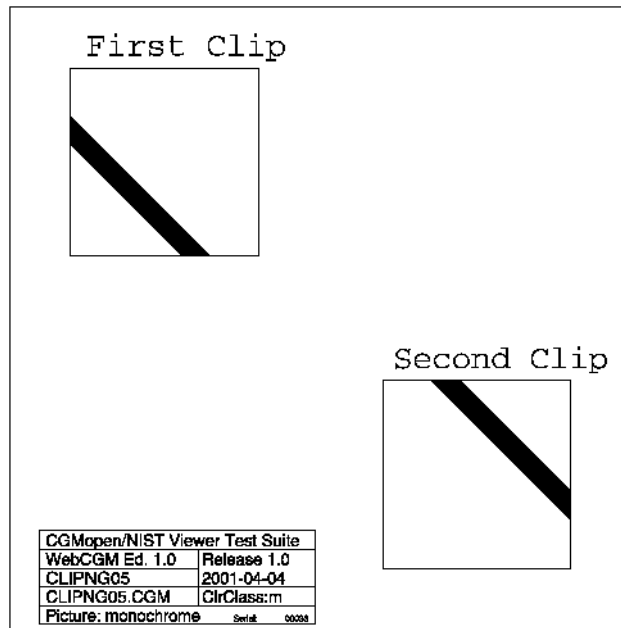
2.2 Clipping

2.2.1 CLIPNG05



CLIPNG05-CGM

Fig 207, Sheet 1 of 2 CLIPNG05



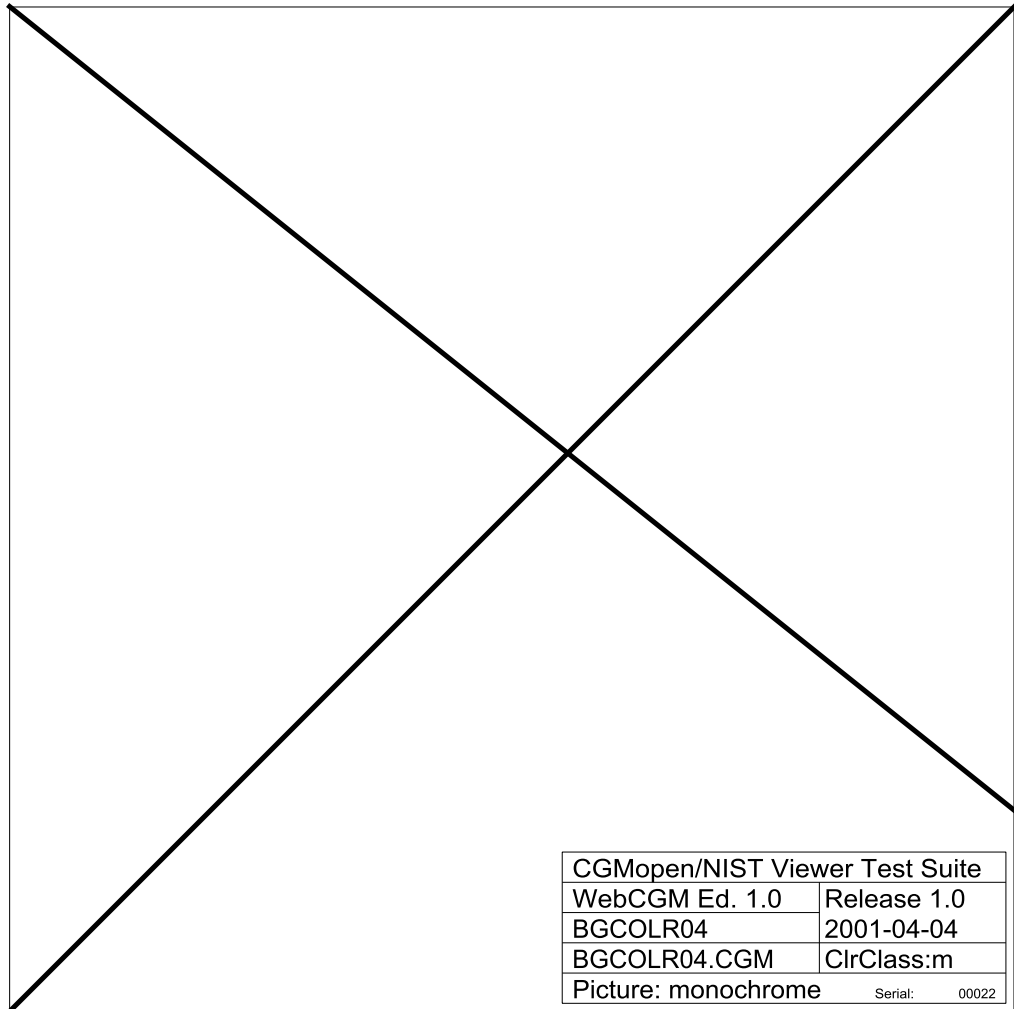
CLIPNG05-PNG

Fig 207, Sheet 2 of 2 CLIPNG05



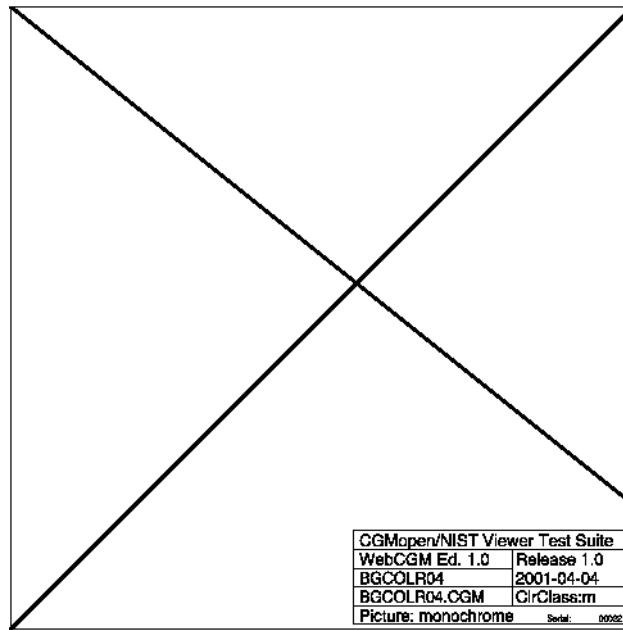
2.3 Colour

2.3.1 BGCOLOR04



BGCOLOR04-CGM

Fig 208, Sheet 1 of 2 BGCOLOR04

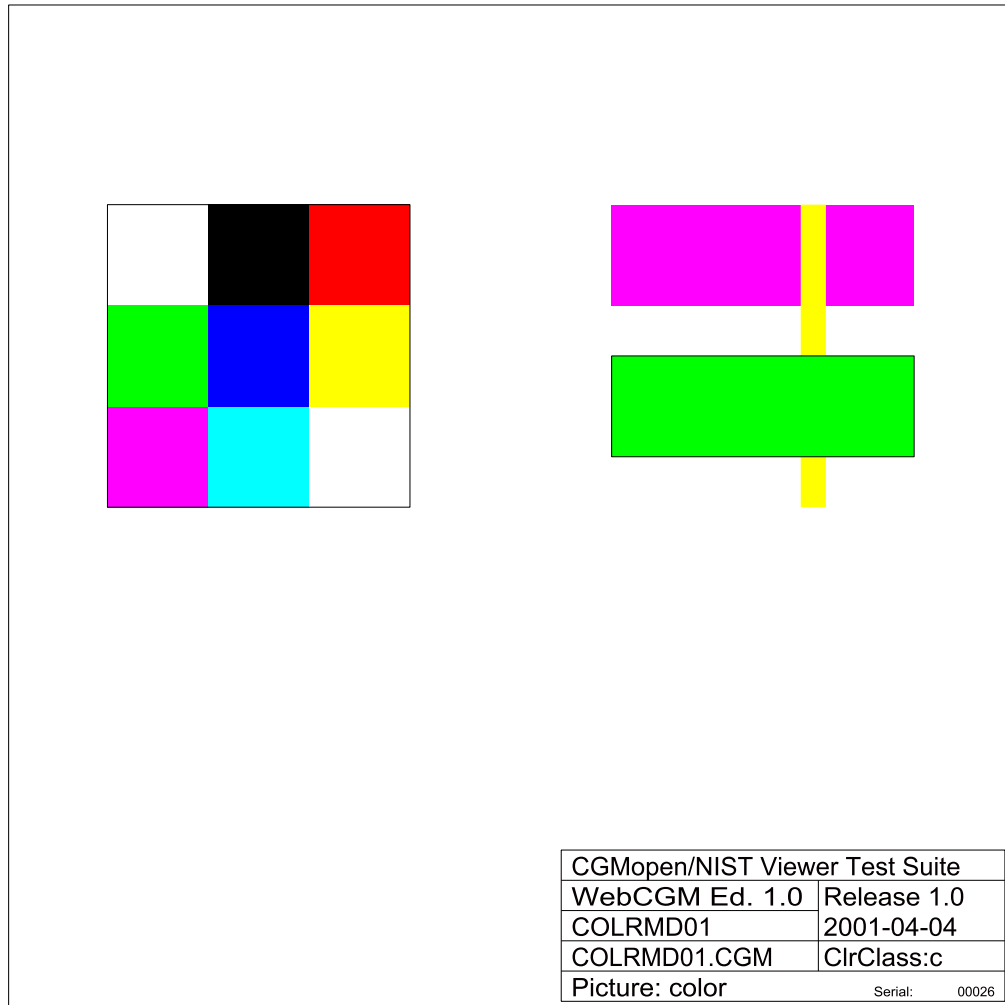


BGCOLOR04-PNG

Fig 208, Sheet 2 of 2 BGCOLOR04

2.4 Modes

2.4.1 COLRMD01



COLRMD01-CGM

Fig 209, Sheet 1 of 2 COLRMD01

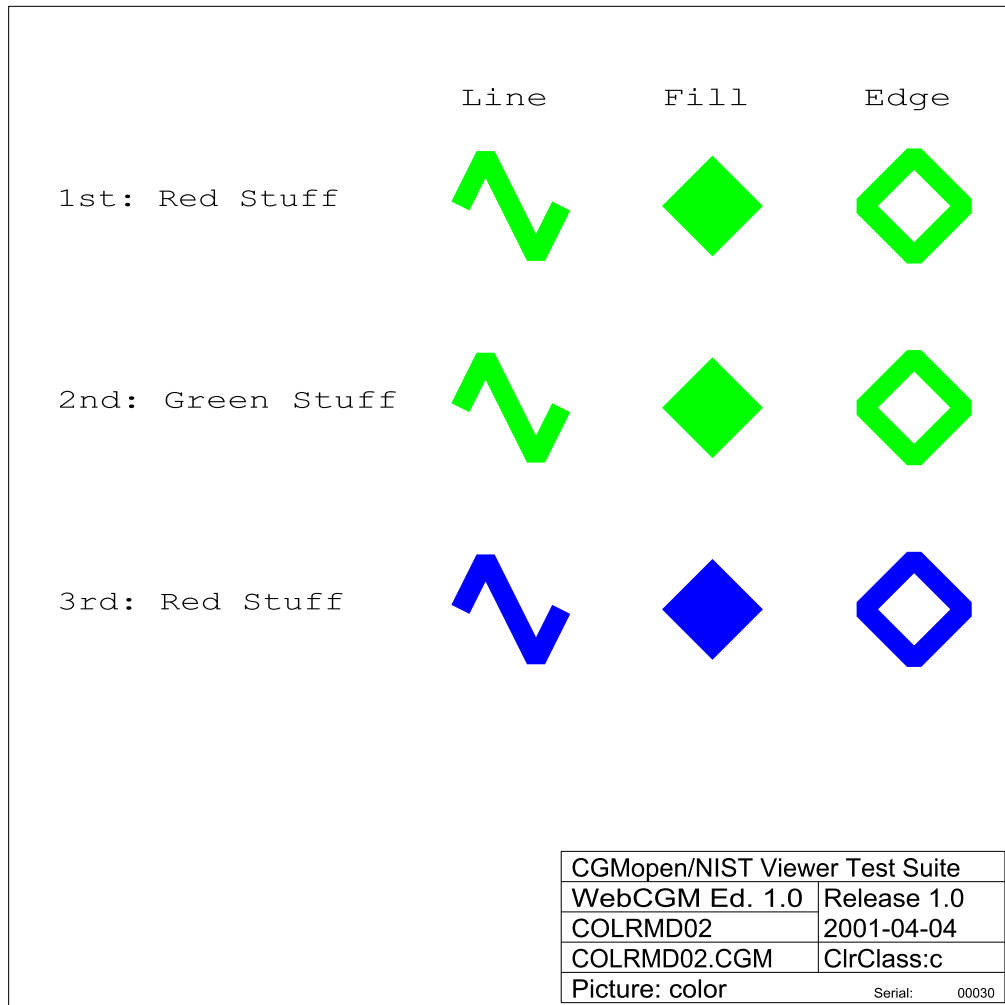


CGMopen/NIST Viewer Test Suite	
WebCGM Ed. 1.0	Release 1.0
COLRMD01	2001-04-04
COLRMD01.CGM	ClrClass:c
Picture: color	Serial: 00035

COLRMD01-PNG

Fig 209, Sheet 2 of 2 COLRMD01

2.4.2 COLRMD02



COLRMD02-CGM

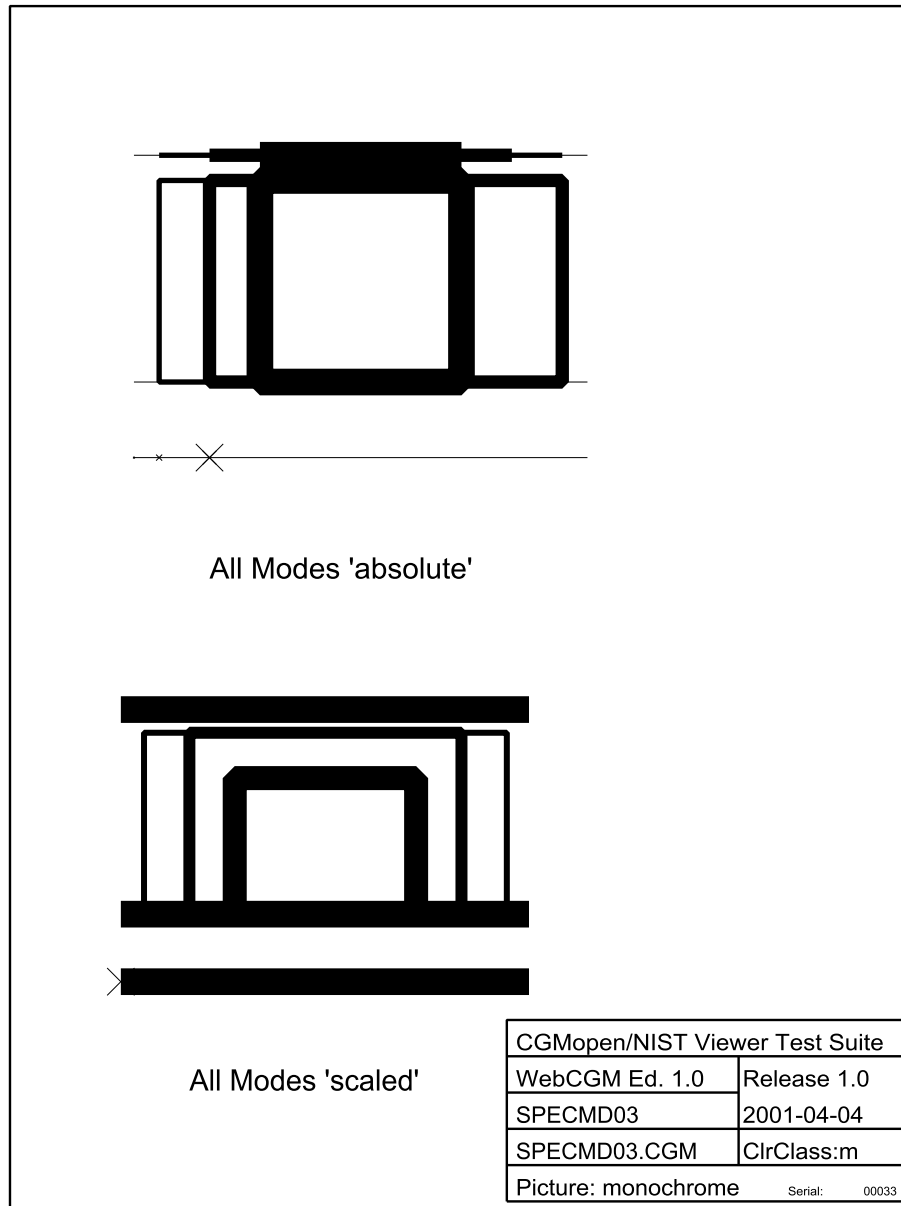
Fig 210, Sheet 1 of 2 COLRMD02



COLRMD02-PNG

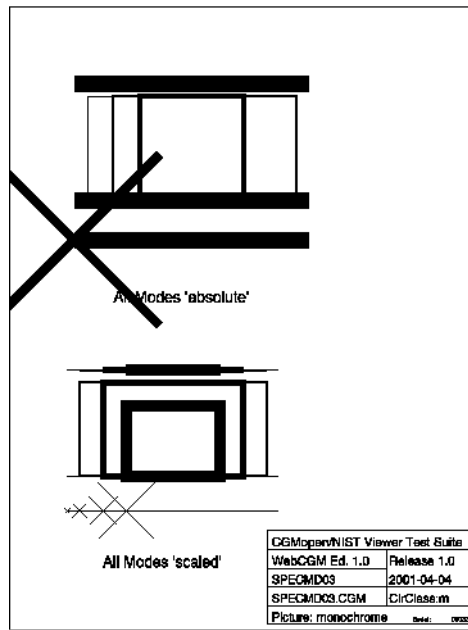
Fig 210, Sheet 2 of 2 COLRMD02

2.4.3 SPECMD03



SPECMD03-CGM

Fig 211, Sheet 1 of 2 SPECMD03

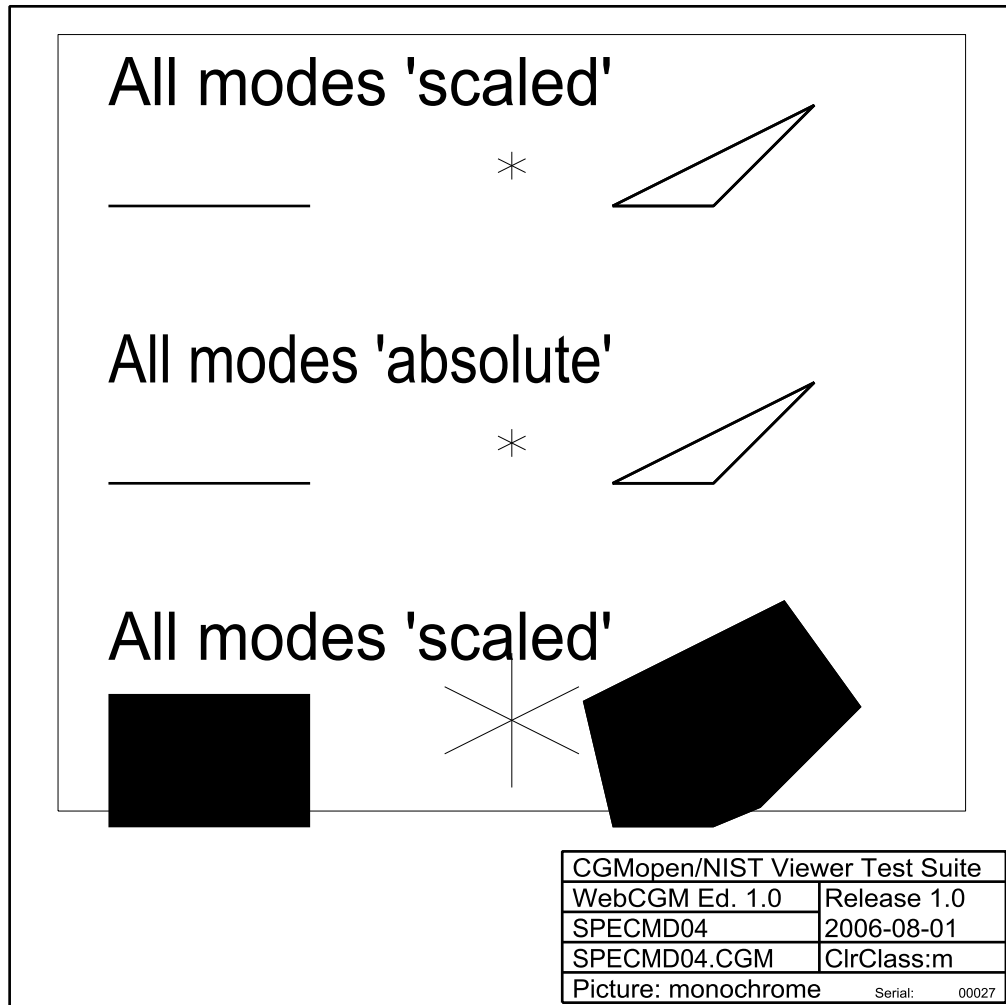


SPECMD03-PNG

Fig 211, Sheet 2 of 2 SPECMD03

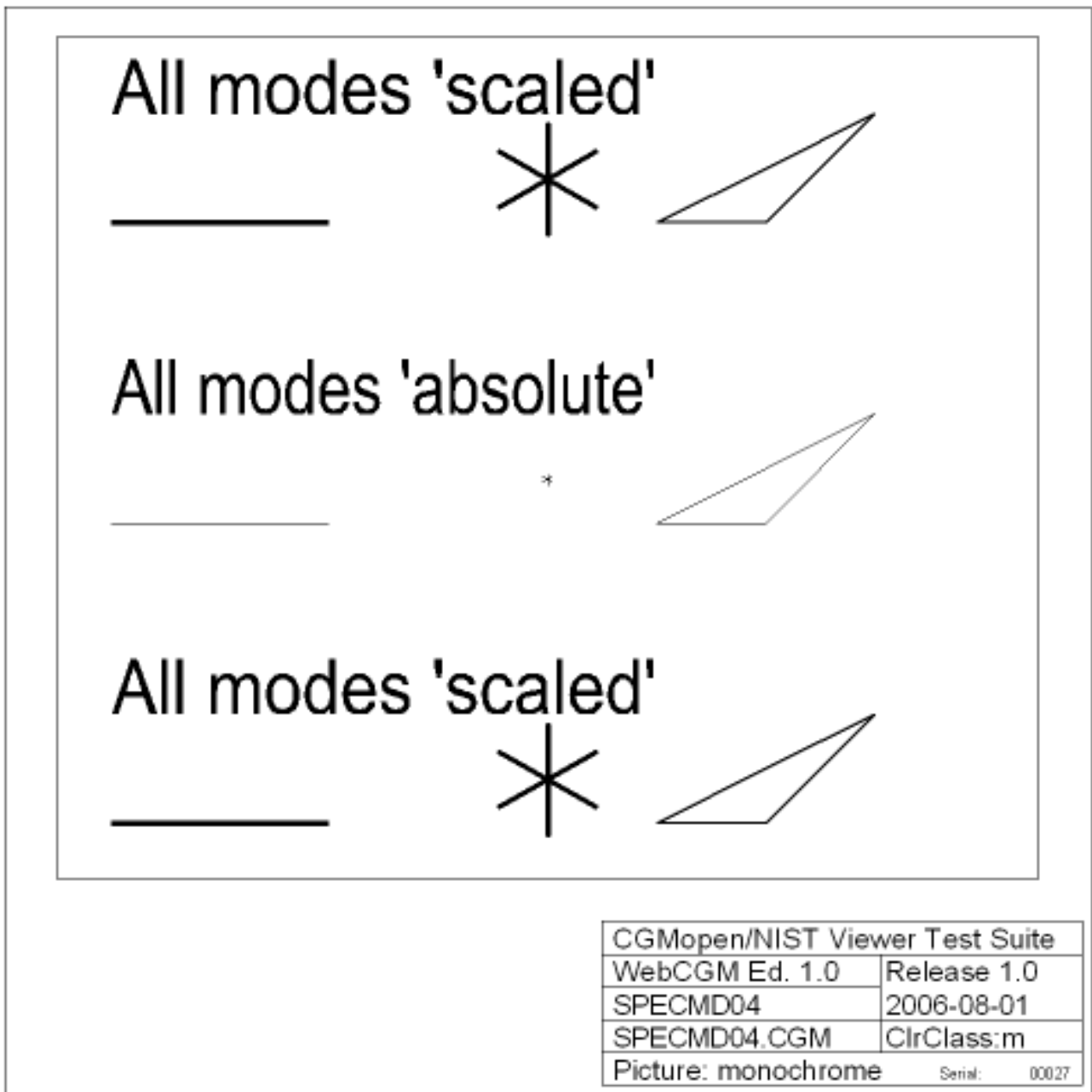


2.4.4 SPECMD04



SPECMD04-CGM

Fig 212, Sheet 1 of 2 SPECMD04



SPECMD04-PNG

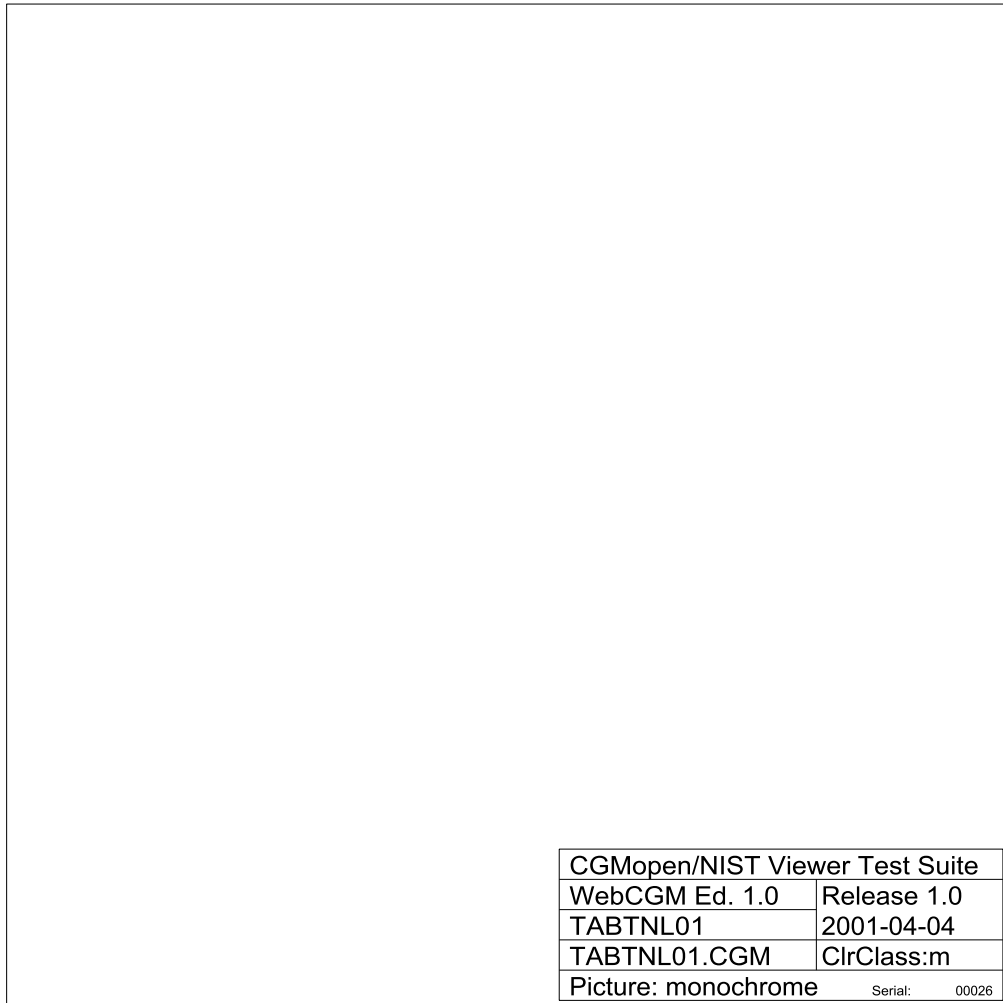
Fig 212, Sheet 2 of 2 SPECMD04

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**3 WebCGM10 - CGM Version 3**

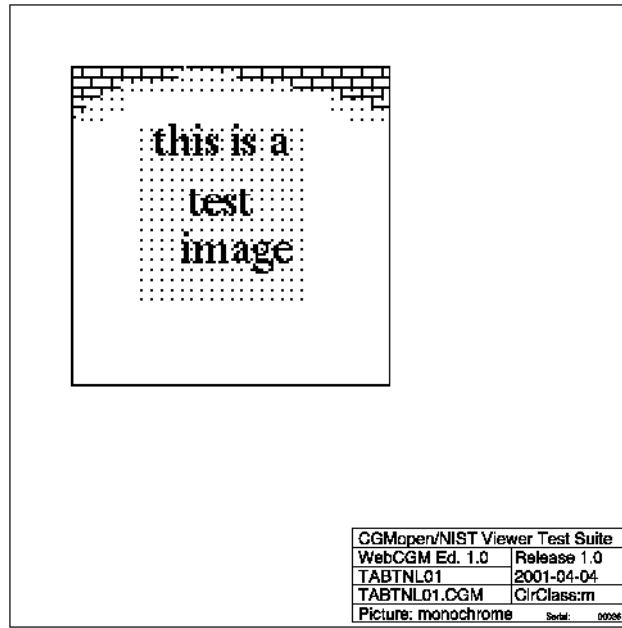
**3.1 Tile Array Elements**

**3.1.1 TABTNL01**



TABTNL01-CGM

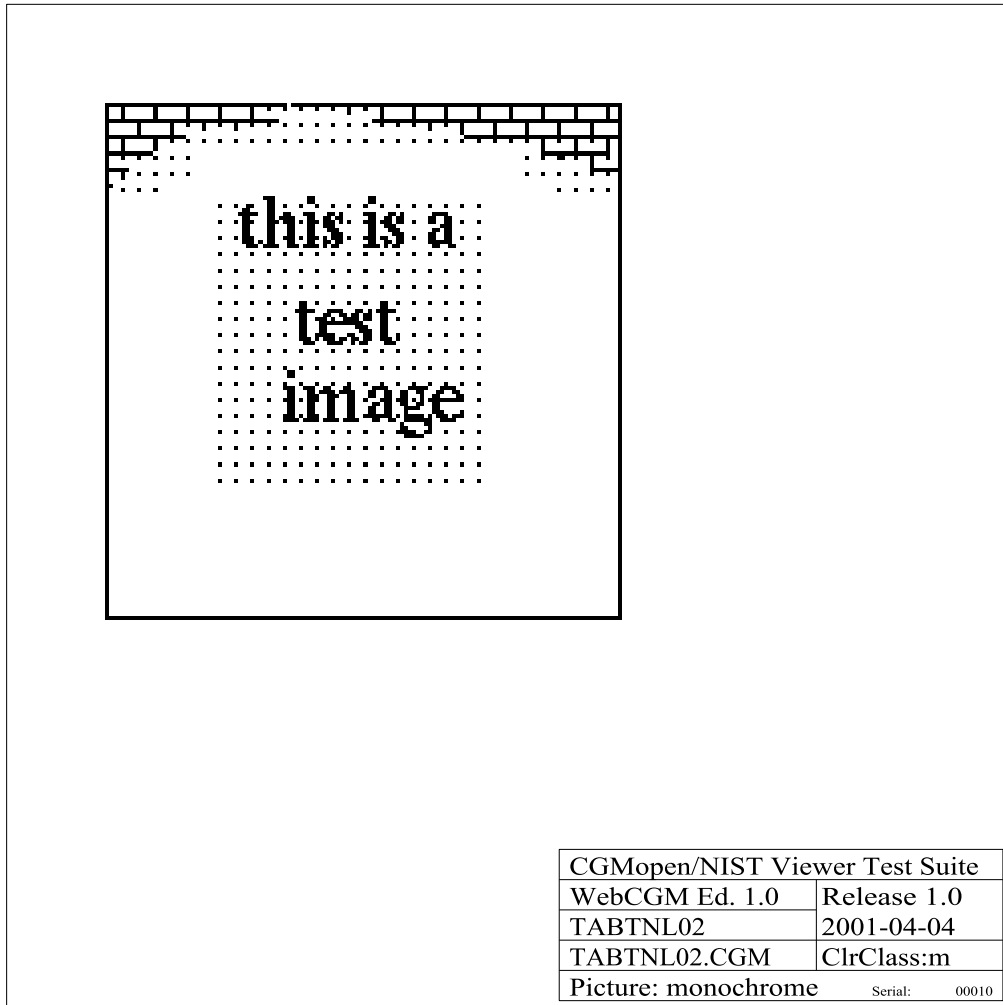
*Fig 213, Sheet 1 of 2 TABTNL01*



TABTNL01-PNG

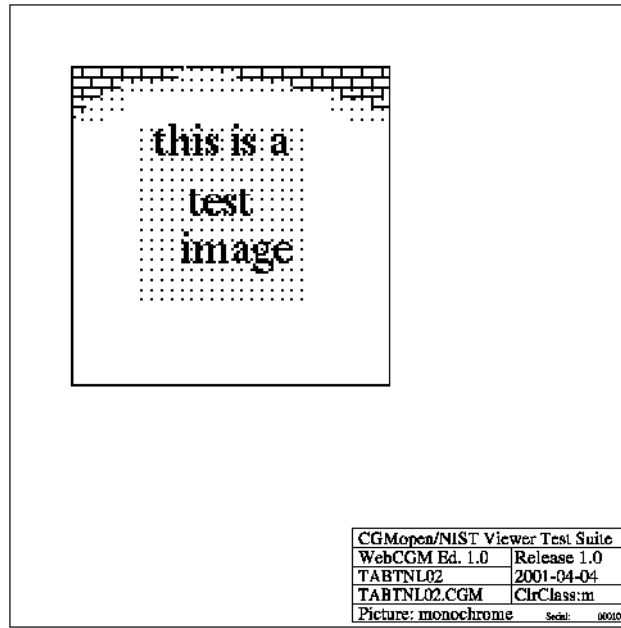
Fig 213, Sheet 2 of 2 TABTNL01

3.1.2 TABTNL02



TABTNL02-CGM

Fig 214, Sheet 1 of 2 TABTNL02

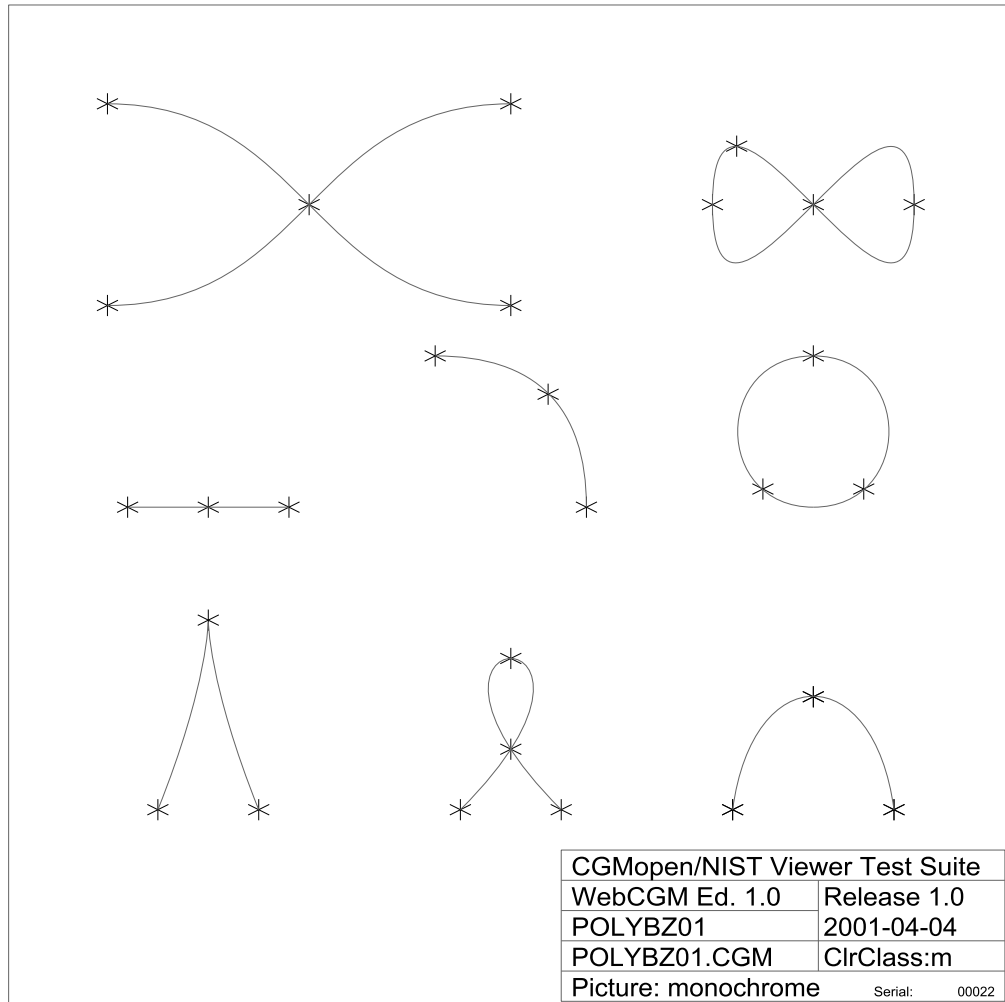


TABTNL02-PNG

Fig 214, Sheet 2 of 2 TABTNL02

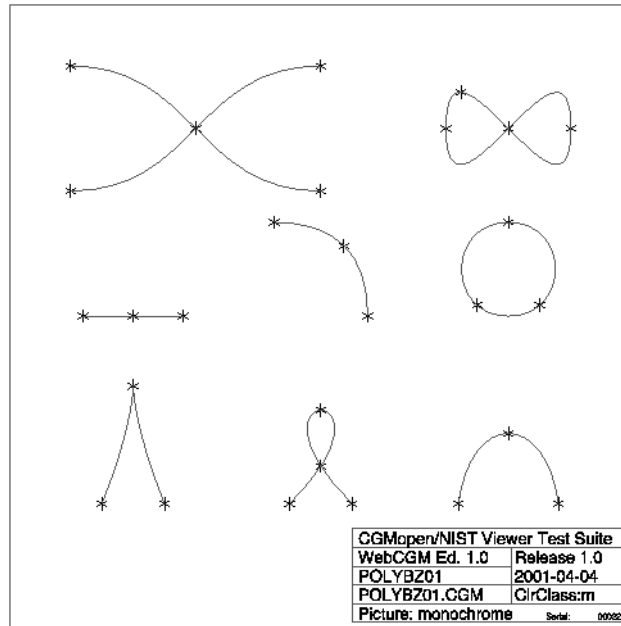
3.2 Line Elements

3.2.1 POLYBZ01



polybz01-CGM

Fig 215, Sheet 1 of 2 POLYBZ01

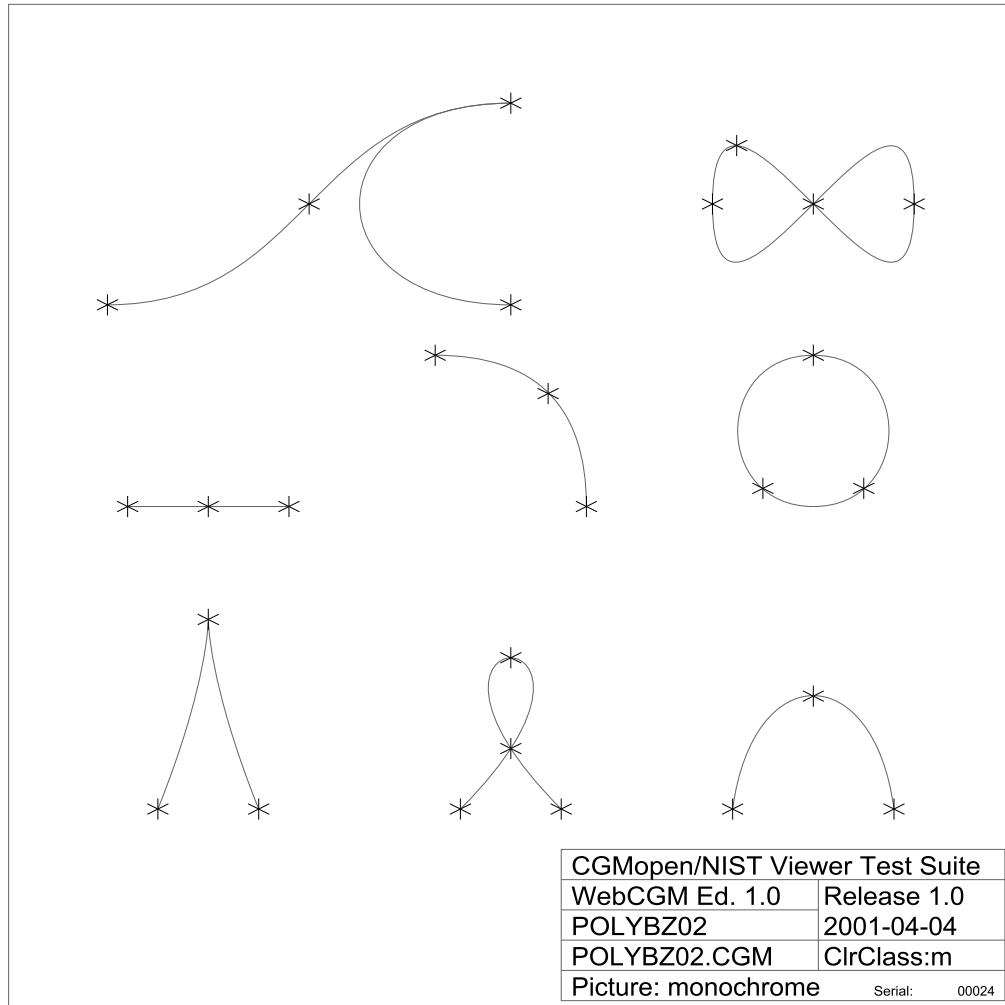


polybz01-PNG

Fig 215, Sheet 2 of 2 POLYBZ01

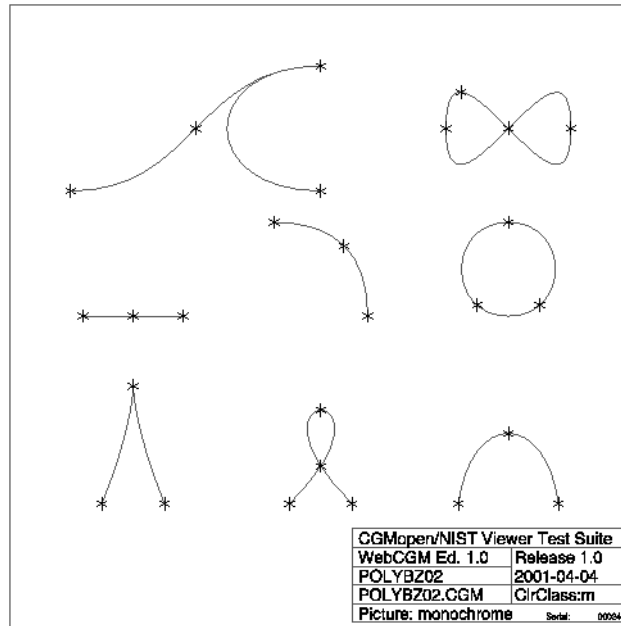


3.2.2 POLYBZ02



polybz02-CGM

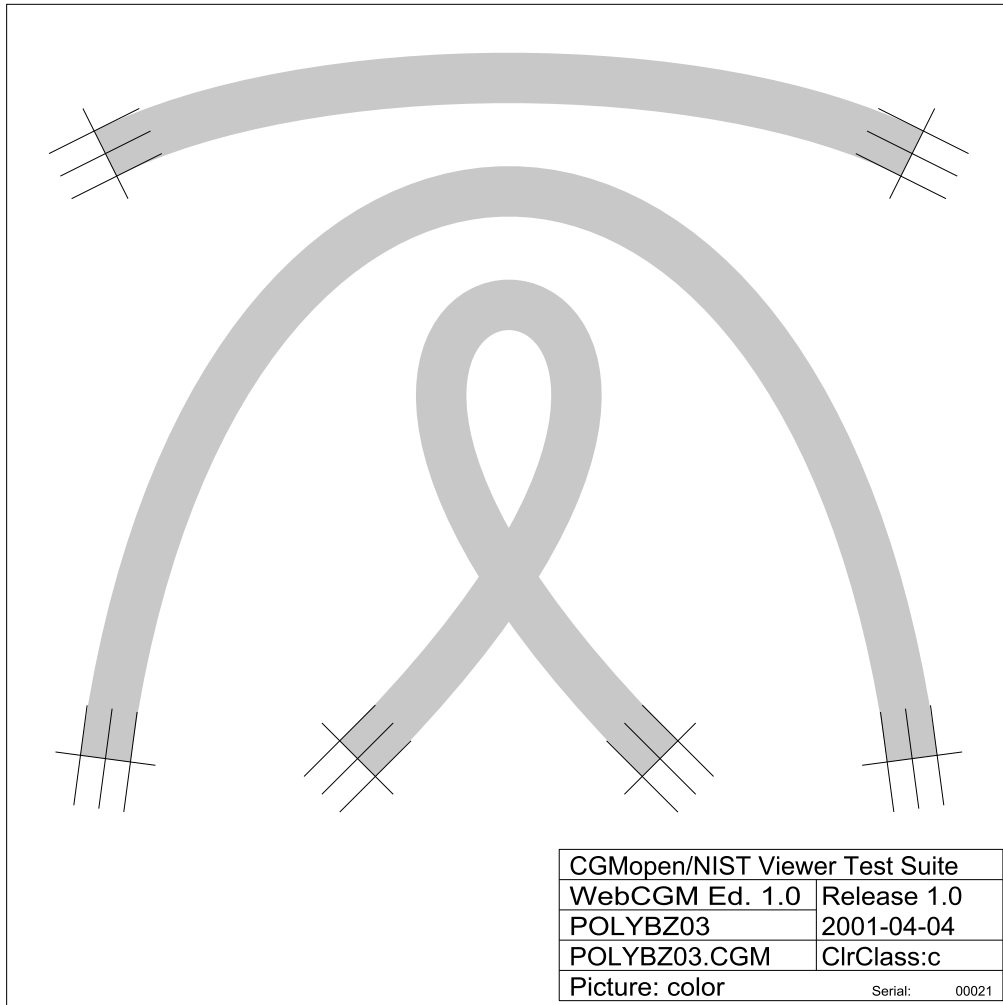
Fig 216, Sheet 1 of 2 POLYBZ02



polybz02-PNG

Fig 216, Sheet 2 of 2 POLYBZ02

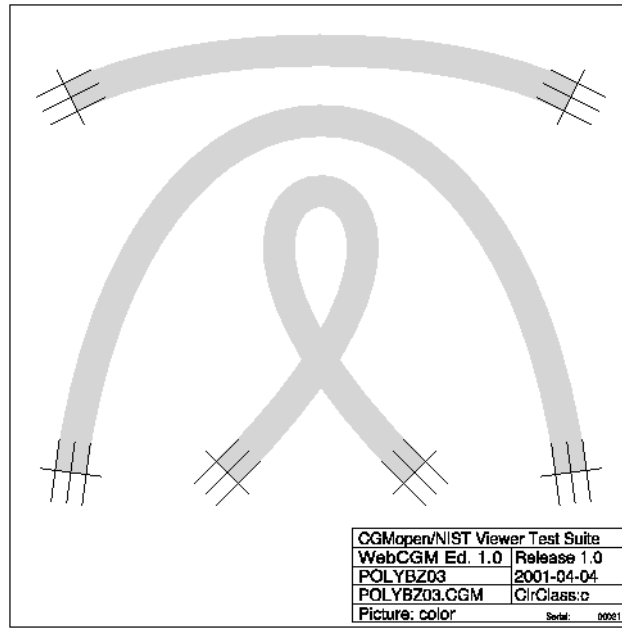
3.2.3 POLYBZ03



polybz03-CGM

Fig 217, Sheet 1 of 2 POLYBZ03

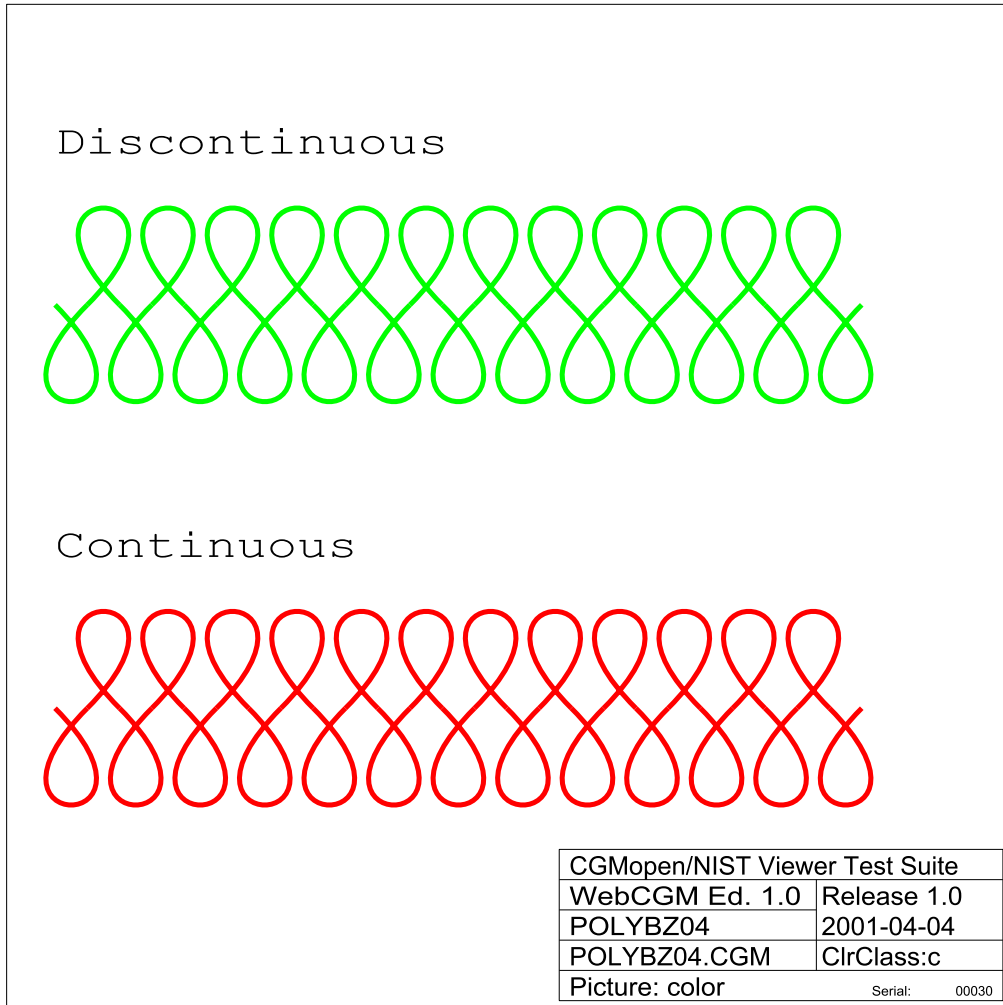
Produced by Docuneering Ltd.



polybz03-PNG

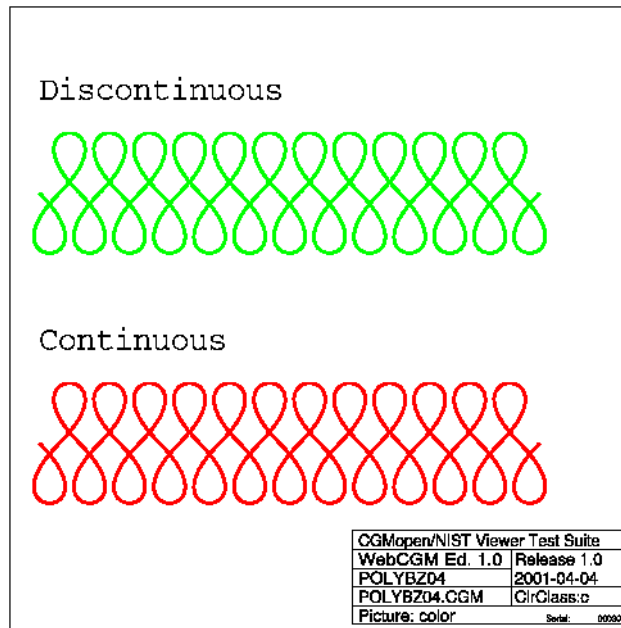
Fig 217, Sheet 2 of 2 POLYBZ03

3.2.4 POLYBZ04



POLYBZ04-CGM

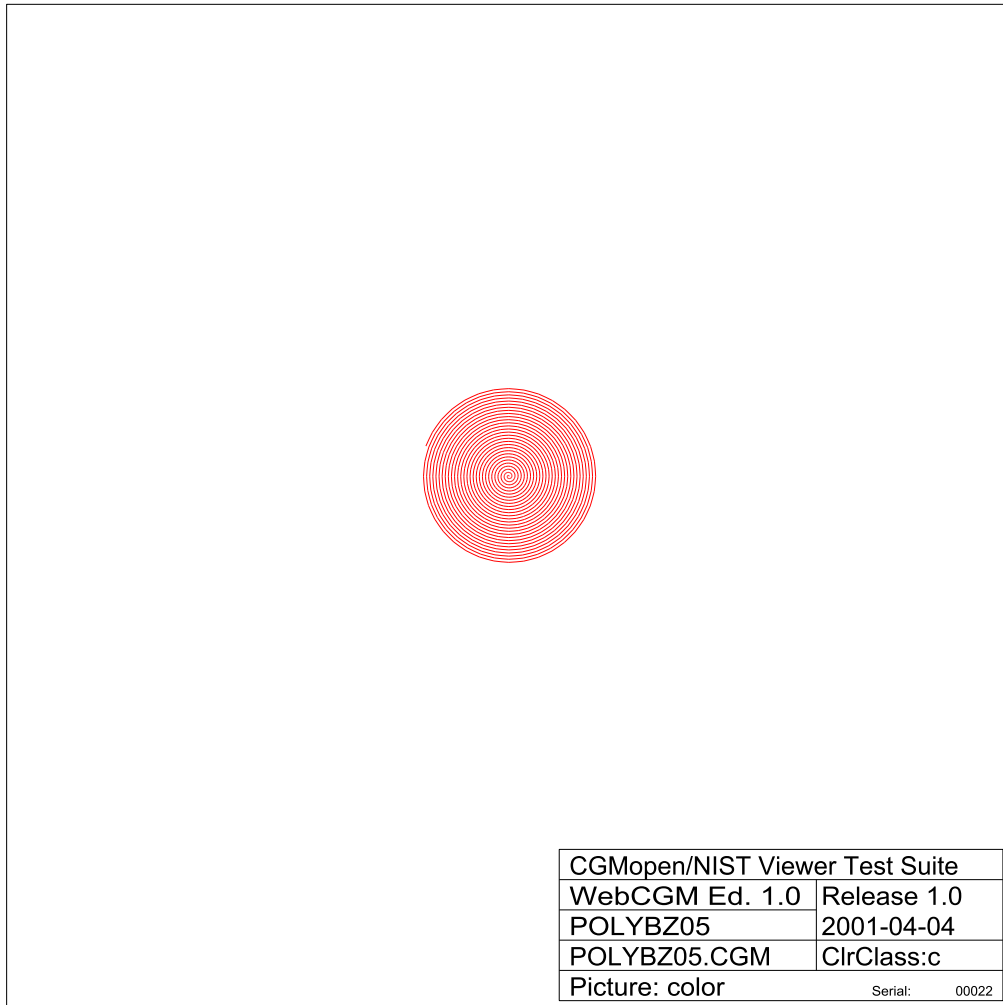
Fig 218, Sheet 1 of 2 POLYBZ04



POLYBZ04-PNG

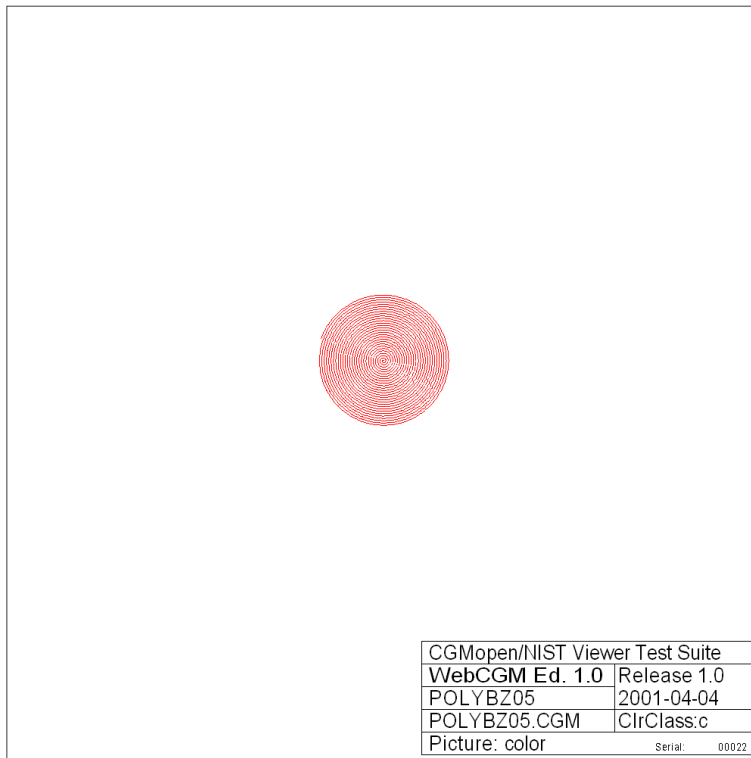
Fig 218, Sheet 2 of 2 POLYBZ04

3.2.5 POLYBZ05



POLYBZ05-CGM

Fig 219, Sheet 1 of 2 POLYBZ05

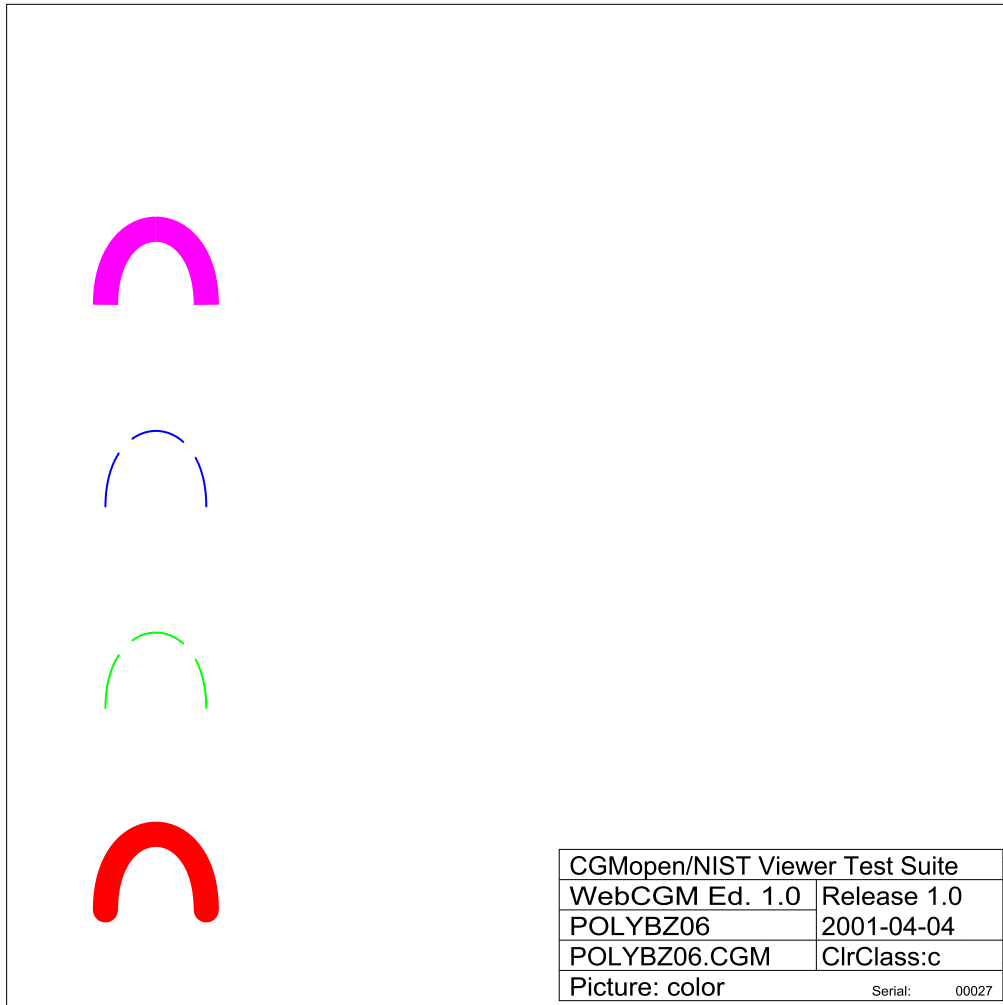


POLYBZ05-PNG

Fig 219, Sheet 2 of 2 POLYBZ05

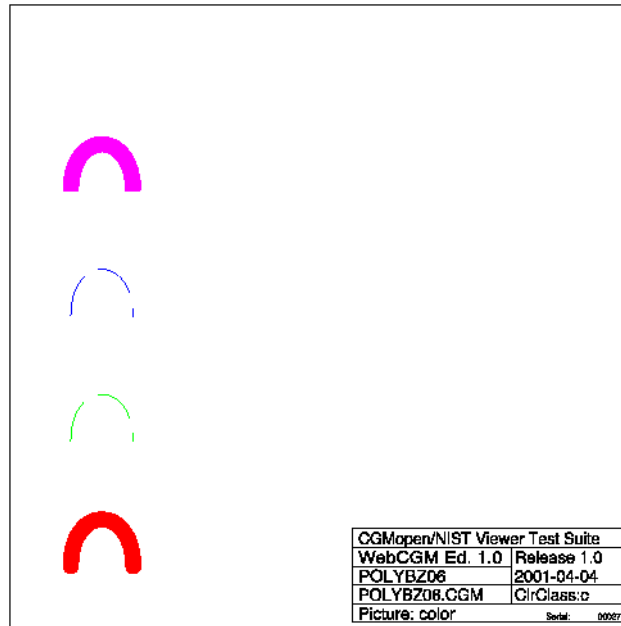


3.2.6 POLYBZ06



POLYBZ06-CGM

Fig 220, Sheet 1 of 2 POLYBZ06

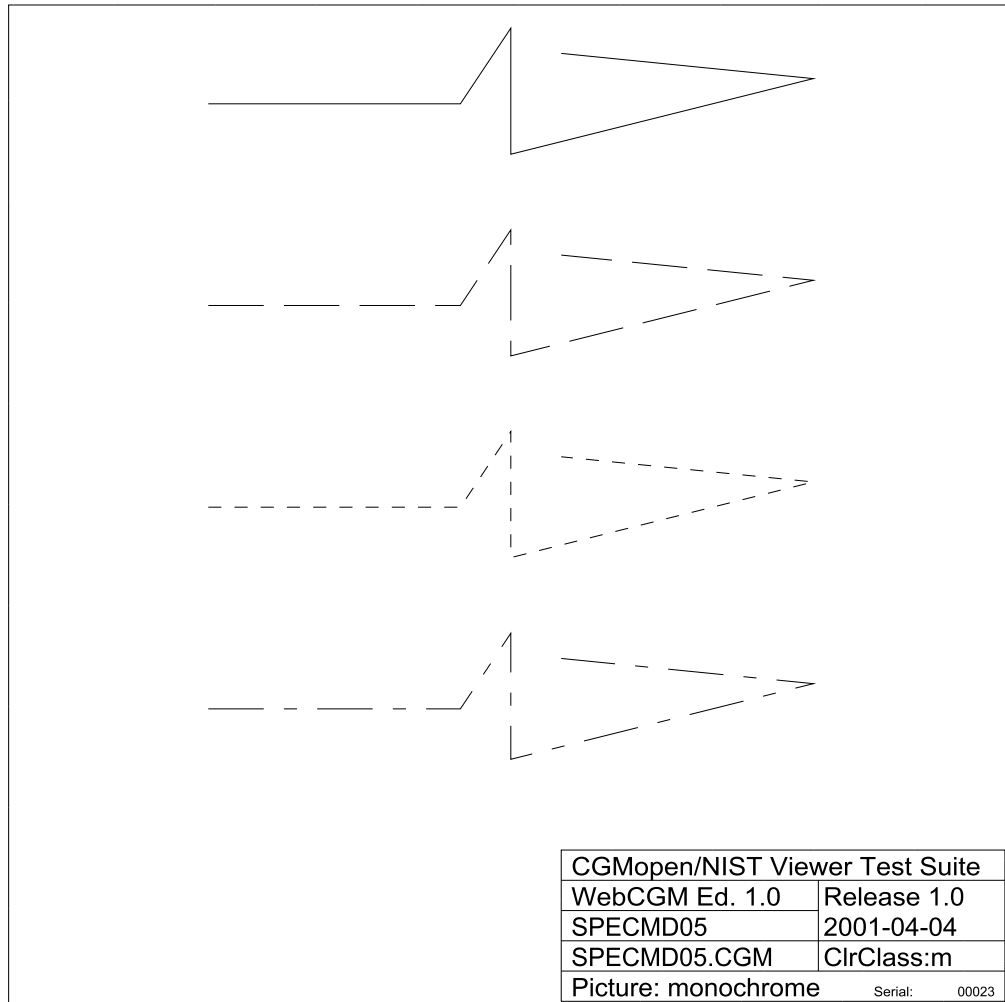


POLYBZ06-PNG

Fig 220, Sheet 2 of 2 POLYBZ06

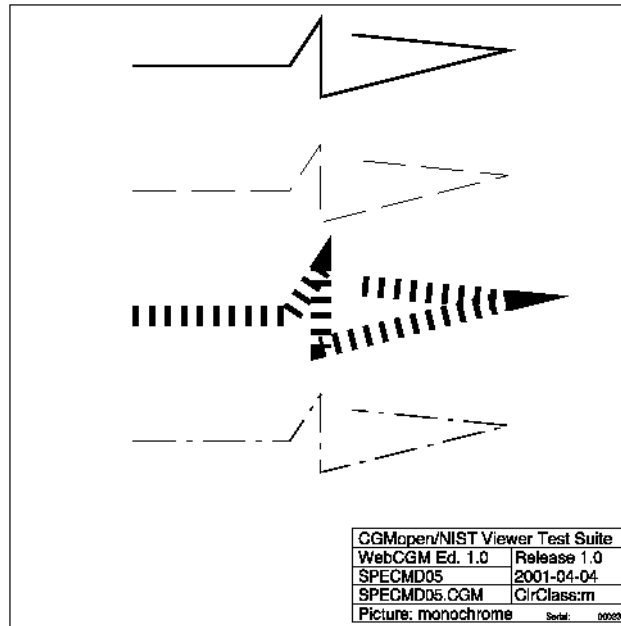
3.3 Modes

3.3.1 SPECMD05



SPECMD05-CGM

Fig 221, Sheet 1 of 2 SPECMD05

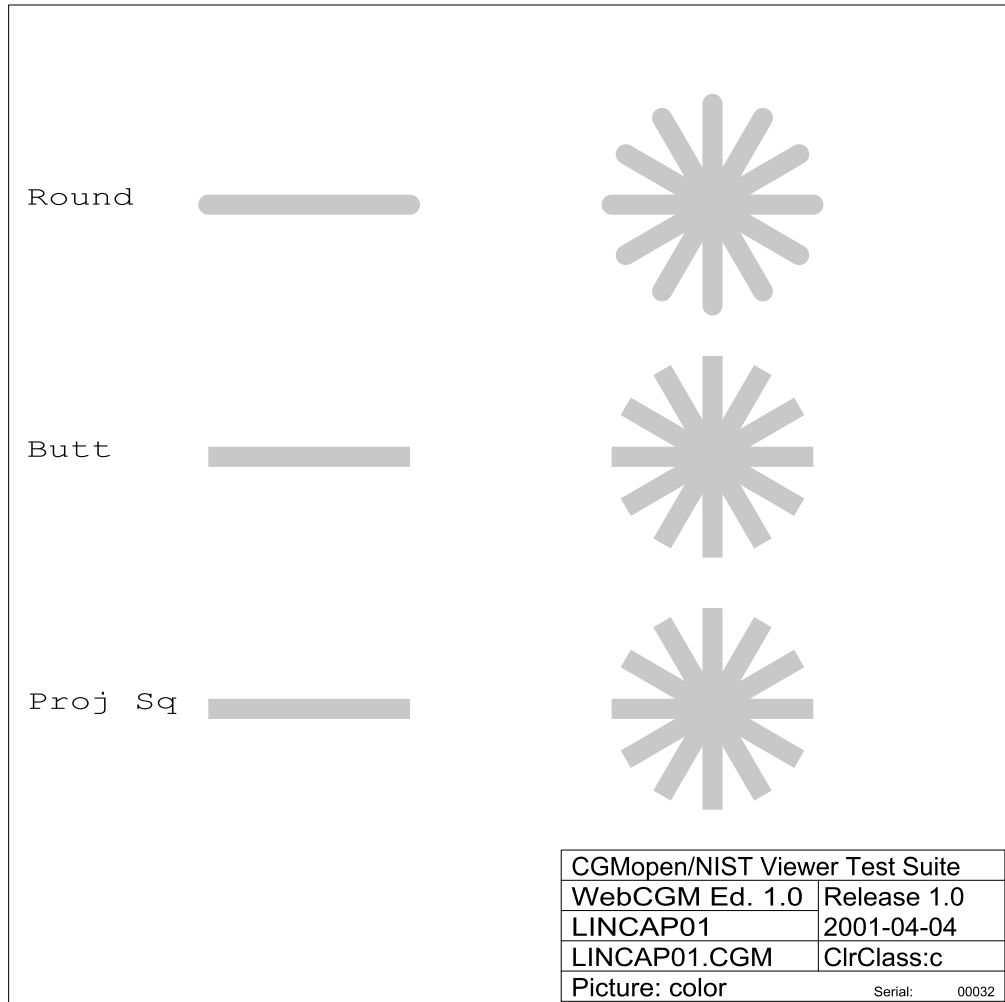


SPECMD05-PNG

Fig 221, Sheet 2 of 2 SPECMD05

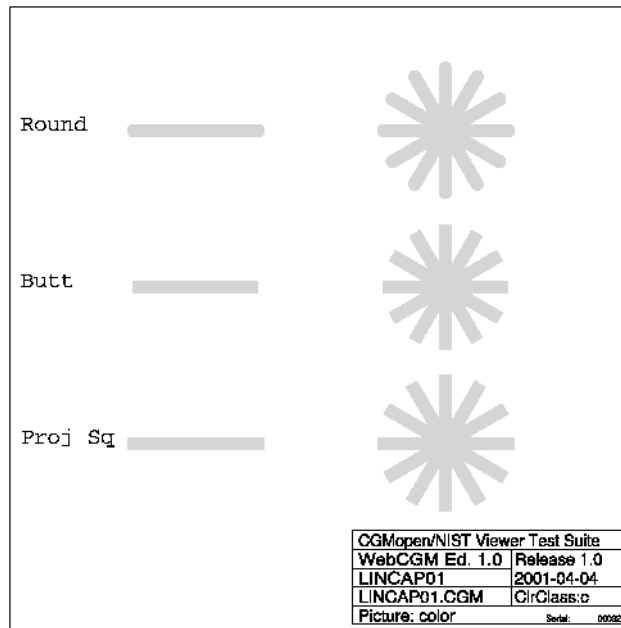
3.4 Line/Edge Caps and Joins

3.4.1 LINCAP01



LINCAP01-CGM

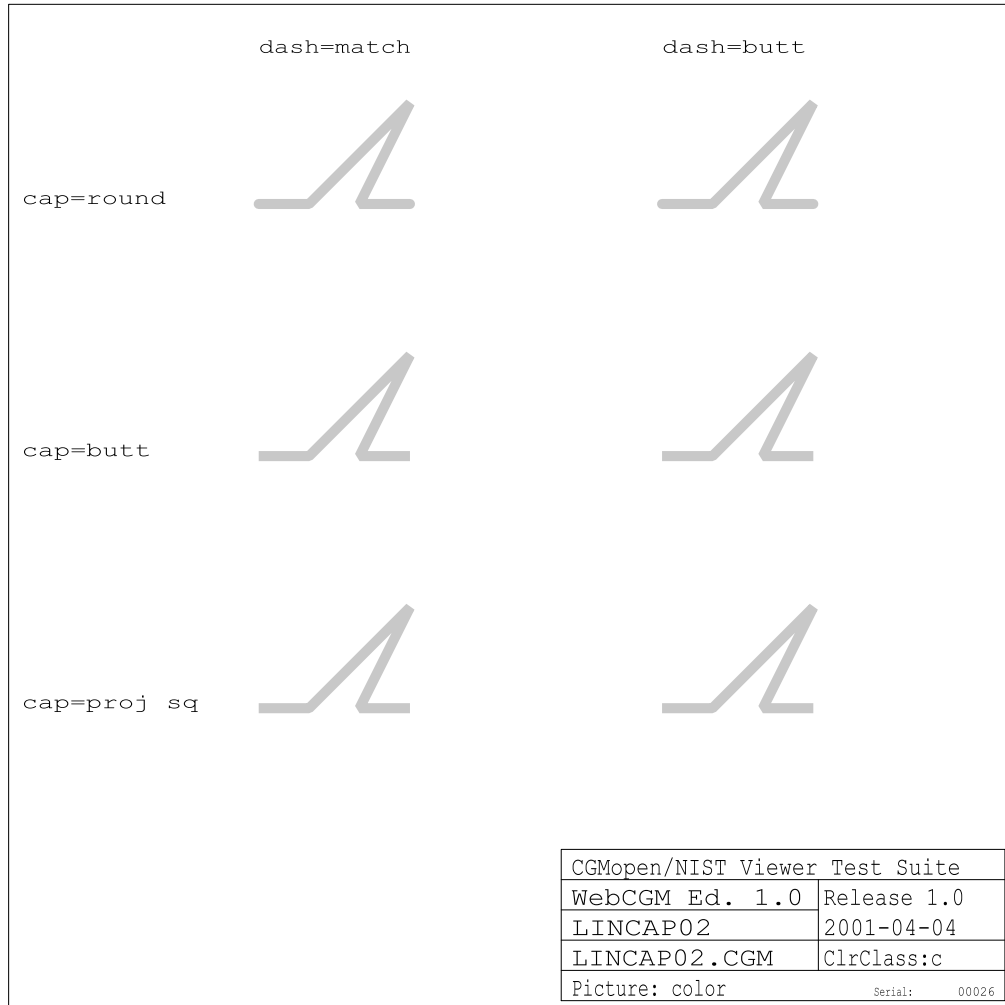
Fig 222, Sheet 1 of 2 LINCAP01



LINCAP01-PNG

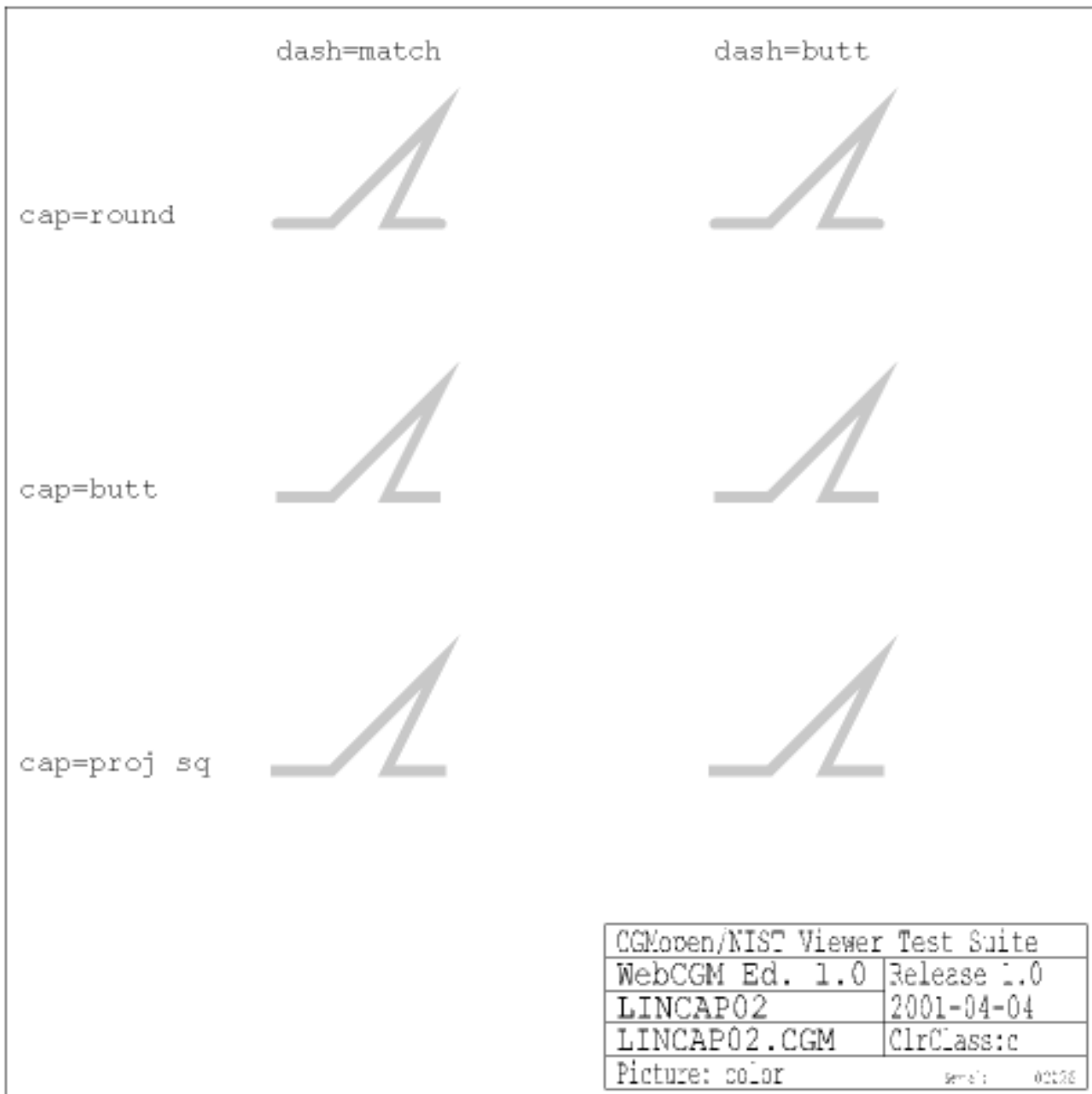
Fig 222, Sheet 2 of 2 LINCAP01

3.4.2 LINCAP02



LINCAP02-CGM

Fig 223, Sheet 1 of 2 LINCAP02

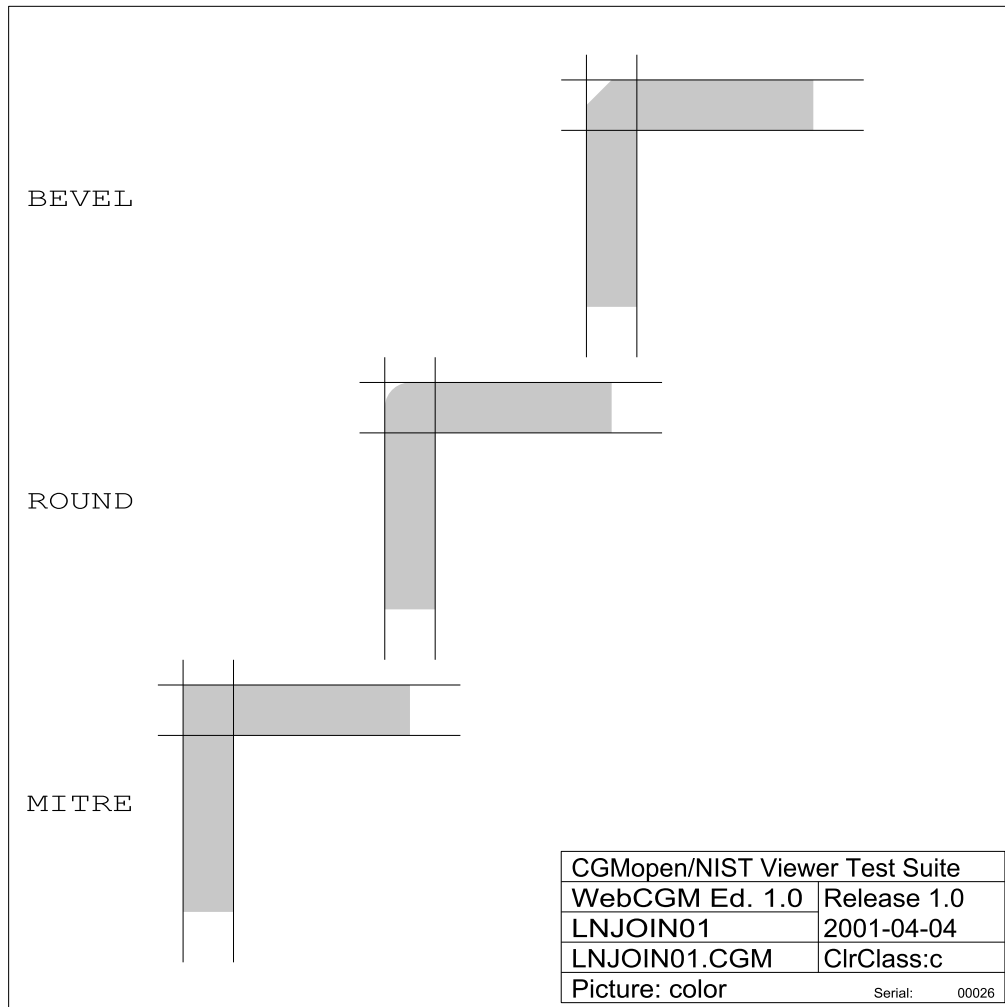


LINCAP02-PNG

Fig 223, Sheet 2 of 2 LINCAP02

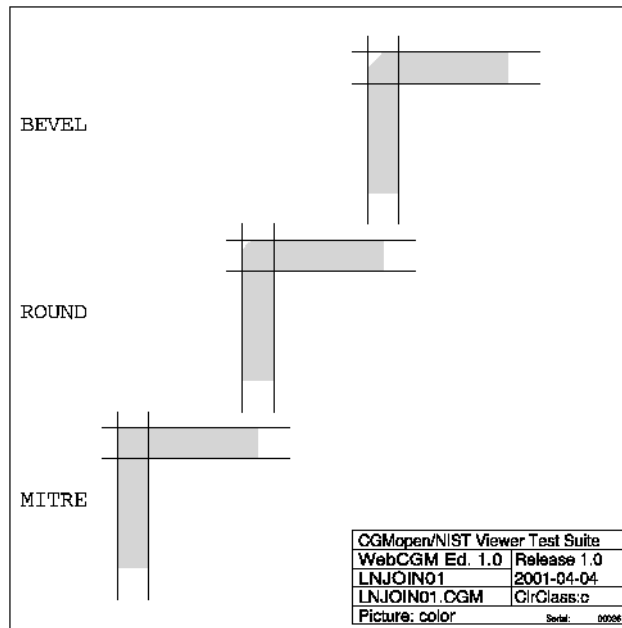


3.4.3 LNJOIN01



LNJOIN01-CGM

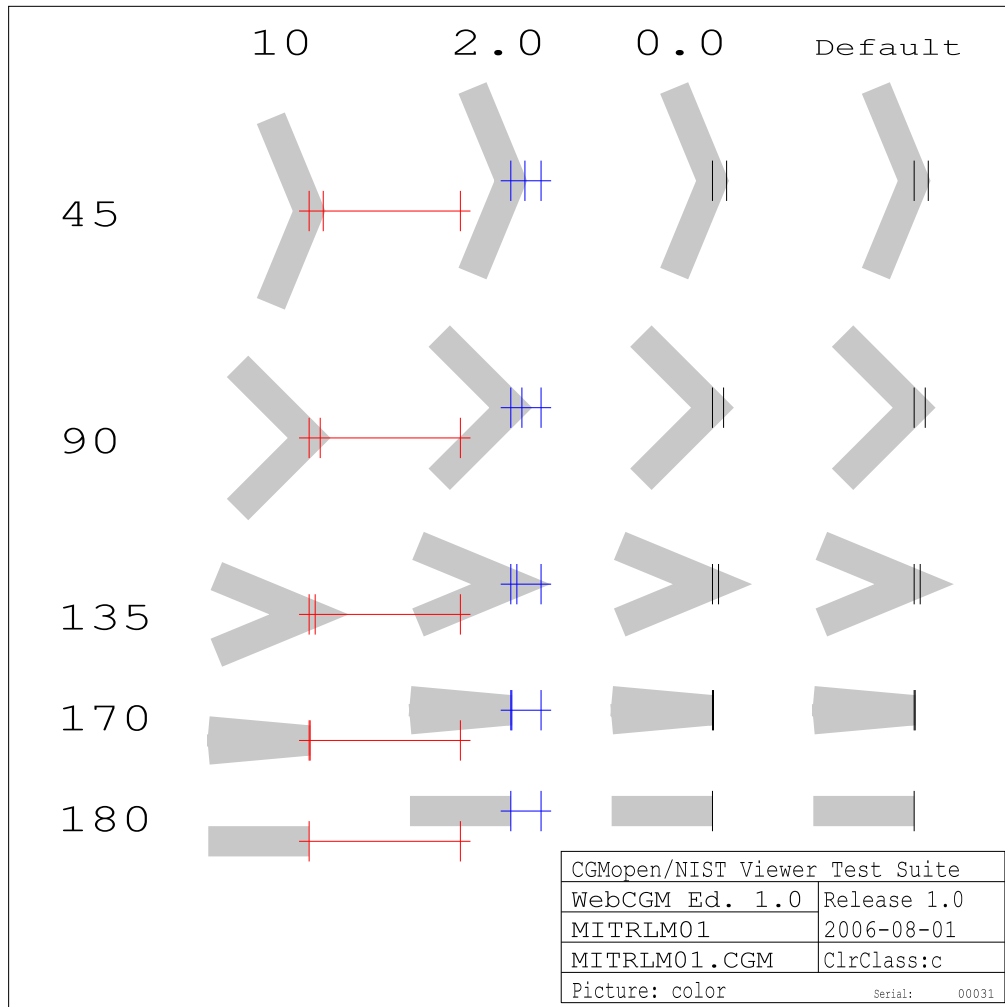
Fig 224, Sheet 1 of 2 LNJOIN01



LNJOIN01-PNG

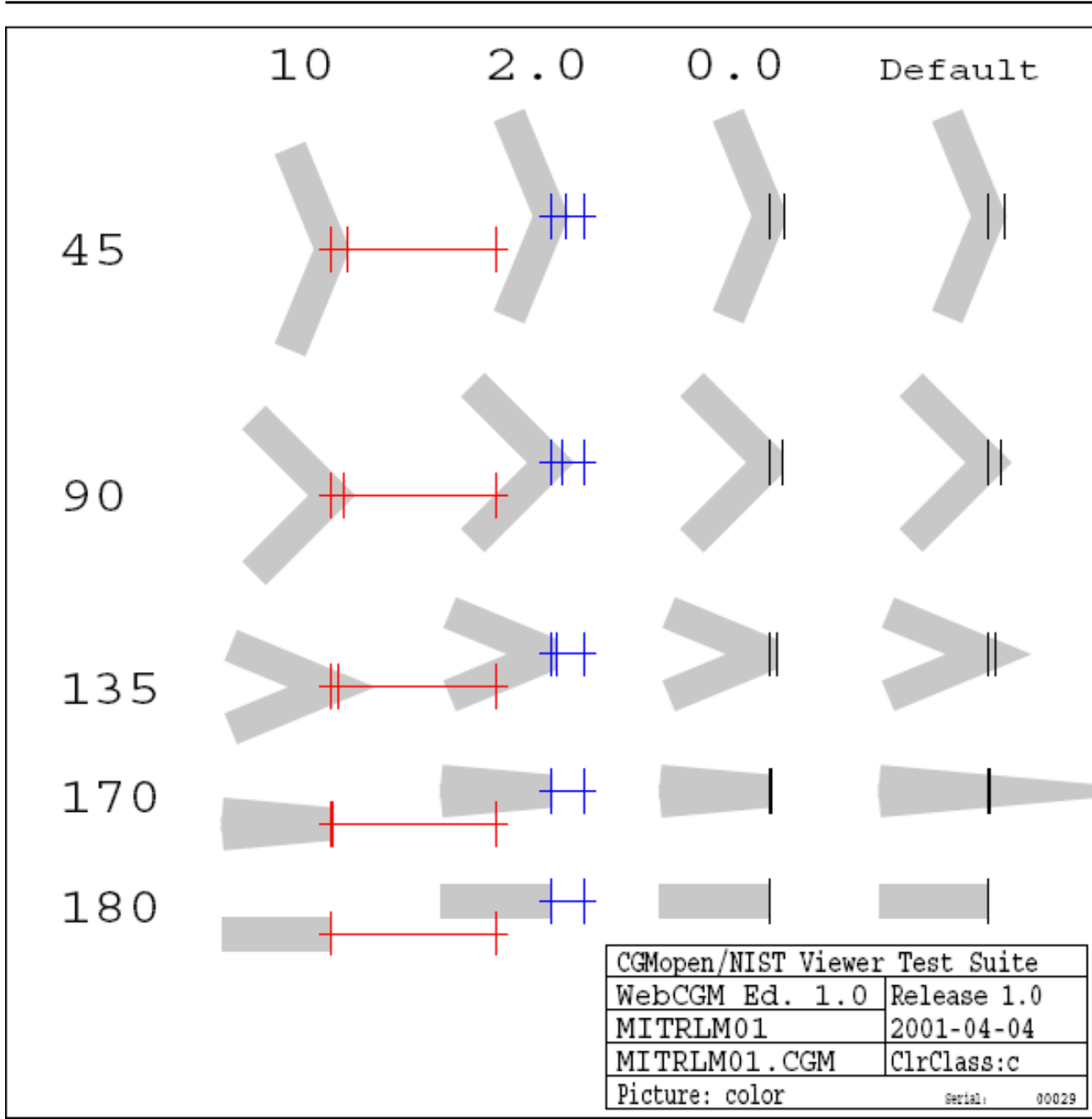
Fig 224, Sheet 2 of 2 LNJOIN01

3.4.4 MITRLM01



MITRLM01-CGM

Fig 225, Sheet 1 of 2 MITRLM01

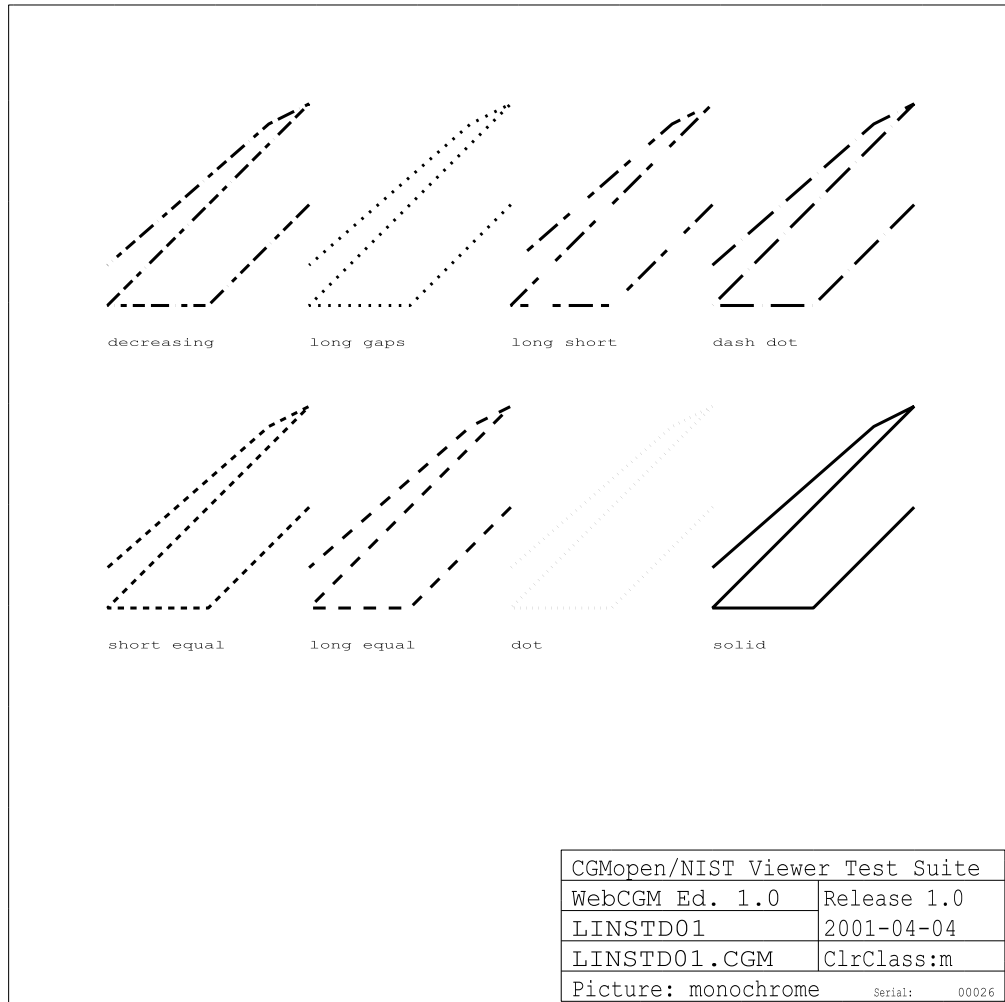


MITRLM01-PNG

Fig 225, Sheet 2 of 2 MITRLM01

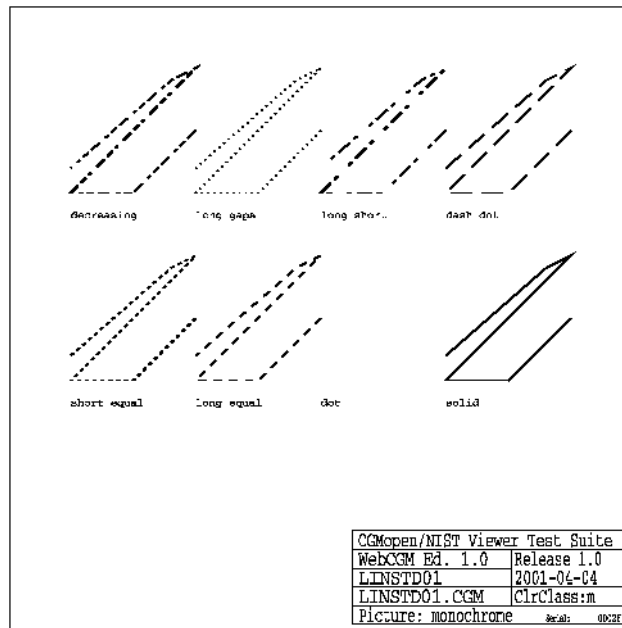
3.5 Line Style Definition

3.5.1 LINSTD01



LINSTD01-CGM

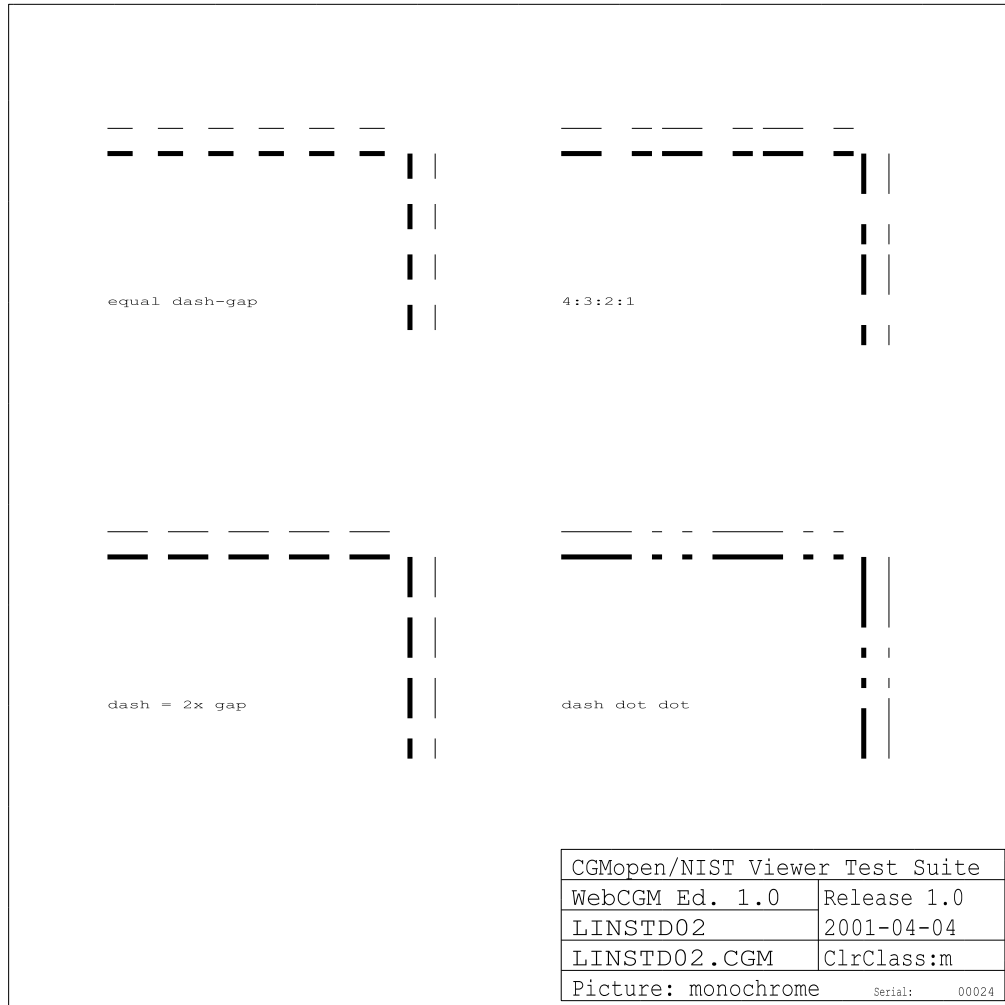
Fig 226, Sheet 1 of 2 LINSTD01



LINSTD01-PNG

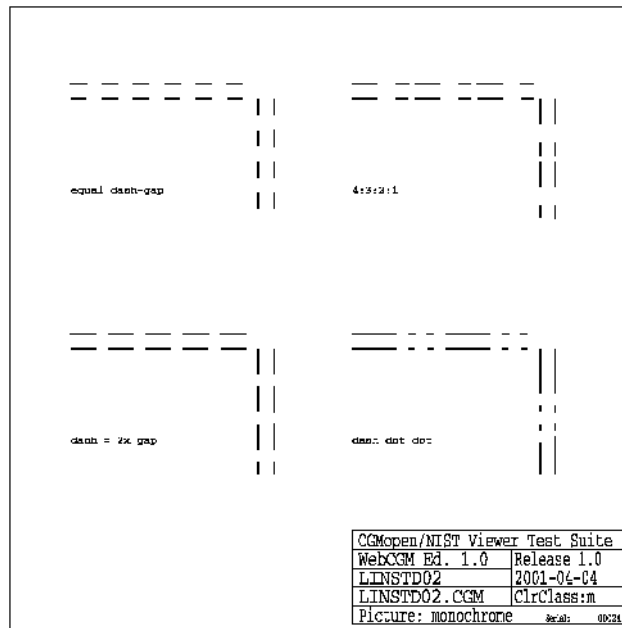
Fig 226, Sheet 2 of 2 LINSTD01

3.5.2 LINSTD02



LINSTD02-CGM

Fig 227, Sheet 1 of 2 LINSTD02

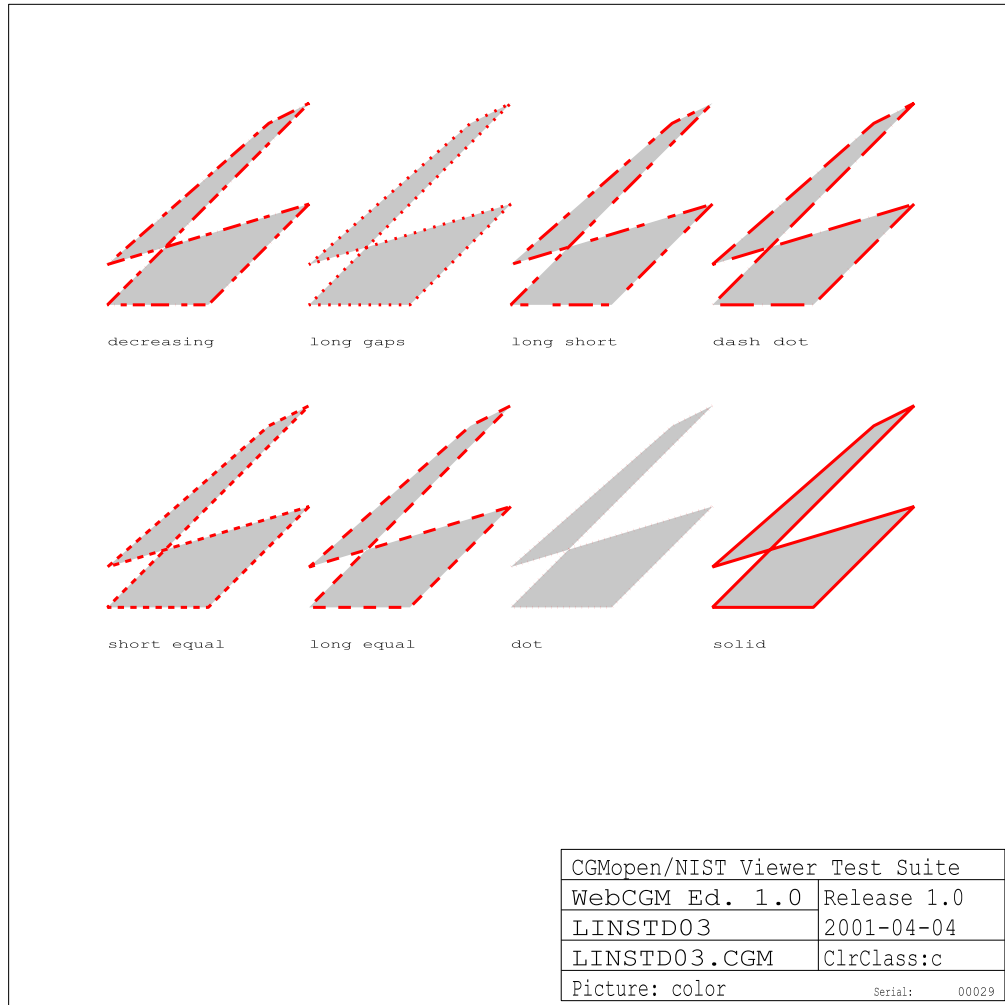


LINSTD02-PNG

Fig 227, Sheet 2 of 2 LINSTD02

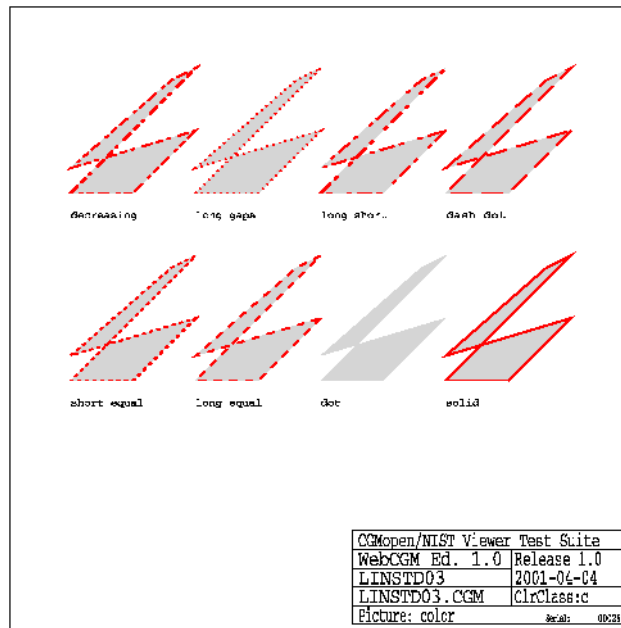


3.5.3 LINSTD03



LINSTD03-CGM

Fig 228, Sheet 1 of 2 LINSTD03

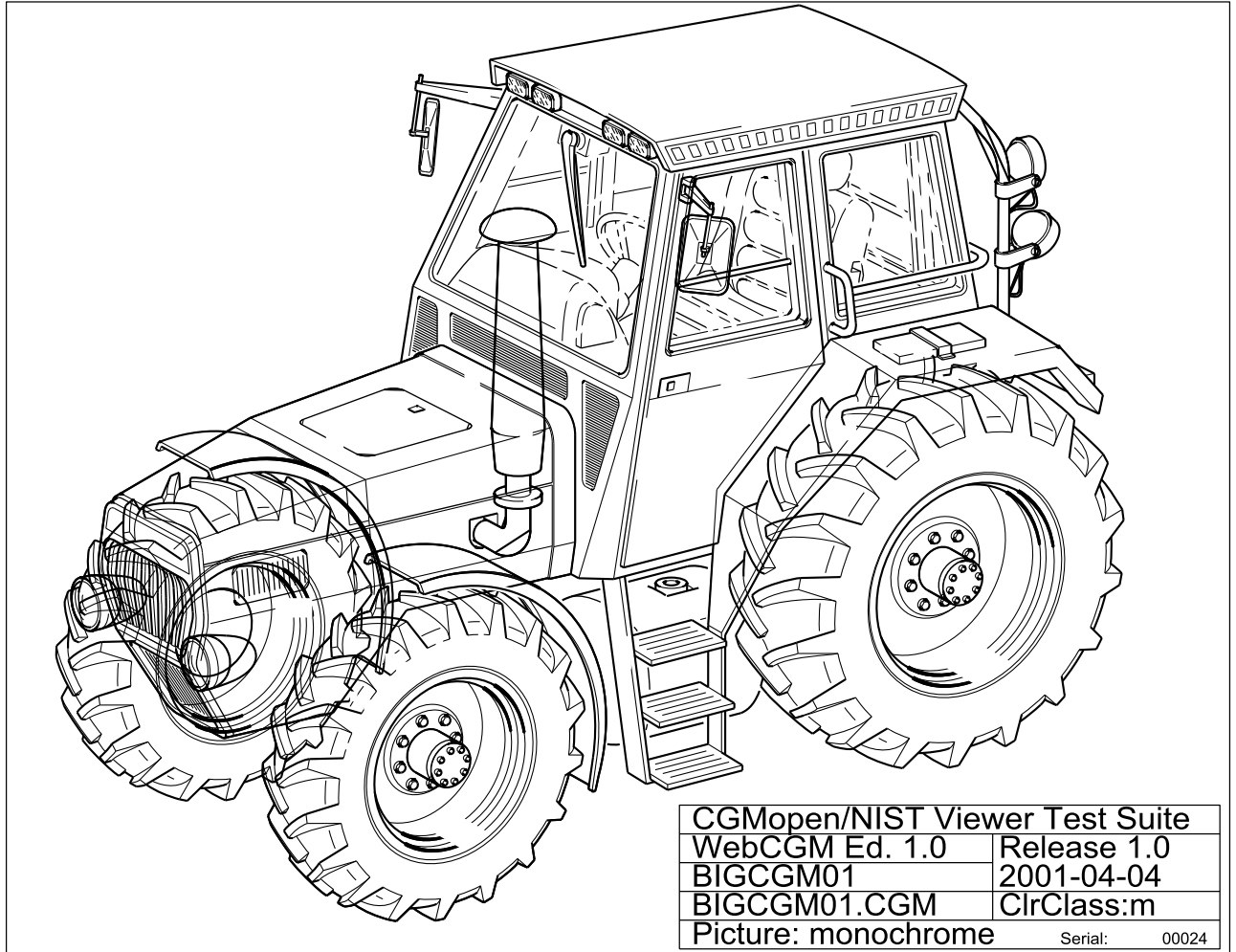


LINSTD03-PNG

Fig 228, Sheet 2 of 2 LINSTD03

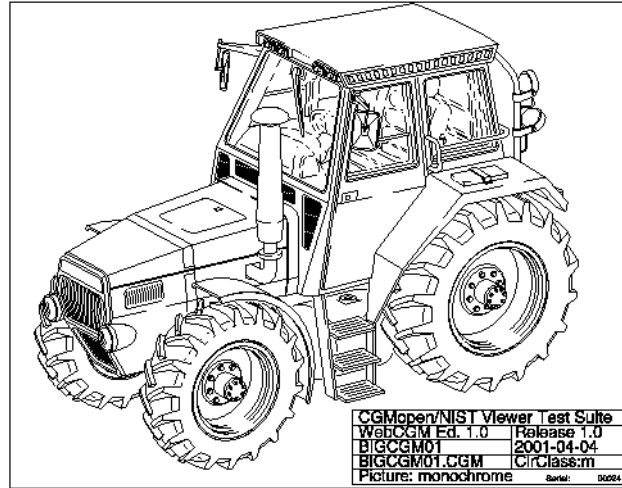
3.6 Metafile Size

3.6.1 BIGCGM01



BIGCGM01-CGM

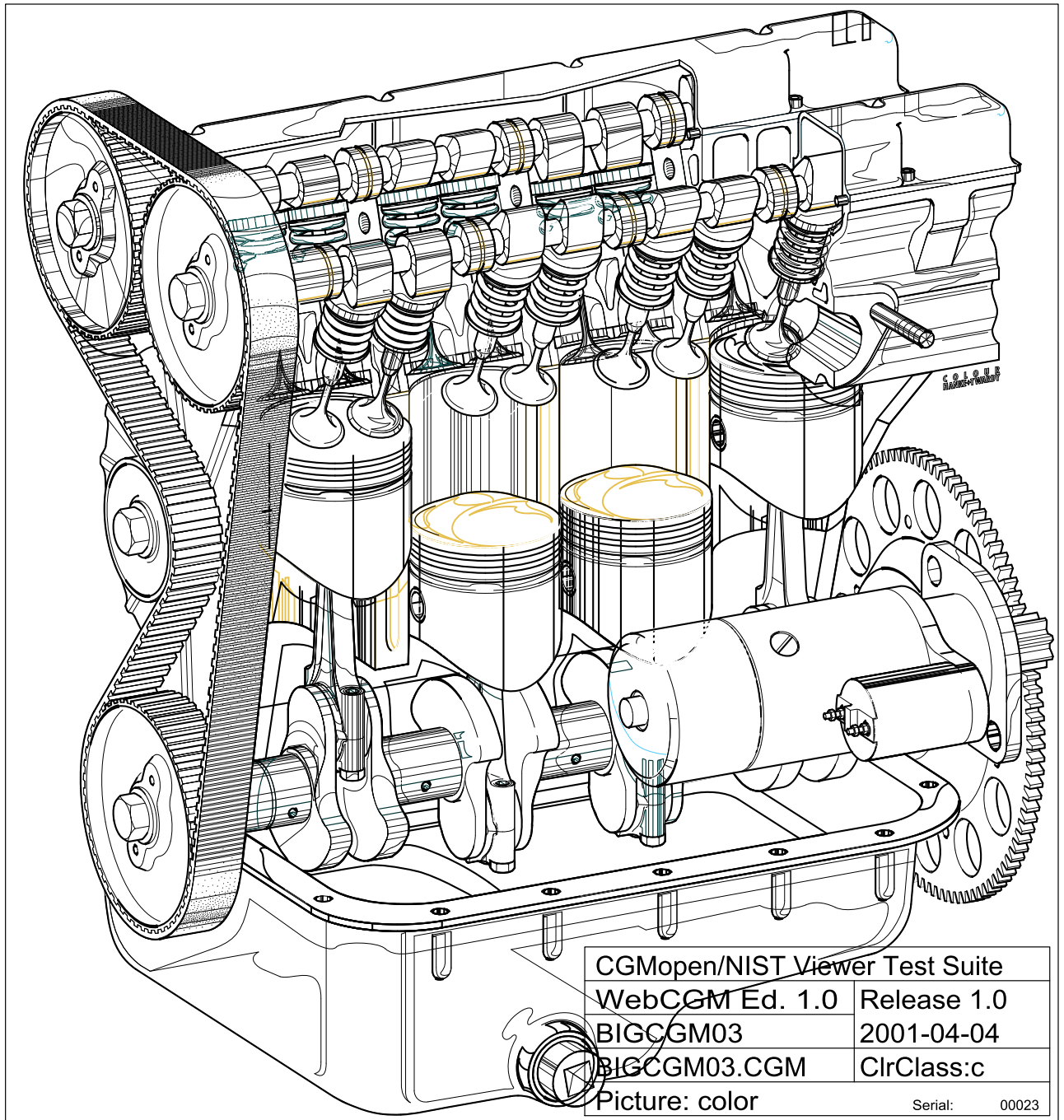
Fig 229, Sheet 1 of 2 BIGCGM01



BIGCGM01-PNG

Fig 229, Sheet 2 of 2 BIGCGM01

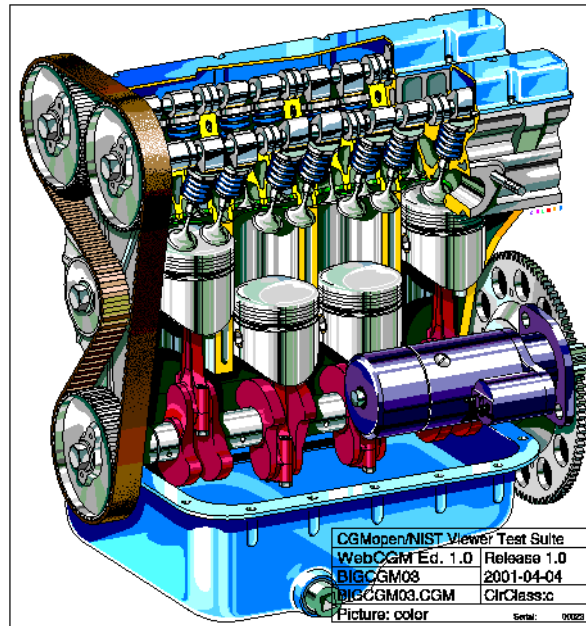
3.6.2 BIGCGM03



BIGCGM03-CGM

Fig 230, Sheet 1 of 2 BIGCGM03

Produced by Docuneering Ltd.

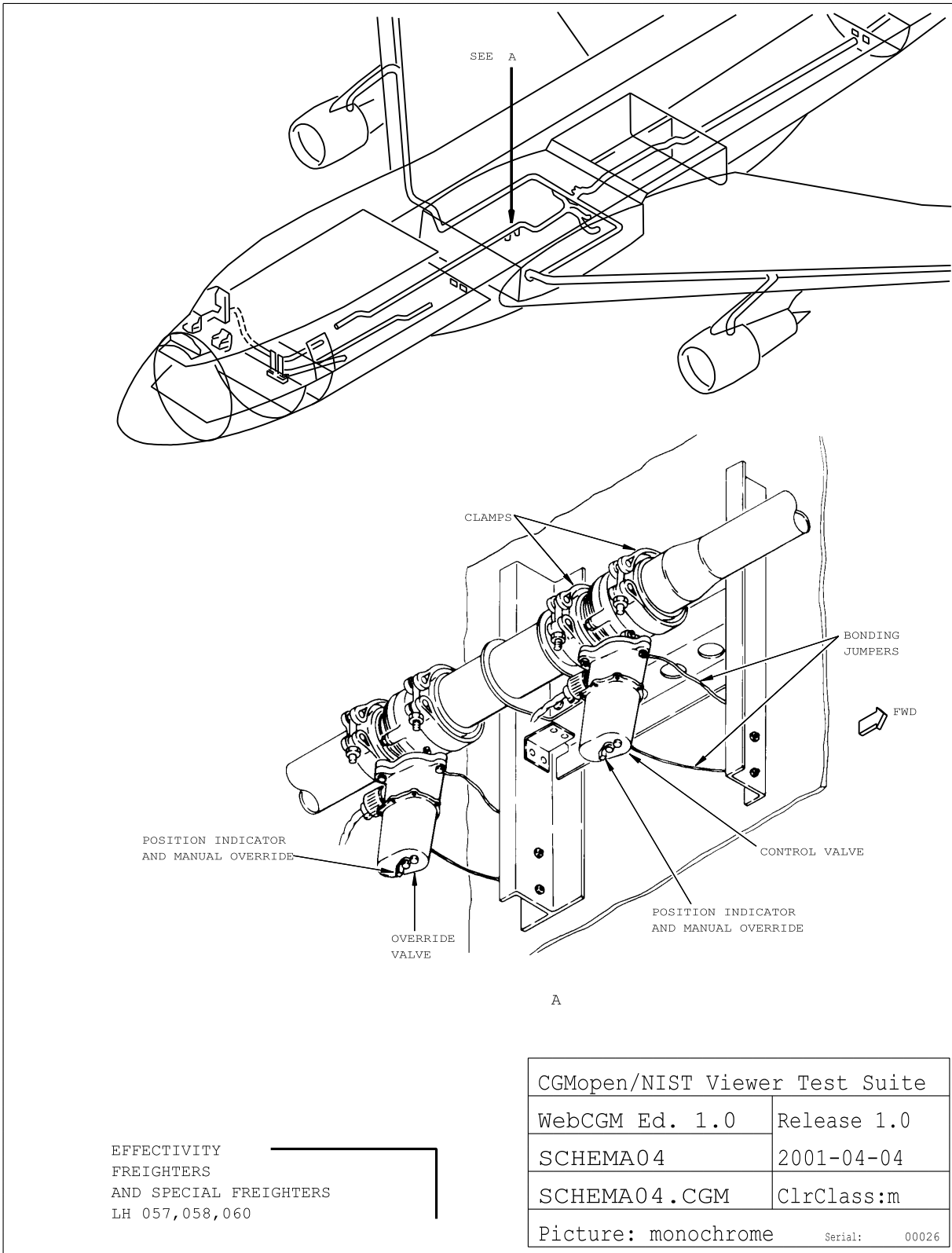


BIGCGM03-PNG

Fig 230, Sheet 2 of 2 BIGCGM03

**3.7 Schematics**

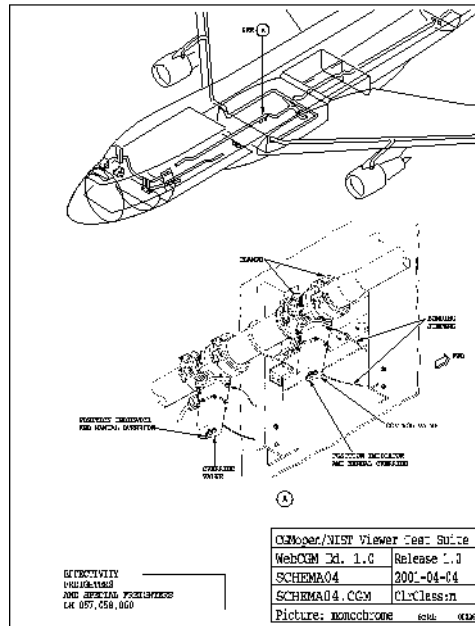
**3.7.1 SCHEMA04**



SCHEMA04-CGM

Fig 231, Sheet 1 of 2 SCHEMA04

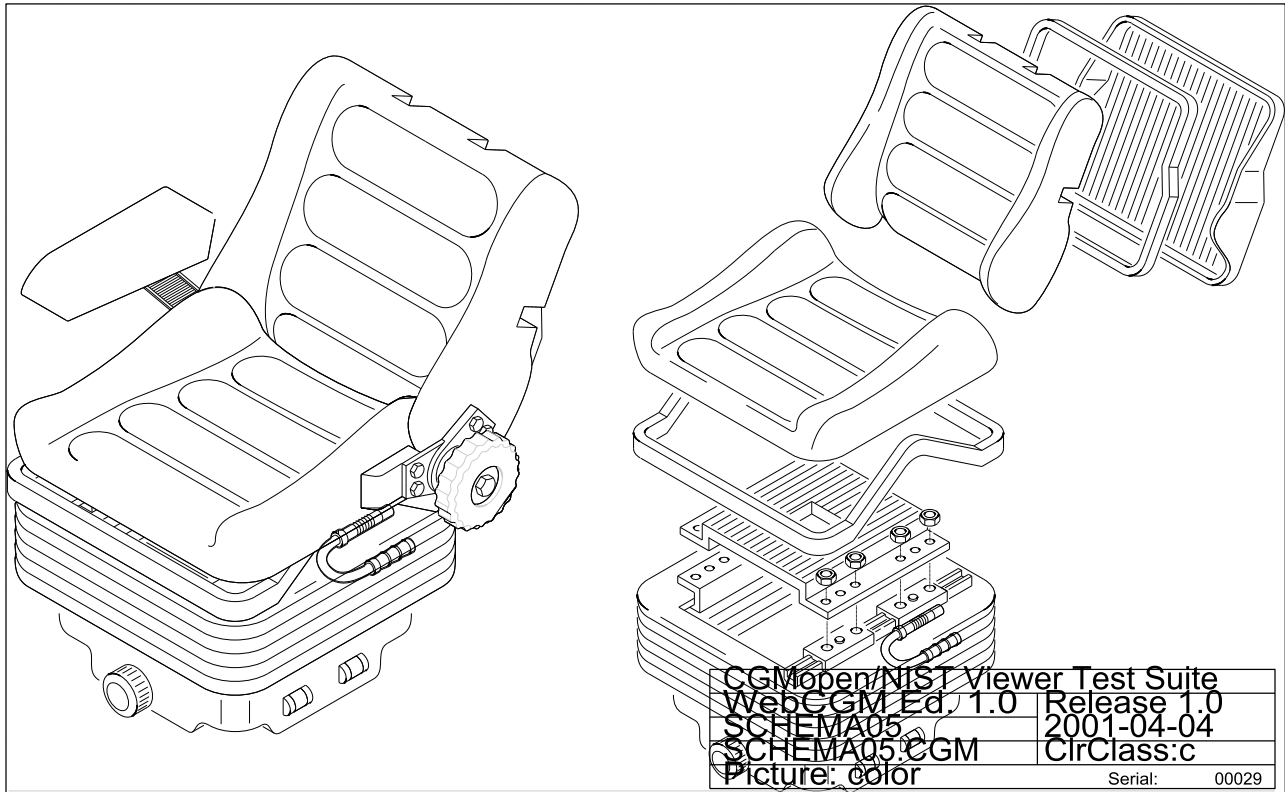




SCHEMA04-PNG

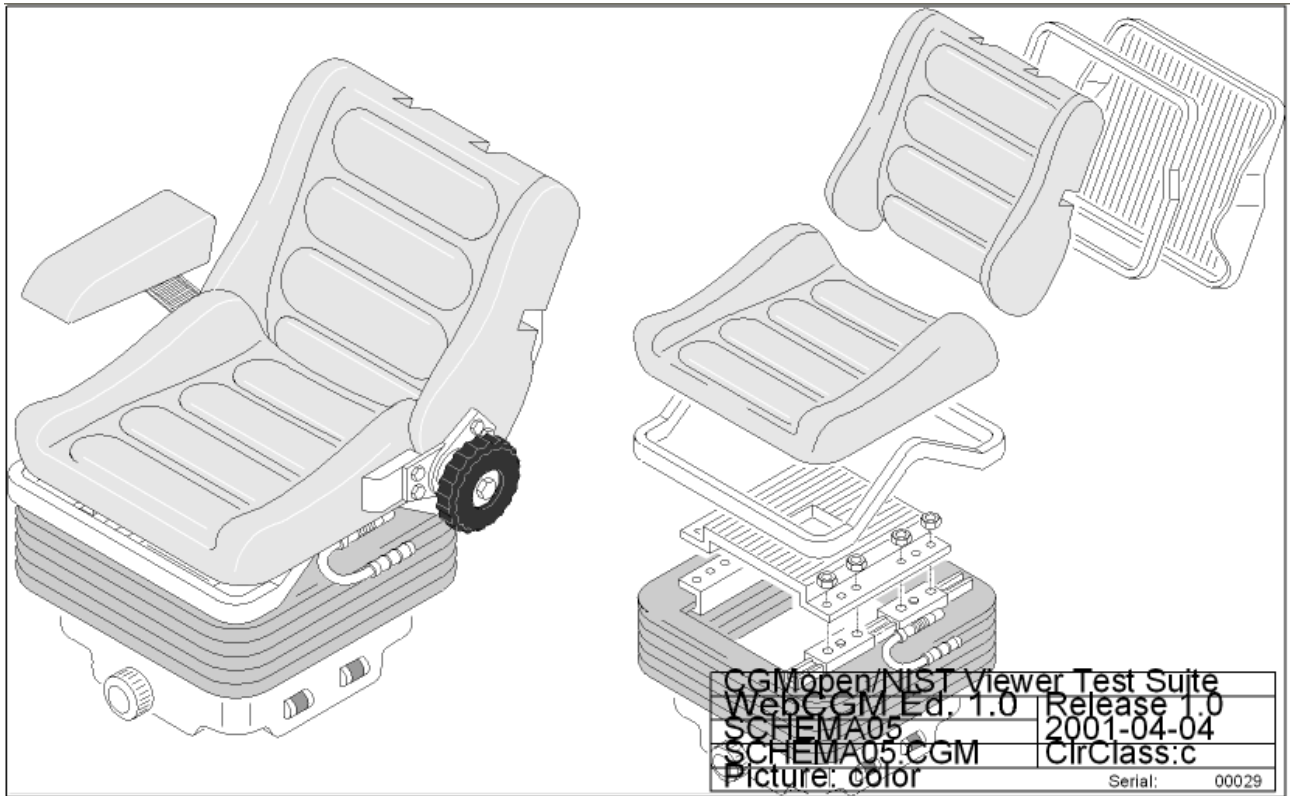
Fig 231, Sheet 2 of 2 SCHEMA04

3.7.2 SCHEMA05



SCHEMA05-CGM

Fig 232, Sheet 1 of 2 SCHEMA05



SCHEMA05-PNG

Fig 232, Sheet 2 of 2 SCHEMA05

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