



**CD Art and  
Print  
Specifications**

**rev January 2004**

# CD Art Specs

We can output your CD Art films. We accept documents in the following formats:

## Mac Platform:

- QuarkXpress
- Adobe Illustrator
- Adobe Pagemaker
- Adobe InDesign
- Macromedia Freehand
- Adobe Photoshop *(note—Photoshop files MUST be at 300 pixels resolution from initial start, especially if using fonts. We do not recommend using fonts in Photoshop. Please contact us BEFORE you submit a complete art file built in Photoshop)*

## PC Platform:

- QuarkXpress
- Adobe Illustrator
- Adobe Pagemaker
- Adobe InDesign
- Macromedia Freehand
- Adobe Photoshop *(see note above)*
- CorelDraw

## Acceptable media:

- CD-R
- 3.5" diskette
- zip® & jaz® cartridges

Clearly indicate the name of the file to be output. Include ALL fonts (and all parts to the font—screen and printer.)

Include ALL graphic components (logos, images, etc. setup for correct color separation and trapping in .tif, .eps or other acceptable format.)

Include a black and white composite printout for comparison

Include a printout of separations with color plates clearly identified

# Printing Capabilities

We can print on the CD:

- 1 to 5 colors, including one background color printed on the entire printing area. This color is most often called a flood.

These colors can be

- 4-color process or CMYK
- Pantone Matching System or spot

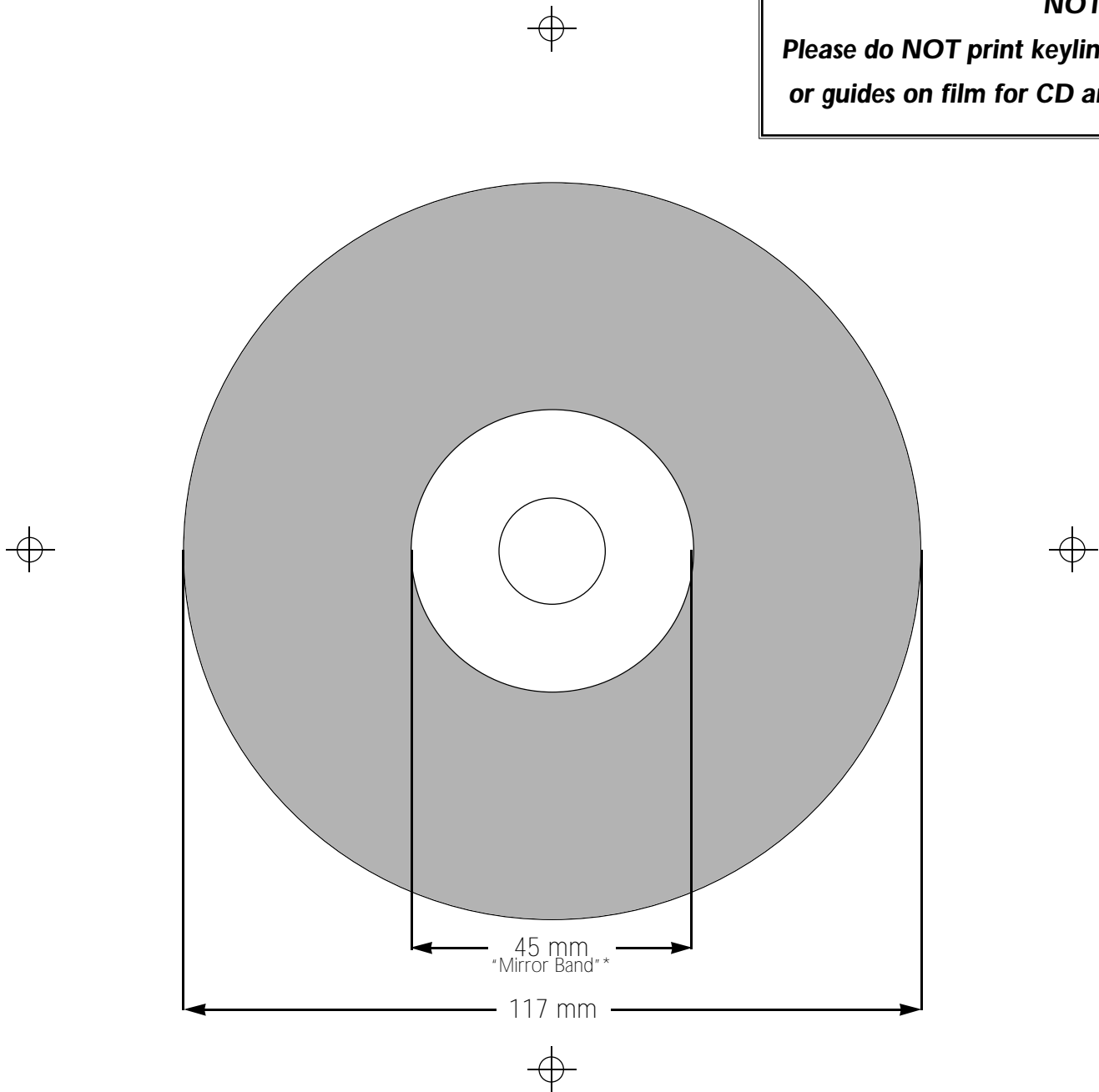
All CD art will be produced using a silkscreening process

# Printing Areas

The following illustrations exhibit the possible printing areas on CDs produced by US.

# Print Spec A

**NOTE:**  
*Please do NOT print keylines  
or guides on film for CD art!*



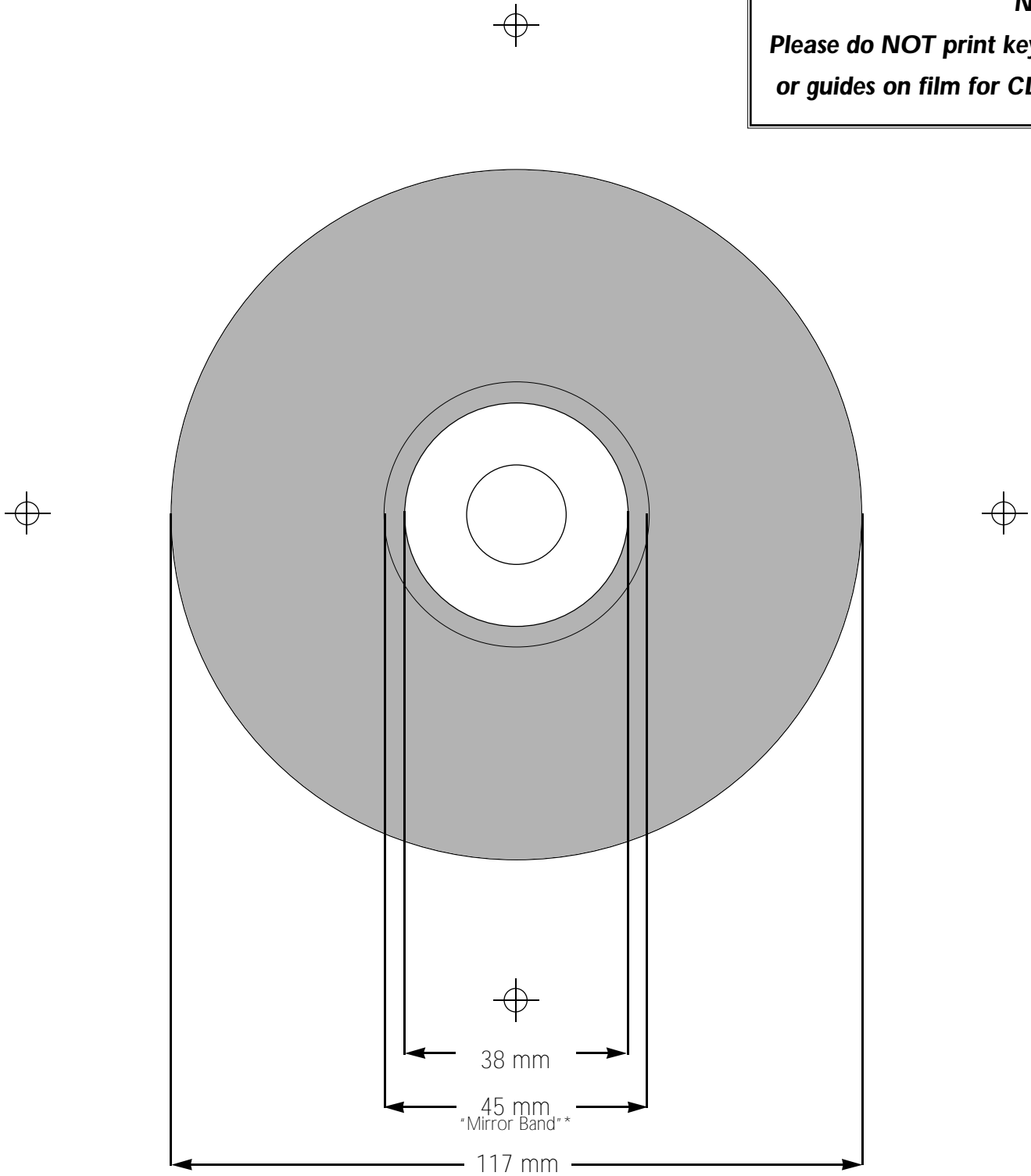
**NOTE:**

\* Mirror Band–this area of disc is more highly reflective than rest of CD. It will affect color printed on it, unless covered with a white flood. If color is critical, we recommend a white flood on ALL print specs for CD art.

Registration marks must appear at EXACTLY 165mm diameter or 82.5mm from center of CD.

# Print Spec B

**NOTE:**  
Please do NOT print keylines  
or guides on film for CD art!



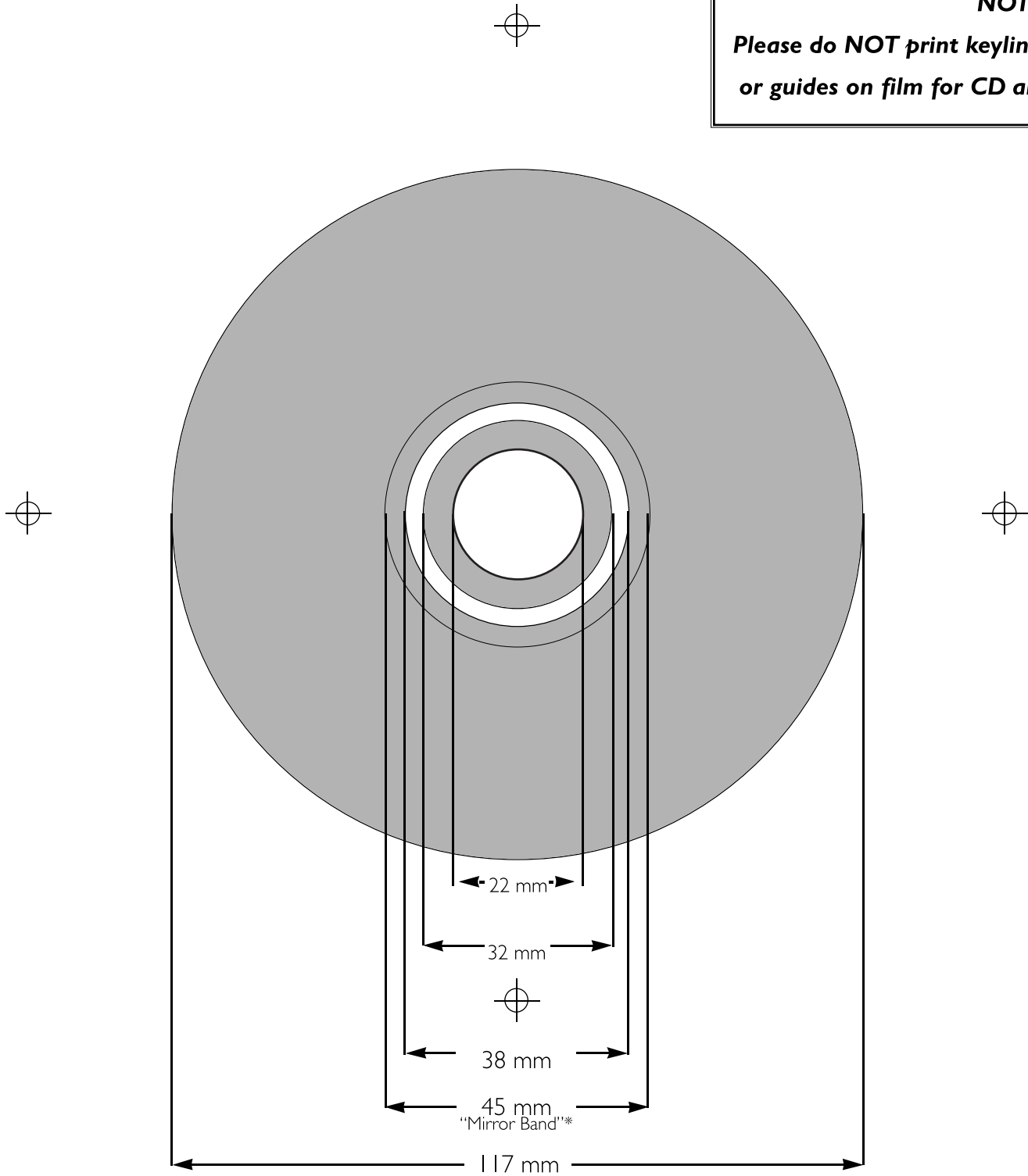
**NOTE:**

\* Mirror Band– see note on Print Spec A.

Registration marks must appear at EXACTLY 165mm diameter or 82.5mm from center of CD.

# Print Spec C

**NOTE:**  
Please do NOT print keylines  
or guides on film for CD art!



**NOTE:**

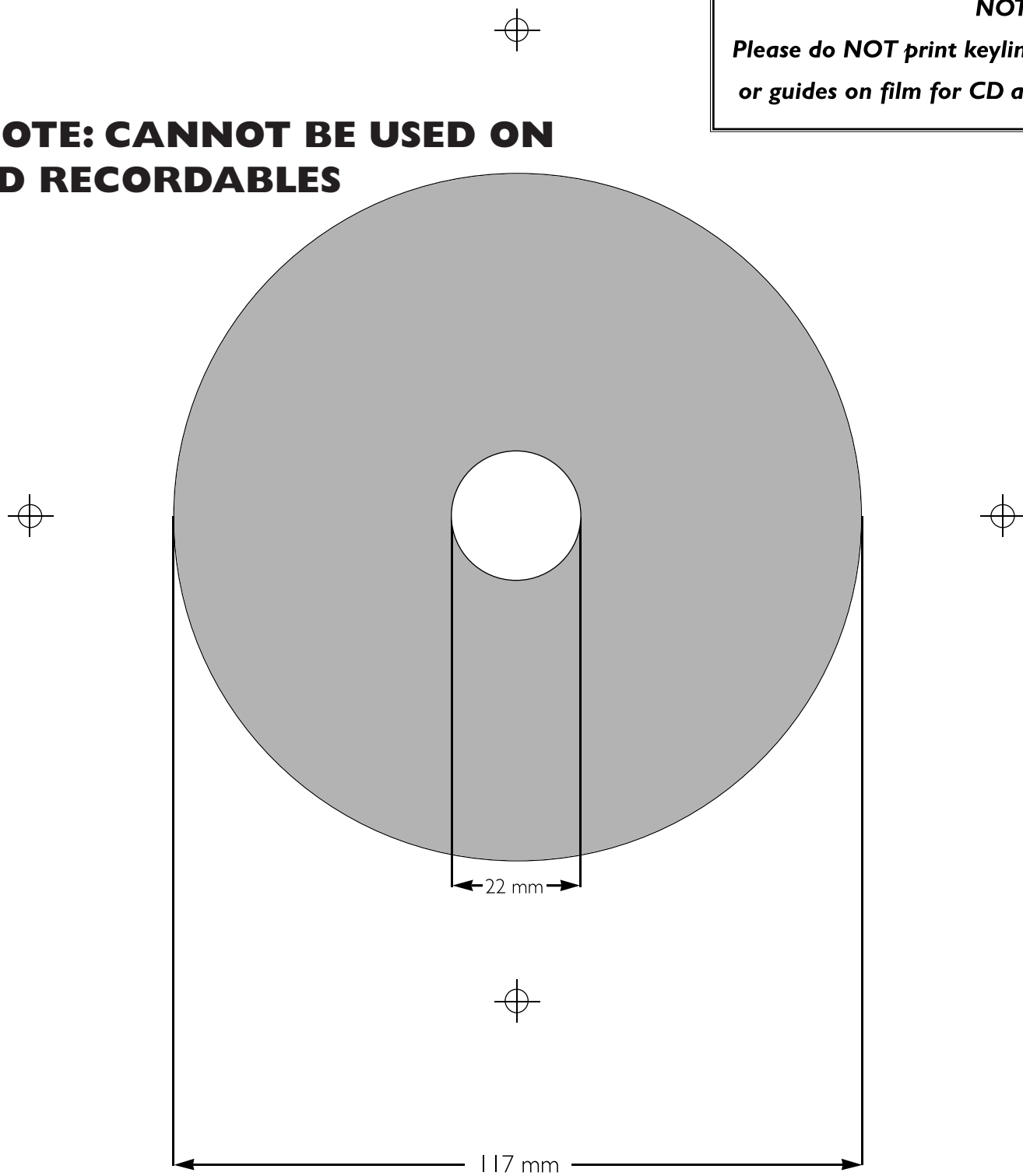
\* Mirror Band— see note on Print Spec A.

Registration marks must appear at EXACTLY 165mm diameter or 82.5mm from center of CD.

# Print Spec D

**NOTE:**  
Please do NOT print keylines  
or guides on film for CD art!

**NOTE: CANNOT BE USED ON  
CD RECORDABLES**



**NOTE:**

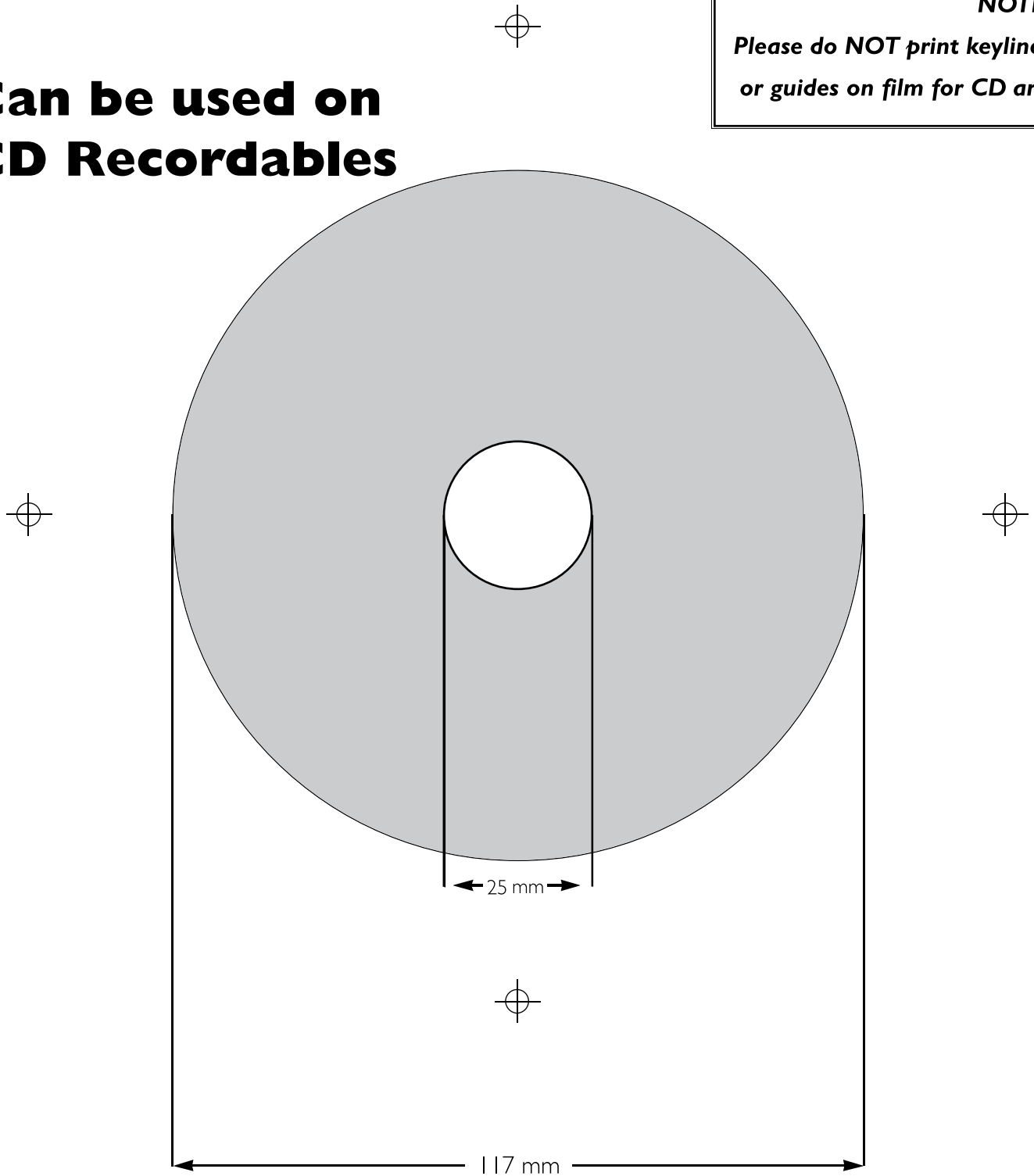
\* Mirror Band— see note on Print Spec A.

Registration marks must appear at EXACTLY 165mm diameter or 82.5mm from center of CD.

# Print Spec E

**Can be used on  
CD Recordables**

**NOTE:**  
Please do NOT print keylines  
or guides on film for CD art!



**NOTE:**

\* Mirror Band— see note on Print Spec A.

Registration marks must appear at EXACTLY 165mm diameter or 82.5mm from center of CD.

# Film Specifications



All films must be positive right reading  
emulsion side up.

Silk screen printing requires a 0.5 point spread  
between the positive text and the reversed back-  
ground.

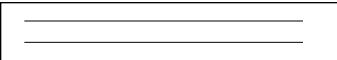

## Letter Sizes and Line Widths

### One color only:

- the letter size has to be at least 5 points in positive print
- the letter size has to be at least 6 points in reversed print
- the letter size has to be at least 6.5 points in reversed *HALFTONE* print areas

Positive	Reversed
	
minimum 5 points	minimum 6 points

- the line width has to be at least 0.10 mm or 0.004" in positive print
- the line width has to be at least 0.15 mm or 0.006" in reversed print

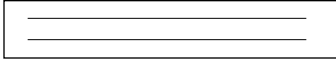

Positive	Reversed
	
minimum 0.25 points	minimum 0.5 points

### Two color or more:

- the letter size has to be at least 5 points in positive print
- the letter size has to be at least 7 points in reversed print
- the letter size has to be at least 7 points in reversed *HALFTONE* print areas

Positive	Reversed
	
minimum 5 points	minimum 7 points

- the line width has to be at least 0.10 mm or 0.004" in positive print
- the line width has to be at least 0.15 mm or 0.006" in reversed print

Positive	Reversed
	
minimum 0.5 points	minimum 1.5 points

### NOTE:

Please avoid serif, old style and light fonts less than 12 point and/or in halftone areas.



# film specs (continued)

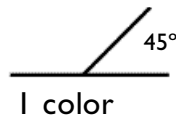
## Line screen or lines per inch

- Up to 110 lines per inch (maximum)

## Screen angles

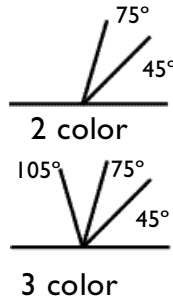
### One color and colors without blends

- 45°(degrees)



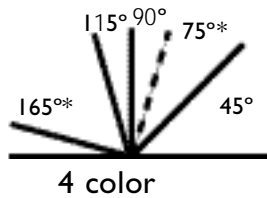
### 2 & 3 colors (Duotones & tritones)

- first (dominant)color – 45° (deg)
- second color – 75° (degrees)
- third color – 105° (degrees)



### 4 color process (CMYK)

- Cyan (C) – 165° (degrees)
- Magenta (M) – 45° (degrees)
- Yellow (Y) – 115° (degrees)
- Black (K) – 115° (degrees)



**\* Note:**  
165° and 75°  
are on the same  
reciprocal angle.

## Dot shape

- Elliptical dot

## Minimum micron size

- 90.5 microns is the minimum acceptable size dot

## Compensation ranges/Silkscreen dot gain

2% , the film halftone density must be 4%

5% , the film halftone density must be 7%

10% , the film halftone density must be 12%

15% , the film halftone density must be 17%

20% , the film halftone density must be 22%

25% , the film halftone density must be 26%

30% , the film halftone density must be 32%

35% , the film halftone density must be 38%

40% , the film halftone density must be 42%

45% , the film halftone density must be 47%

50% , the film halftone density must be 52%

55% , the film halftone density must be 58%

60% , the film halftone density must be 62%

65% , the film halftone density must be 67%

70% , the film halftone density must be 70%

75% , the film halftone density must be 73%

80% , the film halftone density must be 78%

85% , the film halftone density must be 82%

90% , the film halftone density must be 86%

95% , the film halftone density must be 92%

98% , the film halftone density must be 96%

Caution

SAFE RANGE

Caution

## Recommended color range (GCR)

- Halftone tints, including separation plates, should be within **SAFE RANGE** of 20% – 80% to ensure correct printing of colors.

• **Tints outside this range will not print accurately, if at all.**

# Print specifications

## Inserts

**Inserts are defined as the print work exhibited in the front of the jewel case**

## Simple and Multiple page inserts dimensions

Diagram 1 shows dimensions for a simple 1 or 2-sided insert with bleeds. These specs **MUST** be followed exactly to ensure proper fit in the jewel case

Diagram 2 show the dimensions for a 4 panel or multipage insert. The 4 panel insert is folded in half. The multipage insert should be built in increments of 4 pages. This will maximize printable space and reduce blank pages. Again, these specs **MUST** be followed exactly to ensure proper fit in the jewel case.

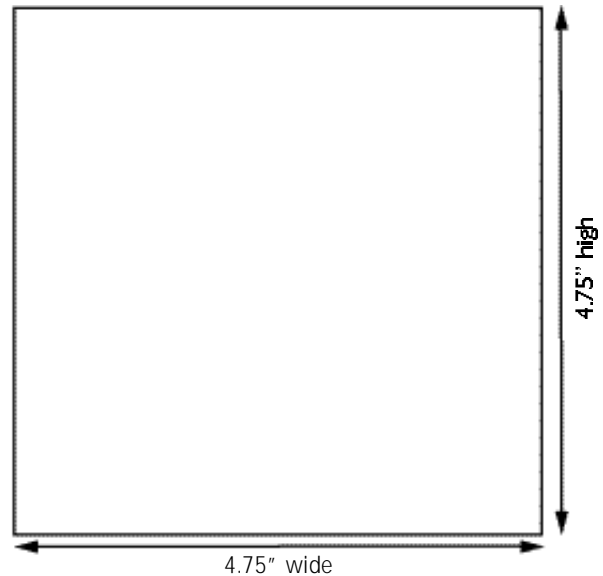
## a word about Bleeds

**If any of the image to be printed is to "bleed" over the final trimmed edge, please allow 1/8" (.125") for trim.**

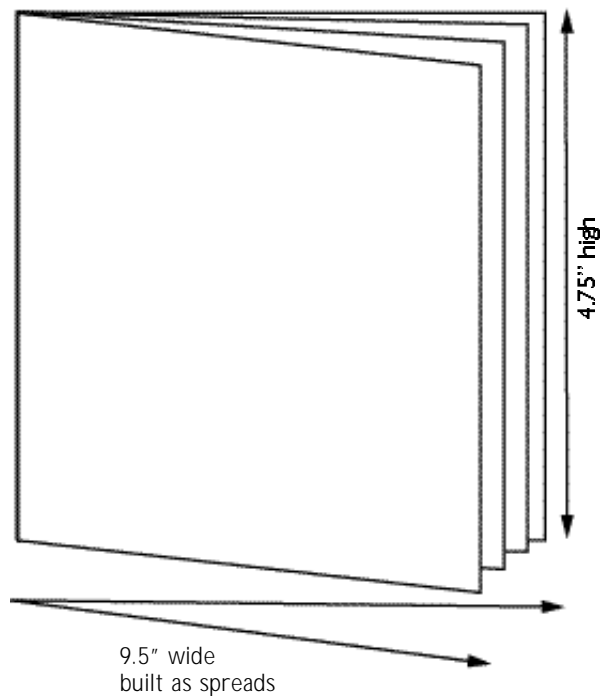
## NOTE:

**Any deviation from these specs will incur additional costs.**

## Diagram 1



## Diagram 2



## NOTE:

Always build multiple page insert in multiples of 4 (for example-4 pages, 8 pages, 12 pages, etc.)

Maximum thickness of all pages folded = 1.8mm or 0.7"

Minimum thickness = 1 page of 60 lbs. paper

## Traycards

Traycards are defined as the print work exhibited in the back of the jewel case and include the spines on each side.

### Traycard dimensions

Diagram 3 shows dimensions for a traycard with spines and bleeds. These specs MUST be followed exactly to ensure proper fit in the jewel case

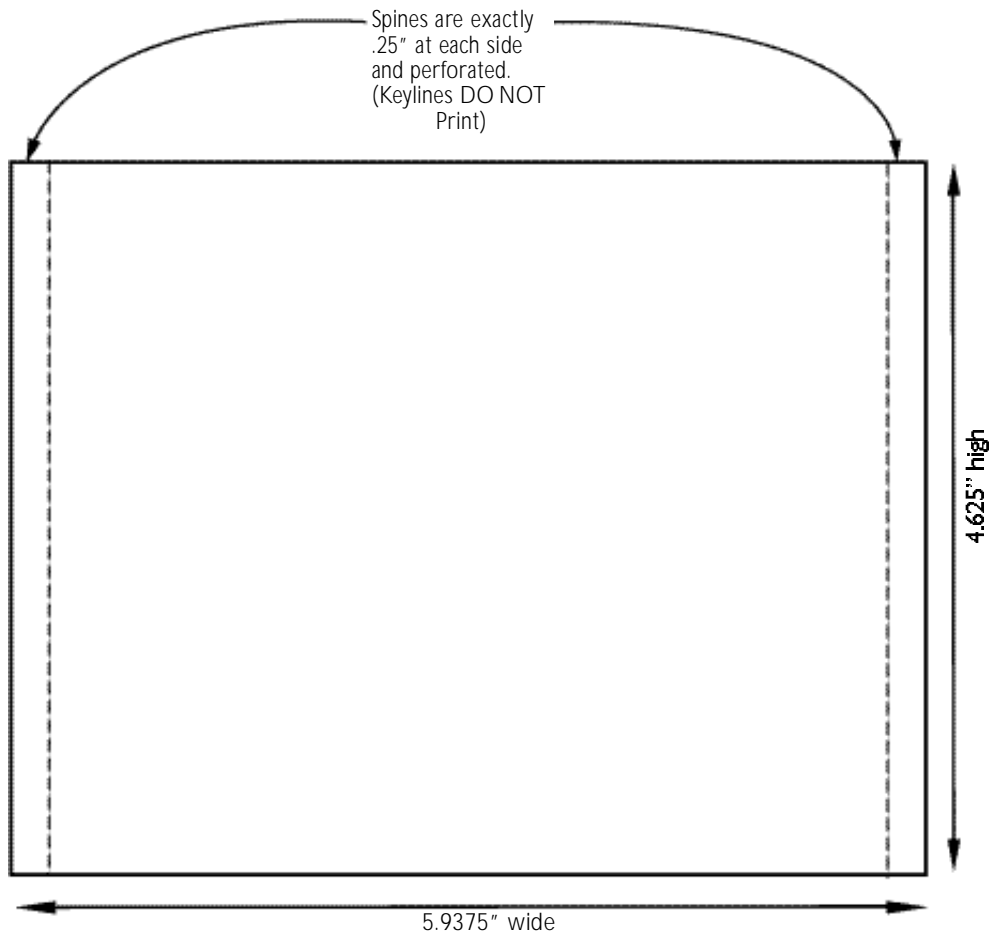
## a word about Bleeds

If any of the image to be printed is to “bleed” over the final trimmed edge, please allow 1/8” (.125”) for trim.

### NOTE:

**Any deviation from these specs will incur additional costs.**

## Diagram 3



# Custom Packaging

Custom packaging is available in a wide variety of styles to make your project unique and make the appropriate statement of your audience.

We can assist you in selecting, designing and fulfilling the final and most important aspect of your CD-ROM project.

Contact a sales team representative for more information and a quote.