

## High Resolution, 600 dpi Specific Features

### Registration Specifications

Within a printing application the printed image will shift vertically between labels. “Registration” is a measurement of the maximum image drift within a roll of media. To compensate for registration variance Zebra recommends designing labels with empty space above and below the printed image to prevent loss of print.

### Print Mode

The print mode selected for a given application can have an effect on small label performance. For optimal image placement and performance, Zebra recommends utilizing either Tear Off mode or Rewind mode (with or without rewinding the media). IN general printing performance is optimized when back feed mode is not utilized.

### 110Xi4™ 600 dpi

#### Printing Specifications

- Maximum print width: 4.09in. (104mm)
- Programmable print speeds (inches per second):  
1.5, 2, 3, 4, 5, 6

#### Media and Ribbon Specifications

- Media width (label and liner):
  - 0.79 in. (20 mm) to 4.5 in. (114 mm)
- Ribbon width: 0.79 in. (20 mm) to 4.33 in. (110 mm)
- Minimum label length: \*
  - Tear, Rewind modes: 0.12 in. (3 mm)
  - Peel mode: 0.5 in. (13 mm)
  - Cutter mode: 1.5 in. (38 mm)

<b>Vertical Registration*</b>	2 inches per second	4 inches per second	6 inches per second
Cutter	±0.42 mm		
Tear	±0.30 mm	±0.32 mm	±0.32 mm
Rewind	±0.30 mm	±0.32 mm	±0.32 mm

\*The specifications below were developed on a 3mm label in a 600 dpi printing application. For registration specifications outside of this application space please see the published technical specifications for the 110Xi4.

### ZM400™ 600 dpi

#### Printing Specifications

- Maximum print width: 4.09in. (104mm)
- Programmable print speeds (inches per second):  
1.5, 2, 3, 4

#### Media and Ribbon Specifications

- Media width (label and liner):
  - 1.0" (25.4mm) to 4.50" (114mm) Tear / Cutter
  - 1.0" (25.4mm) to 4.25" (108mm) Peel / Rewind
- Ribbon width: 2.00" (51mm) to 4.33" (110mm)
- Minimum label length:
  - 0.5in (12.7mm) Tear, Peel and Rewind Mode
  - 1.0in (25.4mm) in Cutter Mode
- Media registration tolerance:
  - Vertical =  $\leq \pm 0.039"$  ( $\pm 1.0\text{mm}$ ) on non-continuous media