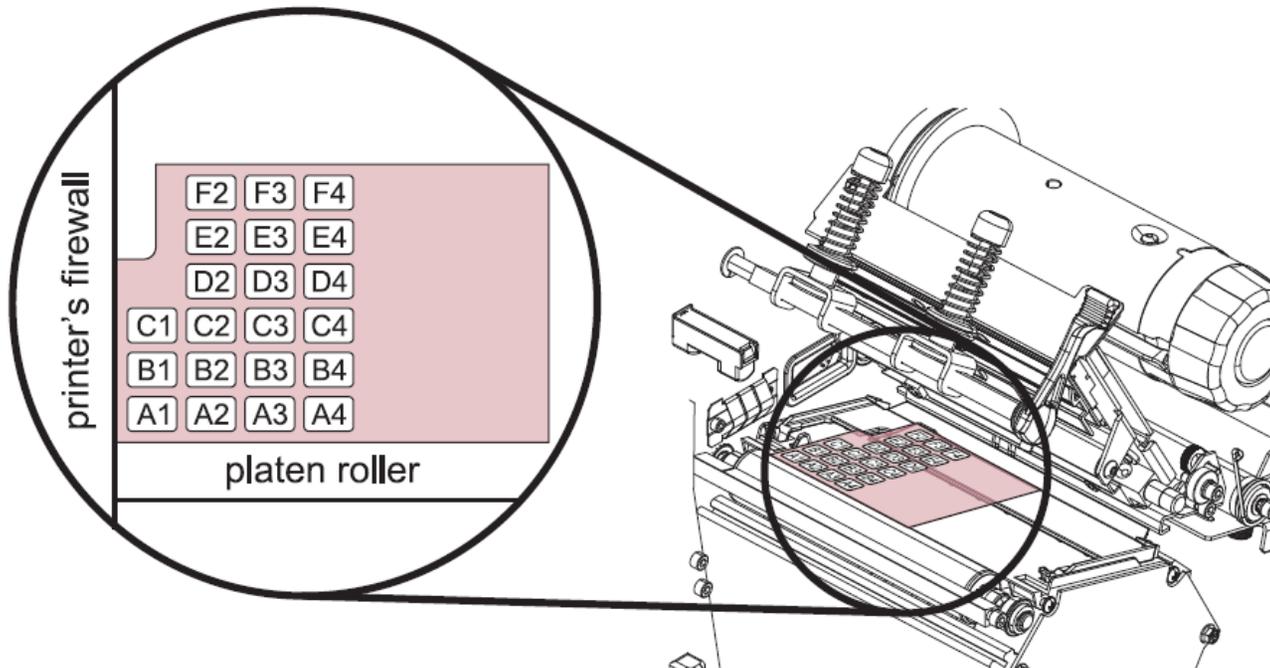


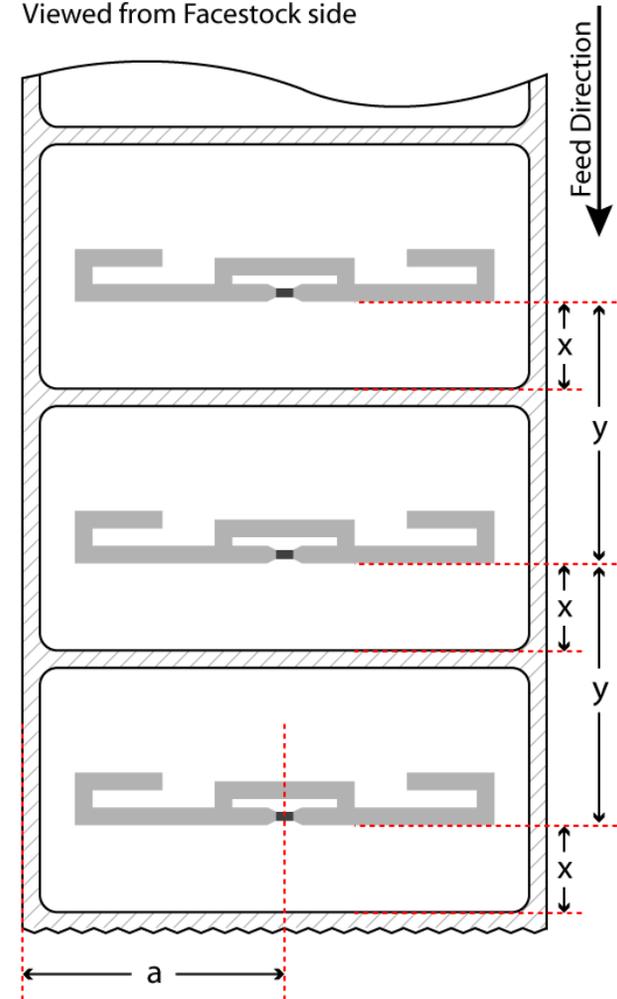
The Zebra R110Xi4 does not require specific inlay placements, RFID power settings, or RFID program position settings. Its adaptive encoding technology automatically selects the optimal RFID settings for the type of inlay being used, whether it's a small on-pitch inlay or large shipping label. R110Xi4's adaptive array antenna consists of 21 individual encoding elements spaced in a grid as shown in the diagram below. Please see the R110Xi4 User's Manual and RFID ZPL Programming Guide 2 for more details.

Best practices to consider when selecting RFID media for R110Xi4:

- The columns of the encoding array are spaced to support media widths of 1", 2", 3", and 4". Ideally, inlays should be placed at 0.5", 1", 1.5" or 2" from the left liner edge (parameter 'a' in the diagram on the right), with a tolerance of +/- 3mm. Some inlays work reliably outside this tolerance. For example, a small inlay on a 4" wide label could be placed at an 'a' position of 0.5", 1", 1.5", or 2".
- Short labels with a pitch of less than 1" (parameter 'y' in the diagram on the right) **may** require the printer to backfeed a short distance prior to encoding. If necessary, the RFID calibration algorithm will automatically select the backfeed distance.
- For labels longer than 1", backfeed can be avoided by placing inlays at least 15 mm from the leading edge of the label (parameter 'x' in the diagram on the right).
- Always test RFID media before purchasing a large quantity.



Viewed from Facestock side



Parameter	Name	Definition
a (mm)	Inlay Center	Left liner edge to inlay center.
x (mm)	Inlay Position	Label Start to inlay antenna leading edge
y (mm)	Inlay Pitch	Inlay antenna leading edge to inlay antenna leading edge.