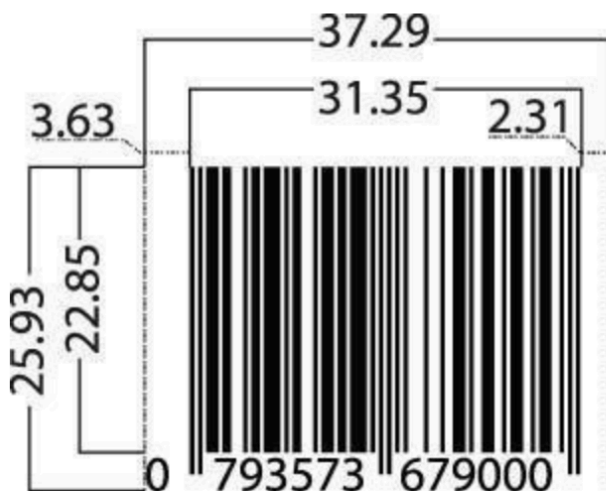




EAN-13 Barcode Dimensions

We get lots of questions about barcode dimensions. Please see the chart below for reference.

At 100% magnification:



Barcode Magnification Standards:

The recommended magnification range for an EAN-13 Bar Code Symbol being scanned at retail POS is **80% – 200%** (X-dimension 0.26 mm-0.66 mm).

Note: To calculate the **total barcode width** (from the chart below), you need to include not only the "Bar Width" but also the "Left Quiet Zone" and the "Right Quiet Zone" dimensions. Therefore, an EAN-13 barcode at 80% magnification (the smallest recommended size) should be at least 29.83mm wide.

Dimensions (All measurements in millimetres)

Magnification	X-dimension	Width	Bar height	Left Quiet Zone	Right Quiet Zone
0.80	0.26	25.08	18.28	2.90	1.85
0.85	0.28	26.65	19.42	3.09	1.96
0.90	0.30	28.22	20.57	3.27	2.08
0.95	0.31	29.78	21.71	3.45	2.19
1.00	0.33	31.35	22.85	3.63	2.31
1.05	0.35	32.92	23.99	3.81	2.43
1.10	0.36	34.49	25.14	3.99	2.54
1.15	0.38	36.05	26.28	4.17	2.66
1.20	0.40	37.62	27.42	4.36	2.77
1.25	0.41	39.19	28.56	4.54	2.89
1.30	0.43	40.76	29.71	4.72	3.00
1.35	0.45	42.32	30.85	4.90	3.12
1.40	0.46	43.89	31.99	5.08	3.23
1.45	0.48	45.46	33.13	5.26	3.35
1.50	0.50	47.03	34.28	5.45	3.47
1.55	0.51	48.59	35.42	5.63	3.58
1.60	0.53	50.16	36.56	5.81	3.70
1.65	0.54	51.73	37.70	5.99	3.81
1.70	0.56	53.30	38.85	6.17	3.93
1.75	0.58	54.86	39.99	6.35	4.04
1.80	0.59	56.43	41.13	6.53	4.16
1.85	0.61	58.00	42.27	6.72	4.27
1.90	0.63	59.57	43.42	6.90	4.39
1.95	0.64	61.13	44.56	7.08	4.50
2.00	0.66	62.70	45.70	7.26	4.62

Definitions

“Width” = the width of the bars only (does not include the width of the Quiet Zones).

“Bar Height” = the height of the bars only. You need to allow extra space to include the barcode number (which must be printed below the bars).

“Quiet Zone” = the blank space on either side of the barcode. These are compulsory (scanners need them in order to read the barcode bars). Many barcode images have a > on the right-hand side after the numbers – this is optional but is used to give a visual indication of the right-side quiet zone that is needed.

An allowable minimum magnification of 75% (X-dimension 0.25mm) is applicable only to on-demand (e.g. thermal) print processes. In this case, the bar height should never be truncated below the minimum required height for an 80% magnification barcode symbol.