Geo Scan

Survey detail accuracy band table

Plan accuracy (X,Y)			Height accuracy (Z)[1]					
Band	1 sigma (68%)	2 sigma (95%)	Band	Accuracy hard detail	Accuracy soft detail	Example survey types/uses	Approximate plot scale output required to achieve accuracy band	Min size of feature shown true to scale (not symbolised)
A	+/- 2mm	+/- 4mm	A	+/- 2mm	N/A	High accuracy engineering and fabrication surveys	1:5	4mm
B	+/- 4mm	+/- 8mm	B	+/- 4mm	N/A	High accuracy engineering and measured building surveys	1:10	5mm
C	+/- 5mm	+/- 10mm	C	+/- 5mm	N/A	High accuracy engineering and measured building surveys, heritage recording	1:20	10mm
D	+/- 10mm	+/- 20mm	D	+/- 10mm	+/- 25mm	Measured building surveys, high accuracy topographic surveys, determined boundaries, area registration	1:50	20mm
E	+/- 25mm	+/- 50mm	E	+/- 10mm	+/- 50mm	Measured building surveys, topographic surveys, low accuracy, net area surveys, valuation surveys, area registration	1:100	50mm

[1] multiply by 2 for 2 sigma values.

The accuracy values stated in the table show both 1 sigma (standard deviation/error) and 2 sigma values. 1 sigma accuracy means that 68% of normally distributed observation residuals will fall within the band value shown for 1 sigma with 95% falling within the 2 sigma value. Using sigma accuracy, it can be noted that 99.7% of observations will fall within 3 times the 1 sigma value.