

ISO 12491:1997-05 (E)

Statistical methods for quality control of building materials and components

Contents		Page
1	Scope	1
2	Normative references	1
3	Definitions	1
4	Population and sample	8
4.1	General	8
4.2	Normal distribution	8
4.3	Log-normal distribution	9
4.4	Normality tests.....	9
5	Methods of Statistical quality control	9
5.1	Quality requirements.....	9
5.2	Basic Statistical methods	10
5.3	Bayesian approach.....	10
5.4	Additional methods	12
6	Estimation and tests of parameters	12
6.1	Principles of estimation and tests	12
6.2	Estimation of the mean	13
6.3	Estimation of the variance.....	13
6.4	Comparison of means.....	14
6.5	Comparison of variances	15
6.6	Estimation of fractiles	15
6.7	Prediction of fractiles using the Bayesian approach	16
7	Sampling inspection	18
7.1	Variables and attributes.....	18
7.2	Inspection of an isolated lot.....	18
7.3	Sampling inspection by variables; σ known	19
7.4	Sampling inspection by variables: σ unknown	20
7.5	Sampling inspection by attributes.....	20
Annex		
A	Bibliography	27
	Alphabetical index	28