

DIN EN 326-2:2010-12 (E)

Wood-based panels - Sampling, cutting and inspection - Part 2: Initial type testing and factory production control

| Contents | | Page |
|-----------------------|---|-------------|
| Foreword | | 4 |
| 1 | Scope | 5 |
| 2 | Normative references | 5 |
| 3 | Terms and definitions | 5 |
| 4 | Symbols and indices | 7 |
| 4.1 | Letter symbols (see also EN 326-1:1994) | 7 |
| 4.2 | Indices (see also EN 326-1:1994) | 9 |
| 5 | Initial type testing (ITT) | 9 |
| 5.1 | General | 9 |
| 5.2 | Initial type testing by variables | 9 |
| 5.2.1 | General | 9 |
| 5.2.2 | Sampling of panels | 10 |
| 5.2.3 | Evaluation | 10 |
| 5.3 | Initial type testing by attributes | 12 |
| 5.3.1 | Sampling | 12 |
| 5.3.2 | Evaluation | 12 |
| 6 | Factory production control | 13 |
| 6.1 | General | 13 |
| 6.2 | Sampling | 13 |
| 6.2.1 | General | 13 |
| 6.2.2 | Dimensional tolerances, squareness and edge straightness | 13 |
| 6.2.3 | Other properties assessed as attributes and not included in 6.2.1 or 6.2.2 | 13 |
| 6.2.4 | Sampling and cutting of test pieces | 14 |
| 6.3 | Factory production control by variables | 14 |
| 6.3.1 | Characteristics | 14 |
| 6.3.2 | Product types | 14 |
| 6.4 | Control of production | 15 |
| 6.4.1 | General | 15 |
| 6.4.2 | Factory production control by variables for batch production | 15 |
| 6.4.3 | Factory production control by attributes for batch production | 17 |
| 6.4.4 | Internal records of an established product | 19 |
| 6.5 | Initial inspection of factory and factory production control (FPC) | 19 |
| 6.6 | Continuous surveillance, assessment and approval of the factory production control | 20 |
| Annex A (informative) | Example of initial type testing by variables - Evaluation of bending strength of particleboards (see 5.2) | 21 |
| A.1 | Example | 21 |
| A.2 | Sampling (see 5.1.2) | 21 |
| A.3 | Test results, records and evaluation (see 5.2.3 and EN 326-1:1994, Clause 7) | 21 |
| Annex B (informative) | Factory production control by variables - Example: Batch production (see 6.4.2) | 23 |
| B.1 | General | 23 |

| | | |
|---|---|-----------|
| B.2 | Sampling | 23 |
| B.3 | Testing | 23 |
| B.4 | Calculation and recording of test results of the first sample | 23 |
| B.4.1 | Example for the case that the first sample of one panel fulfils the panel characteristic requirement | 23 |
| B.4.2 | Example for the case that the first sample of one panel does not fulfil the panel characteristic requirement | 24 |
| Annex C (informative) Example of initial type testing attributes - Evaluation of bonding quality of plywood (see 6.4.3.1) | | 27 |
| C.1 | Example | 27 |
| C.2 | Sampling plan | 27 |
| C.3 | Sampling (see 5.3.1) | 27 |
| C.4 | Test data and evaluation of bond shear strength and apparent cohesive wood fibre failure percentage | 27 |
| C.4.1 | General | 27 |
| C.4.2 | First sample | 28 |
| C.4.3 | Second sample | 29 |
| C.5 | Single sampling plan | 30 |
| Annex D (informative) Control of factory production control records - Examples of the determination of differences between factory testing and external testing (see 6.6) | | 31 |
| D.1 | General | 31 |
| D.1.1 | Use of unconditioned test pieces | 31 |
| D.1.2 | Paired testing | 31 |
| D.2 | Example (1): Swelling in thickness tested according to EN 317 | 32 |
| D.2.1 | Sample of example (1) | 32 |
| D.2.2 | Control of variability | 32 |
| D.3 | Example (2): Internal bond tested according to EN 319 | 34 |
| D.3.1 | General | 34 |
| D.3.2 | Sample of example (2) | 34 |
| D.3.3 | Control of variability | 34 |
| D.4 | Determination of a significant difference between the results from the alternative test procedure and from the standard reference test method | 35 |
| Annex E (informative) Example of the calculation of a linear correlation (see 7.2) | | 37 |
| Annex F (informative) Example of the determination of a significant difference between the results from the alternative test procedure and from the standard reference test method (see 6.4.5) in accordance with EN 13986 | | 40 |
| F.1 | General | 40 |
| F.2 | Control of variability (see Annex D) | 41 |
| F.3 | Determination of a significant difference (see Annex D) | 41 |
| Bibliography | | 42 |