

ISO 18100:2017-03 (E)

Timber structures - Finger-jointed timber - Manufacturing and production requirements

| Contents | | Page |
|---------------------|---|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Symbols | 2 |
| 5 | Conformance | 3 |
| 5.1 | Quality systems requirements | 3 |
| 5.2 | Manufacturing specifications | 3 |
| 6 | Requirements | 3 |
| 6.1 | Structural strength | 3 |
| 6.1.1 | Timber components | 3 |
| 6.1.2 | Grading methods | 3 |
| 6.1.3 | Finger-jointed timber | 3 |
| 6.2 | Adhesive | 4 |
| 6.3 | Finger joint glue bond integrity | 4 |
| 6.4 | Utility | 4 |
| 6.5 | Product identification | 4 |
| 7 | Verification | 4 |
| 7.1 | Structural strength | 4 |
| 7.1.1 | Qualification | 4 |
| 7.1.2 | Compliance testing | 5 |
| 7.2 | Adhesive | 5 |
| 7.3 | Finger-joint glue bond integrity | 6 |
| 7.3.1 | Verification at qualification | 6 |
| 7.3.2 | Verification for compliance testing | 6 |
| 7.4 | Utility requirements | 6 |
| 7.5 | Product identification requirements | 6 |
| Annex A (normative) | Compliance (factory production control) testing -- Strength verification of finger-jointed timber | 7 |
| Annex B (normative) | Verification of the strength of finger-jointed timber by double-bending proof loading | 9 |
| Annex C (normative) | Verification of the minimum strength of finger-jointed timber by tension proof loading | 14 |
| Annex D (normative) | Verification of finger joint bond quality by assessment of wood fibre failure | 16 |
| Annex E (normative) | Verification of finger joint bond quality by cyclic delamination | 20 |

| | |
|---|-----------|
| Annex F (normative) Verification of finger joint strength properties using the analytical method | 22 |
| Annex G (normative) Product identification | 24 |
| Annex H (informative) Basis of factor k_{fj} | 25 |
| Bibliography | 26 |