

BS 5756:2007+A2:2017



BSI Standards Publication

**Visual ^{A1} strength ^{A1} grading of
^{A2} temperate ^{A2} hardwood — Specification**

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Summary of pages

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Foreword

Publishing information

This British Standard was published by BSI and came into effect on 31 May 2007. It was prepared by Technical Committee B/518, *Structural timber*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

BS 5756:2007+A1:2011 superseded BS 5756:1997, which has been withdrawn.

BS 5756:2007+A2:2017 supersedes BS 5756:2007+A1:2011, which was partially superseded by BS EN 16737: 2016.

Information about this document

The start and finish of text introduced or altered by Amendments No 1 and 2 is indicated in the text by tags **A1** **A1** and **A2** **A2**. Minor editorial changes are not tagged.

This British Standard conforms to the requirements of BS EN 14081-1.

This British Standard specifies the means of assessing visually the quality of temperate hardwood for which characteristic values as strength classes are given in BS EN 338. Assignments of species/grade combinations to those strength classes are given in BS EN 1912, which incorporates the grades defined in this standard for which design values are given in BS 5268-2¹⁾ and BS EN 1995-1-1. Additional assignments for grades of UK oak and sweet chestnut are given in PD 6693²⁾. A European Standard has been published that provides rules for the structural grading of tropical hardwood timber. Tropical timber is therefore no longer within the scope of this standard.

This British Standard specifies two visual strength grades (General Structural Temperate Hardwood, TH1 and TH2) for timber with a thickness less than 100 mm or cross-sectional area less than 20 000 mm², and two visual strength grades (Heavy Structural Temperate Hardwood, THA and THB) for timber with a thickness and cross-sectional area equal to or greater than these values.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

¹⁾ **A1** BS 5268-2 has been withdrawn and superseded by BS EN 1995-1-1 but is currently referred to in Building Regulations Approved Document A.

²⁾ In preparation **A1**

1 Scope

A2 This British Standard specifies a method of strength grading temperate hardwood visually for structural use.

The permissible limits of characteristics for temperate hardwoods are specified for two visual strength grades for large size timber, designated “Heavy Structural Temperate Hardwood” (THA and THB), and two visual strength grades for smaller size timber, designated “General Structural Temperate Hardwood” (TH1 and TH2).

This British Standard applies to temperate hardwoods, graded for use in the United Kingdom. **A2**

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 5268-2, *Structural use of timber — Part 2: Code of practice for permissible stress design, materials and workmanship*³⁾

A1 Text deleted **A1**

BS EN 336, *Structural timber — Sizes, permitted deviations*

A1 Text deleted **A1**

BS EN 1310:1997, *Round and sawn timber — Method of measurement of features*

BS EN 1912, *Structural timber — Strength classes — Assignment of visual grades and species*

A1 BS EN 1995-1-1, *Eurocode 5: Design of timber structures — Part 1-1: General — Common rules and rules for buildings* **A1**

BS EN 13183-2, *Moisture content of a piece of sawn timber — Part 2: Estimation by electrical resistance method*

BS EN 13556:2003, *Round and sawn timber — Nomenclature of timbers used in Europe*

A2 BS EN 14081-1, *Timber structures — Strength graded structural timber with rectangular cross section — Part 1: General requirements* **A2**

BS EN 14081-4, *Timber structures — Strength graded structural timber with rectangular cross section — Part 4: Machine grading — Grading machine settings for machine controlled systems*

3 Terms and definitions

For the purposes of this British Standard, the nomenclature in BS EN 13556 and the terms and definitions given in BS 5268-2, BS 6100-4, BS EN 336 and BS EN 14081-1 and the following apply.

3.1 fissure

longitudinal separation of the fibres, appearing on a face, edge or end of a piece of timber, and including checks, shakes and splits

3.2 parcel

quantity of sawn timber of the same target size, quality and description

³⁾ **A1** BS 5268-2 has been withdrawn and superseded by BS EN 1995-1-1 but is currently referred to in Building Regulations Approved Document A **A1**