

VISUAL STRENGTH GRADING in OAK

As defined by BS 5756;1997 & BS EN 338

GRADES

Oak for structural work is graded into one of 4 grades:

1. TH1
2. TH2
3. THA
4. THB

Equivalent grades:

TH1 equates to UK strength grade D30 and Euro grade QPA

TH2 has no equivalent UK strength grade but equates to Euro grade QP1 , AD Grade

THA equates to UK strength grade D40 and Euro grade QPA

THB equates to UK strength grade D30 and Euro grade QP1, AD Grade

APPLICATION

Establishing dimensions that can be graded for Structural Oak production and use:

TH1 /& TH2 apply to GENERAL STRUCTURAL

Timber that falls into this grade must be a minimum of 20mm thick and have a minimum cross section area of 2000mm²

- E.g. 20mm th x 100mm w makes 2000mm² therefore can be graded
25mm th x 75mm w makes 1875mm² therefore cross section too small to be graded
35mm th x 120mm w makes 4200mm² therefore can be graded

THA & THB apply to HEAVY STRUCTURAL

Timber that falls into this grade must be a minimum of 100mm thick and have a minimum cross section area of 20,000mm²

- E.g. 100mm th x 200mm w makes 20,000mm² therefore can be graded
90mm th x 250mm w makes 22,500mm² therefore cross section is large enough but thickness is too small so cannot be graded
150mm th x 150mm w makes 22,500mm² therefore can be graded

If you need Visual Strength Grading for your structural timber get in touch to discuss your requirements with one of our graders.

NB. This grading applies to fresh sawn/ green Oak but cannot be applied to air dried / seasoned Oak

Ref: Visual strength grading to BS 5756;1997 & Strength Class grading to BS EN 338

