



NSAI
Standards

Irish Standard
I.S. 127:2015

Structural timber – Visual strength grading – Sawn softwoods with rectangular cross-section

I.S. 127:2015

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<p><i>This document replaces:</i> I.S. 127:2002</p>	<p><i>This document is based on:</i> I.S. 127:2015 I.S. 127:2002</p>	<p><i>Published:</i> 13 March, 2015 5 July, 2002</p>			
<p>This document was published under the authority of the NSAI and comes into effect on: 13 March, 2015</p>		<p>ICS number: 79.040</p>			
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<p>Údarás um Chaighdeáin Náisiúnta na hÉireann</p>					

DECLARATION
OF
SPECIFICATION
STRUCTURAL TIMBER – VISUAL STRENGTH GRADING –
SAWN SOFTWOODS WITH RECTANGULAR CROSS-SECTION
AS
THE IRISH STANDARD SPECIFICATION FOR
STRUCTURAL TIMBER – VISUAL STRENGTH GRADING –
SAWN SOFTWOODS WITH RECTANGULAR CROSS-SECTION

NSAI in exercise of the power conferred by section 16 (5) of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996) and with the consent of the Minister for Jobs, Enterprise and Innovation, hereby declare as follows:

1. This instrument may be cited as the Standard Specification (Structural timber – Visual strength grading – Sawn softwoods with rectangular cross-section) Declaration, 2015.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Structural timber – Visual strength grading – Sawn softwoods with rectangular cross-section).
(2) The said standard specification may be cited as Irish Standard 127:2015 or as I.S. 127:2015.
3. (1) The Standard Specification (Structural timber – Visual strength grading – Sawn softwoods with rectangular cross-section), Declaration 2002 is hereby revoked.
(2) Reference in any other standard specification to the Instrument hereby revoked and to Irish Standard 127:2002, shall be construed, respectively, as references to this Instrument and to Irish Standard 127:2015.

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Foreword

This Irish Standard was revised by Task Group 1 *Visual strength grading* which operates under the aegis of NSAI, Timber Standards Consultative Committee, Working Group 2.

I.S. 127 has been revised to take account of requirements in I.S. EN 14081-1.

The principal differences between I.S. 127:2002 and this document are:

- a) the scope of the Standard is limited to GS and SS grades;
- b) use of a notified body is introduced;
- c) timber marking requirements are brought into line with those in I.S. EN 14081-1;
- d) marking requirements now make provision for CE Mark;
- e) new requirements on insect damage and fungal decay are introduced;
- f) information on code marking is removed;
- g) normative references are updated;
- h) bibliography is updated.

This Irish Standard has two strength grades, GS (General Structural) grade and SS (Special Structural) grade. The strength grades may be assigned to a strength class using I.S. EN 1912 based on the grade and timber species.

The Construction Products Regulations (CPR) came into effect on the 1st July 2013, replacing the Construction Products Directive (CPD) and making it mandatory that all construction products (including timber) placed on the market on or after that date are CE marked. However, CE marking is only a requirement where there is a harmonised European Standard (EN) or ETA for a product. I.S. EN 14081-1 is the relevant harmonised standard for timber grading to which this Standard claims compliance.

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

Compliance with this Irish Standard does not of itself confer immunity from legal obligations.

In line with international standards the decimal point is shown as a comma (,) throughout this Irish Standard.

SCHEDULE

Structural timber – Visual strength grading – Sawn softwoods with rectangular cross-section

1 Scope

This Irish Standard specifies a method of visually strength grading structural softwood timber of rectangular cross-sections shaped by sawing, planing or other methods. It defines requirements for strength grading, measurement of characteristics, specifies marking requirements and identifies requirements for the control and supervision of strength grading operations.

This Standard applies to softwood graded in Ireland with the factory production control undergoing third party surveillance by a notified body. It may be used to grade Irish and imported timber (see 4.1).

This Irish Standard applies to grading of batches of dry timber for which the strength properties are determined in accordance with I.S. EN 384. It does not apply to the grading of wet timber. This Standard is not applicable to timber that has been rejected by any method of grading. The method described in this Standard does not apply to the grading of scaffold boards.

The permissible limits of characteristics for two visual strength grades of softwood, General Structural (GS) grade and Special Structural (SS) grade, are specified.

Where Irish Standards, covering specific end-use requirements, specify different timber limits to those in this Standard, the requirements of those standards shall replace or be additional to the requirements given in this Standard.

2 Normative references

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

I.S. EN 336, *Structural Timber – Sizes, permitted deviations*

I.S. EN 1310:1997, *Round and sawn timber – Method of measurement of features*

I.S. EN 1912, *Structural Timber – Strength classes – Assignment of visual grades and species*

I.S. EN 13183-2, *Moisture content of a piece of sawn timber – Part 2: Estimation by electrical resistance method*

I.S. EN 13556, *Round and sawn timber - Nomenclature of timbers used in Europe*

I.S. EN 14081-1:2006+A1:2011, *Timber structures - Strength graded structural timber with rectangular cross section - Part 1: General requirements*

S.R. CEN/TS 12169, *Criteria for the assessment of conformity of a lot of sawn timber*

3 Terms and definitions

For the purposes of this Irish Standard, the following terms and definitions apply.

arris

line of intersection of two faces or a face and an edge

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