



**NSAI**  
Standards

Irish Standard  
I.S. 435-1:2017

# Timber Post and Rail Roadside Fencing - Part 1: Materials

I.S. 435-1:2017

**DECLARATION**

OF

SPECIFICATION

ENTITLED

ROADSIDE FENCING – TIMBER POST AND RAIL – PART 1: REQUIREMENTS FOR TIMBER

AS

THE IRISH STANDARD SPECIFICATION FOR

ROADSIDE FENCING – TIMBER POST AND RAIL –

PART 1: REQUIREMENTS FOR TIMBER

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NSAI in exercise of the power conferred by section 16 (3) of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996) and with the consent of the Minister for Business, Enterprise and Innovation, hereby declare as follows:

1. This instrument may be cited as the Standard Specification (Roadside fencing – Timber post and rail – Part 1: Requirements for timber) Declaration, 2017.
2. (1) The Specification set forth in the Schedule to this Declaration is hereby declared to be the standard specification for Roadside fencing – Timber post and rail – Part 1: Requirements for timber: 2017.  
(2) The said Standard Specification may be cited as Irish Standard 435-1:2017 or as I.S. 435-1:2017.
3. (1) The Standard Specification (Timber Post and Rail Roadside Fencing – Part 1: Materials) Declaration 2005 is hereby revoked.  
(2) Reference in any other Standard Specification to the Instrument hereby revoked and to Irish Standard I.S. 435-1:2005 thereby prescribed, shall be construed, respectively, as reference to this Instrument and to Irish Standard I.S. 435-1:2017.

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## **Foreword**

This Irish Standard was revised by NSAI Standards Committee NSAI/TC 008/WG 24 "Timber fencing/preservatives".

This document supersedes I.S. 435-1:2005.

I.S. 435:2017 consists of the following Parts under the general title "*Roadside fencing - Timber post and rail*":

- *Part 1: Requirements for timber;*
- *Part 2: Erection of fencing by excavation for posts; and*
- *Part 3: Erection of fencing by driving of posts.*

The principal differences between I.S. 435-1:2005 and this document are:

- a) title of this Irish Standard is changed;
- b) requirements for all non-timber materials are now specified in I.S. 435-2:2017 and I.S. 435-3:2017;
- c) scope is qualified in relation to use of timber post and rail within the Clear Zone of a National Road;
- d) normative references are updated;
- e) requirements for timber preservation are updated;
- f) use of a longer post in soft ground is introduced;
- g) limit of moisture content is changed;
- h) moisture measurement methods are updated;
- i) requirements for presentation of timber prior to preservative treatment are introduced;
- j) marking requirements for timber bales are updated;
- k) reference is made to the European Union Timber Regulation (EUTR) No 995/2010;
- l) figures are updated; and
- m) bibliography is updated.

This publication 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.**

## **I.S. 435-1:2017**

In line with international standards practice the following representation of numbers and numerical values apply:

- The decimal sign (point) is shown as a comma ( , ) throughout this Irish Standard.
- Each group of three digits is separated by a small space from the preceding digits. This also applies to digits following the decimal sign.

## SCHEDULE

### Roadside fencing – Timber post and rail – Part 1: Requirements for timber

#### 1 Scope

This Irish Standard specifies requirements for timber posts and rails used in roadside fencing.

**WARNING** The user of this Irish Standard is advised that in accordance with Transport Infrastructure Ireland (TII) requirements, the construction of roadside fencing with timber post and rail is not permitted within the Clear Zone of a National Road as defined in TII publication DN-REQ-03034 [1]. In situations where fencing is required within the Clear Zone of a National Road, only timber post and tension mesh fence may be permitted (see TII publications CC-SCD-00320 and CC-SCD-00321 [2,3]).

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

I.S. 127, *Structural timber - Visual strength grading - Sawn softwoods with rectangular cross-section*

I.S. EN 252, *Field test method for determining relative protective effectiveness of a wood preservative in ground contact*

I.S. EN 335-1, *Durability of wood and wood-based products - Definition of use classes - Part 1: General*

I.S. EN 350, *Durability of wood and wood-based products – Testing and classification of the durability to biological agents of wood and wood-based materials*

I.S. EN 351-1:2007, *Durability of wood and wood-based products - Preservative-treated solid wood - Part 1: Classification of preservative penetration and retention*

I.S. EN 351-2, *Durability of wood and wood-based products – Preservative-treated solid wood – Part 2: Guidance on sampling for the analysis of preservative-treated wood*

I.S. EN 599-1, *Durability of wood and wood-based products - Efficacy of preventive wood preservatives as determined by biological tests - Part 1: Specification according to use class*

I.S. EN 13183-1, *Moisture content of a piece of timber – Part 1: Determination by oven dry method*

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

I.S. EN 13183-3, *Moisture content of a piece of timber – Part 3: Estimation by capacitance method*

I.S. EN 13991, *Derivatives from coal pyrolysis - Coal tar based oils: creosotes - Specifications and test methods*

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

ISO 2859-1, *Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

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