
**Railway applications — Polymeric
composite sleepers, bearers and
transoms —**

Part 3:
General requirements

*Applications ferroviaires — Traverses et supports en matériaux
composites à matrice polymère —*

Partie 3: Exigences générales



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 269, *Railway applications*, Subcommittee SC 1, *Infrastructure*.

A list of all parts in the ISO 12856 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document is used as the technical basis for transaction between corresponding parties (purchaser – supplier).

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Railway applications — Polymeric composite sleepers, bearers and transoms —

Part 3: General requirements

1 Scope

This document specifies general requirements of polymeric composite railway sleepers. It is applicable to the sleepers, bearers and transoms to be installed in all tracks (both heavy and urban rail) with or without ballast.

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.

ISO 12856-1, *Railway applications — Polymeric composite sleepers, bearers and transoms — Part 1: Material characteristics*

ISO 12856-2, *Railway applications — Polymeric composite sleepers, bearers and transoms — Part 2: Product testing*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

purchaser

body responsible for purchasing the product on the network company's behalf

3.2

supplier

body responsible for the use of the International Standard in response to the *purchaser's* (3.1) requirement

Note 1 to entry: The supplier is also responsible for requirements which apply to the product of the *manufacturer* (3.3).

3.3

manufacturer

organization which produces the *sleepers* (3.4), the *bearers* (3.5) and the *transoms* (3.6)