



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS E 1201 : 1997

(Reaffirmed : 2003)

Prestressed concrete sleepers— Pretensioning type

ICS 45.080

Descriptors : sleepers, pretensioned prestressed concrete, prestressed concrete, railway track

Reference number : **JIS E 1201 : 1997 (E)**

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS E 1201 : 1990** is replaced with **JIS E 1201 : 1997**.

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Date of Establishment: 1990-02-01

Date of Revision: 1997-11-20

Date of Reaffirmation: 2003-01-20

Date of Public Notice in Official Gazette: 2003-01-20

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Railways and Rolling
Stock

JIS E 1201 : 1997, First English edition published in 2004-06

Translated and published by: Japanese Standards Association
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Printed in Japan

Prestressed concrete sleepers— Pretensioning type

1 Scope This Japanese Industrial Standard specifies sleepers, of a type introducing compressive force into concrete by using prestressing steel strands, to be used for railways (hereafter referred to as “sleepers”).

Remarks : The normative references to this Standard are listed in Attached Table 1.

2 Classification Sleepers shall be classified by the shape as shown in Table 1.

Table 1 Classification

Classification	Symbol	Use	Shape
No. 3	3PR	1 067 mm gauge	Attached Fig. 1
No. 6	6PR		Attached Fig. 2
No. 7	7PR		Attached Fig. 3
For cable protection	CPR		Attached Fig. 4
For joint	JPR		Attached Fig. 5
For special section	SPR		Attached Fig. 6
3T	3T	For standard gauge	Attached Fig. 7
3H	3H		Attached Fig. 8

3 Performance

3.1 Bending strength of sleepers The bending strength of sleepers shall be as follows:

- (1) A sleeper, when it is subjected to the proof bending force given in Table 2 by the test method of 8.1 (1), shall not cause crazing.
- (2) For a sleeper, the load at which it is broken by the test method of 8.2 (1) shall exceed the destructive bending force given in Table 2.