

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS E 1126 : 1998

(Reaffirmed : 2003)

Expansion joints

ICS 45.080

Descriptors : railway equipment, railway fixed equipment, railway rails, rail base plates, telescopic, expansion joints

Reference number : JIS E 1126 : 1998 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

Date of Establishment: 1998-07-20

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 1126:1998, First English edition published in 2004-06

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
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Expansion joints

1 Scope This Japanese Industrial Standard specifies expansion joints used for 50 kgN rails and 60 kg rails used in continuous welded rail⁽¹⁾ section and so on of railway track. However, the expansion joints for Shinkansen railway and for bridges based on the National Shinkansen Network Law are not applied.

Note ⁽¹⁾ The welded rail of not less than 200 m in length (see **JIS E 1001**).

2 Normative references The normative references of this Standard are as follows.

JIS B 0601 *Surface roughness—Definitions and designation*

JIS B 0659 *Roughness comparison specimens*

JIS B 1180 *Hexagon head bolts and hexagon head screws*

JIS B 1181 *Hexagon nuts and hexagon thin nuts*

JIS E 1001 *Glossary of terms for permanent way*

JIS E 1101 *Rails*

JIS E 1120 *Heat hardened rails*

JIS E 1303 *Railway turnouts and crossings*

JIS E 1311 *Railway—Turnouts and crossings—Vocabulary*

3 Definitions For the purposes of this Standard, the definitions given in **JIS E 1001** and **JIS E 1311** and the following definitions apply.

- (1) **expansion joints** The joints which control the stretch and contract of continuous welded rails (see **JIS E 1001**).
- (2) **tongue rails for expansion joints** The rails of the sharpened head point, which are jointed to the stroke rails, and used for the expansion joints.
- (3) **stroke rails for expansion joints** The rails, which are jointed to the tongue rails for expansion joints, and used for the expansion joints.

4 Classification The classification of expansion joints shall be as shown in Table 1 with mark ○ according to the combination of the classification of rail and the curve radius.

5 Quality

5.1 Stroke The expansion joints shall be capable of stroking smoothly within the range of expansion length as shown in Attached Fig. 1 and Attached Fig. 2, when tested in accordance with the method of **9.1**.

5.2 Appearance The appearance of expansion joint shall have no detrimental defects such as cracks, scars and so on on the surface.