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Glued insulated rails

ICS 45.080

Descriptors : automatic train control systems, railway rails, railway control systems,
electrical insulating materials, adhesives

Reference number : JIS E 1125 : 1995 (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:

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Glued insulated rails

1 Scope This Japanese Industrial Standard specifies glued insulated rails of 50 kgN and 60 kg rails used in track circuit⁽¹⁾ of railway track.

Note (1) The electric circuit to detect trains or rolling stocks using the rails as a circuit (see **JIS E 3013**).

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

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

- (1) **glued insulated rails** The rails that the insulating material is inserted between the facing rails and jointed with glued-insulated material between rail and glued joint bar.
- (2) **glued joint bar** The joint bars designed for the purpose to be used for glued insulated rails.
- (3) **dry adhesive** The material whose substrate is glass paper, impregnated with thermosetting epoxy resin adhesives and dried.
- (4) **primer** The preparation material beforehand coated on the surface of adherend to improve adhesive strength between adherend and adhesive or sealing material (see **JIS K 6800**).

3 Classification The classification of glued insulated rails shall be as shown in Table 1 with mark ○ according to the combination of the classification of rails and curve radius.

Table 1 Classification

Classification and symbol of rails		Curve radius <i>R</i> (m)						Straight
		300	600	1 000	3 000	4 000	5 000	
50 kgN or 60 kg	Ordinary rails	○	○	○	○	○	○	○
	HH340	○	○	○	—	—	—	—
	HH370	○	○	○	—	—	—	—

4 Quality

4.1 Tensile strength or compressive strength The tensile strength or the compressive strength of glued insulated rails shall be 2.25 MN or over for all test specimens tested in accordance with the method of **8.1**.

4.2 Insulation resistance The insulation resistance of glued insulated rails shall be as follows.