

Railway Group Standard

GE/RT8273

Issue One

Date December 2015

Assessment of Compatibility of Rolling Stock and Infrastructure – Gauging and Stepping Distances

Synopsis

This document mandates specific requirements and responsibilities for the assessment of gauging compatibility and stepping distances between rolling stock and infrastructure.

[This document contains one or more pages which contain colour]

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Issue record

Issue	Date	Comments
One	December 2015	Original document. Supersedes GE/RT8270 issue two Appendix C. Assessment of platform stepping distances methodology incorporated.

Superseded documents

The following Railway Group document is superseded, either in whole or in part as indicated:

Superseded documents	Sections superseded	Date when sections are superseded
GE/RT8270 Assessment of Compatibility of Rolling Stock and Infrastructure Issue two, October 2007	Appendix C	05 March 2016

GE/RT8270 issue two, Appendix C, ceases to be in force and is withdrawn as of 05 March 2016.

Supply

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Contents

Section	Description	Page
Part 1	Purpose and Introduction	4
1.1	Purpose	4
1.2	Introduction	4
1.3	Approval and authorisation of this document	5
Part 2	Processes for the Assessment of Gauging Compatibility for Rolling Stock and Infrastructure	6
2.1	Introduction	6
2.2	Gauging processes	6
Part 3	Platform Stepping Distances	8
3.1	Assessment of platform stepping distances	8
Part 4	Application of this Document	9
4.1	Application - Infrastructure Managers	9
4.2	Application - Railway Undertakings	9
4.3	Health and safety responsibilities	10
Definitions		11
References		14

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Part 1 Purpose and Introduction

1.1 Purpose

- 1.1.1 Before any new or altered rolling stock or infrastructure is brought into use, it is essential that the change is assessed to ensure compatibility between assets is maintained.
- 1.1.2 GE/RT8270 mandates requirements and responsibilities for the assessment of compatibility between rolling stock and infrastructure and the arrangements by which the assessment of compatibility is undertaken. It also identifies those responsible for managing that assessment.
- 1.1.3 This document mandates requirements and responsibilities for the assessment of gauging compatibility between rolling stock and infrastructure, the arrangements by which the assessment of gauging compatibility is undertaken and identifies those responsible for managing that assessment.
- 1.1.4 Before any new or changed rolling stock or infrastructure is brought into use, it is essential that the change is assessed to ensure that:
 - a) Gauging compatibility between assets is maintained.
 - b) Platform stepping distances for passenger rolling stock are managed.
- 1.1.5 This document is also applicable when assessing gauging compatibility between rolling stock and rolling stock, or infrastructure and infrastructure, where the assets concerned are the responsibility of more than one Infrastructure Manager or Railway Undertaking.

1.2 Introduction

1.2.1 Background

- 1.2.1.1 This document has been developed to provide the processes for demonstrating gauging compatibility. It therefore aligns with the process mandated in GE/RT8270 to ensure system compatibility is maintained.
- 1.2.1.2 This document also provides a methodology for the assessment of platform stepping distances when either a change is made to the platform edge arrangements or when passenger rolling stock using the route is modified or passenger rolling stock is to be introduced onto a route.
- 1.2.1.3 GE/RT8270, sections 3.2.3 and 3.2.4 recognise that either side of an interface could be non-conforming with the Railway Group Standard (RGS) integrated suite of standards. For the platform / train interface and associated platform stepping distances this is the case, where:
 - a) Many platform edges are not at the nominal position set out in RGSs.
 - b) Many passenger rolling stock footsteps are not at the nominal footstep height as set out in GM/RT2173.

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Date December 2015

1.2.2 Related requirements in other documents

- 1.2.2.1 The following RGSs contain requirements that are relevant to the scope of this document:
- a) GE/RT8073 Requirements for the Application of Standard Vehicle Gauges – this document defines standard vehicle gauges and the associated application rules for rolling stock and for infrastructure. GE/RT8073 defines the lower sector vehicle gauge (LSVG).
 - b) GE/RT8270 Assessment of Compatibility of Vehicles and Infrastructure – this document mandates requirements and responsibilities for the assessment of compatibility of rolling stock and infrastructure.
 - c) GI/RT7016 Interface between Station Platforms, Track and Trains – this document sets out the target height for new, extended and altered platforms.
 - d) GI/RT7073 Requirements for the Position of Infrastructure and for Defining and Maintaining Clearances – this document sets out the target platform offset for new, extended and altered platforms. It also requires the Infrastructure Manager to keep, maintain and make available to Railway Undertakings and their suppliers, gauging capability information and generic track quality data.
 - e) GM/RT2173 Requirements for the Size of Vehicles and Position of Equipment – this document mandates the methods of determining, and the requirements for maintaining, the swept envelope of rail vehicles. It mandates the format of the prescribed parameters for defining the size of railway vehicles. It also provides requirements for passenger footstep position.

1.2.3 Supporting documents

- 1.2.3.1 The following Railway Group documents support this RGS:
- a) GE/GN8573 Guidance on Gauging – this document provides information and advisory material in support of the application of the various RGSs covering gauging. It also provides background material on the original derivation of the vehicle gauges in common use.
 - b) RIS-2773-RST Format for Vehicle Gauging Data – this document provides a standard format for defining the swept envelope of a vehicle for the purposes of compatibility assessment when undertaking absolute or comparative gauging. The data can also be used for the purposes of assessment against standard dynamic vehicle gauges.

1.3 Approval and authorisation of this document

- 1.3.1 The content of this document will be approved by Rolling Stock Standards Committee on 28 August 2015.
- 1.3.2 This document will be authorised by RSSB on 08 October 2015.