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I.S. EN 16286-1:2013

Railway applications - Gangway systems between vehicles - Part 1: Main applications

I.S. EN 16286-1:2013

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Railway applications - Gangway systems between vehicles - Part 1: Main applications

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véhicules - Partie 1: Applications générales

Bahnwendungen - Übergangssysteme zwischen
Fahrzeugen - Teil 1: Hauptanwendungen

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Foreword

This document (EN 16286-1:2013) has been prepared by Technical Committee CEN/TC 256 "Railway applications", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2013, and conflicting national standards shall be withdrawn at the latest by September 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This series of European Standards EN 16286, *Railway applications — Gangway systems between vehicles*, consists of the following parts:

- *Part 1: Main applications*
- *Part 2: Acoustic measurements*

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Introduction

The railway system requires technical rules for train concepts with flexible connections which allow passage from one vehicle to the next vehicle (or between vehicle modules). This standard describes main requirements for the design and validation of gangway systems.

The requirements set out in this standard are based on long-term existing practices and procedures developed and currently in use by railway undertakings and industry. The application of these systems has changed over the years.

For many years the majority of gangway systems consisted of rubber tubes pressed together when coaches were coupled. This solution is standardized in UIC leaflet 561 with the aim to reconfigure train sets. Main requirements of this leaflet have been incorporated in this standard as Annex A.

UIC Leaflet 561 is to date the only reference document available, but does not cover project specific solutions, which have been developed for each train set; for example, for multiple units, metros or tramways. The aim of EN 16286-1 is to close this gap and to cover the complete range of gangway systems.

1 Scope

This European Standard defines the technical and safety requirements applicable to gangway systems used in all railway vehicles such as tram, tram trains, coaches, metro, suburban, main line and high speed trains that carry passengers. A gangway system gives comfortable passage from one vehicle to the other and consists of a flexible component which allows relative movement between vehicles.

It also defines:

- the requirements for the safety for passengers and/or staff in the gangway while the train is running;
- the assessment methods as well as pass/fail criteria for gangways installed on vehicles.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12663-1, *Railway applications — Structural requirements of railway vehicle bodies — Part 1: Locomotives and passenger rolling stock (and alternative method for freight wagons)*

EN 15551, *Railway applications — Railway rolling stock — Buffers*

EN 15663, *Railway applications — Definition of vehicle reference masses*

EN 15566, *Railway applications — Railway rolling stock — Draw gear and screw coupling*

EN 16286-2, *Railway applications — Gangway systems between vehicles — Part 2: Acoustic measurements*

EN 45545 (all parts), *Railway applications — Fire protection on railway vehicles*

EN 50125-1, *Railway applications — Environmental conditions for equipment — Part 1: Equipment on board rolling stock*

EN ISO 6946, *Building components and building elements — Thermal resistance and thermal transmittance — Calculation method (ISO 6946)*

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