



**NSAI**  
Standards

Irish Standard  
I.S. EN 16839:2017

# Railway applications - Rolling stock - Head stock layout

**I.S. EN 16839:2017**

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## National Foreword

I.S. EN 16839:2017 is the adopted Irish version of the European Document EN 16839:2017, Railway applications - Rolling stock - Head stock layout

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EUROPEAN STANDARD

**EN 16839**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2017

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ICS 45.040

English Version

## Railway applications - Rolling stock - Head stock layout

Applications ferroviaires - Matériel roulant ferroviaires  
- Agencement de la traverse de tête

Bahnanwendungen - Schienenfahrzeuge - Anordnung  
der Bauteile am Kopfstück

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## **European foreword**

This document (EN 16839:2017) 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of an identical text or by endorsement, at the latest by April 2018, and conflicting national standards shall be withdrawn at the latest by April 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN 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 2008/57/EC.

For relationship with EU Directive 2008/57/EC, see informative Annex ZA, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## EN 16839:2017 (E)

### 1 Scope

This European Standard is valid for vehicles equipped with buffers and screw coupling systems.

In order to allow operation and coupling of trainsets or vehicles, this European Standard specifies the defined free space for the shunter called the “Berne rectangle” and the necessary free space for the installation of the rescue coupler.

This European Standard specifies the location, fixing and free spaces on the headstock of:

- buffers;
- screw coupling systems;
- end cocks;
- pneumatic half couplings;
- connections for electric cables.

It also specifies the calculation of the width of the buffer heads.

Unless otherwise displayed, all dimensions given in this European Standard are nominal values.

NOTE Some parts of this EN are copied from EN 16116-1, EN 16116-2, EN 15551 and EN 15566. These parts are meant to be deleted from these ENs during their next revision.

### 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 14601:2005+A1:2010, *Railway applications — Straight and angled end cocks for brake pipe and main reservoir pipe*

EN 15020:2006+A1:2010, *Railway applications — Rescue coupler — Performance requirements, specific interface geometry and test methods*

EN 15551:2017, *Railway applications — Railway rolling stock — Buffers*

EN 15566:2016, *Railway applications — Railway rolling stock — Draw gear and screw coupling*

EN 15807:2011, *Railway applications — Pneumatic half couplings*

EN 15877-1:2012, *Railway applications — Marking on railway vehicles - Part 1: Freight wagons*

EN 60529:1991, *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*

ISO 3864 (all parts), *Graphical symbols — Safety colours and safety signs*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14601, EN 15551, EN 15566, EN 15807 and the following apply.

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