

A decorative background featuring various icons such as gears, a globe, a lightbulb, a question mark, a person, and a network diagram, all connected by dashed lines. The background is primarily in shades of blue and teal, with a prominent orange gear and a yellow flower-like shape with an upward arrow.

# WORKSHOP

## Preparation of Harmonized Standards

12 July 2018, Brussels – CEN-CENELEC Meeting Centre

BREAKOUT SESSION

# CEN Case studies: Mobility (Rail)

Thierry LEGRAND

Customer Service Specialist – Mobility

[tlegrand@cencenelec.eu](mailto:tlegrand@cencenelec.eu)

# Scope of the case study

- Railway Interoperability (2008/57/EC (2016/797/EC))
- Pressure Equipment (2014/68/EU) – Simple Pressure Vessels (2014/29/EU)
- Cableway Installations (2016/424/EU)
- Recreational Craft (2013/53/EU)
- Transport of Dangerous Goods (2008/68/EC)

# Annex ZA – e.g. PED

## Annex ZA (informative)

### Relationship between this European Standard and the essential requirements of Directive 2014/68/EU aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/071 to provide one voluntary means of conforming to essential requirements of Directive 2014/68/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 May 2014 on the harmonization of the laws of the Member States relating to the making available on the market of pressure equipment.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

**Table ZA.1 — Correspondence between this European Standard and the Annex I of the Directive 2014/68/EU**

Essential Requirements of Directive 2014/68/EU	Clauses/subclauses of this EN	Remarks/Notes
2.1	5.1.1	General design
2.2	5.1.2	Design for adequate strength
2.2.1	5.1.2a), 5.1.2b), 5.1.2c)	Design loadings factors
2.2.2	5.1.2b), 5.1.2c), 5.1.2d)	Design for adequate strength (refer to 2.3 or 2.2.4)
2.2.3	5.1.2a), 5.1.2b), 5.1.2c)	Design calculation method
2.2.4	5.1.2d)	Experimental design method
2.6	5.1.2a), 5.1.2b), 5.1.2c)	Corrosion
2.10 a) b)	5.1.3	Protection against exceeding the allowable limits of pressure equipment

# Annex ZA/ZZ for the railway Interoperability

## Annex ZA (informative)

### Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC

This European Standard has been prepared under mandates given to CEN/CENELEC/ETSI by the European Commission to provide a means of conforming to the Essential Requirements of the New Directive 2008/57/EC.

Once this standard is cited in the Official Journal of the European Communities under that Directive and has been implemented as a national standard in Table ZA.1 for freight wagons, confers within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

**Table ZA.1— Correspondence between this European Standard, the European Commission Regulation No 321/2013 of 13 March 2013 concerning the technical specification for interoperability relating to the subsystem 'rolling stock - freight wagons' of the rail system in the European Union and repealing Decision 2006/861/EC (published in the *Official Journal L 104, 12.4.2013, p.1*) and Directive 2008/57/EC**

Corresponding text, articles/§/annexes of the Directive 2008/57/EC	Chapter/§/annexes of the Technical Specification for Interoperability (TSI)	Clause/subclauses of this European Standard	Comments
Annex III, Essential requirements 1 General requirements 1.1 Safety Clauses 1.1.1, 1.1.3 2 Requirements specific to each subsystem 2.4 Requirements specific to each subsystem «Rolling stock» 2.4.2 Reliability and availability	4.Characterisation of the subsystem 4.2 Functional and technical specifications of the subsystem. 4.2.3 Gauging and track interaction. 4.2.3.6 Running gear § 4.2.3.6.4 Characteristics of axles 5 Interoperability constituents § 5.3.4 Axles 6 Conformity assessment of constituents and verification of the subsystem § 6.1.2.4 Axles	The whole standard is applicable	The wagon TSI quotes the Clauses 4, 5, 6 and 7 of EN 13103:2009+A2:2012 and therefore are mandatory. Clauses 5, 6 and 7 of this EN 13103-1 are the same as Clauses 4, 5 and 6 of the previous issue quoted in the TSI, and its Clause 8 is technically the same as the Clause 7 of the previous issue. Its content has been improved for a better understanding.

# Railway Applications - Annexes ZA

## Heading text

- The heading text is standardised as follows:
  - **Annex ZA**
  - **(informative)**
  - **Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC (2016/797/EC) aimed to be covered**
- This European Standard has been prepared under a Commission's standardization request M/483 (**Mxxx**) to provide one voluntary means of conforming to the essential requirements of the Directive 2008/57/EC (**2016/797/EC**) on the interoperability of the rail system (recast) and with the associated TSIs
- Once this standard is cited in the Official Journal of the European Union under that Directive 2008/57/EC (**2016/797/EC**), compliance with the normative clauses of this standard given in Table ZA.1 for freight wagons TSI, Table ZA.2 for locomotive and passenger TSI, Table ZA.3 for the Infrastructure TSI, Table ZA.4 for the PRM TSI, Table ZA.5 for the SRT TSI, .. confers within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations and with the TSI requirements.

# Railway Applications Annex ZA

## Table ZA Title

- The title gives the precise reference of the TSI in force at the publication (drafting) of the EN. An example is given below.
- “Correspondence between this European Standard, the Commission Regulation n° 321/2013 of 13 March 2013 (and its amendments 1236/2013 and 2015/924) concerning the technical specification for interoperability relating to the subsystem ‘rolling stock – freight wagons’ of the rail system in the European Union and repealing Decision 2006/861/EC (published in the *Official Journal L 104, 12.4.2013, p.1*) and Directive 2008/57/EC (**2016/797/EC**)”

# Railway Applications Annexes ZA

## Table ZA – First column

### Corresponding text, articles/§/annexes of the Directive 2008/57/EC

This column gives the number of the essential requirements of the Directive 2008/57/EC (**2016/797/EC**) which are fulfilled by the subject of the EN

The list of the ERs listed in this column may be longer than the list of the ERs given in the chapter 3 “Essential requirements” of the TSI when the EN deals with more subjects than those dealt with in the TSI.

# Railway Applications Annexes ZA

## Table ZA – Second column

### Chapter/§/annexes of the TSI

This column gives the different parts of the TSI for which the EN gives solutions to fulfill the requirements of these TSI parts.

As the structure of the TSI and the structure of the EN are often very different, it is not possible to establish a clear relation between the parts of the TSI and the clauses and subclauses of the EN.

In order to clarify where is the TSI § which gives the requirement covered by the EN, the chapters and subchapters of a highest level in the TSI are given in this column before the § number

This column gives the list of clauses and subclauses of the EN which help to the implementation of the TSI requirements of the chapters listed in the second column and which gives for the subject of the EN a conformity with the essential requirements of the directive given in the third column.

The more often “the whole standard applies”.

Are excluded:

- Parts of the EN which are not linked with the TSI requirements given in the second column
- Parts which gives specifications which are not in accordance with the TSI requirements

# Railway Applications Annexes ZA

## Table ZA – Fourth column

### Comments

This column gives informations which are usefull for the use of the EN. The more often listed are the following:

- The referred clauses and subclauses of the EN which are referred to in the TSI and therefore mandatory
- In the case of a revised EN with a previous issue referred in the TSI, the corresponding parts of the revised EN are given with the information of the identity of these parts or their evolutions
- When clauses or subclauses of the EN are excluded from the harmonisation, the reason is given
- When potential essential requirements are not listed in the column 3, the reasons are given
- Differences between EN and TSI which have no technical impact (notation, ....)

# Method to draft an annex ZA and its tables ZA.x

- Step 1 Identification of the different TSIs
- Step 2, Looking for Essential Requirements of the Directive (Column 1)
- Step 3 Looking for TSI requirements (Column 2)
- Step 4 List of Clauses and subclause of the EN (Column 3)
- Step 5 List of useful comments (Column 4)

# Step 1 Identification of the different TSI

List all the TSIs and their chapters and paragraphs which deal with the subject of the EN.

Analyse these chapters and paragraphs in order to point out:

- where the EN covers the TSI requirement (the EN can require more than the TSI)
- where the EN is not in accordance with the TSI requirement
- the editorial differences between the TSI and the EN where the TSI requirements are covered
- the EN clauses and subclauses of a previous version of the EN which are referred to in the TSIs and therefore mandatory

## Step 2, Looking for Essential Requirements of the Directive (Column 1)

List all the essential requirements of the directive which are fulfilled by the EN requirements.

Copy the list of relevant essential requirements in the first column.

Note that in the railway field, the whole fulfilment of the ER needs generally other requirements of other ENs

## Step 3 Looking for TSI requirements (Column 2)

Copy the list of chapters and paragraphs of the TSI covered by the EN in the second column.

## Step 4 List of Clauses and subclause of the EN (Column 3)

Put in the first column the list of clauses and subclauses of the EN which is the result of the step 1

## Step 5 List of useful comments (Column 4)

Put the relevant comments resulting from the step 1

When clauses and subclauses of the previous version of the EN is referred to in the TSI:

- List the EN clauses and subclauses of the previous version of the EN which are referred to in the TSIs and therefore mandatory
- identify the corresponding clauses and subclauses of the new version and point out the differences or the equivalences between these clauses and subclauses (they should be indicated in the foreword or the introduction of the EN)