CEN/TC 256/SC 1
Railway applications / Track

CEN/TC 256/SC 1 "*Track*"

European Federation of Railway Trackworks Contractors
EFRTC

EFRTC General Meeting Brussels 2008
PORTO, 2009-06-05

Francisco Melo Parente
(Porto, 2009-06-05)

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CEN/TC 256/SC 1
Railway applications / Track

1 – Meetings

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CEN/TC 256/SC 1
Railway applications / Track

The 1sh meeting of CEN/TC 256/SC 1 "*Track*" was held in Brussels, 1991-12-14

…….

The 35th meeting of CEN/TC 256/SC 1 "*Track*" was held in Helsinki, 2009-04-02

The 36th meeting of CEN/TC 256/SC 1 "*Track*" will be held in London, 2009-09-24

CEN/TC 256/SC 1
Railway applications / Track

2 – Organization

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(Porto, 2009-06-05)

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CEN/TC 256/SC 1
Railway applications / Track

Title

Railway applications – Track

Scope

Standardisation on general requirements for track design, installation and maintenance. Materials, components and assemblies. Works and machines.

Chairman

Mr. Francisco Melo PARENTE (PT) - SAFEVIA

Secretariat

IPQ – Mr. Eduardo CORREIA (PT) - APNCF

CEN/TC 256/SC 1
Railway applications / Track

Members National Standard Bodies (30)

Austria; Belgium; Bulgaria; Cyprus; Czech Republic; Denmark; Estonia; Finland; France; Germany; Greece; Hungary; Iceland; Ireland; Italy; Latvia; Lithuania; Luxembourg; Malta; Norway; Poland; Portugal; Romania; Slovakia; Slovenia: Spain; Sweden; Switzerland; The Netherlands; United Kingdom.

Affiliated National Standard Bodies (4)

Albania; Croatia; The former Yugoslav Republic of Macedonia: Turkey.

Organizations in liaison (3)

EFRTC – European Federation of Railway Trackworks Contractors;
EIM – European Rail Infrastructure Managers;
UIC – International Union of Railways.

CEN/TC 256/SC 1
Railway applications / Track

Working Groups (11)

WG 4 “Rails”
WG 5 “Track construction and maintenance machines”
WG 15 “Track alignment design parameters”
WG 16 “Sleepers and bearers”
WG 17 “Fastening systems”
WG 18 “Switches and crossings”
WG 21 “Acceptance of trackwork after renewal and/or maintenance work”
WG 28 “Track geometry quality”
WG 34 “Qualification of trackworks contractors”
WG 39 "Safety protection on the track during work"
WG 40 "Noise barriers"

Survey and Study Groups (2)

SG 11 “Track gauge”
SG 12 "Ballastless track systems"

CEN/TC 256/SC 1
Railway applications / Track

3 – WG 4 Rails

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CEN/TC 256/SC 1
Railway applications / Track

WG 4 “Rails”

Scope: All railway rails: manufacturing, welding and jointing.

Acting Convenor: Mr. Ruiz, V. (SP).

Secretary: Mr. Frank, N. (AT).

Published Standars: 10.

CEN/TC 256/SC 1
Railway applications / Track

EN 13674-1:2003	Railway applications – Track – Rail Part 1: Vignole railway rails 46 kg/m and above
EN 13674-2:2006	Railway applications – Track – Rail Part 2: Switch and crossing rails used in conjunction with Vignole railway rails 46 kg/m and above
EN 13674-3:2006	Railway applications – Track – Rail Part 3: Check rails
EN 13674-4:2006	Railway applications – Track – Rail Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m

CEN/TC 256/SC 1
Railway applications / Track

EN 14587-1:2007	Railway applications – Track – Flash butt welding of rails Part 1: New R220, R260, R260Mn and R350HT grade rails in a fixed plant
EN 14587-2:2009	Railway applications – Track – Flash butt welding of rails Part 2: New R220, R260, R260Mn and R350HT grade rails by mobile welding machines at sites other than a fixed plant
EN 14730-1:2006	Railway applications – Track – Aluminothermic welding of rails Part 1: Approval of welding processes

CEN/TC 256/SC 1
Railway applications / Track

EN 14730-2:2006	Railway applications – Track – Aluminothermic welding of rails Part 2: Qualification of aluminothermic welders, approval of contractors and acceptance of welds
EN 14811:2006	Railway applications – Track – Special purpose rail – Grooved and associated construction
EN 15594:2009	Railway applications – Track – Restoration of rails by electric arc welding

CEN/TC 256/SC 1
Railway applications / Track

WG4 00256339 prEN 14587-3	Railway applications – Track – Flash butt welding of rails Part 3: Welding in association with crossing construction	
WG 4	Railway applications – Track – Forged rail transitions	**Scope:** **Specification of the requirements for the approval of a process wherein a rail of one profile has part of its length forged to a different profile, together with the requirements for subsequent forging production and product acceptance. The standard applies to new Vignole rails welded or fish plated to make up switch rails or transition rails intended for use on railway infrastructures.**

CEN/TC 256/SC 1

WG 4	Railway applications – Track – Restoration/reparation of manganese crossings	**Scope:** **To specify the restoration of cast austenitic manganese steel for fixed crossings and cradles for crossings with movable parts, designed to be flash butt welded or bolted to adjoining rails manufactured according to EN 15689.** **To describe the approval systems for consumables and procedures used in manual metal arc and flux cored metal deposit repair welding, including the quality-related tasks and responsibilities and qualifications of personnel involved in the electric arc repair welding of cast crossings. To make the future standard applicable to flash welded leg ends of austenitic manganese steel crossings and the associated tri-metal zone.**

CEN/TC 256/SC 1
Railway applications / Track

WG 4	Railway applications – Track – Restoration/reparation of manganese crossings	**The permitted welding processes shall be limited to Electric Arc (EA) in accordance with EN ISO 4063 and are by description Process No 111: MMA (Manual Metal Arc) and Process No 114: FCAW (Flux Cored Arc Welding). To describe their applications.** **To make the future standard applicable in situ, at line side or at out of track locations.**

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Railway applications / Track

4 – WG 5 Track construction and maintenance machines

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(Porto, 2009-06-05)

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CEN/TC 256/SC 1
Railway applications / Track

WG 5 “Track construction and maintenance machines”

Scope: Running and/or working conditions for track construction and maintenance machines.

Convenor: Mr. Hatzel, M. (DE).

Secretary: Mrs. Grams, H. (DE).

Published Standars: 3.

CEN/TC 256/SC 1
Railway applications / Track

EN 13977:2005	Railway applications – Track – Safety requirements for portable machines and trolleys for construction and maintenance
EN 14033-1:2008	Railway applications – Track – Railbound construction and maintenance machines Part 1: Technical requirements for running
EN 14033-2:2008	Railway applications – Track – Railbound construction and maintenance machines Part 2: Technical requirements for working

CEN/TC 256/SC 1
Railway applications / Track

WG 5 00256254 prEN 14033-3	Railway applications – Track – Railbound construction and maintenance machines Part 3: General safety requirements
WG 5 00256252 prEN 15746-1	Railway applications – Track – Road-rail machines and associated equipment Part 1: Technical requirements for running and working
WG 5 00256253 prEN 15746-2	Railway applications – Track – Road-rail machines and associated equipment Part 2: General safety requirements

CEN/TC 256/SC 1
Railway applications / Track

WG 5 00256316	Railway applications – Track – Non self propelled trailers Part 1: Technical requirements for running and working
WG 5 00256317	Railway applications – Track – Non self propelled trailers Part 2: General safety requirements
WG 5 00256318	Railway applications – Track – Demountable machines Part 1: Technical requirements for running and working

CEN/TC 256/SC 1
Railway applications / Track

WG 5 00256319	Railway applications – Track – Demountable machines Part 2: General safety requirements

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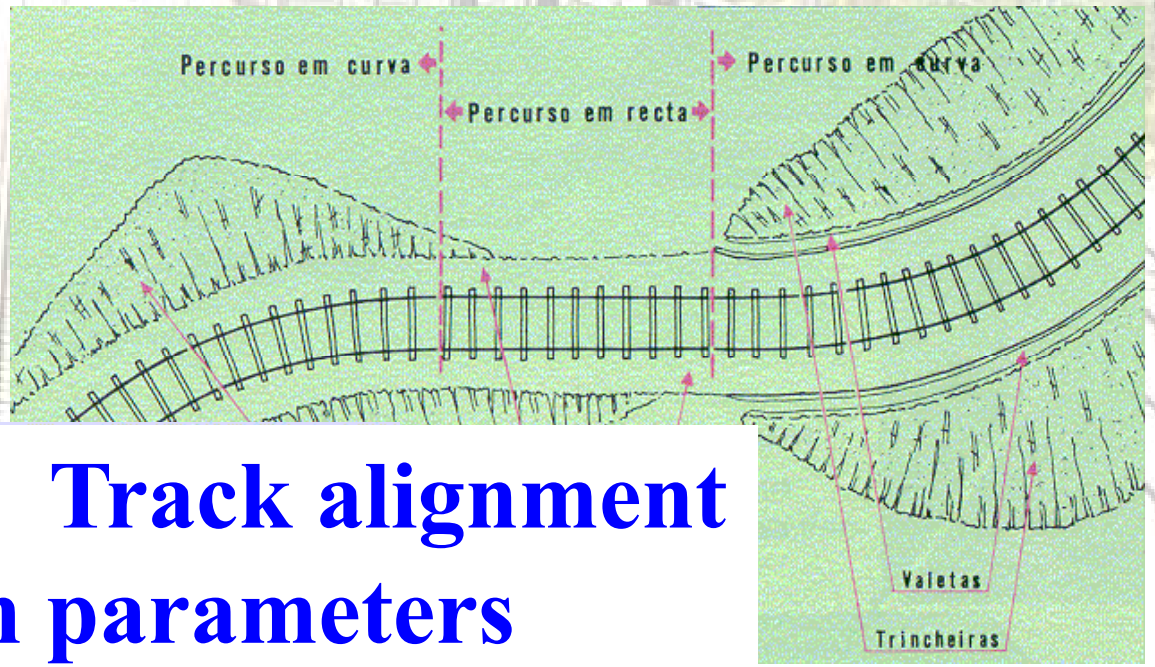
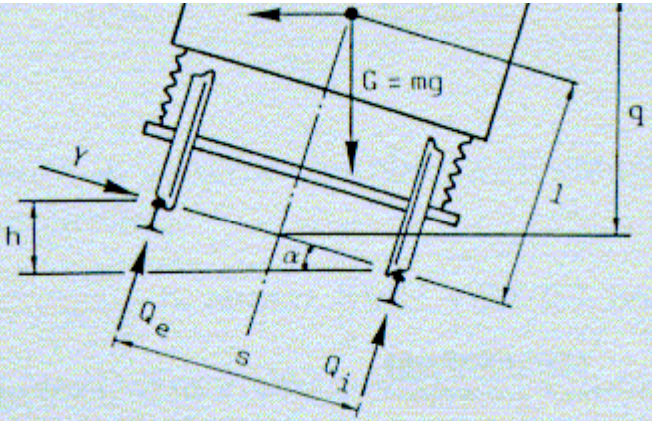
CEN/TC 256/SC 1
Railway applications / Track



5 – WG 15 Track alignment design parameters



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Railway applications / Track

WG 15 “Track alignment design parameters”

Scope: Limits for permissible speed on existing lines as a function of layout parameters. Limits of layout parameters for the planning of lines based on desired speed and other requirements. Speeds to be considered are 80 km/h to 300 km/h.

Convenor: Dr. Küfver, B. (SE).

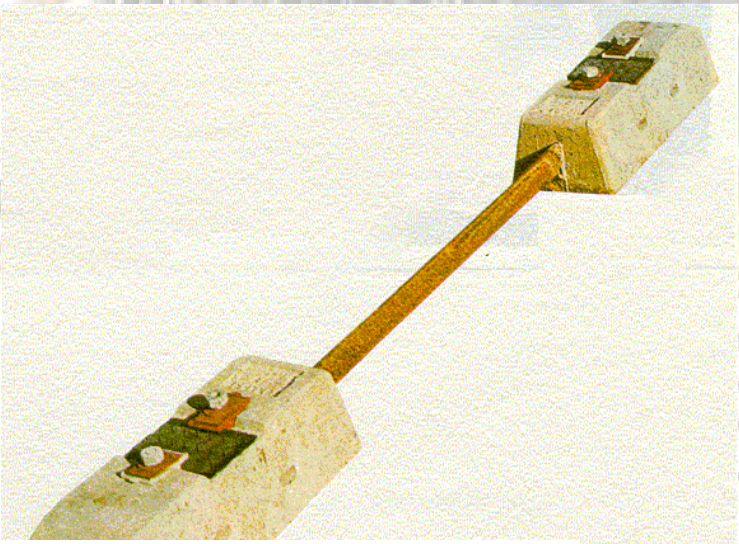
Secretary: Mr. Rydell, O. (SE).

Published Standars: 2

CEN/TC 256/SC 1
Railway applications / Track

ENV 13803-1:2002	Railway applications – Track alignment design parameters – Track gauges 1 435 mm and wider Part 1: Plain line
EN 13803-2:2006	Railway applications – Track – Track alignment design parameters – Track gauges 1435 mm and wider Part 2: Switches and crossings and comparable alignment design situations with abrupt changes of curvature

CEN/TC 256/SC 1
Railway applications / Track



6 – WG 16 Sleepers and bearers

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(Amiens, 2009-05-06/07)

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CEN/TC 256/SC 1
Railway applications / Track

WG 16 “Sleepers and bearers”

Scope: Concrete, wood and steel sleepers.

Convenor: Mr. Fumey, M. (FR).

Secretarys: Mr. Petit, C. (FR) (SG 1)
Mr. De Jaeger (FR) (SG 2)

Published Standars: 6

CEN/TC 256/SC 1
Railway applications / Track

EN 13145:2001	Railway applications – Track – Wood sleepers and bearers

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(Porto, 2009-06-05)

EN 13230-1:2002	Railway applications – Track – Concrete sleepers and bearers Part 1: General requirements
EN 13230-2:2002	Railway applications – Track – Concrete sleepers and bearers Part 2: Prestressed monoblock sleepers
EN 13230-3:2002	Railway applications – Track – Concrete sleepers and bearers Part 3: Twin-block reinforced sleepers
EN 13230-4:2002	Railway applications – Track – Concrete sleepers and bearers Part 4: Prestressed bearers for switches and crossings
EN 13230-5:2002	Railway applications – Track – Concrete sleepers and bearers Part 5: Special elements

CEN/TC 256/SC 1
Railway applications / Track

WG 16 00256328	Railway applications – Track – Design of concrete sleepers and bearers	**Scope:** **Standardization in the field of concrete sleepers and bearers. This document provides particular design guidance in the following areas:** – **service categories for sleeper designs** – **derivation of design loads including dynamic impact factors** – **calculation of design bending moments** – **selection of dimensions**

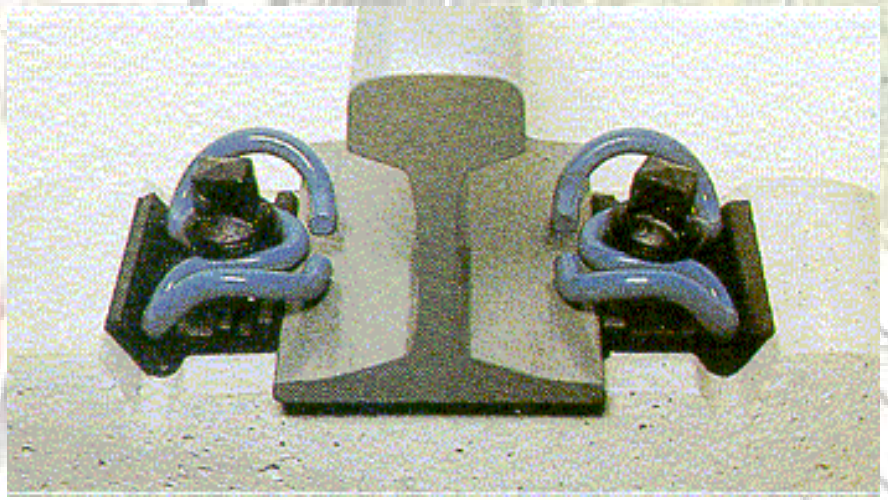
CEN/TC 256/SC 1
Railway applications / Track

WG 16 00256nnn	Railway applications – Track – Hollow sleepers and bearers	**Scope:** **Standardization in the field of sleepers and bearers. The standard shall provide particular design guidance in the following areas:** **geometry requirements;** **material and processing requirements;** **requirements for fastening points and insulating;** **test procedures.**

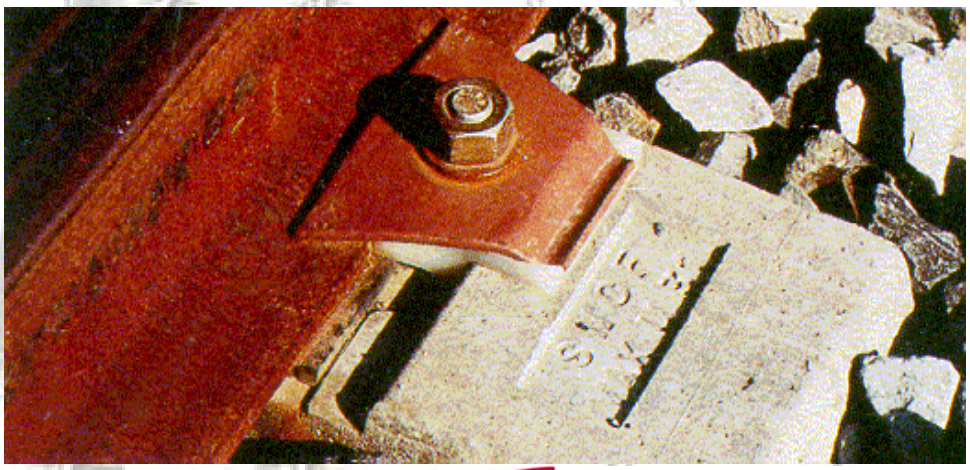
CEN/TC 256/SC 1
Railway applications / Track

WG 16 00256nnn	Railway applications – Track – Concrete sleepers and bearers with under sleeper pads	**Scope:** **Standardization in the field of concrete sleepers and bearers. This document provides particular design guidance in the following areas:** – **definition of stiffness and fatigue requirements;** – **geometry requirements;** – **performance of sleepers or bearers with under sleeper pad;** – **material and processing requirements;** – **test procedures (stiffness of pad, global stiffness, ballast attrition resistance, longitudinal and lateral resistance).**

CEN/TC 256/SC 1
Railway applications / Track



7 – WG 17 Fastenings systems



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(Porto, 2009-06-05)

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WG 17 “Fastenings systems “

Scope: Test methods and performance requirements for fastenings for concrete, wood and steel sleepers, for slab track, for vibration attenuation, for switches, crossings, guard and check rails.

Convenor: Dr. Rhodes, D. (UK).

Secretary: Mr. Buekett, J. (UK)

Published Standars: 16.

CEN/TC 256/SC 1
Railway applications / Track

EN 13146-1:2002	Railway applications – Track – Test methods for fastening systems Part 1: Determination of longitudinal rail restraint
EN 13146-2:2002	Railway applications – Track – Test methods for fastening systems Part 2: Determination of torsional resistance
EN 13146-3:2002	Railway applications – Track – Test methods for fastening systems Part 3: Determination of attenuation of impact loads
EN 13146-4:2002	Railway applications – Track – Test methods for fastening systems Part 4: Effect of repeated loading
EN 13146-5:2002	Railway applications – Track – Test methods for fastening systems Part 5: Determination of electrical resistance

CEN/TC 256/SC 1
Railway applications / Track

EN 13146-6:2002	Railway applications – Track – Test methods for fastening systems Part 6: Effect of severe environmental conditions
EN 13146-7:2002	Railway applications – Track – Test methods for fastening systems Part 7: Determination of clamping force
EN 13146-8:2002	Railway applications – Track – Test methods for fastening systems Part 8: In service testing

CEN/TC 256/SC 1
Railway applications / Track

EN 13481-1:2002	Railway applications – Track – Performance requirements for fastening systems Part 1: Definitions
EN 13481-2:2002	Railway applications – Track – Performance requirements for fastening systems Part 2: Fastening systems for concrete sleepers
EN 13481-3:2002	Railway applications – Track – Performance requirements for fastening systems Part 3: Fastening systems for wood sleepers
EN 13481-4:2002	Railway applications – Track – Performance requirements for fastening systems Part 4: Fastening systems for steel sleepers
EN 13481-5:2002	Railway applications – Track – Performance requirements for fastening systems Part 5: Fastening systems for slab track

CEN/TC 256/SC 1
Railway applications / Track

ENV 13481-6:2002	Railway applications – Track – Performance requirements for fastening systems Part 6: Special fastening systems for attenuation of vibration
EN 13481-7:2003	Railway applications – Track – Performance requirements for fastening systems Part 7: Special fastening systems for switches and crossings and check rails
EN 13481-8:2006	Railway applications – Track – Performance requirements for fastening systems Part 8: Fastening systems for track with heavy axle loads

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Railway applications / Track

WG 17 00256273 prEN 13146-9	Railway applications – Track – Test methods for fastening systems Part 9: Determination of stiffness

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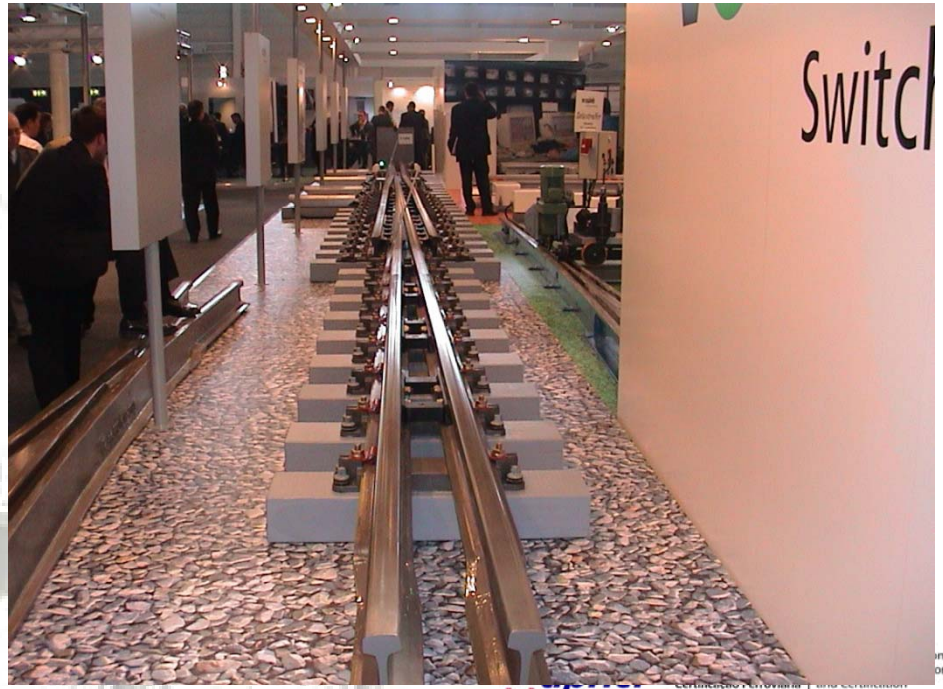
CEN/TC 256/SC 1
Railway applications / Track

8 – WG 18 Switches and crossings



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Railway applications / Track

WG 18 “Switches and crossings“

Scope: Special definitions, design and tolerances of switches and crossings.

Convenor: Mr. Foan, A. (UK).

Secretary: Mr. Apps, J. (UK).

Published Standars: 9.

CEN/TC 256/SC 1
Railway applications / Track

EN 13232-1:2003	Railway applications – Track – Switches and crossings Part 1: Definitions
EN 13232-2:2003	Railway applications – Track – Switches and crossings Part 2: Requirements for geometric design
EN 13232-3:2003	Railway applications – Track – Switches and crossings Part 3: Requirements for wheel/rail interaction
EN 13232-4:2005	Railway applications – Track – Switches and crossings Part 4: Actuation, locking and detection
EN 13232-5:2005	Railway applications – Track – Switches and crossings. Part 5: Switches

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Railway applications / Track

EN 13232-6:2005	Railway applications – Track – Switches and crossings Part 6: Fixed common and obtuse crossings
EN 13232-7:2006	Railway applications – Track – Switches and crossings Part 7: Crossings with moveable parts
EN 13232-8:2007	Railway applications – Track – Switches and crossings Part 8: Expansion devices
EN 13232-9:2006	Railway applications – Track – Switches and crossings Part 9: Layouts

CEN/TC 256/SC 1
Railway applications / Track

WG 18 00256260 prEN 15689	Railway applications – Track – Switches and crossings – Crossing components made of cast austenitic manganese steel	
WG 18 00256nnn	Railway applications – Track – Mechanical joints	Scope: This standard deals with mechanical joints for flat bottom rails 46 kg/m and over. The scope of this standard is: – to establish a working terminology for mechanical rail joints, and to identify the main types; – to list the minimum informative requirements for the manufacture of mechanical joints and/or their constituent parts;

		– to define the mechanical and electrical requirements, acceptance methods and acceptance criteria for mechanical joints, whether they are insulated or non-insulated, of 'dry' or 'glued' construction, or whether they are finished in a factory or in the field; – to establish limits and extent of supply, and to define the method by which mechanical joints and their constituent parts should be identified and traced.

CEN/TC 256/SC 1
Railway applications / Track

9 – WG 21 Acceptance of track work after renewal and maintenance

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CEN/TC 256/SC 1
Railway applications / Track

WG 21 “Acceptance of track work after renewal and/or maintenance work“

Scope: Acceptance of trackwork after renewal and maintenance work in switches, crossings and plain track.

Convenor: Mr. Cruz, A. (PT).

Secretary: Mr. Correia, E. (PT).

Published Standars: 3.

CEN/TC 256/SC 1
Railway applications / Track

EN 13231-1:2006	Railway applications – Track – Acceptance of works Part 1: Works on ballasted track – Plain line
EN 13231-2:2006	Railway applications – Track – Acceptance of works Part 2: Works on ballasted track – Switches and crossings
EN 13231-3:2006	Railway applications – Track – Acceptance of works Part 3: Acceptance of rail grinding, milling and planing work in track

CEN/TC 256/SC 1
Railway applications / Track

10 – WG 28 Track geometry quality

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(Porto, 2009-06-05)

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CEN/TC 256/SC 1
Railway applications / Track

WG 28 "Track geometry quality"

Scope: To consider the two following subjects, characterisation of the track geometry, and specification for measurement devices.

Convenor: Mr. Coudert, F. (FR).

Secretary: Mr. Vicol, T. (FR).

Published Standars: 4.

[1] Confirmed by resolution CEN/TC 256 70/2008 on 2008-10-30.

CEN/TC 256/SC 1
Railway applications / Track

EN 13848-1:2003	Railway applications – Track – Track geometry quality Part 1: Characterisation of track geometry
EN 13848-2:2006	Railway applications – Track – Track geometry quality Part 2: Measuring systems – Track recording vehicles
EN 13848-3:2009	Railway applications – Track – Track geometry quality Part 3: Measuring systems – Track construction and maintenance machines
EN 13848-5:2008	Railway applications – Track – Track geometry quality Part 5: Geometric quality levels

CEN/TC 256/SC 1
Railway applications / Track

WG 28 00256nnn prEN 13848-4	Railway applications – Track – Track geometry quality Part 4: Measuring systems – Manual and light weight devices

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CEN/TC 256/SC 1
Railway applications / Track

WG 28 00256nnn prEN 13848-6	Railway applications – Track – Track geometry quality Part 6: Characterisation of track geometry quality	**Scope:** **This European Standard characterizes the quality of track geometry and gives the different classes which have to be considered. Each parameter as defined in Part 1 (EN 13848-1) is taken into account in this classification.** **This Standard covers the following topics:** **– description of track geometry quality;**

		– classification of track quality according to track geometry parameters; – considerations on how this classification can be used. This European Standard applies to high-speed and conventional plain line of 1 435 mm and wider gauge railways provided that the vehicles operated on those lines comply with EN 14363 and other vehicle safety standards.

CEN/TC 256/SC 1
Railway applications / Track

11 – WG 34 Qualification of railway trackworks contractors

Francisco Melo Parente
((Porto, 2009-06-05)

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WG 34 "Qualification of railway trackworks contractors"

Scope: According to the European Directive 93/38/EU, amended with the Directive 98/4/EU, co-ordinating the procurement procedures of entities operating in the water, energy, transport and telecommunications sectors, a qualification system of construction and maintenance trackworks contractors, which considers the specific railway problems is required and should be object of a standard project, which should have the scope to determine:

- Procedures for qualification and validity;
- Requirements for qualification:
  a) Administrative and legal;
  b) Financial;
  c) Technical;
  d) Quality;
- Classification by type of work;
- Classification by size of contract.

WG 34 "Qualification of railway trackworks contractors"

Convenor: Mr. Petit, C. (FR).

Secretary: Mr. Maatjes, E. (NL).

Published Standars: 1.

Program of Work:

- (dormant until 2009).

[1] Confirmed by resolution CEN/TC 256 70/2008 on 2008-10-30.

CEN/TC 256/SC 1
Railway applications / Track

EN 14969:2006	Railway applications – Track – Qualification system for railway trackwork contractors

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(Porto, 2009-06-05)

CEN/TC 256/SC 1
Railway applications / Track

12 – WG 39 Safety protection on the track during work

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(Porto, 2009-06-05)

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WG 39 "Safety protection on the track during work"

Scope: To establish the supplementary prescriptions and competences required in order to minimize the risks on a railway work site, especially when trains are circulating on the adjacent track (Note: the European Directive 92/57/CE for the safety and health prescriptions on temporary or mobile site works does not consider the specific railway problems).

The requirements are:

- The list of railway risks;
- Common principles for the protection of fixed and mobile work sites with trains circulating on the adjacent track and working track;
- Common solutions and technology to be applied and their use;
- Qualification of the agents responsible for the work site protections.

Convenor: Mr. Hermans, M. (NL).

Secretary: Mr. Carlebur, A. (NL).

WG 39 "Safety protection on the track during work"

Published Standars: 0.

Program of Work:

- Railway applications – Track – Risk assessment on railway work at temporary fixed or mobile sites.

CEN/TC 256/SC 1
Railway applications / Track

13 – WG 40 Noise barriers for railway infrastructure

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(Porto, 2009-06-05)

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WG 40 "Noise barriers for railway infrastructure"

Scope: Noise barriers for railway applications.

Convenor: Prof. Garai, M. (IT).

Secretary: -

Program of Work:

- Railway applications – Track – Noise barriers for railway infrastructure.

CEN/TC 256/SC 1
Railway applications / Track

14 – Survey Group SG 11 “Track gauge”

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(Porto, 2009-06-05)

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SG 11 "Track gauge"

Scope: Evaluation of the possibility of standardizing test measurements of gauge including variation in sleepers and fastening systems under dynamic loading..

Convenor: Dr. Rhodes, D. (UK).

Secretary: Mr. Buekett, J. (UK).

Program of Work:

- (dormant)

CEN/TC 256/SC 1
Railway applications / Track

15 – Study Group SG 12 “Ballastless track”

Francisco Melo Parente
(Porto, 2009-06-05)

SG 12 "Ballastless track"

Scope: Preparation of a comprehensive programe of work for the possible development of product (requirements and tests) and acceptance of work standards covering ballastless track systems.

Convenor: Jens KLEEBERG (DE).

Secretary: -

Program of Work:

- (beginning October 2008).

CEN/TC 256/SC 1
Railway applications / Track

16 – Conclusions

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(Porto, 2009-06-05)

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CEN/TC 256/SC 1
Railway applications / Track

- Some 54 Work Items are under development in CEN/TC 256/SC 1. The current summarized status is as follows:

- CEN/TC 256/SC 1 has now published 54 standards.

- 16 projects are at WG level (3 of these are amendments to existing standards)

CEN/TC 256/SC 1
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- 1 project has reached the end of CEN Enquiry
- 1 project is ready to be dispatched to CMC for UAP
- 16 projects are ready to be dispatched to CMC for CEN Enquiry

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- 5 projects have been dispatched to CMC for CEN Enquiry (1 of these is a revision of existing standard)

- 5 projects have been dispatched to CMC for Formal Vote

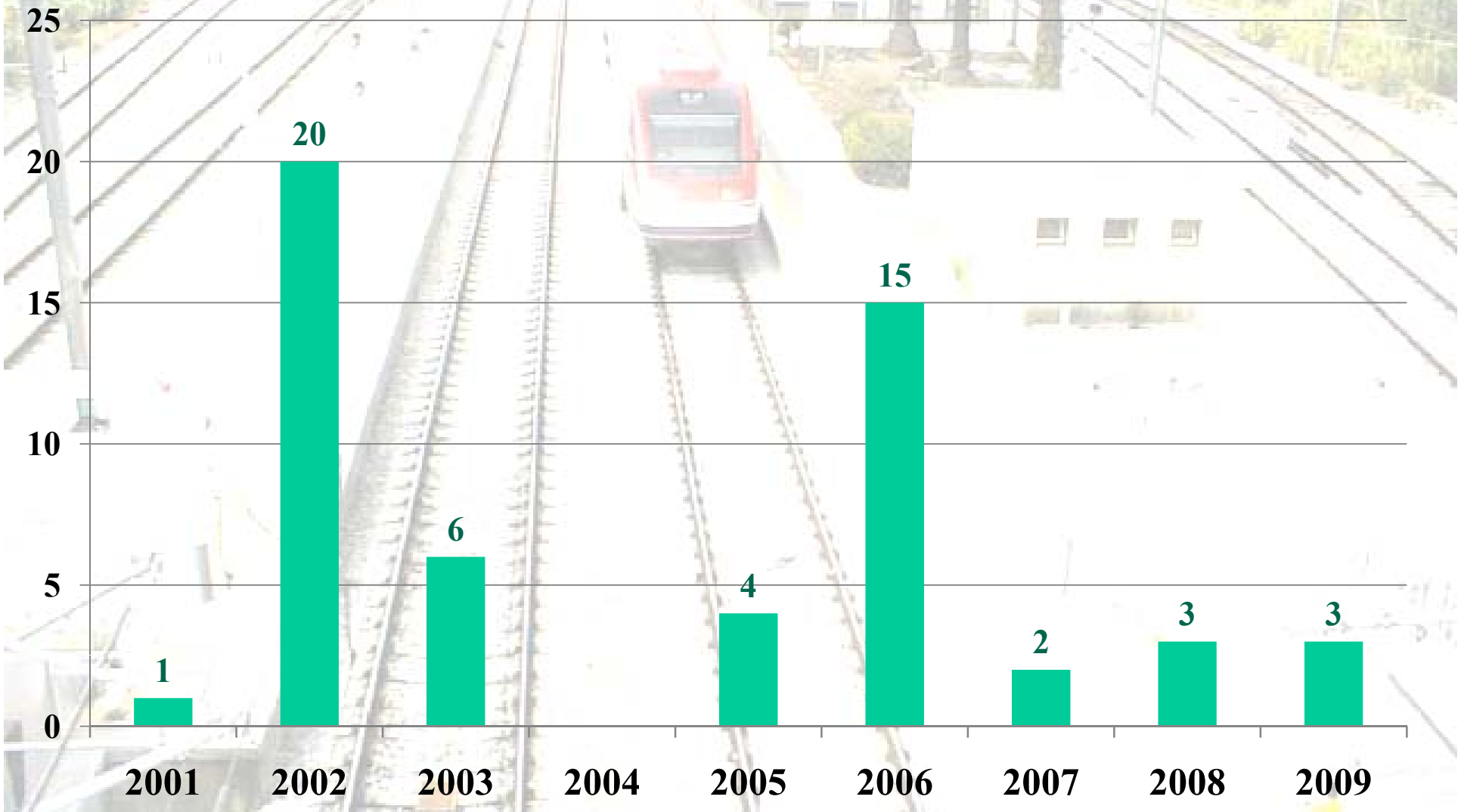
- 4 projects have been dispatched to CMC for UAP (amendments to existing standards)

CEN/TC 256/SC 1
Railway applications / Track

- 1 project is at CEN Enquiry (revision of existing standard)

- 5 projects have been approved after Formal Vote (revision of existing standards); standards to be published

CEN/TC 256/SC 1
Railway applications / Track



Francisco Melo Parente
(Porto, 2009-06-05)

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safevia serviços de engenharia arquitectura segurança e higiene no trabalho lda

CEN/TC 256/SC 1
Railway applications / Track

Working Groups	EN
WG 4 “Rails”	10
WG 5 “Track construction and maintenance machines”	3
WG 15 “Track alignment design parameters”	2
WG 16 “Sleepers and bearers”	6
WG 17 “Fastening systems”	16
WG 18 “Switches and crossings”	9

CEN/TC 256/SC 1
Railway applications / Track

Working Groups	EN
WG 21 “Acceptance of track work after renewal and/or maintenance work”	3
WG 28 “Track geometry quality”	4
WG 34 “Qualification of track works contractors”	1
WG 39 "Safety protection on the track during work"	0
WG 40 "Noise barriers"	0
SG 11 “Track gauge”	-
SG 12 “Ballastless track”	-
Total	**54**

CEN/TC 256/SC 1
Railway applications / Track

PRODUTS 39 STANDARS:

Rails: 05;
Machines: 03;
Sleepers 06;
Fastenings: 16;
Switches: 09.

WORKS 05 STANDARS:

Welding of rails: 05.

SYSTEM 10 STANDARS:

Design: 02;
Quality: 04;
Acceptance 03;
Qualification: 01.

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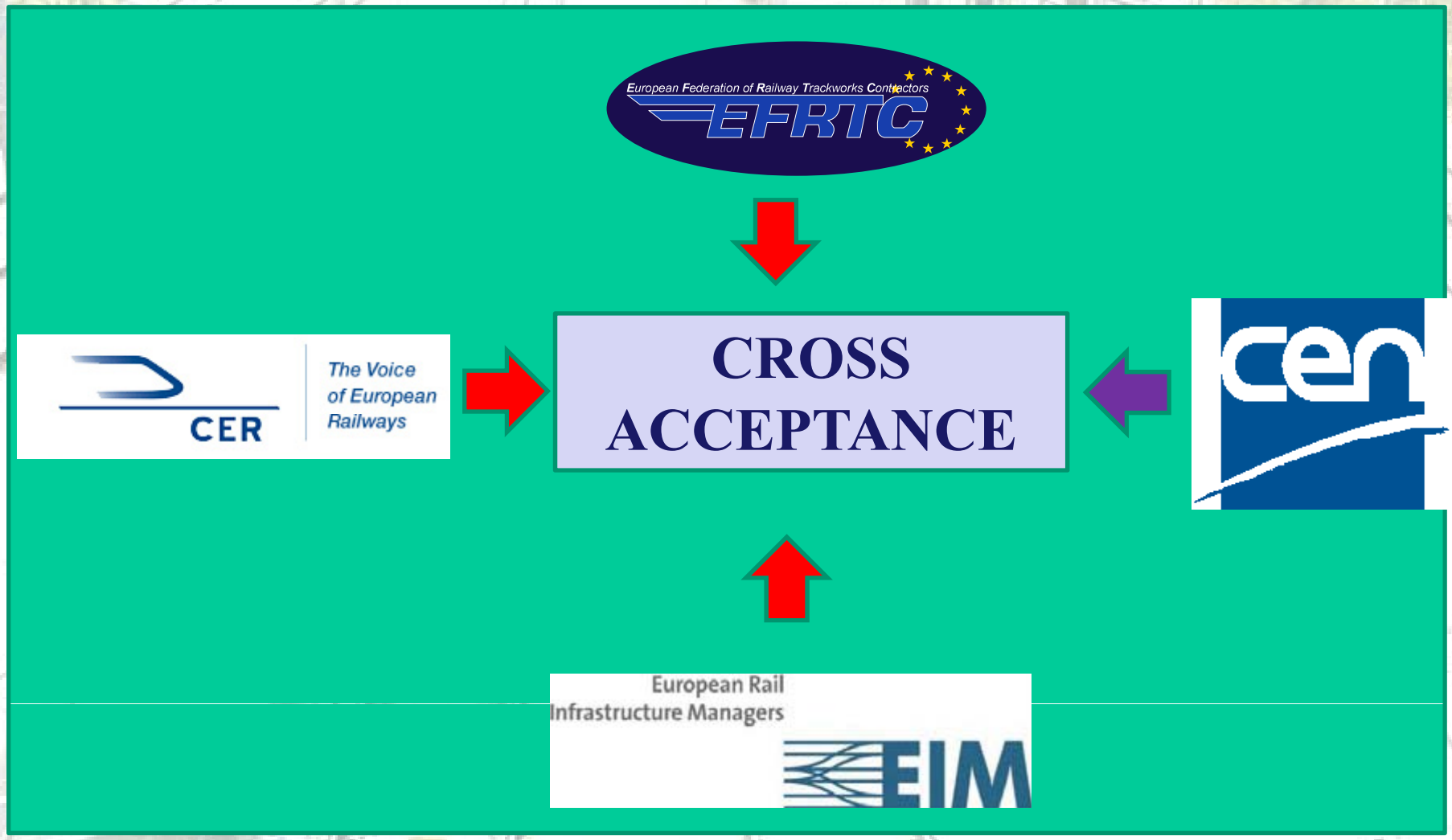
CEN/TC 256/SC 1
Railway applications / Track

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