



making the best together

Marine & Yachting
Oil & Gas
Power Generation
Infrastructure & Real Estate
Public Administration

Welfare
Food and Catering
Transport, Ports and Logistics
Manufacturing
Other Sectors

Railway





courtesy Palotta Lorenzo

the market

Acting as international Ship Classification and Industrial Certification Body since 1861, RINA provides professional services dedicated to:

- railway and infrastructure managers
- rolling stock and equipment suppliers
- maintenance entities.

In the Railway and Mass Transit field, RINA relies on the competencies of experts for the main transport network subsystems and components (Rolling Stock and Vehicles, Signalling and Traffic Control, Telecommunications, Power Supply, Infrastructure) as well as for issues related to Operations, Safety and Maintenance.

T e c h n i c a l s e r v i c e s

RINA can deliver various types of certificates and assessments, attesting compliance with the requirements laid down in the relevant regulations and contractual documents. For these purposes, **RINA** has a network of qualified laboratories through which tests on the different subsystems can be carried out.

■ EC Verification as Notified Body

EC Verification assessments consisting of Type Examination, Production Quality Management System and Full Quality Management System related to the relevant TSIs (Technical Specifications for Interoperability) requirements, following the provisions laid down in the Directive 2008/57/EC (interoperability of the high-speed and conventional rail systems within the European Community).

■ Functional and safety assessments as Independent Safety Assessor

Assessments consisting of Project Examination, Laboratory and Field Tests according to national and international regulations.

■ Test

Control-command and Signalling

- ETCS constituent (Eurobalise, Encoders, etc.)
- Eurobalise programming and diagnostic tools
- On board ETCS and Signalling equipment
- GSM - R networks and mobile terminals

Rolling Stock

Static and on track tests (dynamic behaviour, braking performances, harmonics).

■ Inspection

Technical and expediting support during construction of transportation systems, vehicles and railway equipment.

■ Technical Workshop

ERMTS specification, safety architectures, V&V processes and CENELEC Norms EN50126/EN50128/EN50129, assessment and functional tests procedures.

Railway

Technical services

Accreditations

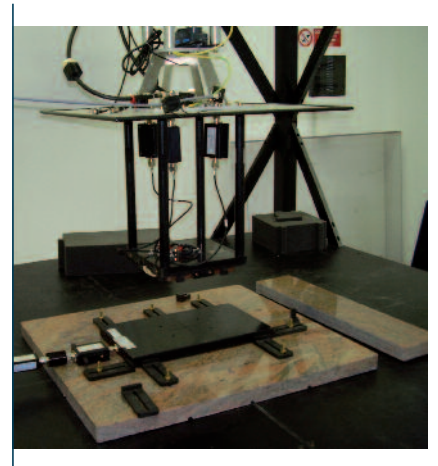
According to decree 191/2010 implementing Directive 2008/57/EC, **RINA** is accredited by the Italian Ministry of Infrastructures and Transport as a Notified Body to assess the conformity or suitability for use of the interoperability constituents both in the high-speed rail sector and in the conventional rail sector, as well as to carry out the EC verification procedure for all the subsystems:

- Infrastructure
- Energy
- Control-command and signalling
- Operation
- Rolling stock
- Maintenance
- Telematic applications for passenger and freight services.

RINA is accredited by the Italian NSA (National Safety Authority) as an Independent Safety Assessor.

RINA is accredited by the accreditation body ACCREDIA for type A inspections on railway subsystems and their constituents according to UNI CEI EN 17020:2005.

RINA is accredited by the accreditation body ACCREDIA for certification of products according to UNI CEI EN 45011:1999.





Infrastructure Managers,
Railway Undertakings
and Institutions

Manufacturers

Main References

ATAC	LTF (Lyon – Turin Ferroviare)
BBT (Brenner Basistunnel)	NIF (Nemzeti Infrastruktúra Fejleszt)
ERA (European Railway Agency)	NTV
Ferrovie Adriatico Sangritana	RFI (Rete Ferroviaria Italiana)
Ferrovie Circumvesuviana	SITFA
Ferrovie Nord Milano	SNCF
GTT	Trenitalia
Le Nord	

ROLLING STOCK	SIGNALLING & TLC	POWER SUPPLY & INFRASTRUCTURE
Alstom	Alstom	BBRail
AnsaldoBreda	Ansaldo STS	GMC
Bombardier	Beijing Hollysys	Isoelectric
CAF	Bombardier	Lucchini
Corifer	Center Systems	Sirti
Durmazlar	GETS	Wegh Group
Faiveley	MerMec	Vossloh
Isoclina	NEC	
Lucchini	Selex	
MerMec	Sigma	
Plasser	Zhuzhou CSR Times Electric	
Siemens		
Stadler		

The **RINA Group** is an **international** company that supports firms and the community to guide them towards greater competitiveness and effective risk management through the conception, creation, management and assessment of projects. The Group has developed the best **competencies** and combined them with its own values of **integrity** and responsibility, gained in over 150 years of **experience**, into a way of working that meets the highest expectations in the **market**. To guarantee the most advanced level of technical competency and speed of intervention, the RINA Group operates through a network of companies dedicated to different sectors including **Environment and Quality, Energy, Shipping, Ethics and Safety, Food Production and Healthcare, Infrastructures and Constructions, Logistics and Transport**.

With a turnover of around 300 million Euros, over 2,100 employees, and 130 offices in 42 countries worldwide, RINA meets the needs of its clients and is recognized as an **authoritative** player in key international organizations and an important contributor to the development of new legislative standards.

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