

## DEVELOPMENT OF THE TECHNICAL SPECIFICATION AND VERIFICATION OF MANUFACTURING DOCUMENTATION FOR THE SUPPLY OF STADLER FLIRT WHEELS

Offers deadline: 05.05.2026 at 16.00

### ENGINEERING SERVICE DESCRIPTION

#### 1. Purpose of the Service

The purpose of this engineering service is to support the procurement and supply process of railway wheels by:

Developing a comprehensive Technical Specification for railway wheels (Ø870 mm) intended for use on Stadler FLIRT DMU/EMU rolling stock operating on 1520/24 mm gauge infrastructure in Estonia and Latvia, and performing verification and compliance assessment of manufacturers' and suppliers' documentation against the developed Technical Specification.

#### 2. Scope of Services

##### 2.1 Development of Technical Specification

- The service provider shall develop a structured Technical Specification defining requirements for the supply of railway wheels, including but not limited to:
- Applicable regulatory and normative framework
- Compatibility requirements with 1520/24 mm gauge infrastructure and rolling stock
- Requirements for:
- Manufacturers and suppliers
- Design and operational documentation
- Wheel design, materials, and geometry
- Manufacturing and heat treatment processes
- Testing (laboratory and non-destructive)
- Quality assurance and traceability
- Marking and identification
- Acceptance procedures (first batch and serial production)
- Service life and rejection criteria
- Delivery, packaging, transportation, and storage
- Warranty obligations
- Change management procedures

The specification shall be based on:

- Applicable international and national standards
- Client-provided reference documentation (e.g., drawings)
- Operational requirements of the rolling stock

## 2.2 Verification of Manufacturing Documentation

The service provider shall perform an engineering assessment of documentation submitted by wheel manufacturers and/or suppliers to confirm compliance with the Technical Specification.

This includes:

Review of:

- Design documentation
- Material certificates
- Manufacturing and process documentation
- Heat treatment records
- Test reports
- Quality assurance documentation

Verification that:

- Specified limit parameters are not exceeded
- Minimum required performance and safety criteria are met
- Documentation completeness and consistency are ensured

## 3. Qualification requirements

Experience in rolling stock interoperability related expert services, with a focus on the rolling stock wheels and wheel-rail interface, relevant standards and EU legislation.

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