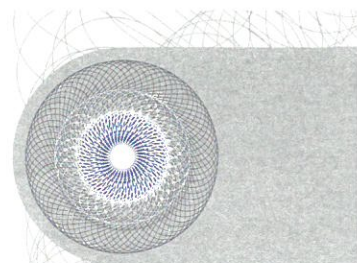




VÝZKUMNÝ
ÚSTAV
ŽELEZNIČNÍ, a. s.



EC CERTIFICATE

Type Examination Certificate

Certificate Number: **1714 / 1 / CB / 2019 / RST / EN / 3228**

In accordance with Directive 2008/57/EC of 17 June 2008
(as amended).

Object of Assessment: Interoperability Constituent 'Constituent Boarding aids: movable steps and bridging plates' of the 'Rolling Stock' subsystem
Můstek výsuvný / Gap filler

Applicant: Pars Komponenty s.r.o.
seated at Malá strana 451, Butovice, 742 13 Studénka, Czech Republic

Manufacturer: Pars Komponenty s.r.o.

Manufacturing Location: Malá strana 451, Butovice, 742 13 Studénka, Czech Republic

Assessment Requirements: **TSI PRM:** Commission Regulation (EU) No 1300/2014

Exemptions from Assessment: None

Module applied: Module CB according to Commission Decision 2010/713/EU

Assessment Result: The requirements fulfilled

Restrictions and Conditions: Without restrictions

Annex of EC Certificate: 1714 / 1 / CB / 2019 / RST / EN / 3228-P issued 03.05.2019

Assesment Report: ZZA19015RST-0 issued 03.05.2019

Validity: 02.05.2024

This certificate is valid for the object of assessment as mentioned above and as long as the Object of Assessment and the relevant technical documentation are not modified.



Date of Issue:
03.05.2019

Signature:

Name: Ing. Ondřej Fanta, Ph.D. Title: Technical Director

On behalf of Výzkumný Ústav Železniční, a.s.
seated at Praha 4, Braník, Novodvorská 1698, PSČ 142 01,
Czech Republic

EC-Identification No. of Notified Body: 1714

Object of Assessment:

Interoperability 'Constituent Boarding aids: movable steps and bridging plates' of the 'Rolling Stock' subsystem

Můstek výsuvný / Gap filler**Restrictions and Conditions:**

Without restrictions

Manufacturer:

Pars Komponenty s.r.o.

Manufacturing Location:

Malá strana 451, Butovice, 742 13 Studénka, Czech Republic

Assessment Requirements:**TSI PRM:** Commission Regulation (EU) No 1300/2014**Exemptions from Assessment:**

None

Overview of main characteristics:

The retractable step is designed to bridge the gap between the car and the platform when entering / leaving people. It is located under the car's floor in the entrance area. It extends before the door is opened so as to bridge any gap between the car and the platform.

Geometrical parameters:

Width 1300 mm
The pull-out size max. 300 mm

Footboard Installation dimensions:

height 70 mm (without the sealing collar)
The gap height min. 65 mm
Width 1300 mm (without the sealing collar)
Depth 1100 mm (without output cable)

Weight:

61 kg - with 1300 mm tread width and 300 mm pull-out

Maximum tread load:

300 kg at maximum pull-out and at any point

Opening time:

adjustable 3-5 s

Energy Management:

24 V DC +-30%
Maximum current draw 25 A
Operating current consumption 8 A

Control:

Superior door system

Lifetimes:

30 yearst / 1 000 000 cycles

Safety features:

Contact tape in the front tread profile
Motor overload sensing
Mechanical sensor of dangerous platform height
Foot pressure sensor

Climatic conditions (ČSN EN 50 125 – 1):

Altitude max. 1400 m asl. (A1)
Ambient temperature -25 to +40° C (T1)
Maximum temperature at 70° C
Relative humidity max. max. 90% at 20° C.**Scope of assessment:**

Point 5.3.2.8 Boarding aids: movable steps and bridging plates.

List of applicable technical regulations, documents and standards:

Applicable Directives and TSI:

| Designation | Title | Date of issue |
|------------------------------------|--|---------------|
| Commission Regulation 1300/2014 | on the technical specifications for interoperability relating to accessibility of the Union's rail system for persons with disabilities and persons with reduced mobility | 18.11.2014 |
| Commission Decision 2010/713/EU | on modules for the procedures for assessment of conformity, suitability for use and EC verification to be used in the technical specifications for interoperability adopted under Directive 2008/57/EC of the European Parliament and of the Council | 09.11.2010 |

Mandatory standards or other documents mentioned in TSI:

| Designation | Title | Date of issue |
|--------------|---|---------------|
| ČSN EN 14752 | Railway applications - Body side entrance systems for rolling stock | 02/2016 |

Recommended standards or other documents unmentioned in TSI:

None.

Details of associated Interoperability Constituents:

Not relevant.

List of approved documents:

| Ord. no. | Number of the document (coding) number of pages, company name ¹ | Title | Date of issue | Date of last revision | Note: e.g.: drawing, protocol, calculation, etc. authorization, etc. |
|-----------|--|---|---------------|-----------------------|---|
| 1. | Descriptions | | | | |
| [1.1] | 1.0282.44.03.0 | Grapfiller (bridging plate) Elektrický výsuvný stupínek pro jedno a dvoukřídlé dveřní vstupy – pro vlaky | - | - | Technical description |
| 2. | Drawings | | | | |
| [2.1] | 1.0282.44.03.0 | GAP Filler SLO | 01.01.2019 | - | Drawing |
| [2.2] | 1.0282.44.61.0 | Moving part of SLO | 01.01.2019 | - | Drawing |
| [2.3] | 1.0276.02.971 | Electrical scheme mechanism | 04.03.2019 | - | Electric scheme |
| [2.4] | 1.0276.44.03.0 | GAP FILLER KM | 01.01.2019 | - | Drawing |
| 3. | Calculations | | | | |
| [3.1] | - | - | - | - | - |
| 4. | Interoperability constituent | | | | |
| [4.1] | - | - | - | - | - |
| 5. | Instructions for operation and maintenance | | | | |
| [5.1] | TD-00478-01 | Operating documentation (User manual, movable steps and bridging plates) | 03.01.2019 | - | User manual |

¹ If not stated otherwise, issuer of the document is Pars Komponenty s.r.o.

| Ord. no. | Number of the document (coding) number of pages, company name ¹ | Title | Date of issue | Date of last revision | Note: e.g.: drawing, protocol, calculation, etc. authorization, etc. |
|-----------|--|--|---------------|-----------------------|--|
| [5.2] | TD-00478-03 | Operating documentation (Installation and maintenance instructions, movable steps and bridging plates) | 03.01.2019 | - | User manual |
| 6. | Reports | | | | |
| [6.1] | - | - | - | - | - |
| 7. | Protocols and test reports | | | | |
| [7.1] | 1942000-69-2019 Vojenský technický ústav, s.p. | Test report (Force Measurement) | 03.05.2019 | - | Test report |
| 8. | Declarations of conformity | | | | |
| [8.1] | - | - | - | - | - |
| 9. | Other documents | | | | |
| [9.1] | - | - | - | - | - |

Relevant issued certificates:

Not relevant.

The data detailing servicing, routine maintenance and adjustment:

Chapter 5 in the List of approved documentation.

Other certificates about conformity:

Applicant didn't mention any information about assessment according to the other EU Directives.

* * *

Date of Issue:
03.05.2019

Signature:



Name: Ing. Ondřej Fanta, Ph.D. Title: Technical Director

On behalf of Výzkumný Ústav Železniční, a.s.
seated at Praha 4, Braník, Novodvorská 1698, PSČ 142 01, Czech Republic

EC-Identification No. of Notified Body: 1714