



Výzkumný
Ústav
Železniční, a.s.

CERTIFICATE

EC Type Examination Certificate

Certificate Number: 1714 / 1 / CB / 16 / RST / EN / 2027

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

Interoperability Constituent Universal toilet of Subsystem Rolling Stock

Universal toilet module – TRC - 2

of Applicant:

TRATEC-CS s.r.o.

at Brtnická 57, Velký Šenov – Malý Šenov 407 78

has been assessed by Notified Body:

Výzkumný Ústav Železniční, a.s.

at Praha 4, Braník, Novodvorská 1698, PSČ 142 01, Czech Republic

in respect of compliance with the applicable requirements of the above mentioned Directive and Decisions/Regulations as listed in the attached annex.

The Interoperability Constituent was shown to comply, subject to any restrictions and conditions listed on the attached annex, which forms part of this certificate.

This Type Examination has been performed by application of Module CB:

▪ of the Commission Regulation (EU) No 1300/2014 (TSI PRM),
adopted pursuant to the Directive.

This certificate is valid for the Interoperability Constituent mentioned above, the design, ratings and operational parameters of which are described in the annex of this certificate.

This certificate replaces certificate number 1714 / 1 / CB / 16 / RST / EN / 2027 issued 28.04.2016

Place and Date of Issue:

Praha, 25.11.2016

Valid until:

unlimited

**Identification Number
of Notified Body:**

1714

Signature:

On behalf of Notified Body

Name:

Ing. Antonín Blažek, Ph.D.

Title:

Director General

Výzkumný Ústav Železniční, a.s.



Interoperability Constituent Universal toilet of Subsystem Rolling Stock

Universal toilet module – TRC - 2

of Applicant:

TRATEC-CS s.r.o.

at Brtnická 57, Velký Šenov – Malý Šenov 407 78

Technical file:

Not issued.

Overview of main characteristics:

Universal toilet module for rolling stock with vacuum WC system.

Scope of assessment:

According to point. 5.3.2.2 and 5.3.2.4 TSI PRM no. 1300/2014.

List of applicable technical regulations, documents and standards:

Applicable Directives and TSI:

Designation	Title	Date of issue
Commission Regulation (EU) No 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
Directive 2008/57/EC of the European Parliament and of Council, Amended by Commission Directive: 2009/131/EC 2011/18/EU 2013/9/EU 2014/38/EU 2014/106/EU	on the interoperability of the rail system within the Community	17.06.2008 16.10.2009 01.03.2011 11.03.2013 10.03.2014 05.12.2014

Mandatory standards or other documents mentioned in TSI:

Designation	Title	Date of issue
ČSN ISO 3864-1:2012	Graphical symbols - Safety colours and safety signs - Part 1: Design principles for safety signs and safety markings	12/2012
ČSN ISO 3864-4:2012	Graphical symbols - Safety colours and safety signs - Part 4: Colorimetric and photometric properties of safety sign materials	12/2012
ČSN P CEN/TS 16635	Railway applications - Design for PRM use - Equipment and components onboard rolling stock - Toilets	01.07.2015

Recommended standards or other documents unmentioned in TSI:

None.

Restrictions:

Without limits.

Details of associated Interoperability Constituents:

Not concerned.

List of approved documents:

No.	Number (identification) of the document Issuer ¹	Title	Date of issue	Date of last revision	Note: e.g.: Drawing, protocol, calculation etc.
1.	Descriptions				
[1.1]	<i>unknown</i>	Technical specifications: Universal toilet TRC - 2	21.04.2015	-	description
[1.2]	<i>unknown</i>	Technical specifications: Baby change table TRC - 3	04.07.2014	-	description
[1.3]	OPT-CD1	Optical contrast (Visualization of the interior no. 1 and no. 2)	<i>unknown</i>	-	description
[1.4]	OPT-ST1	Optical contrast (Visualization of the interior)	<i>unknown</i>	-	description
2.	Drawings				
[2.1]	05_UWC-TSI-001	Layout	21.04.2015	-	drawing
[2.2]	06_UWC-TSI-002	Availability – Area in front of toilet	21.04.2015	-	drawing
[2.3]	07_UWC-TSI-003	Availability – Controls sink	21.04.2015	-	drawing
[2.4]	08_UWC-TSI-004	Availability - Button to flush the toilet	21.04.2015	-	drawing
[2.5]	09_UWC-TSI-005	Availability - Toilet paper	21.04.2015	-	drawing
[2.6]	10_UWC-TSI-006	Availability - SOS button 1	21.04.2015	-	drawing
[2.7]	11_UWC-TSI-007	Availability - button control doors and door locks	21.04.2015	-	drawing
[2.8]	12_UWC-TSI-008	Availability - SOS button 1	21.04.2015	-	drawing
[2.9]	13_UWC-TSI-009	Room for maneuver	21.04.2015	-	drawing
[2.10]	ZPPD-TSI-001	Baby change table	19.11.2014	-	drawing
[2.11]	ZPPD-TSI-002	<i>unknown</i>	19.11.2014	-	drawing
[2.12]	01_UWC4-TSI-001	Basic dimensions	25.10.2016	-	drawing
[2.13]	02_UWC4-FLIRT-TSI-002	Room for maneuver	25.10.2016	-	drawing
3.	Calculations				
[3.1]	<i>unknown</i>	Contrast optical elements sanitary module universal toilets TRC - 2	27.04.2015	-	calculation
[3.2]	<i>unknown</i>	Calculation of the operating forces: Baby change table	11.12.2014	-	calculation
4.	Interoperability constituent				
[4.1]	-	-	-	-	-
[4.2]	-	-	-	-	-

¹ If not stated otherwise, issuer of the document is TRATEC-CS s.r.o.

No.	Number (identification) of the document Issuer ¹	Title	Date of issue	Date of last revision	Note: e.g.: Drawing, protocol, calculation etc.
5.	Instructions for operation and maintenance				
[5.1]	-	-	-	-	-
6.	Reports				
[6.1]	-	-	-	-	-
[6.2]	-	-	-	-	-
7.	Protocols and test reports				
[7.1]	WC-16111501	Magnitude of the force required to open the door toilet cells	15.11.2016	-	protocol
8.	Declarations of conformity				
[8.1]	5AO0293e EAO AG	EC Declaration of Conformity (Volume Control Box for MTSM56 – 3 tones Series 56)	20.04.2016	-	certificate
[8.2]	5AO0304e EAO AG	EC Declaration of Conformity (Push Button and Indicators Series 56)	20.04.2016	-	EC declaration
[8.3]	5AO0308e EAO AG	EC Declaration of Conformity (Switches, Indicators and Multi Tone Sound Module with or without external suppression)	20.04.2016	-	EC declaration
[8.4]	FQA4001114 LRQA	Certificate (Desing and Development and Manufacturing for the scopes of certification: 10 Passenger information system, 20 Single railway components)	26.10.2015	-	certificate
[8.5]	700809003/2 DEKRA	Certificate (International Railway Industry Standard, Revision 02)	24.07.2015	-	certificate
[8.6]	0893/1B/14/INS/DE EN/2627 EBC	EC-Certificate (Pushbuttons of the type Combikey CK 7x and Presskey PK2x and PK5x)	17.10.2014	-	certificate
[8.7]	0893/1B/14/RST/DE EN/2627 EBC	EC-Certificate (Pushbuttons of the type Combikey CK 7x and Presskey PK2x and PK5x)	17.10.2014	-	certificate
9.	Other documents				
[9.1]	unknown EAO	General_technical_data Series 56	-	-	technical information
[9.2]	unknown MAFELEC	M-DOOR	-	-	technical information
[9.3]	unknown MAFELEC	Gamme M-Door	-	-	technical information

Relevant issued certificates:

Not concerned.

The data detailing servicing, routine maintenance and adjustment:

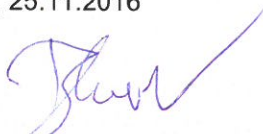
Not concerned.

Other certificates about conformity:

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

Place and Date of Issue: Praha, 25.11.2016

Signature:



On behalf of the Notified Body

The Essential Requirements have been assessed as being met through compliance with the technical requirements of the relevant TSI only.