

CERTIFICATE

Welding of railway vehicles and
components according to EN 15085-2:2020

TÜVRh/15085/CL1/667/20/1A2

TÜV Rheinland Industrie Service GmbH hereby certifies that the welding company

ASTRA RAIL INDUSTRIES S.A.
a GREENBRIER Europe Company
1 Decembrie 1918, no. 146
235200 Caracal
Romania

fulfills the requirements
for the scope according to

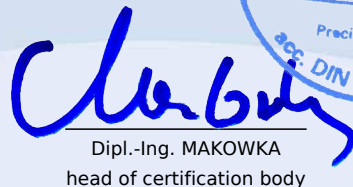
EN 15085-2:2020 classification level CL1
in the type of activity P, M

in the range indicated in the annex.

validity: 2024-02-23 until 2026-04-02

Cologne, 2024-02-23
Place and date of issue

Lead auditor: MIHAI-VLADIMIR


Dipl.-Ing. MAKOWKA
head of certification body



TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, 51105 Köln, Germany

Scope of the certificate

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Scope:

Welding process according to EN ISO 4063	Material group according to CEN ISO/TR 15608	Dimensions	Remarks
111	1.2 1.2/5	t = 3 - 16 mm t = 11 - 44 mm D ≥ 16 mm	BW, manually BW, manually
121	1.2	t ≥ 3 mm	FW, fully mechanized
135	1.2 1.2 1.2/5 1.2/X120Mn12 2.2, 8 3.1/1.2	t = 2 - 50 mm D ≥ 17 mm t = 3 - 50 mm D ≥ 100 mm t = 10 - 44 mm D ≥ 16 mm t = 3 - 32 mm t = 3 - 16 mm t = 3 - 30 mm	BW/FW, partly mechanized BW/FW, robotic BW, partly mechanized FW BW/FW, partly mechanized BW/FW, partly mechanized
136	1.2	t = 12 - 48 mm	BW, partly mechanized
138	1.2 3.2	t = 6 - 24 mm t = 3 - 34 mm	BW, partly mechanized BW/FW, partly mechanized
141	1.2 1.2	t = 3 - 20 mm t = 3 - 24 mm	FW, manually BW, manually

Area of Application:

- New build, conversion and repair of rail vehicles and their components:
 - bogies, underframes, vehicle bodies
 - pressure gas tanks, tanks of rail vehicles

Responsible welding coordinator(s):

Andrei Homescu, Level A (IWE)

born: 1973-03-30

1st deputy(ies) of the responsible welding coordinator(s):

Emil Rece, Level A (IWE)

born: 1975-02-16

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Others deputies: Mihaita-Myrell Calinescu , Level C (IWS) born: 1975-06-04
Marin Petrache, Level C (IWS) born: 1986-06-02
Gabriel Marcu, Level C (IWS) born: 1978-11-01

Remarks: Independent execution, evaluation and acceptance of welder/operator qualification performed by following welding coordinator: Andrei Homescu, Emil Rece

Register no.: TÜVRh/15085/CL1/667/20/1A2

General provisions:

The General Terms and Conditions of the TÜV Rheinland Industrie Service GmbH apply in the currently valid version.

TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, 51105 Köln, Germany