# CERTIFICATE

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

This is to certify that **AQ Electric AD**

**Rajko Daskalov 68**

**2400 Radomir**
**BULGARIA**

is qualified to perform welding work within the range of certification of:

**Certification level CL1 according to EN 15085-2**

**Field of application:** • New manufacture of parts for railway vehicles and components with CL1, without design. Load frames for equipment parts (transformers).

### Range of certification

| Welding process according to DIN EN ISO 4063 | Material group according to CEN ISO/TR 15608 | Dimensions | Comments |
|---|---|---|---|
| 131 | 1<br>1<br>8/1.1 | t = 1 - 2 mm<br>t = 1 - 3 mm<br>t = 3 - 12 mm | BW (on Zink surface)<br>FW (on Zink surface)<br>FW |
| 135 | 1.1<br>8<br>1.2, 8<br>1.2 | t = 0.7 - 24 mm<br>t = 1 - 12 mm<br>t = 3 - 12 mm<br>t = 3 - 16 mm | BW, FW<br>BW<br>FW<br>BW |

(continuation: see reverse)

**Responsible welding coordinator:** Dipl.-Ing. Ivan Yordanov Mariyanov (IWE)
born: 04.10.1975

**Deputy with equal rights:** Dipl.-Ing. Aneta Welinowa-Metodiewa (IWE)
born: 16.08.1979

**Deputy:** -

**Comments:** see reverse

**Certificate no.:** TÜVNORD/15085/CL1/106/2A1/09

**File reference:** 8114078474 TN2430

**Valid:** from 16.12.2015 to 16.12.2018

**Issued on:** 11.01.2017

**Auditor:** REMISOVA
General regulations (see reverse)

TÜV NORD Systems

Hoffmann
head of certification body

DAkkS
Deutsche
Akkreditierungsstelle
D-ZE-11074-03-00

Certificate no.: TÜVNORD/15085/CL1/106/2A1/09

## Continuation of range of certification

| Welding process according to DIN EN ISO 4063 | Material group according to CEN ISO/TR 15608 | Dimensions | Comments |
|---|---|---|---|
| 141 | 22.3 | t = 0.5 - 6 mm | FW, BW |
| | 8.1 | t = 0.7 - 18 mm | FW |
| | 8.1 | t = 1.4 - 3 mm | BW |
| | 23.1 | t = 1.5 - 6 mm | BW, FW |
| | 1 | t = 2 - 6 mm | FW |
| | 22/23 | t = 3 - 10 mm | FW, BW |
| | 1.2 | t = 3 - 12 mm | FW |
| 21 | 1.1, 8 | t = 0.3 - 2 mm | TECNA TE 90 |
| | 8.1 | t = 1 mm | TECNA 7913 |
| | 1.1 | t = 1 - 2 mm | TECNA TYP 4625N |
| | 22.3 | t = 2 - 3 mm | SVGP 658 SNP + EK 61/M 109.401 |
| 23 | 8 | t <= 2 mm | M5 SVGP 658 SNP + EK 61/M 109.401 |
| | 8 | t <= 2 mm | M6 SVGP 658 SNP + EK 61/M 109.401 |
| | 8 | t <= 3 mm | M10 SVGP 658 SNP + EK 61/M 109.401 |
| 784 | 8.1 | | M4 x 16 mm, M6 x 10 mm, stud, SOYER Stud Welder BMS-8N |
| 786 | 1, 8.1 | t <= 2 mm | LBS + PKM - 1B |

## Comments:

TÜV NORD Systems Hoffmann