

# CERTIFICATE

**TÜV NORD Bulgaria EOOD**

certifies that the company



**"AQ Electric" AD**

**68 Rayko Daskalov str., 2400 Radomir, Bulgaria**

has been verified and recognized  
as welding workshop based on the requirements of the standard

**БДС EN ISO 3834-2:2006**

Comprehensive quality requirements

**Certificate-no.: 20OSP/WM/0039/20**

The range of validity and details of the inspection can be seen  
on the back page and in our report:


**Report-no.: 20OSP/R/0039/20**

The company is using a quality assurance system,  
technical equipment, qualified personnel and procedures for joining processes.

This certificate is valid until:

**13 April 2023**

Plovdiv, 21.04.2020

  
Prof. Dr.- Ing. Teofil Jamboliev  
Body for Certification of Products  
of TÜV NORD Bulgaria EOOD  
Registration No.: 20OSP



## Scope of the welding activities

Only valid in relation and as an attachment to the certificate БДC EN ISO 3834 Part 2

Manufacturer: "AQ Electric" AD  
 Manuf. site: 68 Rayko Daskalov str., 2400 Radomir, Bulgaria  
 Cert.-no.: 20OSP/WM/0039/20  
 Date of issue: 21.04.2020

### 1. Product(s) of the manufacturer

Welding of railway vehicles and components, certification level CL1 acc. EN 15085-2.  
 Other applications depending on possibly further required certifications!

### 2. Product standards and other standards (see БДC EN ISO 3834-5:2015)

DIN EN 15085

БДC EN ISO 5817: 2014; БДC EN ISO 10042: 2018

БДC EN ISO 9606 – 1: 2018; БДC EN ISO 9606 – 2: 2006

БДC EN ISO 14732: 2013

БДC EN ISO 15614 – 1: 2017; БДC EN ISO 15614 – 2: 2006; БДC EN ISO 15613: 2006;

БДC EN ISO 14555: 2017

### 3. Material group(s) (acc. to CEN ISO/TR 15608)

1.1, 1.2  $R_{eH} \leq 355 \text{ N/mm}^2$ ; 8.1; 22.3; 23.1

### 4. Welding processes and related material groups

Welding processes (acc. to ISO 4063:2011) with level of mechanization	Material groups (acc. to CEN ISO/TR 15608:2017)
21 Resistance spot welding, fully-mechanized	1.1 $R_{eH} \leq 235 \text{ N/mm}^2$ , 8.1, 22.3
23 Projection welding, fully-mechanized	8.1
131 MIG Metal inert gas welding, partly-mechanized	1.1 $R_{eH} \leq 235 \text{ N/mm}^2$ , 8.1
135 MAG Metal active gas welding, partly-mechanized	1.1, 1.2 $R_{eH} \leq 355 \text{ N/mm}^2$ , 8.1
141 TIG Tungsten inert gas welding, manual	1.1, 1.2 $R_{eH} \leq 355 \text{ N/mm}^2$ , 8.1, 22.3, 23.1
783 Drawn arc stud welding with ceramic ferrule or shielding gas, manual	1.1 $R_{eH} \leq 235 \text{ N/mm}^2$
784 Short-cycle drawn arc stud welding, manual	8.1
786 Capacitor discharged stud welding with tip ignition arc stud welding, manual	1.1 $R_{eH} \leq 235 \text{ N/mm}^2$ , 8.1

### 5. Responsible welding coordinators

Name	Qualification	Scope of competence and level*
MARIYANOV, Ivan	IWE	Welding coordinator, C
WELINOWA – METODIEWA, Aneta	IWE	Deputy welding coordinator, C
LYUBCHOV, Lyubomir	IWS	Deputy welding coordinator, B
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\* The level of knowledge complies with ISO 14731 B, S or C