

CERTIFICATE

TÜV NORD Systems GmbH & Co. KG

certifies that the company

**Ludwig Freytag GmbH & Co.
Kommanditgesellschaft
Ammerländer Heerstraße 368
26129 Oldenburg / Germany**

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

DIN EN ISO 3834-2

Comprehensive quality requirements

Certificate-No.: 07/204/1280/HS/1001/20r

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

No.: 8118197994

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

This certificate is valid until

July 2023



Hamburg, 2020-08-04

Dipl.-Ing. Kaschner

To verify the validity of the digital signature of the TÜV NORD Systems
employee, the installation of the TÜV NORD GROUP root certificate is
required: <https://www.tuev-nord.de/en/customer-login/digital-signature/>

Certification body
of TÜV NORD Systems GmbH & Co. KG
Accredited Body

Scope of the welding activities

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

Manufacturer: Ludwig Freytag GmbH & Co. Kommanditgesellschaft
 Manufact. sites Ammerländer Heerstraße 368, 26129 Oldenburg / Germany
 Cert.-no.: 07/204/1280/HS/1001/20r
 Date of issue: 2020-08-04

1 Product(s) of the manufacturer

In the following depending on possibly further required certifications:
 Plants and pipings

2 Product standards and other standards (see DIN EN ISO 3834-5)

AD 2000 HP0 / HP100R, DIN EN 13445, DIN EN 13480, DVGW- u. AGFW-Rules
 DIN EN ISO 9606-1, DIN EN ISO 14732
 DIN EN ISO 5817
 DIN EN ISO 15614-1

3 Material groups (acc. to CEN ISO/TR 15608)

1, 2, 3.1 $R_{eH} \leq 460$ MPa, 5.1/1.2, 8.1, 8.2, 10.1, 11.1 $R_{eH} \leq 415$ MPa, 43

4 Welding processes and related material groups

Welding processes (acc. to ISO 4063) with grade of mechanization	Material groups (acc. to CEN ISO/TR 15608)
135 MAG Metal active gas welding, partly-mechanized	1 $R_{eH} \leq 460$ MPa
136 MAG Metal active gas welding, partly-mechanized	1, 2.1, 2.2 $R_{eH} \leq 550$ MPa
136 MAG Metal active gas welding, fully mechanized	1, 2, 3.1 $R_{eH} \leq 460$ MPa
138 MAG Metal active gas welding, partly-mechanized	1, 2.1 $R_{eH} \leq 415$ MPa
138 MAG Metal active gas welding, fully mechanized	1, 2, 3.1 $R_{eH} \leq 460$ MPa
111 E Manual metall-arc welding	1, 2, 3.1 $R_{eH} \leq 460$ MPa, 5.1/1.2
141 TIG Tungsten inert gas welding, manual	1, 2, 3.1 $R_{eH} \leq 460$ MPa, 8.1, 8.2, 10.1, 11.1 $R_{eH} \leq 415$ MPa, 43
141 TIG Tungsten inert gas welding, fully mechanized	8.1
121 SAW Submerged arc welding, fully mechanized	1, 2, 3.1 $R_{eH} \leq 460$ MPa
114 Self-shielded tubular cored arc welding „Innershield”, partly-mechanized	1 $R_{eH} \leq 430$ MPa
311 G Oxyacetylene welding, manual	1.1, 1.2 $R_{eH} \leq 360$ MPa

5 Responsible welding coordinators

Name	Qualification	Scope of competence and level *
Knieling, Benjamin	IWE	Responsible welding coordinator C
Janikowski, Mariusz	IWE	Deputy welding coordinator C

* The level of knowledge complies with ISO 14731 B, S or C