

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00002T3** Revision No:

This is to certify:

That

## ILA-Langner GmbH & Co. KG

Zum Rommelsberg 9 35713 Eschenburg-Eibelshausen, Germany

is an approved manufacturer of

**Pressed Parts** 

in accordance with

DNV rules for classification – Ships DNV class programme – DNV-CP-0350 Pressed parts and seamless gas cylinders

and the following particulars:

Application area Pressed parts (dished ends and manhole cover)

Steel type Carbon and carbon-manganese,

See page 2

Manufacturing method Cold forming Max. thickness 8 mm

Heat treatment condition See page 2

Additional approval conditions See page 2

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at Hamburg on 2023-09-11

for DNV

This Certificate is valid until 2026-09-30.

DNV local unit: Essen

Approval Engineer: Stefan Röhr

Thorsten Lohmann
Head of Section

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Job Id: **263.11-010775-2** Certificate No: **AMMM00002T3** 

Revision No:

### Particulars of the approval

#### Pressed parts (dished ends and manhole cover)

Steel type	Manufacturing method 1)	Max. thickness [mm]	Heat treatment condition <sup>2)</sup>
C and C-Mn	CF	8	AF

## Remarks:

1) CF: Cold forming

2) AF: As formed (see special conditions)

#### Additional approval conditions

Acc. to DNV-RU-Ship Pt.2 Ch.2 Sec.3 [5] for cold-formed dished ends made of steel grades with nominal yield strengths not exceeding 275 MPa, heat treatment is not required if all of the following conditions are fulfilled:

- the temperature of the charging media is -10°C or above,
- the design temperature TD ≤ 120°C and the nominal wall thickness t ≤ 8 mm

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