



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM000029J**  
Revision No:  
**2**

This is to certify:

That

**Mannesmann Line Pipe GmbH**  
**In der Steinwiese 31**  
**57074 Siegen,**  
**Germany**

is an approved manufacturer of  
**Steel pipes and hollow sections**

in accordance with

**DNV rules for classification – Ships**  
**DNV class programme – DNV-CP-0252 Steel pipes and steel pipe fittings**  
**DNV class programme – DNV-CP-0347 Steel hollow sections**

and the following particulars:

<b>Products</b>	<b>Pipes</b>
	<b>Structural hollow sections</b>
<b>Application area</b>	<b>Pipes for pressure systems</b>
	<b>Normal strength steel</b>
	<b>High strength steel</b>
<b>Manufacturing method</b>	<b>Longitudinal HFI Welding</b>
<b>Max. outer diameter</b>	<b>See page 2</b>
<b>Max. wall thickness</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>

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 **2025-01-17**

This Certificate is valid until **2027-07-31**.

DNV local unit: **Essen**

Approval Engineer: **Christian Wildhagen**



for **DNV**

This document has been digitally signed and will  
therefore not have handwritten signature

Stefan Röhr

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

## Particulars of the approval

### Pipes for pressure systems

Steel type / grade <sup>3) 4)</sup>	Manufacturing method <sup>1)</sup>	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
Carbon, Carbon-Manganese	ERW	406.4	16.0	N or NT

### Structural hollow sections

Steel type / grade <sup>4)</sup>	Manufacturing method <sup>1)</sup>	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355K2H, S275NH, S275NLH, S355NH, S355NLH, S420NH, S420NLH, S460NH, S460NLH acc. to EN 10210-1	ERW	406.4	16.0	acc. to standard
S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355K2H, S275NH, S275NLH, S355NH, S355NLH, S420NH, S420NLH, S460NH, S460NLH acc. to EN 10219-1				

### Pipes for applications subject to special approval

Steel type / grade <sup>4)</sup>	Manufacturing method <sup>1)</sup>	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
L245NE, L290 NE, L360NE, L415NE, L245ME, L290ME, L360ME, L415ME, L450ME and L450ME acc. to ISO 3183 B, X42, X46, X52, X56, X60, X65 and X70 acc. to API 5L (PSL1/PSL2)	ERW	406.4	16.0	acc. to standard

#### Remarks:

- 1) ERW: Electric resistance welded (High Frequency Induction Welding)
- 2) N: Normalised; NT: Normalised and Tempered
- 3) Suitable pipe grades shall be selected from the following recognized standards:  
ISO 9329 Parts 1 and 2, ISO 9330 Parts 1 and 2, EN 10216 Parts 1 to 3, EN 10217 Parts 1 to 3, EN 10305 Part 1 and 2, ASTM A53, ASTM A106, ASTM A135, ASTM A335, JIS G3454, JIS G3455, JIS G3456 and JIS G3458
- 4) Possible application and certification of any material to classed object is subject to case-by-case approval