



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00001HV**  
Revision No:  
**2**

This is to certify:

That

**Arvedi Tubi Acciaio S.p.A.**

**Via Acquaviva, 3 Zona Porto Canale, 26100 Cremona, CR,  
Italy**

is an approved manufacturer of  
**Steel Pipes and Fittings**

in accordance with

**DNV rules for classification – Ships**

**DNV-OS-B101 – Metallic materials**

**DNV class programme – DNV-CP-0252 Steel pipes and steel pipe fittings**

and the following particulars:

<b>Product</b>	<b>Pipes, Structural hollow sections</b>
<b>Application area</b>	<b>Pipes for pressure systems Structural hollow sections</b>
<b>Steel type</b>	<b>Carbon and carbon-manganese</b>
<b>Manufacturing method</b>	<b>Electric resistance welding Hot finished Cold finished</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>
<b>Additional approval conditions</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 **2023-05-12**

for **DNV**

This Certificate is valid until **2026-05-31**.

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Dechun Lou**

**Thorsten Lohmann**  
**Head of Section**

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.



Form code: AM 311

Revision: 2022-12

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**Particulars of the approval**

**Pipes for pressure systems  
 Structural hollow sections**

Steel type <sup>3) 4)</sup>	Manufacturing method <sup>1)</sup>	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
C and C-Mn	HF ERW	88,9	10	Acc. to standard
	CFR ERW	168,3		N

Remarks:

- 1) HF ERW: hot finished electric resistance welded  
 CFR ERW: cold finished electric resistance welded
- 2) N: Normalised
- 3) Pipes for pressure systems  
 Suitable pipe grades shall be selected from the following recognized standards:  
 ISO 9330 Parts 1 and 2, EN 10217 Parts 1 to 3, EN 10305 Part 3, ASTM A53, ASTM A178, ASTM A214,  
 ASTM A334, JIS G3454, JIS G3456 or JIS G3458
- 4) Hollow sections for structural application  
 Suitable hollow section grades shall be selected from the following recognised standards:  
 ISO 10799 Part 1, ISO 12633 Part 1, EN 10219 Part 1, EN 10210 Part 1, ASTM A500, ASTM A501

Special conditions:

Including steel pipes for elevated temperature applications