



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000FV
Revision No:
2

This is to certify:

That

Gieminox Tectubi Raccordi S.r.l.
Via Lago di Vico 22,
36015 Schio VI,
Italy

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with
DNV rules for classification – Ships

and the following particulars:

Product	Pipes
Application area	Pipes for pressure systems, Austenitic and ferritic-austenitic steel pipes, Pipes for low-temperature service,
Steel type	Carbon and carbon-manganese, Alloy, Austenitic stainless, Ferritic-austenitic (Duplex) stainless, Nickel alloy, See page 2
Manufacturing method	Plasma Arc Welding, Gas Tungsten Arc Welding, Submerged Arc Welding
Max. outer diameter	See page 2
Max. wall thickness	See page 2
Heat treatment condition	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 **2022-05-30**

for **DNV**

This Certificate is valid until **2025-05-31**.

DNV local station: **Venice**

Approval Engineer: **Christian Wildhagen**

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.



Particulars of the approval

Pipes for pressure systems

Steel type /grade ³⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	EFW	914.4	32	acc. standard

Austenitic and Ferritic-austenitic steel pipes

Steel type /grade ⁴⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic stainless	ERW	720	55	SHT / acc. standard
22Cr-duplex	ERW	914.4	50	SHT / acc. standard

Pipes for low temperature

Steel type /grade	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Nickel alloy 625 UNS N06625 Gr.2	EFW	609.6	35	acc. standard

Remarks:

- 1) EFW: electric fusion welded
- 2) SHT: Solution Heat Treated (solution annealing)
- 3) Pipes for pressure systems
 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 or JIS G3458
- 4) Austenitic and ferritic-austenitic steel pipes
 Suitable pipe grades shall be selected from the following recognized standards:
 ISO 9329 Part 4, ISO 9330 Part 6, EN 10216 Part 5, EN 10217 Part 7, ASTM A269, ASTM A312, ASTM A358, ASTM A789, ASTM A790, ASTM A928 or JIS G3459