



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002FD
Revision No:
1

This is to certify:

That

Schoeller Werk GmbH & Co. KG
Im Kirschseiffen, 53940 Hellenthal,
Germany

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	Austenitic and ferritic-austenitic steel pipes
Steel type(s)	Austenitic stainless
Manufacturing method	TIG-welded
Max. outer diameter	60 mm
Max. wall thickness	2.5 mm
Heat treatment condition	Solution heat treated
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 **2022-02-08**

for **DNV**

This Certificate is valid until **2024-12-31**.

DNV local station: **Essen**

Approval Engineer: **Stefan Röhr**

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

Austenitic steel pipes

Steel type	Grade	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic	1.4301	EFW	60	2,5	SHT
	1.4306				
	1.4307				
	1.4401				
	1.4404				
	1.4435				
	1.4436				
	1.4541				
1.4571					

Remarks:

- 1) EFW: Electric fusion welded
- 2) SHT: Solution Heat Treated (solution annealing)

Additional approval conditions:

Including automatic UT / ET testing in lieu of hydraulic testing according to relevant standard
 Including austenitic stainless steel grades for approved low-temperature applications