

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001YW
Revision No:
1

This is to certify:

That
ISOTUBI, S.L.
Sabadell, Castellbisbal Barcelona, Spain

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Products	Pipes
Application area	Austenitic steel pipes
Steel type(s)	Austenitic stainless
Manufacturing method	Automatic TIG-welded
Max. outer diameter	See particulars of the approval
Max. wall thickness	See particulars of the approval
Heat treatment condition	See particulars of the approval
Additional approval conditions	See particulars of the approval

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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2018-02-27**

for **DNV GL**

This Certificate is valid until **2021-06-30**.

DNV GL local station: **Barcelona**

Approval Engineer: **Gabi Dau**

Thorsten Lohmann
Head of Section



Job Id: **263.11-008078-1**
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Particulars of the approval

Austenitic stainless

Steel type /grade ^{3) 4)}	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Delivery condition
Austenitic stainless	EFW	108	2	As welded ²⁾

Remarks:

- 1) EFW: electric fusion welded
- 2) Starting material: Solution Heat Treated (solution annealing)
- 3) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules
- 4) Suitable pipe grades shall be selected from the following recognised standards:
ISO 9329 Part 4, ISO 9330 Part 6, EN 10216 Part 5, EN 10217 Part 7, ASTM A269, A312, A358, A789, A790, A928 and JIS G3459

Special conditions:

Including automatic UT / ET testing in lieu of hydraulic testing according to relevant standard