

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000MT
Revision No:
5

This is to certify:

That

TENARIS - Dalmine S.p.A.
Piazza Caduti 6 Luglio 1944, 1, 24044 Dalmine (BG),
Italy

is an approved manufacturer of
Steelmaking and Rolled Steel Products

in accordance with

DNV rules for classification – Ships
DNV-OS-B101 – Metallic materials
DNV class programme – DNV-CP-0242 Semi-finished steel products
DNV class programme – DNV-CP-0347 Steel hollow sections

and the following particulars:

Application area	High strength steel Extra high strength steel
Products	Structural hollow sections (Structural seamless pipes)
Steelmaking	Electric Arc Furnace, Continuous Casting
Deoxidation	Killed
Manufacturing method	Seamless
Max. dimensions	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 **2025-09-08**

This Certificate is valid until **2028-07-31**.

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

Approval Engineer: **Stefan Röhr**



for **DNV**

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

Christian Wildhagen

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

Seamless hollow sections intended for structural application:

Grade	Steel-making ¹⁾	Fine grain treatment	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
NV A32, NV A36, NV D32, NV D36 ³⁾	EAF, CC	Al+Nb	HFS, CFS	406	50	N
NV A420, NV AO420, NV A460, NV AO460, NV D420, NV DO420, NV D460, NV DO460, NV E420, NV EO420, NV E460, NV EO460	EAF, CC	Al+Nb	HFS, CFS	457	40	QT
NV A500, NV AO500, NV A550, NV AO550, NV D500, NV DO500, NV D550, NV DO550, NV E500, NV EO500, NV E550 ⁴⁾ , NV EO550 ⁴⁾	EAF, CC	Al+Nb	HFS, CFS	356	38	QT
NV A620, NV AO620, NV A690, NV AO690, NV D620, NV DO620, NV D690, NV DO690, NV E620, NV EO620, NV E690 ⁵⁾ , NV EO690 ⁵⁾	EAF, CC	Al+Nb	HFS, CFS	457	40	QT

Remarks:

- ¹⁾ EAF: Electric Arc Furnace; CC: Continuous Casting;
 HFS: Hot finished seamless; CFS: Cold finished seamless
²⁾ N: Normalising; QT: Quenching and Tempering
³⁾ Heat input range 0.8 to 1.7 kJ/mm during approval testing
⁴⁾ Heat input range 0.8 to 1.5 kJ/mm during approval testing
⁵⁾ Heat input range 0.8 to 1.4 kJ/mm during approval testing