



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000CM
Revision No:
2

This is to certify:

That

INDUSTRIE RIUNITE ODOLESI I.R.O. S.p.A.
Via Brescia, 12 - 25076 Odolo BS,
Italy

is an approved manufacturer of
Steelmaking

in accordance with

DNV rules for classification – Ships
DNV-OS-B101 – Metallic materials

and the following particulars:

Application area	Steelmaking
Products	Semi-finished products (billets for structural application)
Steel type	Normal strength steel, High strength steel, See page 2
Manufacturing method	Electric Arc furnace Continuous casting
Deoxidation	Killed
Max. thickness / diameter	See page 2
Heat treatment condition	As cast

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 **2022-06-13**

for **DNV**

This Certificate is valid until **2025-06-30**.

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

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

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Form code: AM 311

Revision: 2021-03

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Particulars of the approval

Semi-finished products

Steel type	Product	Steel making ¹⁾	Fine grain elements	Max. thickness / diameter [mm]	Heat treatment condition ²⁾
NV A	Billet	EAF, CC	-	160 x 160 (square) 160 (round)	AC
NV A36, NV D36	Billet	EAF, CC	Al+V	160 x 160 (square) 160 (round)	AC

Remarks:

- 1) EAF: Electric arc furnace
CC: Continuous casting
- 2) AC: as cast