



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM000001H**  
Revision No:  
**2**

This is to certify:

That

**Ferriera Valsider S.p.A.**  
**37050 Vallese di Oppeano,**  
**Italy**

is an approved manufacturer of  
**Rolled Steel Products**

in accordance with

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

and the following particulars:

<b>Application area</b>	<b>Normal strength steel</b>
<b>Product</b>	<b>High strength steel</b>
<b>Manufacturing method</b>	<b>Plates</b>
	<b>Basic oxygen converter</b>
	<b>Continuous casting</b>
<b>Max. thickness/diam.</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>

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 **2022-10-13**

for **DNV**

This Certificate is valid until **2025-06-29**.

DNV local station: **Venice**

Approval Engineer: **Andreas Koch**

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**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.



Form code: AM 311

Revision: 2021-03

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## Particulars of the approval

### Normal strength steel

Grade	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness [mm]	Heat treatment condition <sup>2)</sup>	Z-quality
NV A, NV B	Plate	BOC, CC	Al	50	AR	-
			Al+Nb			
NV D	Plate	BOC, CC	Al+Nb	35	AR	-
				50	NR	
NV D	Plate	BOC, CC	Al	20	AR	-
				50	NR	

### High strength steel

Grade	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness [mm]	Heat treatment condition <sup>2)</sup>	Z-quality
NV A27S, NV A32 NV A36	Plate	BOC, CC	Al	20	AR	-
				25	NR	
NV D27S, NV D32 NV D36	Plate	BOC, CC	Al	20	AR	-
				25	NR	
NV A27S, NV A32 NV A36	Plate	BOC, CC	Al+Nb	35	AR	-
				50	NR	
NV D27S, NV D32 NV D36	Plate	BOC, CC	Al+Nb	25	AR	-
				50	NR	
NV A27S, NV A32 NV A36	Plate	BOC, CC	Al+V	20	AR	-
				50	NR	
NV D27S, NV D32 NV D36	Plate	BOC, CC	Al+V	20	AR	-
				50	NR	

#### Remarks:

- <sup>1)</sup> BOC: Basic oxygen converter  
CC: Continuous casting
- <sup>2)</sup> AR: as rolled  
NR: normalising rolling