

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

INDUSTEEL France SAS
56, Rue Clémenceau B.P. 19, F-71201 Le Creusot Cedex,
France

is an approved manufacturer of
Rolled Steel Products

in accordance with
DNV GL rules for classification – Ships
DNV GL rules for classification – Naval vessels
DNV GL offshore standards

and the following particulars:

Application area	Extra high strength steel Stainless steel Non-magnetizable steels
Products	Steelmaking Plates, Semi-finished products, See page 2
Manufacturing method	Electric ARC furnace, continuous casting or ingot casting
Max. thickness / diameter	See page 2
Heat treatment condition	See page 2
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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2018-10-26**

for **DNV GL**

This Certificate is valid until **2021-08-31**.

DNV GL local station: **Paris**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section



Job Id: **263.11-005479-2**
 Certificate No: **AMMM00000HA**
 Revision No: **1**

Particulars of the approval

Extra high strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Delivery condition ²⁾
VL FO690	Plate	EAF, IC	Al	130	QT
VL F690	Plate	EAF, IC	Al	83	QT

Non-magnetizable steels

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Delivery condition ²⁾
1.3964 acc. BWB WL 1.3964-1 / VG 81224	Plate	EAF, IC	-	550	SHT

Stainless steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Delivery condition ²⁾
VL 304 L, VL 316 L, VL 317L, VL 321	Plate	EAF, CC	-	75	SHT
UNS S31803	Plate	EAF, CC	-	75	SHT
1.4462 acc. EN 10088-2	Plate	EAF, CC	-	75	SHT

Semi-finished products

Steel type	Product	Steel making ¹⁾	Max weight [kg]	Max. Thickness [mm]	Delivery condition ²⁾
C and C-Mn	Ingot, Billet	EAF, IC	196 000	1 200	AC
Alloy	Ingot, Billet	EAF, IC	196 000	1 200	AC
Stainless	Ingot, Billet	EAF, IC	196 000	1 200	AC
1.3964 acc. BWB WL 1.3964-1 / VG 81224	Ingot, Billet	EAF, IC	35 000	550	AC

Remarks:

- 1) EAF: Electric arc furnace
CC: Continuous casting
IC: Ingot casting
- 2) AC: as cast
QT: quenched and tempered
SHT: solution heat treated (solution annealed)
- 3) Certification of any material applied to classed object shall fulfil the applicable material requirements in the DNV GL class rules