

# APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

**Non Ferro Gieterij "Oldenzaal" b.v.**  
**Oldenzaal Overijssel, Netherlands**

is an approved manufacturer of  
**Steel Castings**

in accordance with  
**DNV GL rules for classification – Ships**

and the following particulars:

<b>Application Range</b>	<b>Castings for machinery</b>
<b>Steel type(s)</b>	<b>Austenitic stainless, Austenitic-ferritic (Duplex) stainless</b>
<b>Max. weight</b>	<b>See particulars</b>
<b>Remarks</b>	<b>Weld repairs are not accepted</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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2017-12-07**

for **DNV GL**

This Certificate is valid until **2020-12-31**.

DNV GL local station: **Rotterdam**

Approval Engineer: **Andreas Koch**

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**Thorsten Lohmann**  
**Head of Section**



Job Id: **263.11-001946-3**  
Certificate No: **AMMM00001UW**

## Particulars of the approval

### Stainless steel castings

Steel type	Grade	Casting method 1)	Max. weight [kg]	Delivery condition <sup>2)</sup>
Austenitic	GX 2 CrNi 18 10 (304L)	SC	5 000	SHT
	GX 5 CrNi 19 9 (304)			
	GX 6 CrNiNb 19 10 (347)			
	GX 2 CrNiMo 19 11 2 (316L)			
	GX 5 CrNiMo 19 11 2 (316)			
	GX 5 CrNiMo 19 11 3 (317)			
Duplex	GX 2 CrNiMoN 22 5 3			
	GX 2 CrNiMoCuN 25 6 3 3			

Remarks:

- 1) SC: Sand casting
- 2) SHT: solution heat treated (solution annealed)