

# APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

**Lindemann GmbH & Co. KG Orion-Eisenverarbeitung**  
**Bünde, Germany**

is an approved manufacturer of  
**Steel Pipes and Fittings**

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

and the following particulars:

<b>Product</b>	<b>Pipe fittings (elbows)</b>
<b>Steel type(s)</b>	<b>Carbon and carbon manganese Alloy</b>
<b>Process</b>	<b>Hot Forming Process</b>
<b>Dimensions</b>	<b>Max. Ø610 x 25 mm</b>
<b>Remarks</b>	<b>see Particulars of the approval</b>

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.

This Certificate is valid until **2019-01-31**.

Issued at **Hamburg** on **2016-03-18**

DNV GL local station: **Magdeburg**

Approval Engineer: **Christian Wildhagen**

for **DNV GL**

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

Job Id: 263.11-005537-1  
Certificate No: AMMM00000FG

## Particulars of the approval

---

### Pipe fittings:

Grade	Product	Supply Condition	Wall thickness [mm], max.	Diameter [mm], max.
EN 10253-1	RF	*	25	610
EN 10253-2	RF	*	25	610

RF: pipe fittings \*acc. standard/Rules