



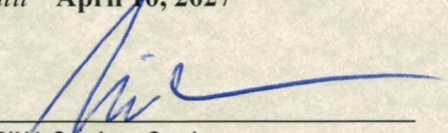
**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF  
MATERIALS  
No. FAB028222XG**

**This is to certify** that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials.

|                             |   |
|-----------------------------|---|
| <i>Description</i>          | <b>Pipes and fittings</b>   |
| <i>Type</i>                 | <b>ELBOWS</b>   |
| <i>Manufacturer</i>         | <b>Lindemann GmbH &amp; Co. KG - Orion Eisenverarbeitung GmbH</b> |
| <i>Place of manufacture</i> | <b>Albert-Schweitzer-Straße 179<br/>D-32257 Bünde<br/>GERMANY</b> |
| <i>Reference standards</i>  | <b>RINA Rules for the approval of manufacturers of materials</b>  |

Issued in **HAMBURG** on **April 11, 2022**. This Certificate is valid until **April 10, 2027**



  
RINA Services S.p.A.  
**Tobias Wilmsmann**

This certificate consists of this page and 1 enclosure



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS**

No. **FAB028222XG**

**Enclosure - Page 1 of 1**

**Elbows**

**APPROVAL CONDITIONS**

**Range or approval**

- The approval is granted for elbows made of carbon and carbon-manganese steel with dimensions from **Ø 17 (OT) x 1,8 (WT) mm up to Ø 610 (OT) x 30 (WT) mm** acc. to EN 10253-1 and EN 10253-2.
- The elbows are manufactured from sections of welded or seamless pipes by hot forming.

**General conditions for the approval**

- The approval is granted on condition that the RINA Rules for the approval, manufacture, testing and certification of materials are complied with in all respects.
- RINA is to be notified of any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate.

FAB028222XG replaced FAB107917XG.

**HAMBURG 23.03.2022**



T. Wilmsmann

