

# APPROVAL OF MANUFACTURER CERTIFICATE

**This is to certify:**

**That**

**ArcelorMittal Tubular Products Kraków Sp. z o.o.  
Kraków, Poland**

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

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

and the following particulars:

<b>Products</b>	<b>Pipes, Structural Hollow Sections</b>
<b>Application area</b>	<b>Pipes for pressure systems, Normal strength steel High strength steel</b>
<b>Steel type(s)</b>	<b>Carbon and Carbon-Manganese</b>
<b>Manufacturing method</b>	<b>High Frequency Induction Welded</b>
<b>Max. diameter</b>	<b>See page 2</b>
<b>Max. thickness</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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2018-08-15**

for **DNV GL**

This Certificate is valid until **2021-08-30**.

DNV GL local station: **Katowice**

Approval Engineer: **Stefan Röhr**

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



## Particulars of the approval

### Pipes for pressure system

Steel type / grade <sup>3) 4)</sup>	Manufacturing method <sup>1)</sup>	Max. outer diameter [mm]	Max. wall thickness [mm]	Delivery condition <sup>2)</sup>
Carbon, Carbon-Manganese	IW	168.3	8	HF, N

### Structural Hollow Sections (circular, square, rectangular) according to EN 10210-1

Steel type / grade <sup>3) 5)</sup>	Manufacturing method <sup>1)</sup>	Diameter / Dimensions [mm]	Max. wall thickness [mm]	Delivery condition
S235JRH, S275J0H, S275J2H, S355J0H, S355J2H	IW	168.3 (circular) 120 x 120 (square) 140 x 80 (rectangular)	8	acc. to standard

#### Remarks:

- 1) Induction welded
- 2) HF: Hot formed; N: Normalised
- 3) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules
- 4) Suitable pipe grades shall be selected from the following recognised standards:  
ISO 9329 Parts 1 and 2, ISO 9330 Parts 1 and 2, EN 10216 Parts 1 to 3, EN 10217 Parts 1 to 3, EN 10305 Part 1 and 2, ASTM A53, ASTM A106, ASTM A135, ASTM A335, JIS G3454, JIS G3455, JIS G3456 and JIS G3458
- 5) Including equivalent grades to other standards