



Certificate No : MD00/0857/0006/1

**ARCELORMITTAL BREMEN GmbH**  
Carl-Benz- Straße 30  
D-28237 Bremen  
Germany

has been approved as a manufacturer in accordance with the requirements of Lloyd's Register for :-

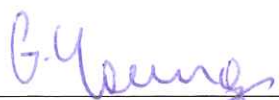
**Steelmaking, Semi-Finished Products and Hot Rolled Coil**

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials. The full details of the processes and grades to which this approval applies are given in the Appendix of this certificate.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above manufacturer and is valid until the date given below.

Valid Until : 17 October 2016  
Date of Issue : 08 January 2014

  
Gavin Young  
Metallurgical Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group



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Certificate No : MD00/0857/0006/1

Appendix 1

ARCELORMITTAL BREMEN GmbH

Carl-Benz- Straße 30

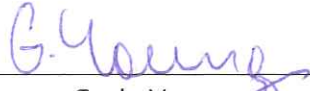
D-28237 Bremen

Germany

|                               |                                     |               |                             |
|-------------------------------|-------------------------------------|---------------|-----------------------------|
| <b>Steelmaking</b>            | <b>B.O.S. / Con Cast</b>            | <b>Grades</b> |                             |
|                               |                                     | As below      |                             |
| <b>Semi-Finished Products</b> | <b>Slabs</b>                        | <b>Grades</b> | <b>mm thickness Maximum</b> |
|                               |                                     | As below      | 220.0                       |
| <b>Hot Rolled Coil</b>        | <b>Normal Strength</b>              | <b>Grades</b> | <b>mm thickness Maximum</b> |
| Hot Coiled                    | Fine Grain Al                       | A, B, D       | 20.0                        |
| Hot Coiled                    | Killed                              | A             | 20.0                        |
| <b>Hot Rolled Coil</b>        | <b>Boiler &amp; Pressure Vessel</b> | <b>Grades</b> | <b>mm thickness Maximum</b> |
| Hot Coiled                    | Fine Grain Al                       | 360FG, 410FG  | 20.0                        |
| Hot Coiled                    | Killed                              | 360, 410      | 20.0                        |

Maximum concast slab dimensions 220mm x 2670mm

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|                |  |                 |                 |  |  |
|----------------|--|-----------------|-----------------|--|--|
| <b>TO</b>      | LR Bremerhaven   | <b>DATE</b>     | 08 January 2014 |  |  |
| <b>FROM</b>    | Materials and NDE  | <b>YOUR REF</b> |                 |  |  |
|                |  | <b>OUR REF</b>  | MAT/M0857/GYE/  |  |  |
| <b>SUBJECT</b> | <b>Scope of Approval</b><br>ARCELORMITTAL BREMEN GmbH<br>Carl-Benz- Straße 30<br>D-28237 Bremen<br>Germany |                 |                 |  |  |

| MAKE OF APPROVED TESTING MACHINE | TYPE    | MACHINE NUMBER | CAPACITY | UNIT   |
|----------------------------------|---------|----------------|----------|--------|
| ZWICK                            | Impact  | 173912-2007    | 750      | Joules |
| MAN                              | Tensile | 630201         | 1000     | kN     |
| ZWICK                            | Tensile | 132475-1996    | 1200     | kN     |

|                               |                                     |               |                             |
|-------------------------------|-------------------------------------|---------------|-----------------------------|
| <b>Steelmaking</b>            | <b>B.O.S. / Con Cast</b>            | <b>Grades</b> |                             |
|                               |                                     | As below      |                             |
| <b>Semi-Finished Products</b> | <b>Slabs</b>                        | <b>Grades</b> | <b>mm thickness Maximum</b> |
|                               |                                     | As below      | 220.0                       |
| <b>Hot Rolled Coil</b>        | <b>Normal Strength</b>              | <b>Grades</b> | <b>mm thickness Maximum</b> |
| Hot Coiled                    | Fine Grain Al                       | A, B, D       | 20.0                        |
| Hot Coiled                    | Killed                              | A             | 20.0                        |
| <b>Hot Rolled Coil</b>        | <b>Boiler &amp; Pressure Vessel</b> | <b>Grades</b> | <b>mm thickness Maximum</b> |
| Hot Coiled                    | Fine Grain Al                       | 360FG, 410FG  | 20.0                        |
| Hot Coiled                    | Killed                              | 360, 410      | 20.0                        |

Maximum concast slab dimensions 220mm x 2670mm

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