Electronically published by ABS Shanghai.
Reference WO0236259, dated 18-Mar-2025

CERTIFICATE NUMBER
STML-0236259

ISSUING OFFICE
Singapore Materials

CERTIFICATE OF
STEEL MILLS
FACILITY AND PROCESS APPROVAL

This is to certify that a representative of ABS did, at the request of

ARCELORMITTAL BRASIL S.A.

AV. BRIGADEIRO EDUARDO GOMES, NO. 526, SERRA-ES,
ESPIRITO SANTO, Brazil, 29160-904

attend its facilities as indicated in the ABS City Recife Station port office survey report number 5998547 dated 13 September 2023 in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

Plate and Semi-finished product components for marine applications

in accordance with the ABS Approval letter (Reference WO0236259), ABS Rules, designated standards and ABS approved drawings. The approval is valid till 23 September 2028 subject to adherence to relevant ABS Rules and Survey requirements.

Marcus Cridland
Chief Metallurgist, ABS

ISSUE DATE: 13 September 2023
EXPIRY DATE: 23 September 2028

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, Guides, standards or other criteria of ABS as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a full description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of ABS who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.

CERTIFICATE NUMBER
QA-6872466

ISSUING OFFICE
No office Found

CERTIFICATE OF

QUALITY ASSURANCE SYSTEM APPROVAL

This is to certify that a representative of ABS did, at the request of

ARCELORMITTAL BRASIL S.A.

AV. BRIGADEIRO EDUARDO GOMES, NO. 526, SERRA-ES,
ESPIRITO SANTO, Brazil, 29160-904

attend its facilities as indicated in the ABS Sao Paulo Port port office survey report number 6872466 dated 28 February 2025, in order to carry out an audit of the quality system procedures and that the system is considered in compliance with the ABS Quality Assurance Program. This Certificate covers

ABS Approved Products

and is valid till 27 February 2030 subject to adherence to relevant ABS Rules, Survey requirements, periodic audits and annual facility quality audits by an ABS representative.

Marcus Cridland
Chief Metallurgist, ABS

ISSUE DATE: 28 February 2025
EXPIRY DATE: 27 February 2030

FIRST ANNUAL AUDIT: 13 April 2026

SECOND ANNUAL AUDIT:

THIRD ANNUAL AUDIT:

FOURTH ANNUAL AUDIT:

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, Guides, standards or other criteria of ABS as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a full description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of ABS who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.

Documents List

Drawing No.	Rev. No.	Title	Status
MQ-PRO-0001 English	31	QA Manual_English	Reviewed
Production of Statistical Test Data	-	Statistical Test Data_ASTM A36/ A131 Gr A	Reviewed
Statement of Manufacturing Process for A36 and A131 Gr A same as AB/A	-	Statement of Manufacturing Process for A36 and A131 Gr A same as AB/A	Reviewed

Electronic copies of the documents appropriately stamped, are available in the ABS MyFreedomTM Client Portal.

Process/Product Approval

Certificate No. STML-0236259; QA-6872466

Product	Grade	Thickness	Fine Grain Practice	Casting Practice[1]	Delivery condition[1]
Extension of Approval					
Hot Rolled Coil	Non-ABS – ASTM A36	12.7 mm	Al	CC	AR
Hot Rolled Coil	Non-ABS – ASTM A131 Grade A	12.7 mm	Al	CC	AR
Plate from Coil	Non-ABS – ASTM A36	12.7 mm	Al	CC	AR
Plate from Coil	Non-ABS – ASTM A131 Grade A	12.7 mm	Al	CC	AR
Steel Making Practice: BOF **Deoxidation Practice:** Si-Al Killed **Heat treatment Facility:** NA					
Previously Approved Grades					
Plate from Coil	ABS – A*/B	19 mm	Al	CC	AR
Plate from Coil	ABS – A*/B*/D	16 mm	Al	CC	AR
Plate from Coil	ABS – AH32*/AH36	16 mm	Al+Nb	CC	AR

Product	Grade	Thickness	Fine Grain Practice	Casting Practice[1]	Delivery condition[1]
Plate from Coil	ABS – AH32	16 mm	Al	CC	AR
Plate from Coil	ABS – AH32	19 mm	Al+Nb	CC	AR
Hot Rolled Coil	ABS – A*/B	19 mm	Al	CC	AR
Hot Rolled Coil	ABS – A*/B*/D	16 mm	Al	CC	AR
Hot Rolled Coil	ABS – AH32*/AH36	16 mm	Al+Nb	CC	AR
Hot Rolled Coil	ABS – AH32	16 mm	Al	CC	AR
Hot Rolled Coil	ABS – AH32	19 mm	Al+Nb	CC	AR
Slab	ABS – A*/B*/D	250 mm	Al	CC	-
Slab	ABS – AH32*/DH32*/ EH32* AH36*/DH36*/ EH36	250 mm	Al	CC	-
Steel Making Practice: BOF **Deoxidation Practice:** Si-Al Killed **Heat treatment Facility:** NA					

* Approval of these grades is based on qualification tests carried out on the higher grade.

Note 1:

a. CC: Continuous Casting
b. AR: As Rolled