



Work Order - WO0019175
Pipe Mill Approval – Renewal
Certificate No: PML-0019175

Attention: DALMINE S.P.A. (WCN: 424922)

The documents shown in the attached list are reviewed in accordance with the applicable requirements of the following and the facility is considered approved to manufacture hull/machinery/hull and machinery components as outlined in the scope of approval.

1. ABS Rules for Materials and Welding, Part 2, 2024

Please note it is the responsibility of the facility to inform ABS of any changes to be manufacturing parameters and request annual endorsement survey or renewal of approval prior to the five year expiry date.

Refer to attachments, Process/Product Approval, Manufacturer Approval Certificate PML-0019175.

For any clarifications, contact James Oehrle at JOehrle@eagle.org, 281-877-6148.

Very truly yours,

Gareth Burton
Senior Vice President of
Engineering

Electronically Signed by: Satya
Meruva

Documents List

Drawing No.	Rev.	Title	Status
EH36 ABS - Arcore	-	Production Statistics 2019 - 2023	Reviewed
EQ47 ABS - Arcore	-	Production Statistics 2019 - 2023	Reviewed
EQ70 ABS - Arcore	-	Production Statistics 2019 - 2023	Reviewed
No Non-Conformances	-	Client Statement	Reviewed

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



CERTIFICATE NUMBER
PML-0019175

ISSUING OFFICE
Houston Materials

CERTIFICATE OF PIPE MILLS FACILITY AND PROCESS APPROVAL

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

DALMINE S.P.A.

VIA ACHILLE GRADI , 100 , ARCORE, Italy, 20043

attend its facilities as indicated in the ABS City Genoa Port port office survey report number 6274046 dated 22 February 2024 in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

Structural Piping components for marine applications

in accordance with the ABS Approval letter (Reference WO0019175), ABS Rules, designated standards and ABS approved drawings. The approval is valid till 05 March 2029 subject to adherence to relevant ABS Rules and Survey requirements.

Marcus Cridland
Chief Metallurgist, ABS

ISSUE DATE: 22 February 2024

EXPIRY DATE: 05 March 2029

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.



Process/Product Approval

Certificate No. PML-0019175

Product	Grade	Wall Thickness	Outer Diameter	Delivery condition ¹
Seamless Pipe	ABS – AH*/DH32*/36	65 mm	48 – 711 mm	N
Seamless Pipe	ABS – FH32*/36	40 mm	219.1 – 406.4 mm	Q&T
Seamless Pipe	ABS – AQ*/DQ*/EQ43*/47	40 mm	48 – 457 mm	Q&T
Seamless Pipe	ABS – AQ*/DQ*/EQ51*/56	40 mm	168 – 406.4 mm	Q&T
Seamless Pipe	ABS – AQ*/DQ*/EQ63*/70	48 mm	48 – 406.4 mm	Q&T
Steel Making Practice¹: EAF with EBT Deoxidation Practice: Al Fine Grain Practice: Al Casting Practice¹: CC Heat treatment Facility: In-house				

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

Note 1:

- a. CC: Continuous Casting
- b. N: Normalized
- c. Q&T: Quench and Tempered
- d. EAF: Electric Arc Furnace
- e. EBT: Eccentric Bottom Tapping