



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS**
No. FAB182115WS

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>	Normal strength and higher strength hull steel sections
<i>Type</i>	A-B-D-E-AH32-AH36-AH40-DH32-DH36-DH40-EH32-EH36
<i>Manufacturer</i>	SUQIAN NANJING IRON & STEEL GROUP JINXIN STEEL
<i>Place of manufacture</i>	ROLLING CO., LTD NO.89 JIANGSHAN ROAD, SUYU DISTRICT SUQIAN CHINA
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials

Issued in **SHANGHAI** on **April 11, 2016**. *This Certificate is valid until* **November 13, 2020**



RINA
RINA Services S.p.A.
Guang
Hong Gu

This certificate consists of this page and 1 enclosure

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GRADE: A-B-D-E-AH32-AH36-AH40-DH32-DH36-DH40-EH32-EH36

APPROVAL CONDITIONS

- Steel making process: Basic Oxygen Furnace

- Casting process: Continuous Casting

- Approval particular:

Grade	Product	Max. Size (mm)	Deoxidation	Fine Grain Elements	Supply Condition
A	Bult flat steel	HP430*20	Al	—	AR
B			Al	Al+Ti	CR
D					
E			Al	Al+V	CR
AH32					
DH32			Al	Al+V	CR
AH36					
DH36					
AH40					
DH40			Al	Al+V+Ti	CR
EH32					
EH36					
A	Inverted angle steel	L450*125*13*18	Al	-	AR
B			Al	Al+Ti	CR
D					
E			Al	Al+V	CR
AH32					
DH32			Al	Al+V	CR
AH36					
DH36					
AH40					
DH40			Al	Al+V+Ti	CR
EH32					
EH36					



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A	Equal/unequal angle steel	250*250*20	Al	-	AR
B					
D			Al	Al+Ti	CR
E					
AH32			Al	Al+V	CR
DH32					
AH36			Al	Al+V	CR
DH36					
AH40					
DH40					
EH32			Al	Al+V+Ti	CR
EH36					
A	Flat steel	350*20	Al	-	AR
B					
D			Al	Al+Ti	CR
E					
AH32			Al	Al+V	CR
DH32					
AH36			Al	Al+V	CR
DH36					
AH40					
DH40					
EH32			Al	Al+V+Ti	CR
EH36					

AR: As Rolled

CR: Controlled Rolling

Survey condition: the products are to be in compliance in all respects with the relevant RINA Rules and are to be tested accordingly.

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.



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