



Certificate number: SMS.W.II./61600/F.0

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RECOGNITION FOR BV MODE II SCHEME

KOREA STEEL CO., LTD. (Noksan work)
BUSAN - KOREA (REPUBLIC OF)

Summary of the range of the recognition which is detailed in the subsequent page(s):

1. Normal Strength Hull Steel Rolled products
 - Equal & Unequal angle, Round & Square bar, Flat bar, Channel in Steel Grade A
2. Higher Strength Hull Steel Rolled products
 - Flat bar, Equal & Unequal angle, Channel in Steel Grade AH32 & AH36
 - Equal angle in Steel Grade DH36

This certificate is issued to attest that Bureau Veritas Marine & Offshore has performed, at the above company's request and in compliance with the requirements of NR320, a satisfactory assessment of the manufacturing facilities and associated quality procedures related to the range of the recognition.

This certificate will expire on: 21 Nov 2029

For BUREAU VERITAS,
At BV PUSAN, on 26 Nov 2025,
Seungbeom HONG

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <https://www.veristarm.com/veristarnb/jsp/viewPublicPdfRecognition.jsp?id=nvivicm7pdu>

THE SCHEDULE OF RECOGNITION

1. RANGE OF THE RECOGNITION

The products listed in the table below are to be certified individually or per batch by Bureau Veritas Marine & Offshore in compliance with the applicable requirements (IBV products as defined in NR320).

App. number	Validity date	Item designation	Trade name
17878/E0 BV	05 Nov 2030	NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS - 9006I	Sections and bars in steel grade A
22849/D0 BV	05 Nov 2030	HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS - 9007I	Hot rolled sections and flat bars in steel grades AH32, AH36 and sections in steel grade DH36

2. LIMITATIONS

The certificates listed in the range of recognition are to be valid, as applicable.

Bureau Veritas Marine & Offshore is to be informed immediately of any modification to manufacturing facilities and associated quality procedures in order to agree on appropriate actions.

KOREA STEEL CO., LTD. (Noksan work) has to apply for the periodical audits as agreed with Bureau Veritas Marine & Offshore.

3. PERIMETER OF CERTIFICATION

Quality system of following site(s) has been assessed:

KOREA STEEL CO., LTD. (Noksan work) - BUSAN - KOREA (REPUBLIC OF)

4. REMARKS

4.1 This certificate is a renewal of certificate N° SMS.W.II./61600/E.0 expired on 21st November 2025.

4.2 Raw materials (Ingot, slab, bloom, billet, etc) to manufacture the products mentioned above shall be provided from the Works recognized by the Society.

4.3 The periodical audits mentioned above are to be carried out within \pm 3 months of the anniversary date, 21st November, annually. However, Periodical audits may be omitted if the inspections are performed by BV over twice every year.

*** END OF CERTIFICATE ***



Certificate number: 17878/E0 BV

File number: MAT 61600 - 2006

Product code: 90061

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

KOREA STEEL CO., LTD. (Noksan work)
BUSAN - KOREA (REPUBLIC OF)

for the type of product

NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS

Sections and bars in steel grade A

Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 05 Nov 2030

For Bureau Veritas Marine & Offshore,

At BV PUSAN, on 05 Nov 2025,

Seungbeom HONG

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Equal angle, Unequal angle, Round & Square bar, Flat bar and Channel.

Steel grade	Deoxydation practice	Delivery conditions
A	Killed	As Rolled (AR) with thickness up to 15 mm for Equal angle As Rolled (AR) with thickness up to 15 mm for Unequal angle As Rolled (AR) with thickness up to 13.5 mm for Channel As Rolled (AR) with thickness up to 65 mm for Round & Square bars As Rolled (AR) with thickness up to 28 mm for Flat bar

No steelmaking.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by Korea Steel Shapes Co., Ltd.:

- "Information for approval of manufacturers - Part A : Information for approval of manufacturer" dated 22 November 2005.
- "Extension of information for approval of manufactures - sections and bars" submitted on 2011.

3. TEST REPORTS :

3.1 - Documents issued by Korea Steel Shapes Co., Ltd.:

- "Information for approval of manufacturers - Part B : Approval testing" dated 22 November 2005.
- "Test report for modification of type approval certificate" dated June 2011.

4. APPLICATION / LIMITATION :

4.1 - As per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units.

4.2 - Semi-finished products are to be supplied by Korea Steel Co., Ltd. (Chilseo work) or other steelmakers approved by the Society.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel rolled products are to be supplied by Korea Steel Co., Ltd. (Noksan work) in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - For information, Korea Steel Co., Ltd. (Noksan work) has declared to Bureau Veritas the following production site:

Korea Steel Co., Ltd. (Noksan work)

#84, Noksansandan 407 ro

Gangseo-gu

46755 BUSAN

KOREA (REPUBLIC OF)

6. MARKING OF PRODUCT :

6.1 - Each steel rolled section that has been tested with satisfactory results are to be marked with the following information:

- Manufacturer's name or trademark
- Bureau Veritas' Mark
- Identification marking enabling traceability, such as cast number, heat number, or batch number
- Material grade and classification
- Additional markings where applicable, such as test pressure or specific inspection references

Additional marking requirements specific to steel rolled section shall be in accordance with the "Marking" article in the relevant section of Bureau Veritas NR216 Rules on Materials and Welding for the Classification of Marine Units

7. OTHERS :

7.1 - It is Korea Steel Co., Ltd. (Noksan work)'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 17878/D1 BV issued by the Society.

*** END OF CERTIFICATE ***



Certificate number: 22849/D0 BV

File number: MAT 61600-2010

Product code: 9007I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

KOREA STEEL CO., LTD. (Noksan work)
BUSAN - KOREA (REPUBLIC OF)

for the type of product

HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled sections and flat bars in steel grades AH32, AH36 and sections in steel grade DH36

Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 05 Nov 2030

For Bureau Veritas Marine & Offshore,

At BV PUSAN, on 05 Nov 2025,

Seungbeom HONG

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Hot rolled flat bars, sections, equal & unequal angles, channel.

Steel grade	Deoxydation practice	Delivery conditions
AH32 &AH36	Killed	As Rolled (AR) with thickness up to 30 mm for flat bar As Rolled (AR) with thickness up to 15 mm for equal angle As Rolled (AR) with thickness up to 12 mm for Unequal angle As Rolled (AR) with thickness up to 13.5 mm for Channel
DH36	Killed	As Rolled (AR) with thickness up to 15 mm for equal angle

No steelmaking.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by Korea Steel Shapes Co., Ltd.:

- "Extension of information for approval of manufactures - sections and bars",
- "Approval of manufacturer of rolled steel test plan extension of SMS.W.II/61600/A0 (Steel grade up to BVAH32)" dated 6/01/2010.

3. TEST REPORTS :

3.1 - Documents issued by Korea Steel Shapes Co., Ltd.:

- "Approval of manufacturer of rolled steel test plan extension of SMS.W.II/61600/A0 (Steel grade up to BV AH32)" dated 6/01/2010,
- "Test report for modification of type approval certificate" dated June 2011,
- "Test report for modification of type approval certificate" dated 08/01/2014.

4. APPLICATION / LIMITATION :

4.1 - As per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units.

4.2 - Semi-finished products are to be supplied by Korea Steel Co., Ltd. (Chilseo work) or other steelmakers approved by the Society.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel rolled products are to be supplied by Korea Steel Co., Ltd. (Noksan work) in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

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KOREA (REPUBLIC OF)

6. MARKING OF PRODUCT :

6.1 - Each steel rolled section that has been tested with satisfactory results are to be marked with the following information:

- Manufacturer's name or trademark
- Bureau Veritas' Mark
- Identification marking enabling traceability, such as cast number, heat number, or batch number
- Material grade and classification
- Additional markings where applicable, such as test pressure or specific inspection references

Additional marking requirements specific to steel rolled section shall be in accordance with the "Marking" article in the relevant section of Bureau Veritas NR216 Rules on Materials and Welding for the Classification of Marine Units

7. OTHERS :

7.1 - It is Korea Steel Co., Ltd. (Noksan work)'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 22849/C1 BV issued by the Society.

*** END OF CERTIFICATE ***