

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001XG
Revision No:
2

This is to certify:

That

HUSTEEL Co.,Ltd. Daebul Plant
150 Daebulsandan, 3-ro Samho-eup, Yeongam-gun,
Jeollanam-do, Republic of Korea

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Product	Pipes for pressure systems Structural hollow sections
Steel type(s)	Carbon and carbon-manganese
Manufacturing method	Electric resistance welded
Max. outer diameter	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2
Additional approval conditions	See page 2

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2021-01-13**

for **DNV GL**

This Certificate is valid until **2023-12-31**.

DNV GL local station: **Mokpo**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section

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Job Id: **263.11-008432-4**
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Particulars of the approval

Pipes for pressure systems

Steel type	Grade	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	P235TR2 acc. EN 10217-1	ERW	610	22	N
	P265TR2 acc. EN 10217-1	ERW	610	22	N
	P275NL1 acc. EN 10217-3	ERW	610	22	N
	P355N acc. EN 10217-3	ERW	610	22	N
	STPG 370 acc. JIS G 3454	ERW	610	22	N

Structural hollow sections

Steel type	Grade	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	S235JRH acc. EN 10210-1	ERW	508	22	acc. to standard
	S275J0H acc. EN 10210-1	ERW	508	22	acc. to standard
	S275J2H acc. EN 10210-1	ERW	508	22	acc. to standard
	S355J0H acc. EN 10210-1	ERW	508	22	acc. to standard
	S355J2H acc. EN 10210-1	ERW	508	22	acc. to standard
	STKR 400 acc. JIS G 3466	ERW	508	22	acc. to standard
	STKR 490 acc. JIS G 3466	ERW	508	22	acc. to standard
	SRT355 acc. KS D 3568	ERW	508	22	acc. to standard

Remarks:

- ¹⁾ ERW: Electric resistance welded
- ²⁾ N: Normalised

Additional approval conditions

Including automatic UT / ET testing in lieu of hydraulic testing according to relevant standard