



# NIPPON KAIJI KYOKAI

## Certificate

OF

### TYPE APPROVAL

Approval No. NKY-1705  
Certificate No. TA20791E

Article: Welding Consumables for High Tensile Steels for Hull  
Brand: LB-50A  
Applicant: Kobe Steel, Ltd., Saijo Plant  
Higashihiroshima, Hiroshima, Japan  
Manufacturer: Kobe Steel, Ltd., Saijo Plant  
Higashihiroshima, Hiroshima, Japan  
Grade: KMW53H10  
Welding Process: Manual Welding  
Welding Positions and Max. Diameter of Electrode: See Table 1  
Current: AC, DCEP and DCEN  
Shielding Gas: Not Applicable

Table 1 Welding Positions and Max. Diameter of Electrode

Butt Weld		Fillet Weld	
Flat:	5.0mm	Flat:	5.0mm
Horizontal:	5.0mm	Horizontal Vertical:	5.0mm
Overhead:	5.0mm	Horizontal:	5.0mm
Vertical Upward:	5.0mm	Horizontal Overhead:	5.0mm
Vertical Downward:	Not Applicable	Overhead:	5.0mm
		Vertical Upward:	5.0mm
		Vertical Downward:	Not Applicable

THIS IS TO CERTIFY that the above mentioned welding consumable has been approved by the NIPPON KAIJI KYOKAI in accordance with the requirements of the Society's Rules.

This Certificate will remain in force until 24 May 2021.

Issued at Tokyo on 8 July 2020.




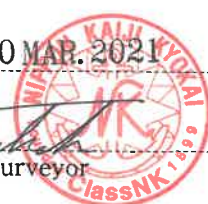
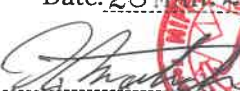

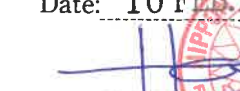

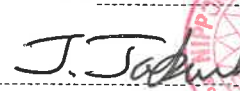

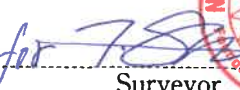

Y. Takao

General Manager

Material and Equipment Department

- Notes (1) The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.  
(2) This certificate was rewritten because of addition of current.

Certificate No. TA20791E

<p>The validity of this certificate has been renewed until <u>24 MAY. 2022</u> .</p> <p>Date: <u>30 MAR. 2021</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>24 MAY. 2023</u> .</p> <p>Date: <u>28 MAR. 2022</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>24 MAY. 2024</u> .</p> <p>Date: <u>10 FEB. 2023</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>24 MAY. 2025</u> .</p> <p>Date: <u>9 FEB. 2024</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>24 MAY. 2026</u> .</p> <p>Date: <u>16 MAY. 2025</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>