



# NIPPON KAIJI KYOKAI

## Certificate

Approval No. NKY-3511  
Certificate No. TA24817E

### OF TYPE APPROVAL

Article: Welding Consumables for High Strength Rolled Steels for Offshore Structures  
Brand: LB-80L  
Applicant: Kobe Steel, Ltd., Ibaraki Plant  
Ibaraki, Osaka, Japan  
Manufacturer: Kobe Steel, Ltd., Ibaraki Plant  
Ibaraki, Osaka, Japan  
Grade: KMW5Y69H5  
Welding Process: Manual Welding  
Welding Positions and Max. Diameter of Electrode: See Table 1  
Current: DCEP  
Shielding Gas: Not Applicable

Table 1 Welding Positions and Max. Diameter of Electrode

Butt Weld		Fillet Weld	
Flat:	4.0mm	Flat:	4.0mm
Horizontal:	4.0mm	Horizontal Vertical:	4.0mm
Overhead:	4.0mm	Horizontal:	4.0mm
Vertical Upward:	4.0mm	Horizontal Overhead:	4.0mm
Vertical Downward:	Not Applicable	Overhead:	4.0mm
		Vertical Upward:	4.0mm
		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 30 August 2025.

Issued at Tokyo on 16 July 2024.

  
  
 M. Irisawa  
 General Manager  
 Material and Equipment Department

Note : (1) The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.  
(2) The certificate was rewritten because of change of max. diameter of electrode.

<p>The validity of this certificate has been renewed until _____.</p> <p style="text-align: center;">Date: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Surveyor</p>	<p>The validity of this certificate has been renewed until _____.</p> <p style="text-align: center;">Date: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Surveyor</p>
<p>The validity of this certificate has been renewed until _____.</p> <p style="text-align: center;">Date: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Surveyor</p>	<p>The validity of this certificate has been renewed until _____.</p> <p style="text-align: center;">Date: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Surveyor</p>
<p>The validity of this certificate has been renewed until _____.</p> <p style="text-align: center;">Date: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Surveyor</p>	<p>The validity of this certificate has been renewed until _____.</p> <p style="text-align: center;">Date: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Surveyor</p>
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