



# NIPPON KAIJI KYOKAI

Approval No. NKY-3680  
Certificate No. TA241434E

## *Certificate* OF TYPE APPROVAL

Article: Welding Consumables for High tensile Steels for Hull  
Brand: Coreweld 111 Ultra  
Applicant: ESAB SeAH Corp.  
56, Jeongdong-ro, 62beon-gil, Seongsan-gu, Changwon-si,  
Gyeongnam, Korea  
Manufacturer: ESAB SeAH Corp.  
56, Jeongdong-ro, 62beon-gil, Seongsan-gu, Changwon-si,  
Gyeongnam, Korea  
Grade: KSW53G(C)H10  
KSW53Y40G(C)H10  
Welding Process: Semi-Automatic Welding (MAG Welding)  
Welding Positions and Max. Diameter of Wire: See Table 1  
Current: DCEP  
Shielding Gas: CO<sub>2</sub>  
Remarks: For annual inspection, mechanical properties are to comply with the  
requirements specified in Table 2.

Table 1 Welding Positions and Max. Diameter of Wire for Both grade

Butt Weld		Fillet Weld	
Flat:	1.6mm	Flat:	1.6mm
Horizontal:	Not Applicable	Horizontal Vertical:	1.6mm
Overhead:	Not Applicable	Horizontal:	Not Applicable
Vertical Upward:	Not Applicable	Horizontal Overhead:	Not Applicable
Vertical Downward:	Not Applicable	Overhead:	Not Applicable
		Vertical Upward:	Not Applicable
		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 5 December 2025.  
Issued at Tokyo on 6 December 2024.

  
M. Irisawa  
General Manager  
Material and Equipment Department


Note : The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.

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Table 2 Mechanical Properties

Deposited Metal Test				
Tensile Test			Impact Test	
Tensile strength (N/mm <sup>2</sup> )	Yield point (N/mm <sup>2</sup> )	Elongation (%)	Testing temperature (°C)	Minimum mean absorbed energy (J)
510~660	400 min.	22 min.	-20	47



<p>The validity of this certificate has been renewed until <u>2026.12.05</u>.</p> <p>Date: <u>2025.7.11</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 _____.</p> <p>Date: _____</p> <p>_____ Surveyor</p>	<p>The validity of this certificate has been renewed until _____.</p> <p>Date: _____</p> <p>_____ Surveyor</p>
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# NIPPON KAIJI KYOKAI

## *Certificate*

Certificate No.

NKY-2440

OF

### TYPE APPROVAL FOR WELDING CONSUMABLE

Brand : CORE WELD 111ULTRA × CORE WELD 111ULTRA  
Manufacturer : ESAB SeAH Corp.  
Changwon-city, Korea  
Kind : Automatic Welding Consumable  
Purpose : For High Tensile Steel  
Approval Condition ;  
Grade : KAW53MG(C)  
Current : DCEP  
Position : Flat  
Max. Dia. of Wire : F ; 2.0mm  $\phi$   
Welding Procedure : CO<sub>2</sub> Welding with Two Electrodes

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 the 8th day of April, 2003.  
Issued at Tokyo on the 9th day of April, 2002.

( H. Kitada )






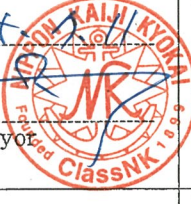
General Manager of  
Material and Equipment Department

Note : The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.



Certificate No. NKY-2440



<p>The validity of this certificate has been renewed until <u>2024.04.08</u> .</p> <p>Date: <u>2023.07.28</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>2025.04.08</u> .</p> <p>Date: <u>2024.07.18</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>2026.04.08</u> .</p> <p>Date: <u>2025.11.11</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 _____ .</p> <p>Date: _____</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 _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>