



# TYPE APPROVAL CERTIFICATE

**Certificate No.** : CWN02485-WD001                      **Initial Approval** : 5th June, 2001  
**Product** : Welding Consumables  
**Manufacturer** : ESAB SeAH Corp.  
56, Jeongdong-ro 62beon-gil, Seongsan-gu, Changwon-si, Gyeongnam, Korea

**Product Description** : Flux cored wires with gas for semi-automatic arc welding

- Brand : Dual Shield R-70  
Dual Shield 7100  
Dual Shield 7100 Ultra  
Dual Shield II 81-K2  
Coreweld 111RB

\* See "Appendix 1"

**Approval Condition** : 1. The product or packing is to be marked with manufacturer name and type designation on a suitable position.  
2. Individual Product Certification is not required.  
3. Periodical survey is to be carried out at an interval of one(1) year in the presence of the surveyor.

**THIS IS TO CERTIFY** that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 2, Ch. 2, Sec. 6, Art. 604 of the Rules for Classification of Steel Ships.

This Certificate is valid until 1st June, 2021

Issued at Changwon, Korea on 1st September, 2016



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No (ME20033345605) and certificate No.(CWN02485-WD001).



**KOREAN REGISTER**

*General Manager of  
Changwon Branch Office*

- Note** : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.  
2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.  
3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.  
4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

**Appendix 1**

**Product Description and/or Approval Condition**

**Certificate No :** CWN02485-WD001

**Date of Issue :** 1st September, 2016

Product Descriptions :

Flux cored wires with gas for semi-automatic arc welding

Brand	Grade	Dia. of Wire (mm)	Welding Position	Current (Polarity)	Shielding Gas
Dual Shield R-70	1YSG (C) H10 3YSG (C) H10	1.2 ~ 2.4	Flat	DC(+)	CO <sub>2</sub>
Dual Shield 7100	1YSG (C) H10 2YSG (C) H10	1.2 ~ 1.6	*(1)	DC(+)	CO <sub>2</sub>
Dual Shield 7100 Ultra	3YSG (C) H10	1.2 ~ 1.6	*(1)	DC(+)	CO <sub>2</sub>
Dual Shield II 81-K2	L3SG (C) H5 5Y40SG (C) H5	1.2 ~ 1.6	*(1)	DC(+)	CO <sub>2</sub>
Coreweld 111RB	2YSG (C) H10	1.2 ~ 1.6	*(1)	DC(+)	CO <sub>2</sub>

\* Remark :

(1) Butt & Fillet : Flat, Horizontal, Vertical-up & down and Overhead.

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Appendix 2

## Endorsement for Periodical Survey

Certificate No : CWN02485-WD001

Date of Issue : 1st September, 2016

Anniversary Date : 1st June

This is to certify that the product is in compliance with the relevant requirements to obtain /retain the Society's approval in accordance with Pt. 2, Ch. 2, Sec. 6, Art. 604 of the Rules for Classification of Steel Ships. and is valid until 1st June, 2017

### ■ Periodical Survey

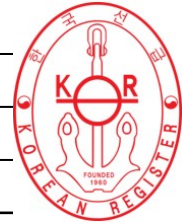
Periodical Survey has been carried out and the product is valid until

1st June, 2018

Branch(Office) : Changwon Branch Office

Date : 7th September, 2017

Surveyor : KIM Yongcheol



### ■ Periodical Survey

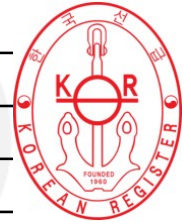
Periodical Survey has been carried out and the product is valid until

1st June, 2019

Branch(Office) : Changwon Branch Office

Date : 5th September, 2018

Surveyor : PARK Jihyun



### ■ Periodical Survey

Periodical Survey has been carried out and the product is valid until

1st June, 2020

Branch(Office) : Changwon Branch Office

Date : 17th September, 2019

Surveyor : CHO Chanjin



### ■ Periodical Survey

Periodical Survey has been carried out and the product is valid until

1st June, 2021

Branch(Office) : Changwon Branch Office

Date : 14th August, 2020

Surveyor : YOU Sangmin



*Note : The approval will be automatically suspended and the Certificate become invalid if not endorsed annually within 3 months after the anniversary date of this Certificate*