



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAW000033M**  
Revision No:  
**1**

## This is to certify:

**That the Flux Cored Wire/Gas combination**

with trade name  
**Coreweld 90-K2 / C1**

Manufacturer  
**ESAB Seah Corp.**  
**Changwon-si, Gyeongsangnam-do, Republic of Korea**

is found to comply with  
**DNV rules for classification – Ships**  
**DNV class programme DNV-CP-0069 – Type approval – Welding consumables**

with this approval

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| <b>Grade</b>             | <b>V Y50MS(H5)</b>                                 |
| <b>Current</b>           | <b>DC(+)</b>                                       |
| <b>Approved diameter</b> | <b>1.2 mm - 1.6 mm</b>                             |
| <b>Positions</b>         | <b>Flat PA (1G)</b>                                |
| <b>Remarks</b>           | <b>Also for fillet welding in position PB (2F)</b> |

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

Issued at **Hamburg** on **2022-12-06**

This Certificate is valid until **2027-07-27**.

DNV local unit: **Gimhae Station**

Approval Engineer: **Dietmar Liebich**



for **DNV**

Digitally Signed By: Hachmoeller, Ludger

Location: DNV Hamburg, Germany

Signing Date: 06.12.2022 , on behalf of

**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: WELD 1421a

Revision: 2022-09

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Page 1 of 1



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAW000033N**  
Revision No:  
**1**

## This is to certify:

That the Flux Cored Wire/Gas combination

with trade name  
**Coreweld 90-K2 / C1**

Manufacturer

**ESAB Seah Corp.**  
**Changwon-si, Gyeongsangnam-do, Republic of Korea**

is found to comply with

**DNV rules for classification – Ships**  
**DNV class programme DNV-CP-0069 – Type approval – Welding consumables**

with this approval

|                          |                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------|
| <b>Grade</b>             | <b>V Y50M(H5)</b>                                                                        |
| <b>Current</b>           | <b>DC(+)</b>                                                                             |
| <b>Approved diameter</b> | <b>1.2 mm - 1.6 mm</b>                                                                   |
| <b>Positions</b>         | <b>Flat PA (1G)</b>                                                                      |
| <b>Remarks</b>           | <b>Also for fillet welding in position PB (2F).<br/>For automatic multi-run welding.</b> |

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2022-12-06**

This Certificate is valid until **2027-07-26**.

DNV local unit: **Gimhae Station**

Approval Engineer: **Dietmar Liebich**



for **DNV**

Digitally Signed By: Hachmoeller, Ludger

Location: DNV Hamburg, Germany

Signing Date: 06.12.2022 , on behalf of

**Thorsten Lohmann**  
**Head of Section**

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Page 1 of 2