

TYPE APPROVAL CERTIFICATE

Certificate No:
TAW00001YG
Revision No:
1

This is to certify:

That the Wire/Flux/Backing Flux

with trade name
FAMILIARC US-43 (2x) / FAMILIARC PF-I50 / FAMILIARC PF-I50R

Manufacturer
Kobe Steel Ltd., Fukuchiyama Plant
Fukuchiyama, Kyoto Pref, Japan

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

with this approval

Grade	III Y
Current	AC
Approved diameter	4.8 - 6.4mm
Positions	PA (1G)
Remarks	SAW-one-side welding with two wires on backing flux (FAMILIARC PF-I50R) welded in single run. Max. thickness 20mm

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

Issued at **Hamburg** on **2021-09-20**

for **DNV**

This Certificate is valid until **2026-06-30**.

DNV local station: **Kobe**

Approval Engineer: **Enno Brück**

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.

