

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Wire/Flux combination**

with trade name

FAMILIARC US-36 (2x) / FAMILIARC PF-I55E / FAMILIARC PF-I50R

Manufacturer

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

is found to comply with

DNV GL rules for classification – Ships

with this approval

Grade	III Y
Current	AC, DC±
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.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.This Certificate is valid until **2021-06-30**.Issued at **Hamburg** on **2016-09-02**DNV GL local station: **Kobe**Approval Engineer: **Hans-Joachim Vogt**for **DNV GL**

Thorsten Lohmann
Head of Section

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