

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Wire/Flux combination

with trade name

FAMILIARC™ US-36 (3x) / FAMILIARC™ PF-I55E / FAMILIARC™ RR-2 / FAMILIARC™ PF-I50R

Manufacturer

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

is found to comply with

DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables

with this approval

Grade	III Y
Current	AC
Approved diameter	4.8 mm - 6.4 mm
Positions	Flat
Remarks	SAW-one-side welding with three wires plus metal powder (FAMILIARC™ RR-2) on backing flux (FAMILIARC™ PF-I50R) welded in one-run technique. Max. thickness 35 mm

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

This Certificate is valid until **2022-02-23**.

Issued at **Hamburg** on **2017-02-24**

DNV GL local station: **Kobe**

for **DNV GL**

Approval Engineer: **Hans-Joachim Vogt**

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Thorsten Lohmann
Head of Section

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