

TYPE APPROVAL CERTIFICATE

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

with trade name

FAMILIARC™ DW-Z100 / C1 / FB-B3

Manufacturer

**Kobe Steel, Ltd. Ibaraki Plant
Ibaraki Osaka Pref, Japan**

is found to comply with

DNV GL rules for classification – Ships

with this approval

Grade	II YMS
Current	DC(+)
Approved diameter	1.2 mm - 1.6 mm
Positions	Flat, Horizontal and Vertical upwards
Remarks	For one-side welding

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.This Certificate is valid until **2020-12-31**.Issued at **Høvik** on **2015-12-03**DNV GL local station: **Kobe**for **DNV GL**Approval Engineer: **Maxim Bobrov**

Hanne Anita Hjerpetjønn
Head of Section

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