Certificate No:
TAW00004ZZ

TYPE APPROVAL CERTIFICATE

This is to certify:

That the feedstock / gas combination

with trade name
3Dprint AM 70 / I1

Manufacturer

voestalpine Böhler Welding Germany GmbH

Hamm, **Germany**

is found to comply with

DNV GL rules for classification – Ships
DNV GL class programme DNVGL-CP-0291 – Type approval – Additive manufacturing feedstock

with this approval

Grade	**VL F-AM-SR-D690**
Current	**DC (-)**
Approved diameter	**1,0 - 1,2 mm**
Positions	**PA (1G)**
Remarks	**Plasma WAAM of solid wire, deposited metal min. 47J at -20°C.**

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

Issued at **Hamburg** on **2021-09-10**

This Certificate is valid until **2026-09-09**.

DNV local station: **Essen**

Approval Engineer: **Norbert Worm**
Ramesh Babu Govindaraj

for **DNV**

Thorsten Lohmann
Head of Section

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