

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000006S
Revision No:
1

This is to certify:

That

**Shockwave Metalworking Technologies B.V.
Schijf, Netherlands**

is an approved manufacturer of
Explosion Bonded Aluminium/Steel Transition Inserts

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

	Type A (TRIPLATE®)	Type B (INOX-TRIPLATE®)
Steel grade	VL A, VL B, VL D36 or equivalent	VL 316L or equivalent
Layer 1	Al 99.5 (Alloy 1050A)	Ti Grade 1
Layer 2	-	Al 99.5 (Alloy 1050A)
Top layer	VL 5083, VL 5086	VL 5083, VL 5086
Specification	Manufacturer's specifications	Manufacturer's specifications

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2018-07-06**

for **DNV GL**

This Certificate is valid until **2021-07-02**.

DNV GL local station: **Rotterdam**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

