

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

**Blanson Ltd.
Narborough LE, United Kingdom**

is an approved manufacturer of
acrylic plastic

in accordance with
DNV GL rules for classification – Underwater technology

and the following particulars:

Product	Acrylic Plastic Castings and Acrylic Windows
Approved manufacturing processes:	Casting, machining, surface finishing (grinding, polishing), annealing Spot cast repair of damaged windows prior to being placed in service Joining of acrylic castings by bonding (max. thickness 100mm) (only for membrane compressive stress)

The manufacturer has an appropriate quality-assurance system, which has been additionally subjected to a specific assessment for acrylic plastic in accordance with the European Pressure Equipment Directive 2014/68/EU in its valid version and has shown the capability for the manufacture of above mentioned products. Furthermore he has shown the capability of manufacturing acrylic material for windows and Type 1 custom castings according to the requirements of ASME PVHO-1-2012, Section 2, Article 3.

This certificate is valid under consideration of following remarks:

- **The certification according to ISO 9001 has to be maintained.**
- **For each batch of acrylic plastic to be made into windows, test samples have to be tested.**
- **The bonding process is described in the quality document Ref No QD-EX301.**
- **Spot cast repairs are described in the work instruction 2.-12.**
- **For each batch test certificates have to be issued covering all required terms of above mentioned applicable rules and standards**

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 **2016-11-08**

This Certificate is valid until **2019-07-31**.

DNV GL local station: **Hamburg**
Pressure & Underwater Technology

Approval Engineer: **Karsten D. Hagenah**



for **DNV GL**

Digitally Signed By: Schmidt, Matthias

Location: DNV GL Hamburg, Germany

Signing Date: 2016-11-09 on behalf of

Harald Pauli
Head of Section