

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Anchor**

with type designation(s)
D'Hone Special

Issued to

Duisburger Kettenfabrik & Hammerwerk H. d'Hone GmbH & Co.KG
Duisburg Nordrhein-Westfalen, Germany

is found to comply with
DNV GL rules for classification – Ships

Application :

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

This Certificate is valid until **2021-08-24**.

Issued at **Hamburg** on **2016-08-25**

DNV GL local station: **Essen**

Approval Engineer: **Ansgar Gorissen**

for **DNV GL**

on behalf of Andree Orth
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-002910-5**
Certificate No: **TAS00000MZ**

Product description

D'Hone Special, high holding power anchors with weight up to 11 000 kg.

Application/Limitation

1. Materials used are to be delivered with material certificates according to the above mentioned Rules.
2. Swivel shown in the drawing is covered by this certificate. If this swivel should be replaced by another type of swivel or shackle, this shackle/swivel used is to be delivered with DNV GL material/product certificates with dimensions and grades valid for ordinary anchors with corresponding anchor chain approved for each actual ship.
3. The manufacturer is required to have a DNV GL-Surveyor witness all important production including welding, NDT, etc. and tests as required.
4. Based on this witnessing, the Surveyor should personally stamp the units, sign the reports and issue the necessary certificates.
5. Welded shank as described in "Shank construction" may be used for anchors with weights above 2000 kg.

Type Approval documentation

Drawing No:	Title	Status	Stamped
	Ankerwirbel		
	Klippanker		
	Klippanker 350 kg		
	Klippanker 10575 kg	Approved	1993-08-02
	Shank Construction	Approved	2012-02-03

Tests carried out

Testing of anchors is to be carried out as described in rules for classification of ships Pt.3 Ch.11Sec.1.

Marking of product

Each anchor shall be marked according to rules for classification of ships Pt.3 Ch.11Sec.1.

Periodical assessment

For retention of the Type Approval, a DNVGL surveyor shall perform a survey after 2 years, to verify that the Type Approval is complied with.