



Certificate No:
TAS00003D7

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Lifting Gear

with type designation(s)
KB 280.12.1.4.E

Issued to

Ropeblock B.V.
Oldenzaal, Overijssel, Netherlands

is found to comply with

DNV standard DNV-ST-0378 – Offshore and platform lifting appliances, July 2019 (Amended October 2021)

Application :

Offshore cranes

Issued at **Høvik** on **2022-03-15**

This Certificate is valid until **2027-03-14**.

DNV local station: **Netherlands VMC**

for **DNV**

Approval Engineer: **Antonio Sendin Alvarez**

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Per Esvall
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Crane block with Ropeblock code KB 280.12.1.4.E
Maximum static load on hook: 4 tonnes (2 falls) / 2 tonnes (wire attached to becket)
Design dynamic factor (DAF): 1.3
Design temperature: -20°C

Application/Limitation

1. All materials are to be delivered with 3.1 certificates, documenting mechanical properties and chemical composition in accordance with the Type Approval documentation.
2. It is the operator's duty to ensure that real dynamic coefficient does not exceed the design dynamic coefficient.

Type Approval documentation

Tests carried out

Prototype testing has been found not relevant. In order to obtain a CG3 certificate, each crane block shall be tested according to the DNV-ST-0378 Table 14-2 and NDT to be carried out according to DNV-ST-0378 Sec.3

Marking of product

Each crane block is to be marked according to DNVGL-ST-0378 Sec.14.5.

Periodical assessment

For retention of the Type Approval, a DNV surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNV-CP-0338.

END OF CERTIFICATE