



Certificate No:
TAS00003KX

TYPE APPROVAL CERTIFICATE

This is to certify:

That the portable offshore units

with type designation(s)
T60 subsea basket

Issued to

Harper UK Ltd
Insch, Aberdeenshire, United Kingdom

is found to comply with

DNV standard DNV-ST-E273 – 2.7-3 Portable offshore units, April 2016 (Amended October 2021)

Application :

Max. gross mass (kg)	22000
Max. payload (kg)	17000
Max. sling leg angle	30

Issued at **Aberdeen** on **2022-11-03**

This Certificate is valid until **2027-11-02** .

for **DNV**

DNV local unit: **Aberdeen**

Approval Engineer: **Elisabeth Legg**

Satya Shyamala Kuppli
Team Lead - Containers

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.



Form code: TA 281

Revision: 2022-09

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Page 1 of 2

Product description

Maximum external dimensions (LxWxH)	: 6491 x 2436 x 1250 mm
Tare mass*	: 5000 kg
Type	: A
Operational Class	: R45-S30

*) Tare mass is to be confirmed by weighing. The sum of tare and payload shall never exceed the maximum gross mass stated on the front page of this certificate.

Application/Limitation

Shackle size	: 12 t
Resultant sling force (RSF)	: 249 kN
Minimum design temperature	: -20 °C

DNV surveyor shall witness important production and test events and issue Form no. MOP 201 "Certificate for Portable Offshore Unit" for each unit.

Deployment and recovery through the splash zone and subsea shall be managed and controlled in such a way as to avoid instability of the basket and its contents. Consideration should be given, but not limited to, lowering speed, filling speed, centre of gravity, variable centre of buoyancy and security of contents during deployment through the splash zone in particular.

It is assumed that recovery loads (relating to, for example, suction on the seabed, subsequent release, marine growth, accumulated oil/debris, entrained water etc.) will not exceed those adopted for the purposes of deployment. It is the end user's responsibility to ensure that operations are managed and controlled, such that design parameters are not exceeded in practice.

All free-flooding members and connections shall have appropriate and adequate corrosion protection applied both inside and out. The adequacy of long-term corrosion protection is considered out-with the scope of this approval. The unit shall be maintained in accordance with manufacturer instructions and subject to periodic inspections as per Table 8-1 in DNV-ST-E273, or at more regular intervals as deemed necessary.

Type Approval documentation

Tests carried out

Prototype tested in accordance with DNV-ST-E273.

Marking of product

Marking shall be carried out in accordance with DNV-ST-E273 section 6.

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNV-SE-0284 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonised with other surveys and audits carried out.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>