Certificate No:
TACC000001G

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Modular Pontoon System

with type designation(s)
VSP1250

Issued to
Van Schie B.V.
Mijdrecht, **Netherlands**

is found to comply with
DNV Standard DNV-ST-0342 - Craft, 2022

Application :

See next page.

Issued at **Høvik** on **2024-10-17**
This Certificate is valid until **2029-10-16** .
DNV local unit: **Netherlands VMC**

Approval Engineer: **Per Annar Sandaune**

for **DNV**

Thomas Revheim
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.

Conditions

Type certification means that the manufacturer has engaged himself to build pontoons in series identical to the prototype which the Society has inspected and found to be in accordance with the abovementioned standard. The production of the type certified pontoon is subject to surveillance by the Society by inspection. Pontoons of the certified type are to be equipped with an individual certificate to be issued upon product survey.

Product description

The VSP1250 is a modular pontoon which is equipped with a coupling system. By connecting several VSP1250 pontoons to each other, various platforms can be created for multiple purposes.

Pontoon type

Pontoon type identification number:	**655.04**
Application of standard:	**Requirements for decked craft**
Additional verification scope:	**ES-TRIN 2023 Ch.22** **DNV-RU-INV, Ship type notation Pontoon** (Requirements relevant for single pontoons only)

Particulars

Length:	**4.500 m**
Breadth:	**2.250 m**
Depth:	**1.250 m**
Deck area:	**10.125 m²**
Weight (incl. 6 coupling keys, welds and conservation):	**3740 kg**
Weight coupling pin:	**13.5 kg**
Waterplane area (WPA):	**9.9 m²**
Draught (empty) to underside bottom plate:	**0.378 m**
Draught (empty) to underside coupling:	**0.403 m**
Number of couplings:	**12**
Number of watertight compartments:	**2**
Construction materials pontoon:	**S355ML** **S355J2+N**
Construction materials coupling pin	**S460ML** **S355J2+N**
Construction materials coupling nock	**S355J2+N**

Application/Limitation

This Type Approval certificate is not valid for designs, components, equipment, systems or products which are subject to classification by DNV.

The certification is based on the assumption that the pontoons will be handled in a seamanlike manner as stipulated in the standard. Maximum number of persons on a single pontoon during assembly of modular systems is 2.

The type certified pontoon is considered in compliance with relevant requirements laid down in the EU Directive (EU) 2016/1629 as “floating equipment”. It is also considered in compliance with relevant requirements in DNV Rules for classification: Inland navigation vessels, based on the ship type notation Pontoon (single pontoons only).

Assembled modular pontoon systems need separate certification from relevant governing authority if the system is used as “floating equipment”. If the system is used as “floating establishment” or “floating object” separate certification is not required. The terms “floating equipment”, “floating establishment” and “floating object” are defined in the abovementioned EU Directive.

Limiting loads

Max. deck load	125 kN/m^2 (12.5 tonnes/m^2)
Max. concentrated deck load (contact surface 300mm x 300mm)	200 kN
Max. force coupling pin / coupling	250 kN
Max. internal moment coupling	295 kNm
Max. shear force coupling nock / coupling nock recess	357 kN
Max. pressure bottom plate	12.25 kN/m^2
Max. bending moment (+My) pontoon (critical buckling load, deck structure)	8440 kNm
Max. bending moment -My pontoon (critical buckling load, bottom structure)	3622 kNm
Max. torsional moment pontoon (critical buckling load)	6680 kNm
Max. shear force pontoon	4437 kN
Max. force corner block	221 kN

Type Approval documentation

Tests carried out

Load test to validate the design loads was carried out on the 12th June 2024 at Van Schies' yard in Mijdrecht, the Netherlands and witnessed by DNV surveyor. Reference is made to Doc. No. VSP1250_DNV_TAStruc-001 rev. B, “Design load test VSP1250 pontoon”, and corresponding approval letter M-SA-SP/PASAN/262.1-039866-J-5 dated 2024-10-04.

Assembled modular pontoon systems need separate certification from relevant governing authority if the system is used as “floating equipment”.

Marking of product

The product is to be indelibly marked with serial number and type designation.

Periodical assessment

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.dnvgl.com