



Certificate No:  
**TACC000001B**

# TYPE APPROVAL CERTIFICATE

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## This is to certify:

**That the Modular pontoon system**

with type designation(s)

**Van Schie Container Pontoon type CP6**

**Van Schie Container Pontoon type CP12**

Issued to

**Van Schie B.V.**

**Mijdrecht, Netherlands**

is found to comply with

**DNV Standard DNV-ST-0342 - Craft, 2022**

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## Application :

**See next page.**

Issued at **Høvik** on **2023-05-08**

This Certificate is valid until **2028-05-07** .

DNV local unit: **Netherlands VMC**

for **DNV**

Approval Engineer: **Per Annar Sandaune**

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**Thomas Revheim**  
**Head of Section**

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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 CP12 and CP6 are modular pontoons which are equipped with a coupling system. By connecting several pontoons to each other, various platforms can be created for multiple purposes.

## Pontoon type

Pontoon type identification number:	<b>655.02 (CP6), 655.03 (CP12)</b>
Application of standard:	<b>Requirements for decked craft</b>
Additional verification scope:	<b>ES-TRIN 2021/1 Ch.22</b> <b>DNV-RU-INV (Requirements relevant for single pontoons only)</b>

Particulars	CP6	CP12
Length:	<b>5.980 m</b>	<b>11.980 m</b>
Breadth:	<b>2.480 m</b>	<b>2.480 m</b>
Depth:	<b>1.502 m</b>	<b>1.502 m</b>
Weight (incl. conservation):	<b>6350 kg</b>	<b>10800 kg</b>
Water plane area (WPA)	<b>13.0343 m<sup>2</sup></b>	<b>27.7085 m<sup>2</sup></b>
Draught (empty)	<b>0.487 m</b>	<b>0.390 m</b>
Number of watertight compartments:	<b>2</b>	<b>3</b>
Material:	<b>S235JR</b>	<b>S235JR</b>

## Coupling system

Weight coupling pin:	<b>117.5 kg</b>
Weight single coupling block	<b>297 kg</b>
Weight double coupling block	<b>550 kg</b>
Number of couplings (per pontoon):	<b>8</b>
Material:	<b>S235JR</b>

## 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 approved pontoons are considered in compliance with relevant requirements laid down in the EU Directive (EU) 2016/1629 as "floating equipment", as well as relevant requirements in DNV Rules for classification: Inland navigation vessels, based on the ship type notation *Pontoon*, and considered relevant for 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	122.63 kN/m <sup>2</sup> (12.5 tonnes/m <sup>2</sup> )
Max. force coupling single pin x,y direction	500 kN
Max. force coupling 2 pins x,y direction	700 kN
Max. internal moment coupling single pin x,y direction	600 kNm
Max. internal moment coupling 2 pins x,y direction	840 kNm
Max. force coupling z direction / coupling block	250 kN
Max. pressure bottom plate	14.062 kN/m <sup>2</sup>
Max. bending moment +M <sub>y</sub> pontoon (compression in deck structure)	8774 kNm
Max. bending moment -M <sub>y</sub> pontoon (compression in bottom structure)	4466 kNm
Max. torsional moment pontoon	5984 kNm
Max. shear force pontoon	3536 kN
Max. force cornerblock	250 kN

## Type Approval documentation



Job Id: **262.1-037597-1**  
Certificate No: **TACC000001B**

### **Tests carried out**

No separate load tests have been performed on a modular pontoon assembly. Van Schie project number OV21-0649 with relevant strength calculations have been presented to DNV to verify that connection loads are within the design limits given for each pontoon. Reference is made to letter M-SA-SP/PASAN/262.1-037597-J-17 dated 2023-05-05.

### **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.dnv.com>