

**POTVRDA O TIPNOM ODOBRENJU**
TYPE APPROVAL CERTIFICATEBr /No **01-012763/019334**

Potvrđuje se da je ovaj proizvod, u skladu s Pravilima za klasifikaciju brodova, Dio 1. - Opći propisi, Odjeljak 3. - Tipno odobrenje proizvoda, odobren za ugradnju na brodove i postrojenja pod nadzorom Hrvatskog registra brodova.

This is to certify that this product, on the basis of the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products, is approved for use on board ships and installations under supervision of the Croatian Register of Shipping.

TIP I OPIS PROIZVODA:

TYPE AND DESCRIPTION OF PRODUCT:

PLUTAJUĆI PONTON TIP M4312HDS, ZA GATOVE U MARINAMA*FLOATING PONTOON TYPE M4312HDS, FOR BERTHS IN MARINAS*PROIZVOĐAČ:
MANUFACTURER:**MARINETEK NCP d.o.o.**Obala Jerka Šižgorića 1
22000 ŠIBENIK
HRVATSKA • CROATIA**PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:**

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

Pravila za klasifikaciju brodova; Tehnička okružnica HRB-a QC-T-191.*Rules for the classification of ships; CRS Technical Circular QC-T-191.***DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEĐINI.**

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

ODOBRENJE VRIJEDI DO:
APPROVAL IS VALID UNTIL:**2022-06-26**Mjesto i datum: Split, 2018-05-08
Place and date:M.P.
(Seal)

Marinko Popović, dipl.ing.

NAPOMENA: Ova potvrda nije valjana ako se proizvod ili način njegove proizvodnje promijenio u odnosu na tipno ispitani proizvod. Proizvođač treba obavijestiti Hrvatski registar brodova o bilo kojoj izmjeni na proizvodu kako bi ishodio valjanu potvrdu.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

PODROBNIJI OPIS PROIZVODA:*DETAILED PRODUCT DESCRIPTION:*

Plutajući ponton tip M4312HDS je izrađen od armiranog betona čvrstoće 45 N/mm² ojačanog plastičnim vlaknima. Jezgra pontona je ekspanzirani polistiren gustoće 15 kg/m³. Čelična armatura je pocinčana vrućom galvanizacijom.
Floating pontoon type M4312HDS is made of steel reinforced plastic fibre concrete with strength 45 N/mm². Pontoon core is expanded polystyrene with density 15 kg/m³. Reinforcement is fully hot galvanised steel.

Dimenzije pontona:*Pontoon dimensions:*

duljina/length 11.92 m	širina (beton)/breadth (concrete) 4 m
širina (preko svega)/breath (overall) 4.3 m	visina/height 0.85 m
nadvođe/freeboard 0.5 m	čvrstoća spoja/joint strenght 2x322 KN

PODRUČJE PRIMJENE / POSEBNI GRANIČNI UVJETI:*APPLICATION / LIMITATIONS:*

- **Značajna visina vala do 0.5 m**
- **Vez plovila duljine do 18 m**
- *Significant wave height up to 0.5 m*
- *Mooring of crafts length up to 18 m*

DOKUMENTACIJA ZA TIPNO ODOBRENJE:*TYPE APPROVAL DOCUMENTATION:*

Tehnički opis, tehnologija izrade, proračun stabiliteta i uzdužne čvrstoće pontona M4312HDS.

Nacrt "Dimensions and equipment" br. 10431230-300.

Nacrt "Anchorshafts and lifting anchors" br. 10431230-304.

Nacrt "Heavy duty pontoons installation/fixing sets" br. 1030121 izm.2.

Nacrt "Reinforcement" br. 10431230-301.

Nacrt "Mesh reinforcement" br. 10431230-303.

Nacrt "Reinforcement details" br. 10431230-302.

Nacrt "Reinforcement bars" br. 10431230 (list 1A i 2A).

Izveštaj o ispitivanju pontona od 2014.06.24.

Floating pontoon M4312HDS Technical description, Fabrication Technology, Stability Calculations and Longitudinal Tensile Strength Calculations.

Drawing "Dimensions and equipment" No. 10431230-300.

Drawing "Anchorshafts and lifting anchors" No. 10431230-304.

Drawing "Heavy duty pontoons installation/fixing sets" No. 1030121 Rev.2.

Drawing "Reinforcement" No. 10431230-301.

Drawing "Mesh reinforcement" No. 10431230-303.

Drawing "Reinforcement details" No. 10431230-302.

Drawing "Reinforcement bars" No. 10431230 (sheet 1A and 2A).

Pontoon test report dated 2014.06.24.

OZNAČAVANJE PROIZVODA:*MARKING OF PRODUCT:*

Proizvod se mora označiti imenom proizvođača, oznakom pontona, serijskim brojem i žigom HRB.

The product shall be marked with name of manufacturer, type of pontoon, serial number and CRS stamp.

UVJETI ZA CERTIFIKACIJU:*CONDITIONS FOR CERTIFICATION:*

Hrvatski registar brodova izdaje posebnu potvrdu o nadzoru za svaku pojedinu proizvedenu količinu (HRB obrazac QF-PS-25).

Croatian Register of Shipping shall issue particular certificate on supervision for each manufactured quantity (CRS form QF-PS-25).