



Potvrda br. **01-014494/0110812**  
Certificate No.

## POTVRDA O TIPNOM ODOBRENJU TYPE APPROVAL CERTIFICATE

Potvrđuje se da ovaj proizvod udovoljava Pravilima za klasifikaciju brodova, Dio 1. - Opći propisi, Odjeljak 3. - Tipno odobrenje proizvoda.  
*This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.*

**TIP I OPIS PROIZVODA:**  
*TYPE AND DESCRIPTION OF PRODUCT:*

### PLUTAJUĆI PONTON TIP M3320PE ZA GATOVE U MARINAMA *FLOATING PONTOON TYPE M3320PE, FOR BERTHS IN MARINAS*

**PROIZVOĐAČ:**  
*MANUFACTURER:*

### MARINETEK ADRIATIC d.o.o.

Draga 2  
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 VRLJEDI DO: 2024-12-17**  
*APPROVAL IS VALID UNTIL:*

**Mjesto i datum:** Split, 2020-12-17  
*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.*

**PODROBNJI OPIS PROIZVODA:**  
*DETAILED PRODUCT DESCRIPTION:*

Plutajući ponton tip M3320PE je izrađen od armiranog beton čvrstoće 45 N/mm<sup>2</sup> ojačanog plastičnim vlaknima. Jezgra pontona je ekspanzirani polistiren gustoće 15 kg/m<sup>3</sup>. Čelična armatura je pocinčana vrućom galvanizacijom.

*Floating pontoon type M3320PE is made of steel reinforced plastic fibre concrete with strength 45 N/mm<sup>2</sup>. Pontoon core is expanded polystyrene with density 15 kg/m<sup>3</sup>. Reinforcement is fully hot galvanized steel.*

**Dimenzije pontona:**  
*Pontoon dimensions:*

duljina/length 19.90 m  
širina (preko svega) /breath (overall) 3.3 m  
nadvođe/freeboard 0.56 m

širina (beton) /breadth (concrete) 3.0 m  
visina/height 1.0 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 20 m
- Significant wave height up to 0.5 m
- Mooring of crafts length up to 20 m

**DOKUMENTACIJA ZA TIPNO ODOBRENJE:**  
*TYPE APPROVAL DOCUMENTATION:*

Tehnički opis, tehnologija izrade, proračun stabiliteta i uzdužne čvrstoće pontona M3320PE.

Nacrt "Dimensions and equipment" br. 300A-M3320PE.

Nacrt "Reinforcement bars" br. List 1-M3320PE i List 2-M3320PE.

Nacrt "Reinforcement" br. 301-M3320PE.

Nacrt "Reinforcement details" br. 302-M3320PE.

Nacrt "Mesh reinforcement" br. 303-M3320PE.

Nacrt "Steel parts" br. 310-M3320PE.

Izvještaj o ispitivanju pontona od 2020.12.02.

*Floating pontoon M3320PE Technical description, Fabrication Technology, Stability Calculations and Longitudinal Tensile Strength Calculations.*

*Drawing "Dimensions and equipment" No. 300A-M3320PE.*

*Drawing "Reinforcement bars" No. Sheet1-M3320PE and Sheet2-M3320PE*

*Drawing "Reinforcement" No. 301-M3320PE.*

*Drawing "Reinforcement details" No. 302-M3320PE.*

*Drawing "Mesh reinforcement" No. 303-M3320PE.*

*Drawing "Steel parts" No. 310-M3320PE.*

*Pontoon test report dated 202012.02.*

**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).*