



Potvrda br. **01-017404/0114165**  
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-VALOBRAN – TIP M5320BRK ZA GATOVE U  
MARINAMA**

*FLOATING PONTOON BREAKWATER - TYPE M5320BRK, 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 POLEDINI.  
*FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.*

ODOBRENJE VRLJEDI DO: **2029-08-01**  
*APPROVAL IS VALID UNTIL:*

Mjesto i datum: Split, 2026-01-09  
*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-valobran tip M5320BRK 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 – breakwater type M5320BRK 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) 5.3 m**

**nadvode/ freeboard 0.6 m**

**širina (beton)/ breadth (concrete) 5.0 m**

**visina/ height 1.8 m**

**čvrstoća spoja/ joint strenght 2x812kN**

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

- **Značajna visina vala do 1.3 m**
- **Vez plovila duljine do 50 m**
- *Significant wave height up to 1.3 m*
- *Mooring of crafts length up to 50 m*

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

**Tehnički opis, tehnologija izrade, proračun stabiliteta i uzdužne čvrstoće valobrana M5320BRK.**

**Nacrt „Fixing set installation, M5320BRK“ br. 10013176, izm1.**

**Nacrt „Fixing set 5320BRK (56 mm)“ br. 10005636, izm.3.**

**Nacrt „Floating breakwater details rubber, 325x325x210“ br. 120407JBo01**

**Nacrt „Dimensions and Equipment“ br. 10531600.300**

**Nacrt „Reinforcement“ br. 10532000.301**

**Nacrt „Mesh Reinforcement“ br. 10532000.303**

**Nacrt „Reinforcement Details“ br. 10532000.302**

**Izveštaj o laboratorijskom ispitivanju valobrana, srpanj 2021. Građevinski fakultet**

*Technical description, Fabrication technology, Stability calculations and Longitudinal Tensile Strength Calculation of breakwater M5320BRK.*

*Drawing “Fixing set installation, M5320BRK“ br. 10013176, Rev..*

*Drawing “Fixing set 5320BRK (56 mm)“ br. 10005636, Rev.3.*

*Drawing “Floating breakwater details rubber, 325x325x210“ No.120407JBo01.*

*Drawing “Dimensions and Equipment“ No. 10531600.300*

*Drawing “Reinforcement“ No. 10532000.301*

*Drawing “Mesh Reinforcement“ No. 10532000.303.*

*Drawing “Reinforcement Details“ No. 10532000.302.*

*Breakwater laboratory test report dated 2021, July. Faculty of Civil Engineering, Zagreb*

**OZNAČAVANJE PROIZVODA:**  
*MARKING OF PRODUCT:*

**Proizvod se mora označiti imenom proizvođača, oznakom proizvoda te žigom HRB.**

*The product shall be marked with name of manufacturer, type designation 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).*