CROATIAN REGISTER OF SHIPPING

Potvrda br. **01-017821**/*0114651*
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 M6320BRKH, ZA GATOVE U MARINAMA

FLOATING PONTOON BREAKWATER TYPE M6320BRKH, 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 VRIJEDI DO: **2030-10-09**
APPROVAL IS VALID UNTIL:

Mjesto i datum: Split, 2026-09-11
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.

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PODROBNIJI OPIS PROIZVODA:
DETAILED PRODUCT DESCRIPTION:

Plutajući ponton-valobran tip M6320BRKH je izrađen od armiranog betona čvrstoće 45 N/mm^2 ojačanog plastičnim vlaknima. Jezgra pontona je ekspandirani polistiren gustoće 15 kg/m^3. Čelična armatura je pocinčana vrućom galvanizacijom.
Floating pontoon-breakwater type M6320BRKH is made of steel reinforced plastic fibre concrete with strength 45 N/mm^2. Pontoon core is expanded polystyrene with density 15 kg/m^3. Reinforcement is fully hot galvanised steel.

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

duljina/*length* **19.90 m**
širina (preko svega)/*breath (overall*) **6.3 m**
nadvođe/*freeboard* **0.74 m**
širina (beton)/*breadth (concrete*) **6.0 m**
visina/*height* **2.4 m**
čvrstoća spoja/*joint strength* **2x1160 kN**

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 pontona/proračun čvrstoće spoja pontona M6320BRKH;
Nacrt "Dimensions and Equipment" br. 6345/P30732–300;
Nacrt "Reinforcement" br. 6345/P30732–301;
Nacrt "Reinforcement Details" br. 6345/P30732–302.
Izvještaj o ispitivanju pontona od 2018-07-06.
Izvještaj o ispitivanju Brodarskog instituta "Break-water attenuation capacity" br.6584-M od 2017-08 (August).

Floating pontoon M6320BRKH Technical description, Fabrication Technology, Stability Calculations and Longitudinal Tensile Strength Calculations/Joint force Calculations;
Drawing "Dimensions and Equipment" No. 6345/P30732–300;
Drawing "Reinforcement" No. 6345/P30732–301;
Drawing "Reinforcement Details" No. 6345/P30732–302.
Pontoon Test report dated 2018-07-06.
Test Report "Brodarski institut" "Break-water attenuation capacity" No.6584-M" dated 2017-08 (August).

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).