



CROATIAN REGISTER OF SHIPPING

Potvrda br. **01-017512/0114217**
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:

BITVA ZA PRIVEZ UŽETA TIP MY15
BOLLARD FOR MOORING ROPE TYPE MY15

Tip: Aluminijska bitva Mega Yacht Bollard 15
Type: Aluminum Bollard Mega Yacht Bollard 15

PROIZVOĐAČ:
MANUFACTURER:

MARINETEK ADRIATIC d.o.o.
Draga 2
22000 ŠIBENIK
HRVATSKA • CROATIA

PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:
THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

HRB: Pravila za klasifikaciju brodova, Dio 3. – Oprema trupa.
ISO standard 13975:2012(E).

CRS: Rules for the classification of ships, Part 3. – Hull equipment.
ISO standard 13975:2012(E).

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: 2030-03-17
APPROVAL IS VALID UNTIL:

Mjesto i datum: Split, 2026-03-17
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:

Bitva se izrađuje postupkom gravitacijskog lijeva u kokile od aluminijske legure HRN EN 1706 AC 51100 (AlMg3) K F. Legura AlMg3 otporna je na morsku koroziju. Bitva je projektirana da izdrži prekidnu silu užeta za privez od 150 kN.

Bitva je visoka 181 mm, a dimenzije postolja su 570 mm x 200 mm x 23.7 mm. Debljina postolja ispod pričvrsnog vijka je 10,7 mm. Geometrijska točnost postiže se CNC strojnom obradom, Priprema površine vrši se kontroliranim sačmarenjem, a finalna površinska zaštita je dekorativna anodizacija (eloksiranje).

The bollard is made by gravity casting in aluminum alloy HRN EN 1706 AC 51100 (AlMg3) K F. The AlMg3 alloy is resistant to marine corrosion. The bollard is designed to withstand the breaking force of a mooring rope of 150 kN. The bollard is 181 mm high, and the dimensions of the base are 570 mm x 200 mm x 23.7 mm. The thickness of the stand below the mounting screw is 10.7 mm. Geometric accuracy is achieved by CNC processing, surface preparation is performed by controlled shot blasting, and the final surface protection is decorative anodizing.

PODRUČJE PRIMJENE / POSEBNI GRANIČNI UVJETI:
APPLICATION / LIMITATIONS:

Palubna oprema za privez užeta u marinama, komercijalnim lukama i većim privatnim vezovima. Ugradnja bitve mora biti u skladu sa preporukom proizvođača.

*Deck equipment for mooring ropes in marinas, commercial ports and larger private berths.
The installation of the bollard must be in accordance with the manufacturer's recommendations.*

DOKUMENTACIJA ZA TIPNO ODOBRENJE:
TYPE APPROVAL DOCUMENTATION:

**Tip: Tehnička dokumentacija (proračun i nacrti bitve) i plan ispitivanja.
Izveštaj HRB-a o ispitivanju prototipa bitve Mega Yacht Bollard 15 br.20-59351/0114217, 2026-02-19.
Izveštaj o ispitivanju mehaničkih svojstava osnovnog materijala br.2632-27-06-25 S.A.V. S.p.A.**

*Type: Technical documentation (calculation and drawings of bollards) and testing plan.
CRS test report for prototype bollard and chock testing No. 20-59351/0114217 dated 2026-02-19.
CRS mechanical properties test report of material No. 2632-27-06-25 S.A.V. S.p.A.*

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).