

# TM 505002L Double Bollard TM shape





Case a): The bollard is designed to whitstand the loading imposed by two mooring ropes each breaking load P, wound in figure-of-eight fashion (about five turns per bitt).

NOTE - in normal mooring practice only one mooring rope is fitted per bollard.

Case b): The bollard is designed to whitstand the loading imposed by a single rope (using a soft loop) having a breaking load of 2 P mounted at maximum distance of 1.2 DN above the base plate

Breaking load: P = 1.25 x SWLMBL=SWL

DN	Markings: SWL (kN)	Dimension			
		H1	а	b	L
		(mm)	(mm)	(mm)	(mm)
200	166	445	1060	410	650
250	209	537	1210	460	750
300	296	642	1450	550	900
350	445*	705	1610	610	1000
400	628**	775	1770	670	1100
	873				
	977				
500	547	908	2100	800	1300
	735				
	883***				
	977				
600	912	990	2350	900	1450
	1128				

Constructed in compliance with IACS UR A2 (Rev.3) Allowable stresses 100/60% of min yield point

Suitable strengthening at deck/shell bulwark by the yard

Supporting hull structure and reinforcement beneath to be arranged by the yard to the satisfaction by the classification society.

### Marking:

S.W.L. XXXX kN to be marked in welding at the top of the Base.

#### Material:

S355 J2 - EN 10025 or equivalent

#### **Certification:**

3.1 acc. to EN 10204: 2004

#### Surface treatment:

SA2.5 + 25 mym Hempel's shopprimer ZS 15890, grey

Type A: Without Dividers Type B: With Dividers

Order: TM 505002L-TM-DN-Type example: TM 505002L- TM-500 Type B

\*) Comply with the Panama canal 2004 regulations for accompanying bitt for single chock load of 45,36 t (445 kN). \*\*) Comply wiyh the Panama canal 2004 regulations for accompanying heavy bitt for double chock load of 64 t (628 kN).

\*\*\*) Comply with the Panama canal 2014 regulations Panamax Plus and New Panamax for accompanying

heavy bitt for double chock load of 90 t (883 kN).

## **STANDARD**

#### Tech-Marine Equipment ApS TM 505002L Date Checked Revision Esrumvej 421 - DK 3080 Tikøb Phone +45 4970 4395 Fax. +45 4970 1769 Double Bollard TM shape 22-01-2016 Ι Existing law protects TMs rights of possesion to this drawing. The design or the drawing must not, without permission of TM be published, copied, reproduced, Sheet 2 of 2 manufactured or exploited in any other way.