



TECHNOLOGY | QUALITY | VALUE

Bollard working load

Shiptypes and dimensions are constantly changing, so choosing the right bollard that perform safety under a range of conditions is very important.

In addition, the bollard capacity is depending on external factors such as wind, wave action and streams, as well as the quay- or jetty construction and mooring plan.

The chart below gives an indication of the required working load, that can be used to choose the right type of bollard.



Please contact Eurotech Benelux for advice or up-to-date technical bollard calculation.

TYPE OF WATERWAYS	DISPLACEMENT (t)	CLASSES OF NAVIGABLES WATERWAYS	BOLLARD WORKING LOAD ¹
Inland waterways	250 - 400	I	150 kN
	400 - 650	II	150 kN
	650 - 1.000	III	200 kN
	1.000 - 1.500	IV	200 kN
	1.500 - 3.000	Va	250 kN
	3.200 - 6.000	Vb	250 kN
	3.200 - 6.000	VIa	300 kN
	6.400 - 12.000	VIb	500 kN
	9.600 - 18.000	VIc	500/600 kN
14.500 - 27.000	VII	600/750 kN	
Deep sea	30.000 - 50.000	-	800 kN
	50.000 - 100.000	-	1000 kN
	100.000 - 200.000	-	1500 kN
	>200.000 (please contact us)	-	≥ 2000 kN

1. EAU 2004: Recommendations of the Committee for Waterfront Structures Harbours and Waterways
CUR 211NL-2003: Handbook Quay Walls

The content of this table is providing for information only. E&OE.