

Solid polyurethane fender



As an alternative to pneumatic rubber buoys, the buoy can meet best quality and performance demands. The manufacturing process of Foam Filled Buoys allows for any size to be constructed and selecting the appropriate grade of foam core and elastomeric skin means the performance of a foam filled buoy can be precisely gauged to meet specific specification requirements.

It is a kind of constructive buoy with polyurea materials as its outer protective layer and EVA foam core forming the resilient inner part. The LuHang Foam Filled Buoys are constructed of three parts each providing an important function in the construction and lifespan of the buoy. The three parts are closed cell EVA foam, outer rubber + nylon cord fabrics. And Polyurea spraying coat.

There are two types of Foam Filled Buoys, one is CTN Type with chain & tyre net and the other one is Sling Type without chain & tyre net.

Features:

1. High energy absorption with relatively low reaction force. Compared to the typical pneumatic rubber buoys, the same sized Foam Filled Buoys absorb up to 40% more energy. Additionally, the Foam Filled Buoy will not fail if punctured.
2. Foam Filled Buoys can be used in any tough conditions, providing tough, heavy-duty protection for ship-to-ship, ship-to-dock and ship berthing and mooring applications.
3. Easy to maintenance. As the internal construction consists of a solid heat laminated foam core, there is no need to maintain air pressure, inflation, or relief valves as with pneumatic rubber buoys.

4.Tough, nylon filament reinforced polyurea/polyurethane skin,optional Kevlar reinforcement.

The following performance parameters of the "standard" EVA foam filled buoys:

Size	Deflection 60%		Weight($\pm 3\%$)
	Reaction force(KN)	Energy absorption(KJ)	(KG)
300x500	43	5	7
400x800	54	7	17
500x1000	89	32	23
700x1500	129	24	85
1000x1500	190	62	175
1000x2000	298	80	240
1200x2000	335	110	350
1350x2500	460	173	550
1500x3000	615	263	770
1700x3000	678	330	1075
2000x3500	940	535	1530
2000x4000	1095	630	1980
2000x4500	1250	690	2500
2300x4000	1380	735	2885
2300x5500	1860	1133	3480
2500x4000	1455	980	3390
2500x5500	1960	1230	3985
3000x5000	2180	1755	5350
3000x6000	2455	1960	6680
3300x4500	1960	1760	5750
3300x6500	3075	2830	8400
3500x7000	3975	3162	10100

- 1.The above performance parameters measured are based on static state;
- 2.Above reaction force and energy absorption tolerance of $\pm 10\%$;