

Steel spar buoy system components

Components	Description	Size	Material	Minimum breaking strength
1	Safety shackle with stainless steel (SS) cotter pin	25 mm 1 in	Hot-dip galvanised low-carbon steel (Hdg-Ics)	25,000 kg 56,000 lb
2	Safety shackle with SS cotter pin	16 mm 5/8 in	Hdg-Ics	10,000 kg 22,000 lb
3	Long-link chain	15 m of 13 mm 50 ft of 1/2 in	Hdg-Ics	9,000 kg 19,000 lb
4	Safety shackle with SS cotter pin	16 mm 5/8 in	Hdg-Ics	10,000 kg 22,000 lb
5	Forged swivel (eye and eye)	22 mm 7/8 in	Hdg-Ics	22,700 kg 50,000 lb
6	Safety shackle with SS cotter pin	22 mm 7/8 in	Hdg-Ics	19,500 kg 49,000 lb
7	Rope connector (Samson; size 3)	19 mm 3/4 in	Nylite	
8	Sinking rope, 8-12 strand, plaited	19 mm 3/4 in 47 kg/220 m 14.3 lb/100 ft	Nylon	6,400 kg 14,200 lb
9	Buoyant rope, 8-12 strand, plaited	22 mm 7/8 in 45 kg/220 m 13.7 lb/100 ft	Polypropylene	5,200 kg 11,500 lb
10	Rope connector (Samson; size 4)	22 mm 7/8 in	Nylite	
11	Safety shackle with SS cotter pin	25 mm 1 in	Hdg-Ics	25,000 kg 56,000 lb
12	Safety shackle with SS cotter pin	19 mm 3/4 in	Hdg-Ics	14,000 kg 31,000 lb
13	Forged swivel (eye and eye)	19 mm 3/4 in	Hdg-Ics	16,200 kg 40,000 lb
14	Safety shackle with SS cotter pin	19 mm 3/4 in	Hdg-Ics	14,000 kg 31,000 lb
15	Long-link chain	15 m of 19 mm 45 ft of 3/4 in	Hdg-Ics	14,000 kg 31,000 lb
16	Safety shackle with SS cotter pin	22 mm 7/8 in	Hdg-Ics	19,500 kg 49,000 lb
17	Anchor	900 kg 2000 lb	Concrete block	Compress. strength 3,000 psi

Steel spar buoy FAD system mooring arrangement

