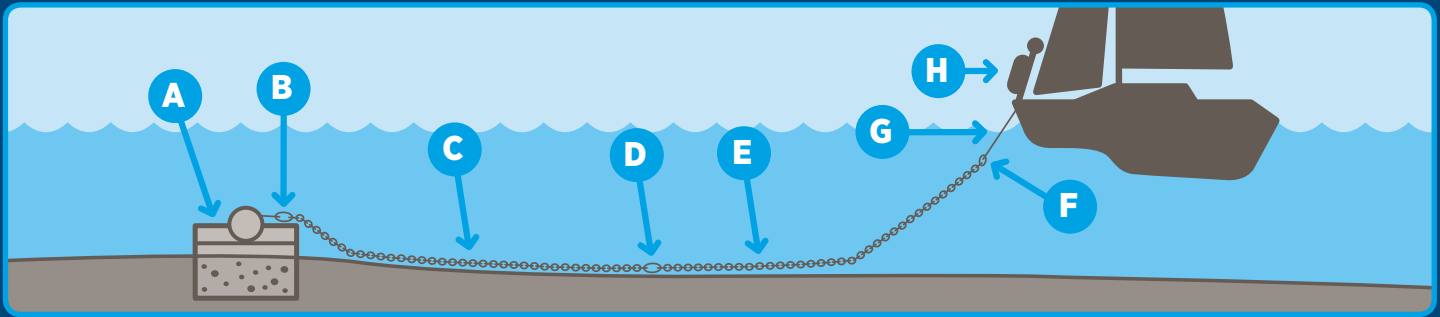


Mooring Specifications 2016

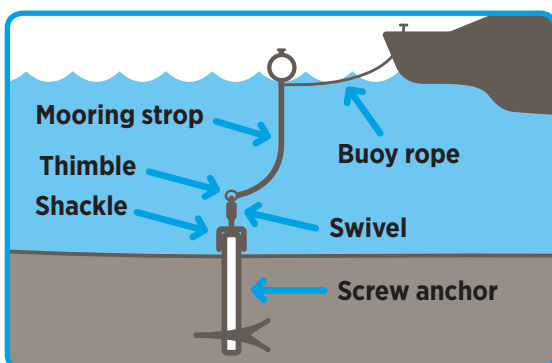


BLOCK ANCHORS													
Vessel (m)	A	B		C		D		E		F		G	H
Length	Mooring block weight (air)	Shackle		Bottom chain		Shackle		Intermediate chain		Swivel		Top chain or rope	Buoy rope
			Max 20% wear		Max 20% wear		Max 20% wear		Max 20% wear		Max 20% wear		
≤ 7	1 T	32 mm 5 T (SWL)	25.6 mm	5m x 32mm	25.6 mm	22 mm 2 T (SWL)	17.6 mm	16mm 1.5 x depth at high water 9 T (BL)	12.8 mm	22mm 5 T (SWL)	17.6 mm	Min 2.5m x 12mm chain 20-24mm rope 6 - 9 T (BL)	Min 12 mm
7.1 - 9	2 T	32 mm 5 T (SWL)	25.6 mm	5m x 32mm	25.6 mm	22 mm 2 T (SWL)	17.6 mm	16mm 1.5 x depth at high water 9 T (BL)	12.8 mm	22mm 5 T (SWL)	17.6 mm	Min 2.5m x 16mm (galv) chain 24-32mm rope 9 - 15 T (BL)	Min 12 mm
9.1 - 12	2 T	38 mm 7 T (SWL)	30.4 mm	5m x 38mm	30.4 mm	25 mm 3 T (SWL)	20 mm	16mm* 1.5 x depth at high water 9 - 12 T (BL)	12.8 mm	25mm 7 T (SWL)	20 mm	Min 2.5m x 16mm (galv) chain 24-32mm rope 9 - 15 T (BL)	Min 12 mm
12.1 - 15	4 T	38 mm 7 T (SWL)	30.4 mm	5m x 50mm	40 mm	28 mm 3.7 T (SWL)	22.4 mm	24mm 1.5 x depth at high water 20 T (BL)	19.2 mm	28mm 9 T (SWL)	22.4 mm	16mm chain (galv) 32mm rope 15 T (BL)	Min 12 mm
>15	Subject to specific engineering assessment												

*9.1-12m vessels over 8 tonne require 20mm intermediate chain

SWL = Safe Working Load BL = Breaking Load T = Tonne

MOORING STROP SYSTEM							
Vessel length (m)	Anchor system	Swivel	Shackle	Thimble	Strop rating	Length of strop	Buoy rope
≤ 7	Screw anchor	22mm 5 T (SWL)	32mm 5 T (SWL)	Galvanised each end	12 T (BL)	MHWS x 1.5	Min 12mm
7.1-9	Screw anchor	22mm 5 T (SWL)	32mm 5 T (SWL)	Galvanised each end	12 T (BL)	MHWS x 1.5	Min 12mm
9.1-12	Screw anchor	25mm 7 T (SWL)	38mm 7 T (SWL)	Galvanised each end	20 T (BL)	MHWS x 1.5	Min 12mm
12.1-15	Screw anchor	28mm 9 T (SWL)	38mm 7 T (SWL)	Galvanised each end	20 T (BL)	MHWS x 1.5	Min 12mm
>15	Specified design						



Screw anchor specifications:

A standard screw anchor with 800mm diameter steel auger/plate at the end of a 6m long, 50 mm diameter shaft.

NOTES:

1. The specifications are the minimum acceptable standards and can be exceeded if the owner wishes.
2. Only as and when mooring components are due for replacement will they be required to be brought up to these specifications.
3. Top chain or rope should be secured in the fairlead to prevent it jumping out or chafing. Chafing pennants are recommended.
4. Any rope should be non-floating polyester UV or abrasion-resistant.
5. Replacement of headline, buoy or float will be determined by visual degradation or damage.
6. Mooring buoy must be foam-filled with a handle and clearly identified with a BOP Regional Council mooring tag. Ensure buoys are visible at high water.
7. All components must have tested breaking strains. Proof coiled chains are recommended.
8. The Mooring Strop System must meet Bay of Plenty Regional Council's minimum standard.