

MINIMUM MOORING CONSTRUCTION GUIDELINES

Construction Specifications - Ø = diameter

Mooring Class	Vessel Length	Block Weight	Ground Chain Ø in mm	Mooring Chain Ø in mm	Rope Ø in mm
Class A	up to 6 metres	1 tonne	24	16	20
Class B	6-12 metres	2 tonnes	32	20	20
Class C	12-16 metres	3 tonnes	38	20	24
Class D	16-18 metres	4 tonnes	38	20	24
Class E	> 18 metres	Vessel specific design by Chartered Professional Engineer with experience in mooring structures			

- Shallow water moorings in a depth of 5 metres or less to be designed to suit with respect to these guidelines
- Total length of chain to be the depth of water at mean high water springs with 1/3 of this chain to be ground chain ¹
- Length of the rope to be equal to the depth of water at mean high water springs(see note 1)
- All shackles must be welded
- Swivels may be used at the Provider's discretion, but where these are used, the size of the swivel must be commensurate with that of the chain
- Anodes may be used at the Provider's discretion
- All mooring blocks shall be designed by a Chartered Professional Engineer with expertise in mooring structures and be made to those specifications.
- Similar metals to be used throughout
- Moorings of different design and/or manufacture will be considered on a case by case basis. As a minimum, such moorings must be supported by appropriate Chartered Professional Engineer design drawings and certification
- The marker buoy for each mooring shall be identified with the name of the consent holder, weight of block, phone number of the consent holder and the resource consent number

Survey Requirements

- Moorings must be recovered to the surface for the purpose of inspection
- All tackle to be replaced at 20% wear
- Moorings must be inspected at intervals not exceeding 2 years

These guidelines are not intended as a substitute for the need in each case to address the requirements of the specific location, conditions and vessel. There are specialists and mooring providers who are able to give particular advice in a specific situation.

Risk cannot be completely eliminated in the mooring of a vessel.

¹ The total length of the mooring tackle must be equal to twice the water depth at mean high water springs at the mooring site. Generally moorings are made up of a combination of chain and rope totalling twice the water depth.

The Council does not accept any responsibility for any loss or damage which may occur as a consequence of the use of these guidelines or otherwise.