

Moorings



Information for mooring owners on maintenance and compliance

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Swing moorings

Queenstown Lakes District Council (QLDC) have regulatory responsibilities for the control of aspects of moorings under the Navigation Safety Bylaw 2018 and the Resource Management Act 1991. This booklet is to assist mooring owners with maintenance specifications and compliance matters necessary within the Queenstown Lakes District.

Swing mooring design



The minimum mooring block size is 1000kg, this will accommodate most boats with a strong anchor chain. However, for larger vessels (over 12m) the mooring block may need to be increased to 2000kg. Your resource consent should be reviewed before any vessel over 12m is moored. You may also be required to vary your consent, and speak with the Harbourmaster for advice.

TABLE 1 MOORING SPECIFICATIONS See Figure 1

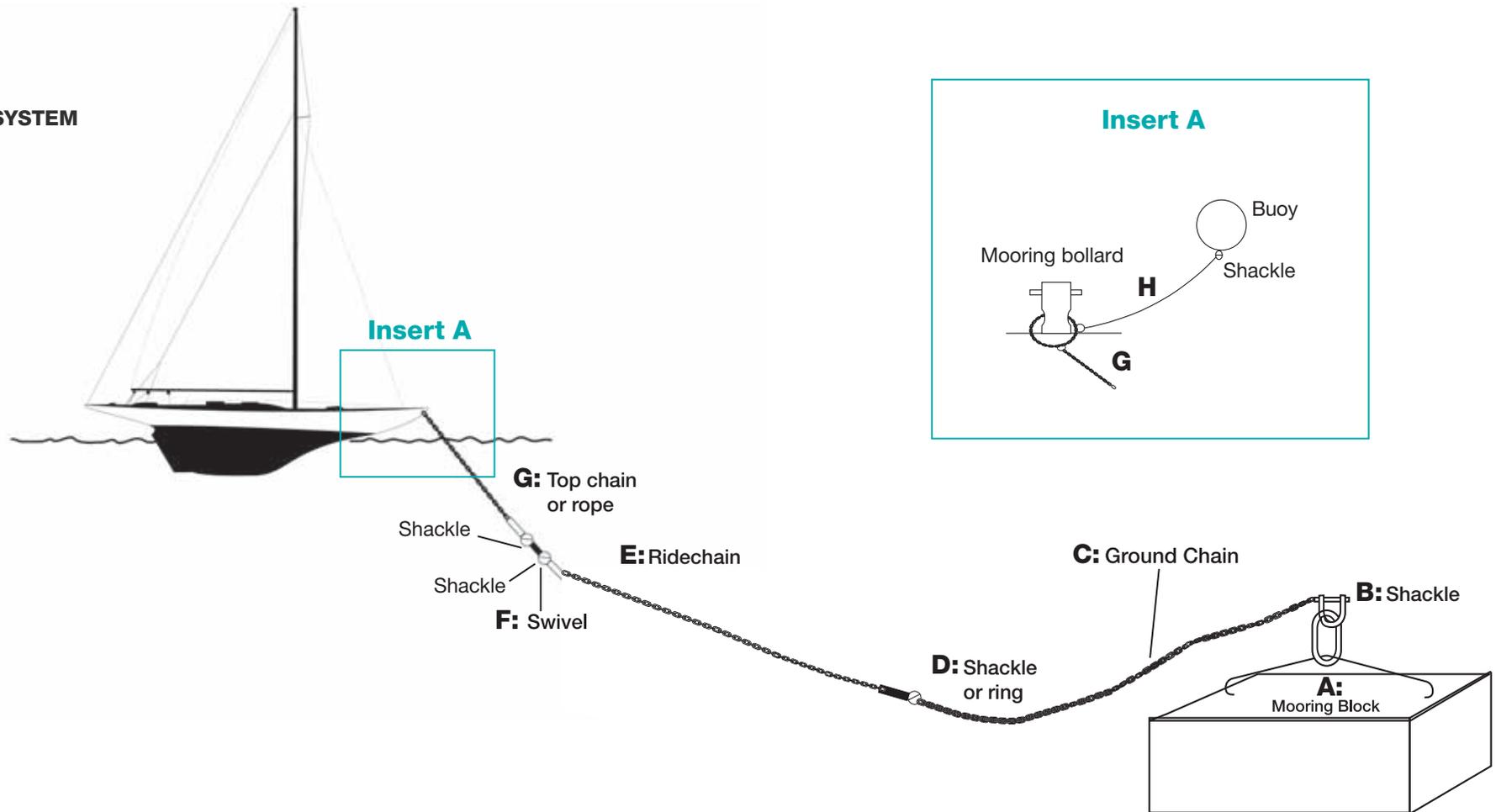
VESSEL	MOORING					
	A		B	C		D
Vessel length overall (metres)	Mooring block air weight (tonnes ¹)		Shackle	Ground chain		Shackle or ring
			Min bar size diameter (mm)	L	Diameter (mm)	Diameter (mm)
12	1	32	Min of 6m	Min of 20	Min of 16	
Over 12	Review resource consent conditions and vary consent or speak with the Harbourmaster					
VESSEL	E		F	G		H
	Intermediate chain		Swivel	Top chain or rope		Buoy rope
Vessel length overall (metres)	L	Diameter (mm)	Diameter (mm)	L	Diameter (mm)	15mm synthetic rope
	12	Depth of mooring plus 3m	12	20	To suit vessel min 2.5m	
Over 12m		16	25			

¹ Mooring blocks to be embedded in the lakebed to ensure that the full passive earth pressure resistance is developed (where possible).

² Minimum factor of safety against quasi-static mooring force for the mooring block is 3.

³ Overall chain length = G + E + C (Ground chain + Intermediate chain + Top chain.)

FIGURE 1
MOORING SYSTEM



Mooring specifications

There are a number of aspects of a moorings design that influence the mooring effectiveness:

- > the design of the mooring block,
- > length or weight of the ground chain,
- > embedding the mooring block into the lakebed.

To get the best result, the block needs to expel air and liquid as it enters the lakebed. To ensure the block is secure, the block may need to be jettied or 'airlifted' in. Liquid silts will soon fill the space adjacent to its sloping sides, effectively keying the block into the lakebed. This situation increases holding, and decreases the block profile.

The sloping sides of the block will:

- > Help embed the mooring into the lakebed,
- > Reduce the chance of snagging, and
- > Assist the block to rotate in conditions where the ground chain tension is very high. This will cause the block to dig in (like the flukes of an anchor) and increase its sectional area in the direction of the load.

A depression in the centre of the block will also stop snagging occurring, and should reduce wear on the ring and principal shackle by restricting movement.

Swing mooring maintenance and inspection

The safety of a mooring is the responsibility of the registered mooring owner. The whole system must be inspected every two years to remove kinks and replace worn components. Inspection must be conducted by a suitably qualified professional. The inspection report should be emailed to **property@qldc.govt.nz**

When a vessel is riding on a mooring, a 'safety pin' or clamp should be used to prevent the mooring chain or rope jumping out of the bow fairlead. Regular checks should be made around the bow fairlead as chafing and wear regularly show up in this area.

NOTE: QLDC does not currently have preferred suppliers for mooring inspections.

Siting of swing moorings

In assessing a resource consent application for a swing mooring, QLDC considers the effects of the mooring on the environment, including effects on navigation and safety.

Once a resource consent is granted you will need to apply for a Mooring Permit, see next page for details.

Once the block has been laid QLDC:

- > May investigate any mooring site that has been left vacant for an extended period, when no inspection report has been filed and/or no current address for the mooring owner is available.
- > QLDC is not responsible for the security of any mooring or any damage or loss that may occur that is related to the Mooring System.

Permits and conditions

Once a Resource Consent is granted under the RMA 1991, you will be required to apply for a Mooring Permit under the Navigation Safety Bylaw 2018.

An application form is downloadable on the QLDC website www.qldc.govt.nz/jetties-and-moorings. Please submit your resource consent decision, along with your permit application form to property@qldc.govt.nz for consideration.

There are a number of permits and application forms you may require:

- > Mooring Permit
- > Structure Permit
- > Mooring/jetty permit application form
- > Mooring/jetty permit transfer form

Information about current permits and conditions can be found on the QLDC website - visit www.qldc.govt.nz/jetties-and-moorings

The Harbourmaster or the Council may at any time, after giving written notice, cancel a mooring permit where the permit holder fails to comply with the terms and conditions of the mooring permit or any other clause under section 48 of the Navigation Safety Bylaw 2018.

Transfer of ownership

If you want to sell a mooring, please use the Mooring Transfer of Ownership form available from www.qldc.govt.nz/jetties-and-moorings. QLDC does not administer the sale of moorings, this is done privately.

Its important to know, your resource consent must also be transfered to the new owner, please contact the duty planner via the QLDC website for this process.

This form must be completed by the previous and new owners before submitting the application. Please note the application to transfer will not be considered until all requirements are met. A transfer fee also applies.

The following requirements must be met:

- 1** the mooring must have been satisfactorily inspected within the 12 months and QLDC advised of the inspection,
- 2** the buoy must be correctly numbered, displayed,
- 3** the permit fee must be paid up to date, and
- 4** resource consent reference must be made.

NOTE: If unsure about resource consent validity, please contact the duty planner via the QLDC website www.qldc.govt.nz/services/resource-consents/duty-planner

Fees and charges

**Fees are structured annually on 1 July every year.
Annual permits run from 1 July to 30 June.**

If an owner does not undertake an inspection of their mooring site as required, or is otherwise non-compliant, they may incur charges for inspection, removal of the mooring system or the mooring sold by QLDC.

Contact details

Mooring owners must notify QLDC of any change of details including contact email, phone number and address.

Please email property@qldc.govt.nz and include your new details and mooring number.

Mooring buoy

The mooring buoy must be a bright colour (unless otherwise stated in your resource consent) and a minimum of 400mm diameter. The swing mooring number must be engraved/written on top in lettering not less than 60mm high and painted in a contrasting colour.



FIGURE 2
STANDARD 1 TONNE MOORING BLOCK

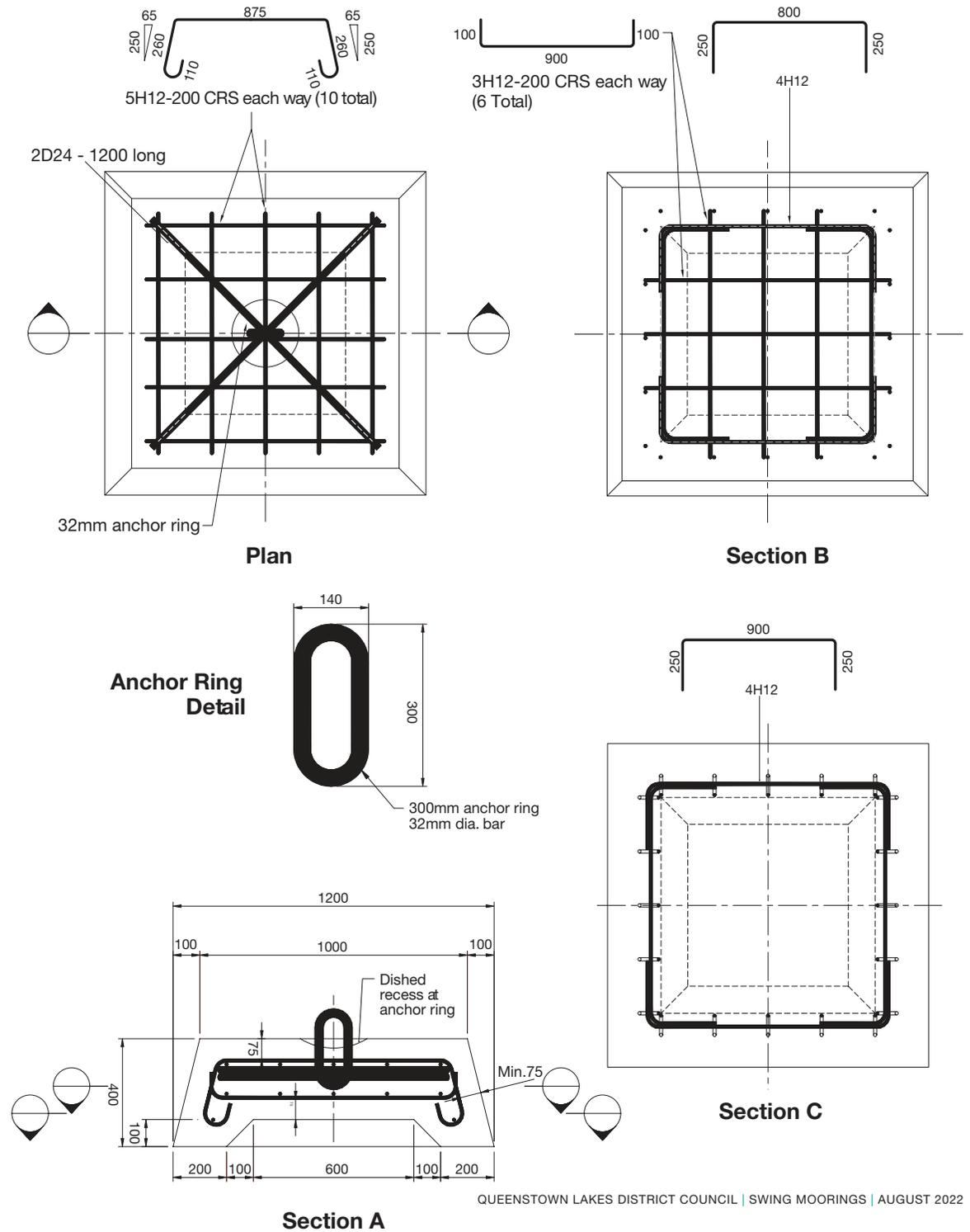
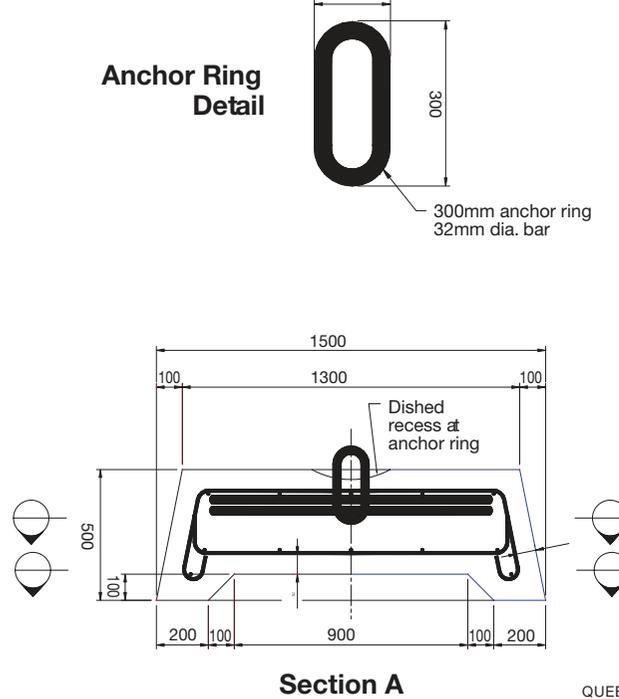
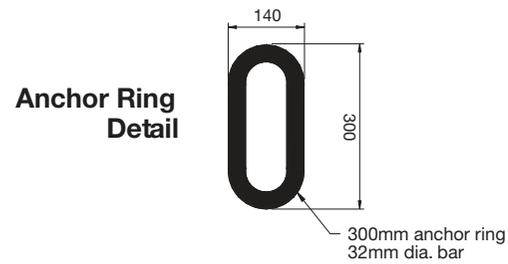
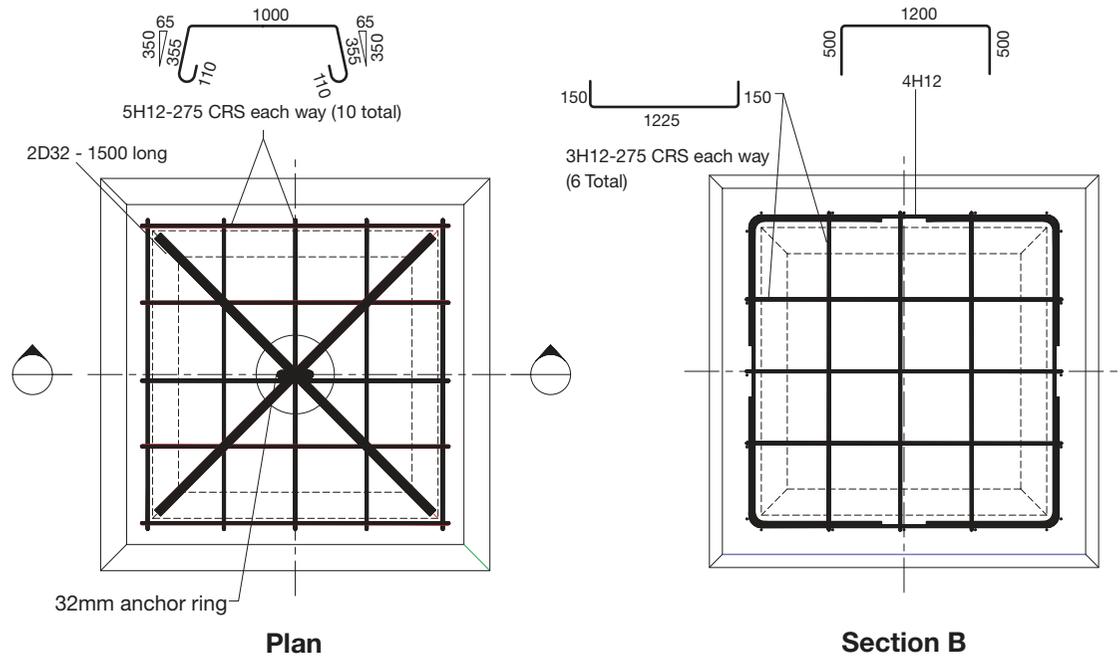


FIGURE 3
STANDARD 2 TONNE MOORING BLOCK



Skipper responsibility

I'm a responsible Skipper who will ensure:



I have the necessary skill, knowledge and qualifications to safeguard all on board



Each passenger has a correctly fitted buoyancy aid



My vessel is loaded within its limits and all equipment is securely stowed



My vessel and all its equipment are properly maintained



My passengers are briefed on the location and use of all safety equipment



Someone ashore knows where we are going and when we'll be back



My vessel carries all the necessary safety equipment



The weather conditions and outlook are suitable for the trip planned



Check for weed on vessel, motor and trailer and clean off as necessary



We have a minimum of two means of communication: *i.e VHF marine radio, cellphone, flares*



I always comply with the Maritime 'rules of the road'



All boats on a mooring are recommend to have a solar or wind turbine fitted to ensure the charging of the battery for the bilge pump

Tips about boating safety

1

Check the boat, engine, and equipment before leaving

2

Check the weather forecast and tides before leaving

3

Tell someone where you're going, and when you'll be returning

4

Know the: Collision Prevention Rules, Water Recreation Rules and local bylaws

5

Never overload the boat

6

Take a proper lifejacket for each person on board; wear them

7

Have aboard: Anchor, bailer, spare fuel, torch and warm gear

8

Guard against fire

9

Avoid alcohol when boating

10

Take two means of communication: *VHF, Flares, EPIRB, cellphone in a plastic bag*

Contact us



www.qldc.govt.nz/jetties-and-moorings

BUILDING TEAM

- > To check if your jetty requires a building consent
- > To lodge an application for a building consent
- > To check the conditions of your building consent if you are unsure



www.qldc.govt.nz/services/building-services/contact-us#contact_us

PROPERTY TEAM

- > To apply for a new permit
- > Questions regarding your existing permit or fees
- > To lodge an application to transfer the ownership of a mooring or jetty
- > To advise if you wish to surrender your permit



property@qldc.govt.nz

RESOURCE CONSENTS TEAM

- > To check if your mooring or jetty has a current resource consent
- > To check the conditions or expiry of your resource consent if you are unsure
- > To understand requirements to lodge an applications for a resource consent



www.qldc.govt.nz/services/resource-consents/duty-planner

HARBOURMASTER – QUEENSTOWN & WĀNAKA

- > For issues in regards to non-compliance of waterways rules such as not wearing life jackets, please contact the Harbourmaster:
- > For all urgent enquiries, please phone us on **03 441 0499**
- > For all non-urgent enquires lodge a Request for Service on the QLDC website at www.qldc.govt.nz/contact-us



services@qldc.govt.nz

