

BYRNE LOOBY



Cove Sailing Club in Conjunction with Cork County
Council

Whitepoint Marina

Fire Safety Design Report

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Disclaimer: Please note that this report is based on specific information, instructions and information from our Client and should not be relied upon by third parties.

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1 Introduction

The following report is a Fire Safety Plan for Cove Marina Development, Whitepoint, Cobh, Co. Cork. The report includes guidelines for the marina management and boat users regarding fire prevention and emergency procedures in the event of a fire.

The report was compiled with reference to the following Documents;

- British Marine Federation '*Code of Practice for the Design, Construction and Operation of Coastal and Inland Marinas and Yacht Harbours*'
- European Guideline CFP-A-E No 15:2010 F '*Fire Safety in Guest Harbours and Marinas*'
- NFPA 303 '*Fire Protection Standard for Marinas and Boatyards*' (2011)
- Irish Building Regulations Technical Guidance B: *Fire Safety* (2006)

This report should be read in conjunction with drawing CM1199_MA_0406_DWG_00 Fire Safety.

2 Fire Risk Assessment

2.1 Sources of Ignition

The main potential sources of ignition within the marina are as follows;

- Fuel stored on board boats docked at the marina.
- Electrical malfunctions with boat equipment/onshore services.
- Poor housekeeping with regard to oily rags etc.

2.2 Means of Escape from Fire

Means of escape for the marina will be provided by the pontoons and access gangway.

2.3 Fire Fighting Equipment

See section 5.0 for information on Fire Fighting Equipment required.

2.4 Fire Log Book

A Fire Log Book will be kept at a location where it will be readily available to the Local Fire Authorities. The Fire Log Book will include information on fire drills, testing of fire safety equipment and fire training records.

3 Fire Control

In the event of a fire the following instructions should be followed;

- Immediately call the Fire Department and Cork Coastguard Radio to raise the alarm. Due to the proximity to the shipping channel and the docking area for cruise liners the Port Authority should be contacted to alert relevant ships in the area.
- Ensure no persons are aboard any vessels docked at the marina.
- Use best endeavours to prevent the spreading of the fire. Best judgement is to be used in the handling of the fire. Staff are not to put themselves at risk trying to attend to the fire.
- Access to the site is to be kept clear to allow the Fire Department access to the site. Vehicle access to the site and the location of the nearest fire hydrant are outlined on drawing CM1199_MA_0406_DWG_00.
- Ensure all communication systems are working satisfactorily.
- Remove adjacent craft to avoid the possible spread of fire.
- Use foam to control a fibreglass fire.
- Be aware of the proximity of gas bottles and fuel tanks.
- Await the arrival of the Fire Brigade and assist with any further information they may require.

4 Prevention

4.1 General Guidelines

The following guidelines should be followed with regard to preventing the outbreak of a fire;

- All walkways should be kept clear at all times.
- Ensure there is no accumulation of rubbish (e.g. oily rags etc.).
- Maintain a clear access route for the Fire Department.
- Clearly identify the location of isolation valves and switches on site.
- All staff involved with the marina to be fully instructed and regularly drilled on fire control procedures, use of equipment and colour coding of specific types of fire extinguishers.
- Check that all fixed and floating structures, in particular their buoyancy supports, have a minimum of 30 minutes fire resistance.
- All fuel, gas and hazardous material are to be stored properly.
- Gas installations and storage areas must be clearly marked, together with a notice stating that 'No smoking or naked lights' should be used in their vicinity. They must not be located over pits, depressions in the ground or within bund walls.
- Cylinders should be stored upright in cages or approved ventilated buildings ensuring that propane and butane have not been interchanged.
- The refilling of fuel tanks should be above deck only. Deck filling pipes should be installed where necessary.
- Batteries should not be left on charge in boats unless adequate ventilation is provided to ensure dissipation of the gas involved.
- Incandescent heaters and fan heaters should not be switched on unattended.
- In the event of any unsafe or leaking fuel or gas installations being detected on an unoccupied boat in the marina, immediate rectification should be carried out by the operator and the berth-holder informed forthwith of the circumstances and of the remedial action taken.
- Facilities should be provided on-site for the disposal of waste oil.

4.2 Guidelines for Boat Users:

The following guidelines should be provided to boat users in the marina;

- A prohibition against the use of portable cooking equipment on the marina or on boats berthing in the marina.
- Procedures for the disposal of waste.

- Location of fire extinguishers.
- Fuelling procedures (see Appendix A).
- Emergency contact information (see section 7.0).

5 Fire Fighting Equipment

5.1 Recommended Guidelines:

Firefighting equipment should be provided in accordance with Section 5.3 of the British Marine Federation '*Code of Practice for the Design, Construction and Operation of Coastal and Inland Marinas and Yacht Harbours*' and Section 4.1.5 of European Guideline CFP-A-E No 15:2010 F '*Fire Safety in Guest Harbours and Marinas*'

- 6kg dry powder extinguishers with a rating of 34A – 30BC are to be provided in suitable emergency cabinets.
- A minimum of 1 no. extinguisher is to be provided for every 15 berths.
- It is recommended to have a salt water pump with adequate power.
- It is recommended to have a first aid kit visible and available.
- A pressurised fire hydrant is available adjacent to the marina and is indicated on drawing CM1199_MA_0406_DWG_00.

6 Access to Site for Fire Services

Access for the Fire Department to the site in the event a fire will be in accordance with Section B5 of Technical Guidance Document B 2006.

6.1 Fire Mains

The location of the nearest Fire Hydrant on external mains is shown on drawing CM1199_MA_0406_DWG_00.

6.2 Vehicle Access

Access to the site will be provided for a pump appliance. Access to the site will be in accordance with Table 5.2 of Technical Guidance Document B 2006.

Drawing CM1199_MA_0406_DWG_00 demonstrates that the following criteria will be met;

- Minimum Width of Road: 3.7m
- Minimum Clearance Height for Pump Appliance: 3.7m

6.3 Personnel Access for Firefighting:

Access to the marina for firefighting purposes will be by means of boat and/or gangway and pontoons connected to the quay wall.

7 Emergency Services Contact Numbers

Cork Coastguard Radio

VHF Channels 16, 67, 26, DSC 70

Appendix A – Fuelling Procedures

The procedure for fuelling boats should be in accordance with Section 8.2.7 of NFPA 303 '*Fire Protection Standard for Marinas and Boatyards*' (2011).

Procedure before fuelling;

- a) Stop all engines and auxiliaries.
- b) Shut off all electricity, open flames & heat sources.
- c) Check bilges for fuel vapours.
- d) Extinguish all smoking materials.
- e) Close access fittings and openings that could allow vapours to enter the boat's enclosed spaces.
- f) Remove all personnel from boat, except the person handling the fuel hose.

Procedure during fuelling;

- a) Maintain nozzle contact with fill pipe.
- b) Attend fuel filling nozzle at all times.
- c) Wipe up spills immediately.
- d) Avoid overfilling.

Procedure after fuelling and before starting engine;

- a) Inspect bilges for leakage or fuel odours.
- b) Ventilate until odours are removed.

BYRNELOOBY

3 Westbourne Place, Cobh, Cork, P24 Y560 Ireland

Phone: +353 (0) 21 4815441

Email: Cobh@ByrneLooby.com | Web: www.ByrneLooby.com

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