

Marine Technology

Boat Requirements and Safety Equipment

Boat Requirements


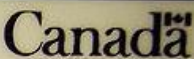
Age & Horsepower Restrictions


AGE	HORSEPOWER RESTRICTIONS
Under 12 years of age with no direct supervision*	May operate a boat with up to 7.5 kW (10 hp)
Ages 12 to under 16 with no direct supervision	May operate a boat with up to 30 kW (40 hp)
Under 16 years of age, regardless of supervision	May not operate a personal watercraft
16 years of age or older	No horsepower restrictions




REMEMBER: Youth must also carry proof of competency to operate any motorized boat, supervised or not.

Compliance plates

- under 6m long boat
- states the safe limits for the vessel of;
 - Engine power
 - Number of persons on board
 - Max total load in lbs or kilos
- confirms built to Canadian government standards
- All others boats display a conformity plate

 Transport Canada / Transports Canada		
RATINGS IN FAIR WEATHER - RECOMMANDATIONS PAR BEAU TEMPS		
LOAD* - CHARGE* <u>830</u> kg <u>1830</u> lbs	OCCUPANTS <div style="font-size: 2em; text-align: center;">8</div>	POWER - PUISSANCE <u>22</u> kW <u>30</u> HP
NO. POYZ6728		
*OCCUPANTS, GEAR BUILDER - CONSTRUCTEUR SEAMOR MARINE YIV		*OCCUPANTS, EQUIPEMENT MODEL - MODELE SM-430
The manufacturer certifies that this product complies with the Pleasure Craft requirements of the Construction Standards for Small Vessels. / Le fabricant certifie que ce produit est conforme aux exigences relatives aux embarcations de plaisance de la Norme de construction des petits bateaux.		

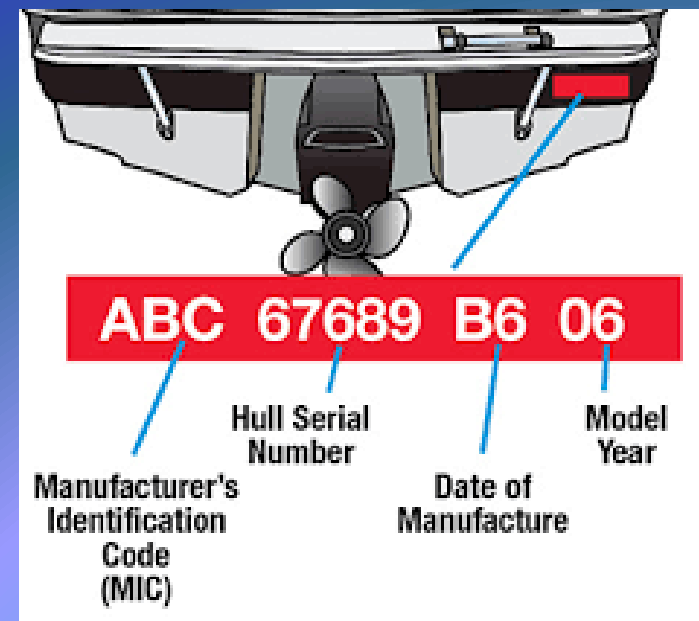
Garde côtière  Coast Guard	
CAPACITE MAXIMUM CAPACITY PAR BEAU TEMPS - IN FAIR WEATHER	
CHARGE* <u>XXX</u> kg <u>XXX</u> lbs LOAD*	ADULTES <div style="font-size: 2em; text-align: center;">3</div> ADULTS
*PERSONNES MOTEUR ESSENCE GREMENT PERSONS MOTOR GAS GEAR	
CONSTRUCTEUR - BUILDER XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	MODÈL - MODEL XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
The manufacturer certifies that this product complies with the Construction Standards for Small Vessels.	

CANADIAN COMPLIANCE NOTICE AVIS DE CONFORMITÉ CANADIEN		
MAXIMUM RECOMMENDED SAFE LIMITS LIMITES MAXIMALES DE SÉCURITÉ RECOMMANDÉES		
	<div style="font-size: 2em; text-align: center;">4</div>	300 kg 660 lbs/lb
		578 kg 1273 lbs/lb
	37 kW 50 HP	228 kg 502 lbs/lb
THE MAXIMUM RECOMMENDED SAFE LIMITS MIGHT HAVE TO BE REDUCED IN ADVERSE SEA AND WEATHER CONDITIONS. LES LIMITES MAXIMALES DE SÉCURITÉ RECOMMANDÉES PEUVENT DEVOIR ÊTRE RÉDUITES DANS LES CONDITIONS DE MER ET DES CONDITIONS MÉTÉOROLOGISTIQUES DIFFICILES.		
SAFEBOAT COMPANY INC, (MIC) Peterborough, Ontario, Canada Model / Modèle: WAVECHASER		
THE MANUFACTURER DECLARES THAT THIS PRODUCT COMPLIES WITH THE CONSTRUCTION REQUIREMENTS OF THE SMALL VESSEL REGULATIONS AS THEY READ ON THE DAY ON WHICH THE CONSTRUCTION OF THE VESSEL WAS STARTED OR ON THE DAY ON WHICH THE VESSEL WAS IMPORTED. LE FABRICANT ATTESTE QUE CE PRODUIT EST CONFORME AUX EXIGENCES DE CONSTRUCTION DU RÉGLEMENT SUR LES PETITS BÂTIMENTS EN VIGUEUR À LA DATE DU DÉBUT DE SA CONSTRUCTION OU DE SON IMPORTATION.		

Hull Identification Number

A HIN helps to find lost or stolen boats and identify boats that are subject to a recall

permanently marked on the outside upper starboard corner of the transom



Current HIN Format

HULL IDENTIFICATION NUMBER FORMATS				
CURRENT FORMAT	<u>BMA</u>	<u>45678</u>	<u>H4</u>	<u>85</u>
August 1, 1984	Manufacturers ID Code (MIC)	Production or Serial #	Month Year of Production	Model Year

* Key to month of production for current format:

A - January	D - April	G - July	J - October
B - February	E - May	H - August	K - November
C - March	F - June	I - September	L - December

The CURRENT FORMAT replaced STRAIGHT YEAR and MODEL YEAR formats. The Current Format was optional as of January 1, 1984, but mandatory as of August 1, 1984. Confidential HINs were not required prior to August 1, 1984.

Boat License

- all boats under 15 tons (30,000lb) with 10hp or more including personal watercraft **MUST** be licensed.
- Free
- Displayed in Block Characters, contrast colour, minimum 7.5cm high on each side of bow.
- Must carry paper version on board.



 Transport Canada / Transports Canada		APPLICATION FOR PLEASURE CRAFT LICENCE		PROTECTED A (WHEN COMPLETED) XXXXXX-XXXX-XXXX
(a) PARTICULARS OF APPLICANT				
Name(s) of new owner(s)			Telephone number	
Address			Date of birth (dd-mm-yyyy)	
City/province	Country	Postal/dp code	Date (dd-mm-yyyy)	
I HEREBY MAKE APPLICATION FOR A PLEASURE CRAFT LICENCE AND DECLARE AS FOLLOWS:				
(a) PLEASURE CRAFT ALREADY LICENSED Having legally obtained the pleasure craft described in (c) below, which bears license number:		OR	(b) UNLICENSED PLEASURE CRAFT Having legally obtained the pleasure craft described in (c) below <input type="checkbox"/> DOMESTIC <input type="checkbox"/> FOREIGN	
Reason for the application <input type="checkbox"/> New <input type="checkbox"/> Renewal <input type="checkbox"/> Update information <input type="checkbox"/> Transfer <input type="checkbox"/> Duplicate <input type="checkbox"/> Cancellation <input type="checkbox"/> Dealer license <input type="checkbox"/> Abandoned				
(b) DESCRIPTION OF VESSEL				
Propulsion type: <input type="checkbox"/> Outboard <input type="checkbox"/> Inboard <input type="checkbox"/> Inboard/Outboard <input type="checkbox"/> Jet drive <input type="checkbox"/> Am. sailing <input type="checkbox"/> Air compressor <input type="checkbox"/> Manual <input type="checkbox"/> Sail <input type="checkbox"/> None <input type="checkbox"/> Other (specify)				
Length (m)		Hull Serial Number		
<input type="checkbox"/> I hereby certify that I cannot locate/obtain the Hull Serial Number		<input type="checkbox"/> Canadian compliance notice attached to vessel		
Pleasure craft built or imported in Canada after August 1, 1991 are required to have a Hull Serial Number (HSN). Home-built pleasure craft are not required to have a HSN if constructed for personal use.				
Hull material		Hull type		
Primary hull colour		Secondary hull colour		
Make and model of pleasure craft <input type="checkbox"/> or <input type="checkbox"/> Home-built				
(c) PARTICULARS OF PREVIOUS OWNERS				
Name(s) of previous owner(s)				
Address			Telephone number	
City/province	Country	Postal/dp code		
(d) SIGNATURE(S) OF NEW OWNER(S)				
Signature(s) of new owner(s)			Date (dd-mm-yyyy)	
<p>The personal information provided on this form is collected under the authority of the Small Boat Regulations of the Canada Shipping Act, 1984. This information is collected for the purpose of issuing licenses in order to identify owners and operators of pleasure craft, as well as to monitor and ensure compliance with the Small Boat Regulations. (Note: A license document does not establish ownership of a pleasure craft.) Information may be disclosed to parties involved in search and rescue activities, as well as law enforcement agencies for the purpose of carrying out a criminal investigation and enforcing any law of Canada, including the requirement to pay provincial sales tax. The information collected is described in the Personal Information Bank under Pleasure Craft Licenses (bank number TC-PPLG 044). Under the provisions of the Privacy Act, individuals have the right of access to, and protection of, their personal information. Instructions for obtaining personal information are provided in Info Source, a copy of which is available in major public and academic libraries or online at www.bcfmccanada.gc.ca</p>				
04-01708 (3/04-05)				

Boat Registration

- boats over 30,000lb must be registered, a small one can be as well.
- cost money
- Unique name on bow, name of port of registry on stern.



Safety Equipment

Life Jackets and Personal Floatation Devise - PFD

- Must have one for each person on board a vessel
- Appropriate size, snug fit, allow freedom to move.
- Check for buoyancy regularly by wading into chest-deep water, bend knees and see if you float with chin above water.
- Dry in open air, not constantly exposed to direct sunlight, not close to direct heat.



PFD and Life Jacket Con't

- Kept readily accessible in a dry, well ventilated area
- Approved status is void if repaired or altered
- Cleaned with mild soap and water
- Colours orange, red, yellow or approved colour



PFD and Life Jacket Con't

Who should wear it?

- all operators of pleasure craft

What is reality?

- most people don't.

Common sense – night, bad weather,
can't swim, alone.....

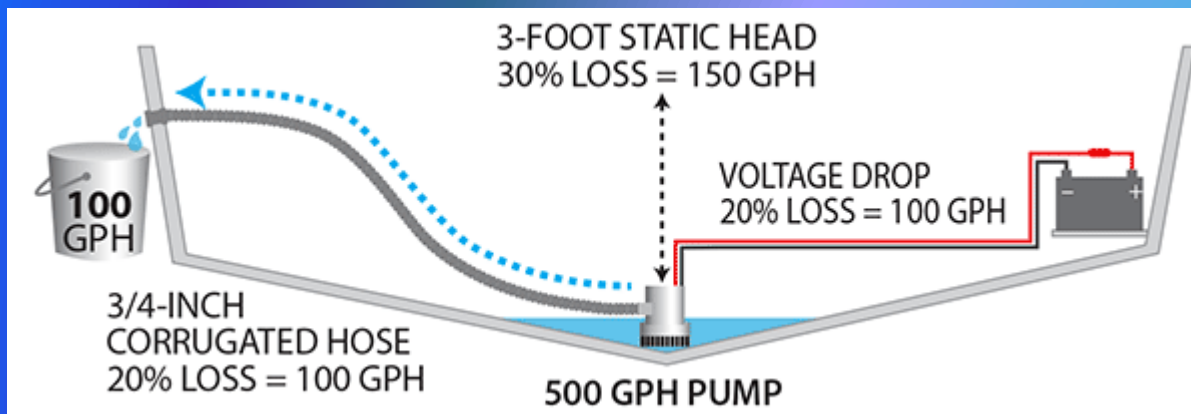


Safety Equipment

Day 2

Bailer or Manual Pump

- under 9m – one bailer/Manual
- 9m and over – efficient bilge pumping system



Heaving line

- buoyant line 15m long
- type of rope – polypropylene



Light signal

- over 6m – watertight flashlight or 3 flares



- 6m to 9m – flashlight and 6 flares

- over 9m – 12 flares



**Flares - not required if on a river, lake where not more than 1 mile from shore or a vessel that is not power driven



Sound Signal

under 20m – whistle or
horn with a range of
 $\frac{1}{2}$ a mile or 800m



over 20m – 2 of
bell/whistle/horn which
are compressed gas or
electrical



**Manual
Propelling
Device**

- under 9m
- oars, paddle anything used to propel a boat.

1 if a one person boat

OR

an anchor with 15m of rope, chain

- Over 12m – 30m
- Over 24m – 50m



Life buoy - Over 9m with 15m
heaving line



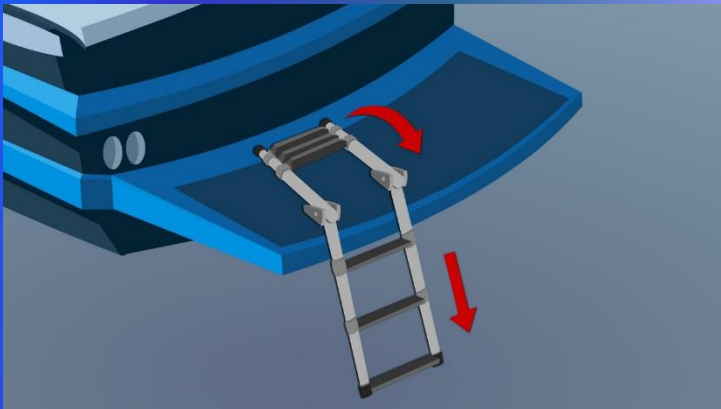
- over 12m needs a
self igniting light



Reboarding - under 12m only if
Device freeboard exceeds .5m

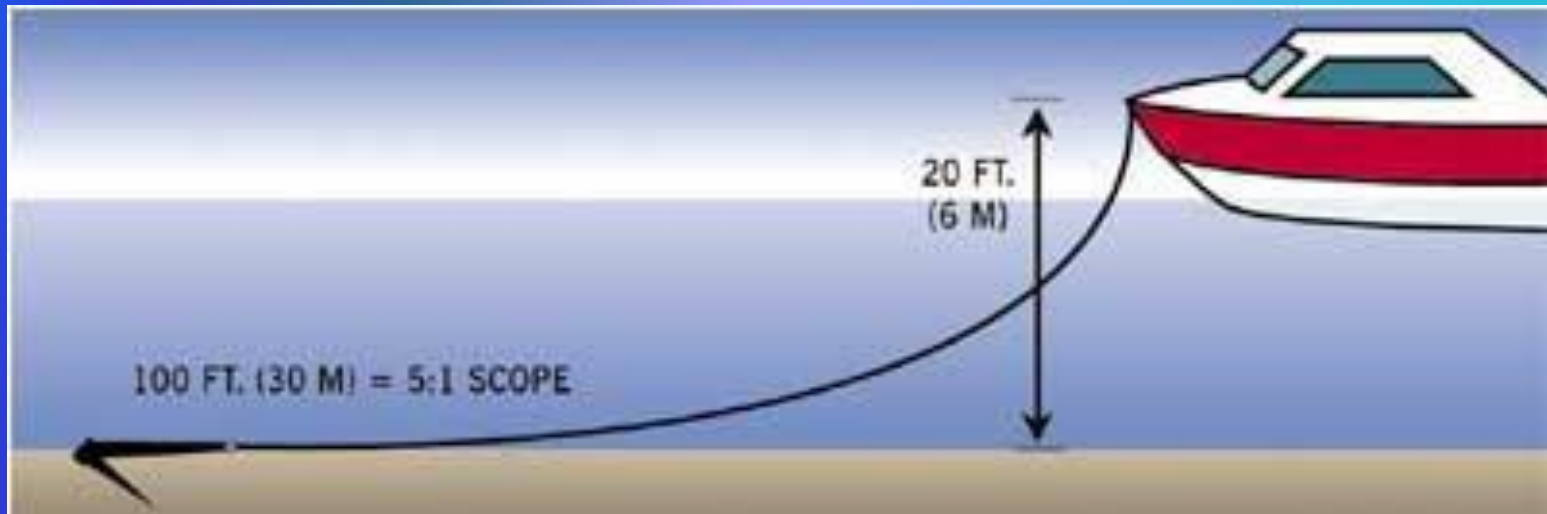
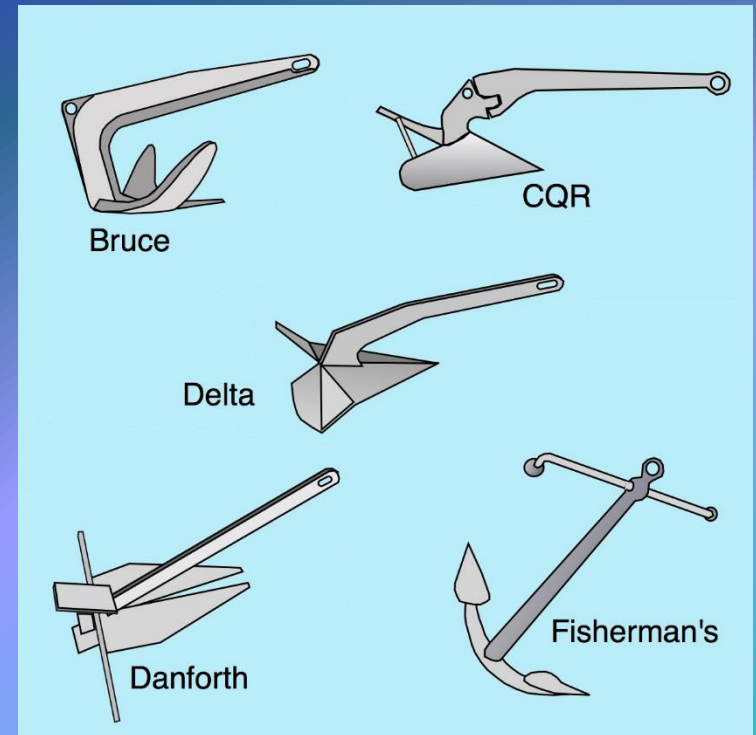
- over 12m required

- over 20m lifting
harness



Anchor

- Under 8m needs 15m of cable, chain, rope
- Over 8m needs 30m
- Over 12m needs 50m



Safety Equipment

Day 3

Fire Extinguishers

(- 3 class types)

A – combustible solids

B – combustible liquid

C – electrical

- inspect regularly

- under 6m one 5bc for inboard engines, fixed fuel tank, fuel burning appliance

- between 6-9m

1 - 5bc for inboard engine,
a 2nd 5bc for appliances

9-12m

1 - 10bc for engine

1 - 10bc for appliances



Navigation lights

- required to operate between sunset and sunrise or poor visibility
- various combinations with red/green light for front of boat. white for rear for different types of boats
- red on port, green on starboard.



Visual distress

- flashlight, mirrors, flags, smoke flares, flares, flames on deck, arm signal, dye marker.



Optional and Recommended equipment

- Emergency kit
- Food/water
- Binoculars, charts, gps, radio, compass, depth sounder, fenders, mirror, dry clothes, extra clothes, shear pin/cotter pin, prop, radar reflector.

