

## HOUSEBOAT PRACTICAL STABILITY WORKSHEET

Marine Safety (Domestic Commercial Vessel) National Law Act 2012 Marine Order 503 (Certificates of survey – national law) 2017

This checklist can be used by a vessel builder and accredited marine surveyors to record the practical stability testing of a Standard Houseboat during initial survey. It is recommended that the completed report be retained by the surveyor for their records.

A. Vessel details										
Vessel name	Unique identifier									
Owner of vessel	Builder of vessel									
Surveyor name	Surveyor identification number									
Measured length L <sub>m</sub> (metres)	Vessel beam B (metres)									
Pontoon length (metres)	Pontoon depth D (metres)									
B. Pre-inclining checks										
Is the vessel of an appropriate configuration to undergo the pr	oposed loading?	☐ Yes ☐ No								
Is a safe means of measuring freeboards provided?		☐ Yes ☐ No								
Is an inclinometer provided?		☐ Yes ☐ No								
Please specify type		,								
Is the prevailing wind below 5 knots?		☐ Yes ☐ No								
Is the water surface oscillating at less than 20mm from trough	☐ Yes ☐ No									
Can the vessel be kept clear of the bottom throughout the test	☐ Yes ☐ No									
Can mooring lines be kept slack throughout the test?		☐ Yes ☐ No								
Are the fuel tanks pressed?		☐ Yes ☐ No								
Actual contents	Total capacity									
Are the FW tank(s) pressed?		☐ Yes ☐ No								
Actual contents	Total capacity									
Are the BW Tank(s) pressed?		☐ Yes ☐ No								
Actual contents	Total capacity									
Are the GW tank(s) pressed?		☐ Yes ☐ No								
Actual contents	Total capacity									

**Note**: Where a tank has not been pressed due to operational limitations, a mass equivalent to the missing contents is to be added in the same longitudinal position as the tank and as close as practicable to the vertical position of the tank in question.

C. Require	ed D	ead	weig	ght																
Maximum nur	mber c	of pers	sons p	ropos	sed (P	) <u>M</u>	aximu	ım We	eight r	equire	d (P)	k 80kg	<u>a)</u>	Test	weigh	nts pro	vided	(kg)		
Description of	f weigl	hts (e	g San	d bag	s, pers	sonne	l, wate	er bar	rels et	tc)										
Note: Test wabove the de Additional per	ck. If	using	pers	onnel	for te	est we	eights,	scale	es are	to b	e prov	vided	in ord	der to	confi	rm ea	ich in	dividu	aľs w	veight.
D. Uprigh	t fre	eboa	ard																	
<ol> <li>Have the test weights been located in the worst possible vertical position (e.g. upper deck)?</li> <li>Is the vessel sitting between level trim and a maximum of 2 degrees by the stern?</li> <li>Is the vessel sitting upright (zero heel)? (if not then re-distribute masses)</li> </ol>												es 🗌	No							
E. Freebo	ard	mea	sure	eme	nt fw	/d														
Measure fre	eboar	d to th	ne fore	part	of the	hull a	t the t	op of	deck (	(top of	pont	oon fv	d end	I)						
														Fwd	Freel	ooard:				mm
F. Freebo	ard	mea	sure	eme	nt af	t														
Measure fre	eboar	d to th	ne aft <sub>l</sub>	part o	f the h	ull at	the to	p of d	eck (to	op of p	onto	on aft	end)							
														Aft	Freel	ooard				mm
G. Minimu	um f	reeb	oard	d an	d res	serv	e bu	oya	ncy											
Pontoon Length (m)	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Min F'bd to pontoon top (mm)	400	400	414	429	443	457	471	486	500	514	529	543	557	571	586	600	600	600	600	600
Average Free	board	= (Fv	vd Fre	eboa	rd + A	ft Free	eboard	d) ÷ 2								Fave				mm
Required Fre	eboard	d as a	funct	ion of	ponto	on ler	ngth (f	rom ta	able a	bove)						Free				mm
Ratio of avera	age fre	eboa	rd to p	ontoc	on dep	th									F	ave / D	,			
Note: If the fre	eeboai	rd is g	reater	than	0.32D	, the r	eserve	e buoy	/ancy	is dee	med t	o be (	greate	r than	the re	equire	d 25%	-		
II Inalina	al £ua	- do -	ام سما	/ h.s.	_ I															
H. Incline	a tre	epo	ara	/ ne	eı															
Gradually cro test is to be a											rim (s	hould	exces	ssive	heel c	r trim	be ex	perier	nced t	:he
Minimum freeboard with forward crowding														mm						
Heel angle with forward crowding													deg							
Minimum freeboard with aft crowding													mm							
Heel angle with aft crowding												deg								
Note: If mass opposite direct and the freeb	ction fo	or the	incline	ed fre	eboar	d. Cro														/ely
I. Complia	ance	!																		
Is the reserve	-	-					_						ume?					☐ Y	es [	] No
Is the average upright freeboard greater than the minimum required freeboard?																				
	Is the inclined heel angle less than 7 degrees?																			