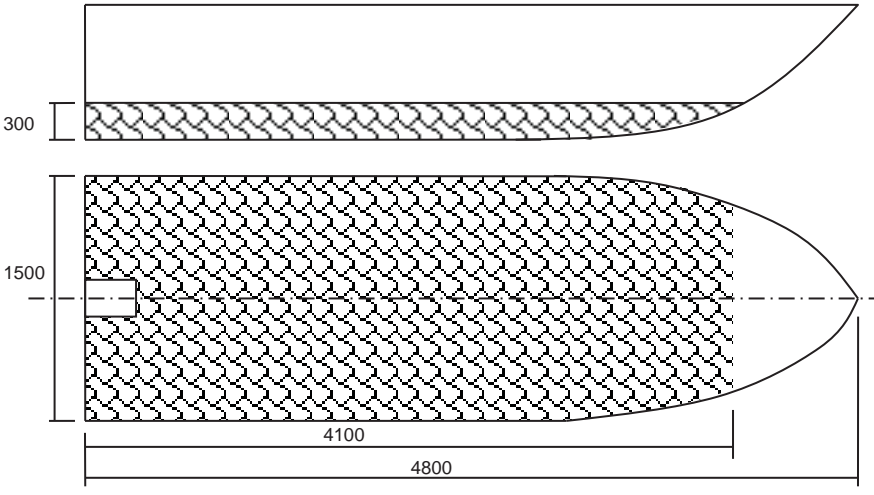



SMALL VESSEL BUOYANCY CERTIFICATE

CERTIFICATE TYPE – BUILT-IN BUOYANCY (DECKED VESSEL) – Cat R

<u>Vessel Name:</u> #####	<u>Vessel No.</u> DTC 1234R																
<u>Description:</u> 4.8m Monohull GRP small fishing vessel.																	
<u>Build Details</u> Builder: ##### Marine Date of Build: 2005/6 Model: 16' ##### Ski	<u>Principal Dimensions</u> Length Overall: 4.80 [m] Breadth Overall: 2.10 [m]																
<u>Propulsion</u> 1. The recommended propulsion for the vessel is 2 x 40 hp outboard engines 2. The maximum allowable weight of the outboard motors fitted may not exceed 160kg.																	
<u>Built-in Buoyancy</u> 1. The underdeck of the vessel is filled with 480 x 750 ml PET bottles as is indicated on the sketch below. Volume $\approx 0.360 \text{ m}^3$																	
																	
<u>Design Weight</u>																	
Light weight:	650 kg																
Deadweight	<u>290 kg</u>																
Maximum Weight	<u>940 kg</u>																
	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Deadweight</u></td> <td style="width: 20px;"></td> <td style="padding: 5px;">2 x Outboard Engines (2 x 70 kg)</td> <td style="padding: 5px;">140 kg</td> </tr> <tr> <td></td> <td></td> <td style="padding: 5px;">Crew Effects/Equipment</td> <td style="padding: 5px;"><u>150 kg</u></td> </tr> <tr> <td></td> <td style="padding: 5px;">→</td> <td style="padding: 5px;">Volume Bottles</td> <td style="padding: 5px;">= 0.360 m³ \approx 360 kg</td> </tr> <tr> <td></td> <td style="padding: 5px;">→</td> <td style="padding: 5px;">Maximum vessel weight =</td> <td style="padding: 5px;">940 kg</td> </tr> </table>	<u>Deadweight</u>		2 x Outboard Engines (2 x 70 kg)	140 kg			Crew Effects/Equipment	<u>150 kg</u>		→	Volume Bottles	= 0.360 m ³ \approx 360 kg		→	Maximum vessel weight =	940 kg
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<u>Conclusion and Comments</u>																	
<ol style="list-style-type: none"> 1. Percentage of Built-in Buoyancy provided (excluding crew) $\approx 38\%$. 2. The built-in buoyancy provisions are sufficient to ensure that the vessel will remain positively buoyant when fully flooded, swamped or capsized. The provisions will not support the weight of the crew who should be able to hold on / cling to the vessel in the water. 3. The vessel buoyancy provisions suitable for Category R operations. 4. This buoyancy certificate should be retained on board with the vessels Local General Safety Certificate or Certificate of Fitness. 5. Partial inspection of the buoyancy installation should be carried out every 5 years provided that the hull is not damaged. 																	
<hr style="width: 80%; margin: 0 auto;"/> Boat Builders Representative	<hr style="width: 80%; margin: 0 auto;"/> Date																