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- Marine Surveyor
- Shipwright/Boat Builder
- Container Surveyor
- Project Superintendency

SURVEY REPORT No H11-343Q

THIS IS TO CERTIFY, that at the request of Advantage Plastics, New Zealand, the undersigned Marine Surveyor on the 28/11/11 attended the dinghy:

“SMARTWAVE SW2400”

At Smiths Creek, Cairns, Queensland for the purpose of carrying out a swamp test in accordance with NSCV C6B Annex E.

Weights used to simulate outboard motor, batteries and engine controls were 25 kg steel test weights. Total weight added 26 kg as per maximum engine weight from Australian Builders Plate. Passenger simulation weights were 25 kg steel test weights, 4 weights were used to simulate 50% of 2 persons (assumed to be 80kg each) as per table E.2 (W1). 1 weight was added for 25% of additional weight difference as per table E.2 (W2). Vessel was prepared as per E5 (a-c) Sea state was calm with 5 knots of wind.



Ships Particulars;

Model	: Smartwave SW2400, versions open boat.
Builder	: Advantage Plastics, New Zealand
Test Model	: SW2400 open boat.
Length	: 2.40 m
Breadth	: 1.34 m
Moulded Depth	: 0.42 m
Dry Weight of Ship	: 55 kg
Hull Material	: Moulded Polyethylene
Maximum rated HP	: 6 HP (4.41 kW), 26 kg
Maximum persons	: 2 persons, 180 kg
Maximum Capacity	: 270 kg

Results:**Symmetrical fully-laden condition;**

Note; To achieve water flowing freely into the vessel across the transom, 2 persons (160 kg) in addition to fully laden test weights were required to lean on the transom.

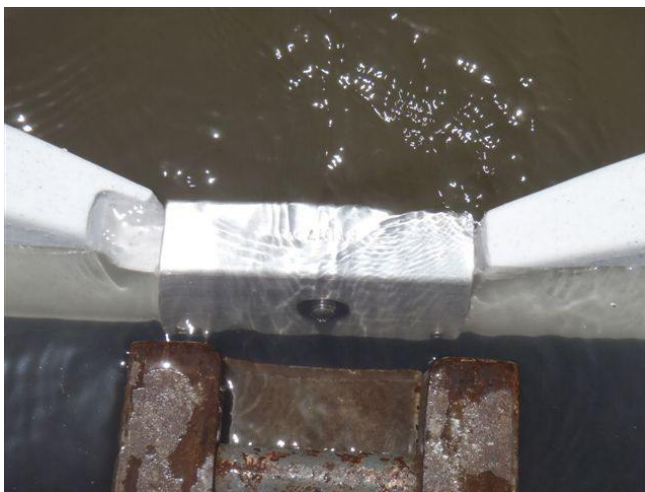
Table 33; LFa1 maximum angle of heel was 1 degree
 LFa2 Reference area above the surface of the water
 LFa3 Nil reference area points immersed



Symmetrical fully laden condition test



Symmetrical fully laden condition test



Immersed transom



Water flowing across transom

Unsymmetrical partially-laden condition:

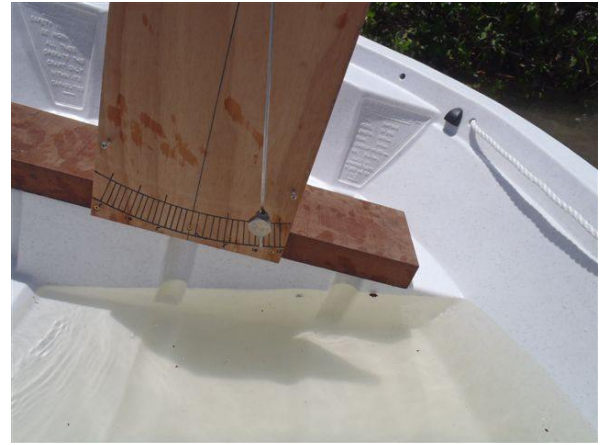
Table 33; Lfb1 Reference area above the surface of the water
Lfb2 Nil reference area points immersed
Lfb3 maximum angle of heel was 12 degrees



Unsymmetrical partially laden condition test



Unsymmetrical partially laden condition test



Symmetrical light condition:

Table 33; LFc1 maximum angle of heel was 3 degrees
 LFc2 Reference area above the surface of the water
 LFc3 Nil reference area points immersed



Symmetrical light condition test



Symmetrical light condition test

Positive flotation statement # PF33021 was issued.



29/11/11

R.L. (Zac) Howells
 Maritime Safety Queensland accredited marine surveyor # 315

This report is made without prejudice and is conscientiously believed to be true and accurate.