



# SEA TRANSPORT SOLUTIONS

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Ref: fax69.doc

Date: 16/3/99

Fax To: Queensland Dept of Transport - Design Approvals Unit

Fax No: 07 3224 8718

Attention: Mr Mark Devereaux

From:

Hull No: Q1076

Dear Mark,

**Re: Existing GRP Vessel  
Riviera 43 - Hull no:59**



With regard to the vessel above can you please note the following:

Please find attached the procedure from the Uniform Shipping Laws Code section 14 for the survey of vessels not originally surveyed.

Clauses 4, 5, 7, and 8 are the clauses relevant to this vessel.

The above procedure was used for this vessel to be placed in Class 2C survey.

We are in possession of approved drawings for this vessel.

The vessel has been fitted with new propeller shafts and rudders which will comply with the USL Code section 9 requirements.

The vessel electrics, bilge systems, fuel systems, safety and fire equipment, structural fire protection systems, fire dampers, stability, etc have all been upgraded to meet the requirements for Class 2C.

Attached are the test results from Queensland University for the hull panels.

All work is now completed on the vessel and I want to glass the vessel Q number on to the transom.

Could you please allocate a Q number for this vessel.

This is very urgent and your prompt reply would be appreciated.

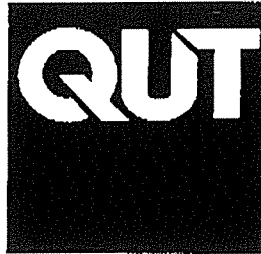
I can be contacted on Not relevant

I trust this is to your satisfaction and if you have any queries please contact me immediately.

Best Regards

Not relevant

Scott Murphy  
Asdmar P/L trading as Sea Transport Solutions  
Queensland Accreditation No: ASD\97\32



# Fibreglass Panel

# Test Report

for

Sea Transport Solutions

CET 5178

May 1999

School of Civil Engineering



PHYSICAL INFRASTRUCTURE CENTRE  
RESEARCH, INVESTIGATION AND DEVELOPMENT

TEST REPORT No: CET 5178  
TEST REPORT DATE: 24 May, 1999  
CLIENT: Sea Transport Solutions  
PO Box 1043  
SOUTHPORT NSW 4215

REFERENCE:

TEST DATE: 21 May, 1999

TEST DESCRIPTION: To determine:  
a) Tensile and Flexural Strengths,  
b) Fibreglass to Initial specimen weight ratio.

The tests were carried out on a Tinius Olsen Grade 'A' Universal Testing Machine; serial number: 98420.

TEST SPECIFICATION:

British Standard 2782 Part 3, 1976. \* Tensile Test - Method 320 E.  
British Standard 2782 Part 3, 1978. \*\* Flexure Test - Method 335 A.

- \* i) End pieces are not used.
- ii) Nominal sample dimensions are average of three sets of measurements.
- iii) Sample thickness dimensions are taken to nearest 0.1 mm due to hand laid up material.
- \*\* i) Nominal sample dimensions are average of three sets of measurements.
- ii) Sample thickness dimensions are taken to nearest 0.1 mm due to hand laid up material.

MARINE BOARD OF QLD. MINIMUM ULTIMATE STRENGTH REQUIREMENTS

Minimum Ultimate Tensile Strength = 80 MPa  
Minimum Ultimate Flexural Strength = 120 MPa

**BURN TEST:**

Sample Identification	DIMENSIONS (mm)	INITIAL WEIGHT (g)	WEIGHT OF RESIDUE (g)	FIBRE TO INITIAL SPECIMEN WEIGHT RATIO
PORT SPLOW	48.6 x 29.4 x 16.7	30.97	10.25	33%
STBP SPUPPER	53.8 x 29.7 x 15.8	32.14	11.36	35%
STB SPLOW	49.0 x 29.9 x 18.0	32.92	10.32	31%
STB BP	54.1 x 29.8 x 14.9	32.74	10.47	32%
FWD BP	51.0 x 29.9 x 11.8	25.41	9.13	36%

**BURN RESIDUE:**

The burn residue from all five samples comprised of chopstrand mating, woven roving, chopstrand mating, woven roving, chopstrand mating, woven roving and chopstrand matting.

Not relevant

**TESTING OFFICER**

Not relevant

Not relevant

**CHECKING OFFICER**

Not relevant

**MODE OF FAILURE:**

TENSILE TEST	
Centre Line Failure	Specimen Port splow, stbd spupper, stbd splow, stbd bp,
Lower In Jaw Failure	Specimen
Upper In Jaw Failure	Specimen Fwd bp

**FLEXURE TEST:**

All specimens failed at point of loading.

**NOTE:**

- a) All specimens were loaded to failure as required in BS 2872 - Part 3.
- b) All of the specimens were not parallel about their thickness.
- c) Specimens will be retained for a period of 3 months from the test date.

Not relevant

**TESTING OFFICER**

Not relevant

Not relevant

**CHECKING OFFICER**

Not relevant

TENSILE TEST				FLEXURAL TEST						
Distance between Jaws		110 mm		Rate of Loading			10 mm/min			
Rate of Loading		10 mm/min		Date of Test			21-May-99			
Date of Test		21-May-99		Ambient Temperature			19°C			
Ambient Temperature		19°C		Rate of Loading			10 mm/min			
SPECIMEN	DIMENSIONS (mm)		ULTIMATE LOAD (kN)	ULTIMATE TENSILE STRENGTH (MPa)	SPECIMEN	DIMENSIONS (mm)		ULTIMATE LOAD (N)	ULTIMATE FLEXURAL STRENGTH (MPa)	Span (mm)
Port splow	25.2	16.2	36.90	90.4	Port splow	29.8	16.2	2970	142.4	250
Stbd spupper	25.0	15.2	37.09	97.6	Stbd spupper	30.0	16.0	3890	189.9	250
Stbd splow	25.2	17.0	35.84	83.7	Stbd splow	30.0	18.3	3871	144.5	* 250
Stbd bp	25.2	14.7	39.33	106.2	Stbd bp	30.0	14.1	2406	133.1	220
Fwd bp	25.3	11.9	34.99	116.2	Fwd bp	30.1	12.1	2458	159.0	190

Tensile Modulus (MPa)		Ave Tensile Strength (MPa)	Flexural Modulus (MPa)		Ave Flexural Strength (MPa)
Port splow	8370	98.8	Port splow	7300	153.8
Stbd spupper	8900		Stbd spupper	8570	
Stbd splow	8410		Stbd splow	6820	
Stbd bp	9030		Stbd bp	7880	
Fwd bp	10070		Fwd bp	9150	

For the flexural test the load was applied to the smooth outer surface of all specimens.  
 \* Denotes that the specimen was outside the required span of 15-17 times the thickness.

Not relevant  
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**TESTING OFFICER**  
 Not relevant

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**CHECKING OFFICER**  
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