



INTERMODAL MATERIÉL  
AND  
NAUTICAL/NUCLEAR ANALYSIS  
**IMANNA**  
LABORATORY INC.

# CERTIFICATION TEST REPORT

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CERTIFICATION TEST REPORT 16046-2  
MECHANICAL STRENGTH TESTS  
ON  
6-INCH WIDE-LINE SERIES CLEATS #305-6  
FOR  
ACCON MARINE, INC.

**CUSTOMER:**

ACCON MARINE, INC.  
13665 AUTOMOBILE BLVD.  
CLEARWATER, FL 34622

MANUFACTURER  
OF TEST **ARTICLE:** ACCON MARINE, INC.  
CLEARWATER, FL 34622

REPORT **NO.:** 16046-2  
IMANNA JOB **NO.:** 16046  
CUSTOMER P.O. **NO.:** N/A  
CONTRACT: N/A  
PAGES IN REPORT: 3

DATE: MARCH 19, 2003

STATE OF FLORIDA

ROBERT L. WHITE, being duly sworn, deposes and says: The information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

*Robert L. White*

SUBSCRIBED and sworn to before me this 19th day of March, 2003

*David H. Hudgins*



David H. Hudgins  
Commission # DD 010632  
Expires May 3, 2005  
Bonded Thru  
Atlantic Bonding Co., Inc.

Imanna shall have no liability for damages of any kind to person or property, including special or consequential damages resulting from Imanna's providing the service covered by the report.

IMANNA LABORATORY, Inc.  
TEST BY  
Robert L. White  
PROJ. ENGINEER

1. TEST ARTICLE

Five stainless steel samples of the Wide-Line Series, 6-inch cleats were manufactured and received from Accon Marine in Clearwater, Florida.

2. MODEL NUMBER

Wide-Line Series, #305-6

3. REQUIREMENTS

The Requirements for this effort are to perform side pull tests on the received samples.

4. PROCEDURES

Each cleat was mounted to a  $\frac{3}{4}$ " thick steel plate in the manner it would be mounted on a boat. The cleats were then subjected to an increasing side load to determine the point of significant bending and/or ultimate load capability (whichever occurs first) in the direction of pull.

5. RESULTS

SAMPLE	MAX LOAD (lbs)	FAILURE MODE
1	6,075	RETAINING SCREW HEAD BROKE
2	7,154	RETAINING SCREW HEAD BROKE
3	7,369	<b>RETAINING</b> SCREW HEAD BROKE
4	5,752	RETAINING SCREW HEAD BROKE
5	6,686	RETAINING SCREW HEAD BROKE
AVERAGE	6,607	



Figure 1. Wide-Line cleat; Typical failure mode (screw head failure).



Figure 2. Wide-Line Cleat; Typical deformity.

6 OBSERVATIONS AND COMMENTS

The results presented herein apply only to the test article as prepared and as tested. All equipment used in the performance of these tests was calibrated to standards traceable to the N.I.S.T.