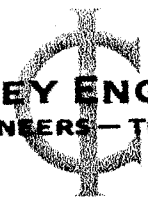


LABORATORY REPORT

NUMBER: 22126-3 31-May-02

CERNY & IVEY ENGINEERS, INC.
CONSULTING ENGINEERS — TESTING LABORATOR



5660 PEACHTREE PARKWAY (404)449-6936 NORCROSS (ATL) GA 300

REFERENCE

TEST DESCRIPTION

Tensile Testing

SAMPLE(S) RECEIVED IN LABORATORY

DATE: 5/23/02 BY: JTI VIA:

SAMPLE DESCRIPTION

Mr. Martin Boockmeyer
Metal Fabrications of Hilton Head Island
31 A Mathews Drive
Hilton Head, SC 29926

Roof Panel Tensile Specimens
1, 2, 3
16 oz. 1/2 hard Copper

INTRODUCTION

Tensile tests were performed on the above referenced material. Three samples of the material were cut from roof panels and tested. The samples were provided by Metal Fabrications of Hilton Head Island and prepared by Cerny & Ivey, Inc. personnel. The material yield strength, ultimate strength, and percent elongation were calculated from the test results. The specimens were tested in accordance with ASTM E1592, "Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference."

RESULTS

Sample	Thicknes (inches)	Area (in ²)	Yield Load pounds	Ultimate Load (pounds)	Yield Stress (psi)	Ultimate Stress (psi)	% Elongation
1	0.022	0.0110	271	381	24,538	34,498	37.9%
2	0.022	0.0110	272	379	24,629	34,317	37.3%
3	0.022	0.0110	273	379	24,719	34,317	37.7%

Respectfully submitted,

Phillip B. Plyler

Phillip B. Plyler
Staff Engineer

Robert N. Kenney

Robert N. Kenney, P.E.
Senior Staff Engineer

