

Infinity Testing Solutions

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Hydrostatic Pressure Proof Tests

Report Number: 22010239B Revision 4

Quotation Number: P22-0205

Report for: **Conqueror Building Materials Inc.**
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Attention: Reuben Massey

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Report Date: June 30, 2022

1.0 INTRODUCTION

At request of Conqueror Building Materials Inc., Infinity Testing Solutions (ITS) conducted ambient hydrostatic pressure proof tests for two (2) copper tube samples as per Infinity Testing Solutions Standard Operating Procedure 8 Revision 5. The samples were assigned with ITS sample numbers and described as below. The tests were performed on June 27th, 2022.

Sample Numbers	Descriptions and Sample ID	Sample Receiving Date
22010239-1	Copper Coil Tube Sample / 1” (28 mm) copper tube, ASTM B 88 K UNS C12200 soft copper coil tube	2022-06-10
22010239-2	Copper Coil Tube Sample / 3/4” (22 mm) copper tube, ASTM B 88 K UNS C12200 soft copper coil tube	

2.0 TEST APPARATUS

2.1 Samples 22010239-1 & 22010239-2 Trial #2

The test was performed on a computer-controlled servo hydraulic pressure testing system at ambient temperature. Test medium was city water. The sample had a properly sized fitting installed for pressure input, as seen in Figures section. The sample was pre-filled with city water and free of entrapped air before testing was performed.

As per clients request tests were completed as per ASTM B88-20 Section 11.1.2.1. The test pressure was increased for sample 22010239-1 at a constant ramp rate until a minimum of 726 psi was reached and held for ten seconds. The test pressure was increased for sample 22010239-2 at a constant ramp rate until a minimum of 947 psi was reached and held for ten seconds. The pressure time history and maximum pressure was recorded by a precision pressure transducer.

3.0 TEST INSTRUMENTATION

Instrument Name	Range	ITS Instrumentation Number	Serial Number	Calibration Due
Stellar Pressure Transducer	0-5,000 psig	M0241	1707247	2022-11-10

4.0 RESULTS

The test results are listed in the following table:

Sample Number	Trial No.	Test Rate	Result	Figures
22010239-1	2	10 psi/s	Sample held pressure above 726 psi for ten seconds, no leakage observed. Maximum pressure achieved 743 psi.	3
22010239-2	2		Sample held pressure above 947 psi for ten seconds, no leakage observed. Maximum pressure achieved 959 psi.	5

Infinity Testing Solutions Inc.

Prepared and reviewed by:



Rob Banach, Lab Manager

This report refers only to the particular samples provided, and is limited by the test and/or analysis performed. Similar articles may not be of like quality, and other testing and/or analysis methods might give different results.

Figures (3 Pages)

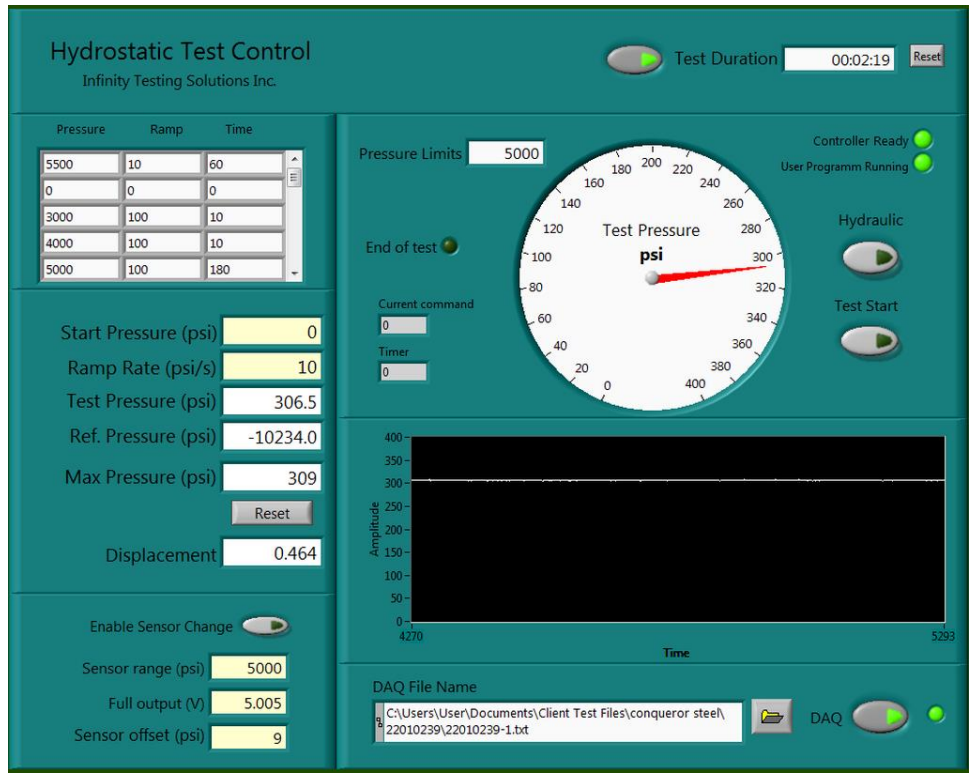


Figure 1: Test control interface



Figure 2: Sample 22010239-1 test setup

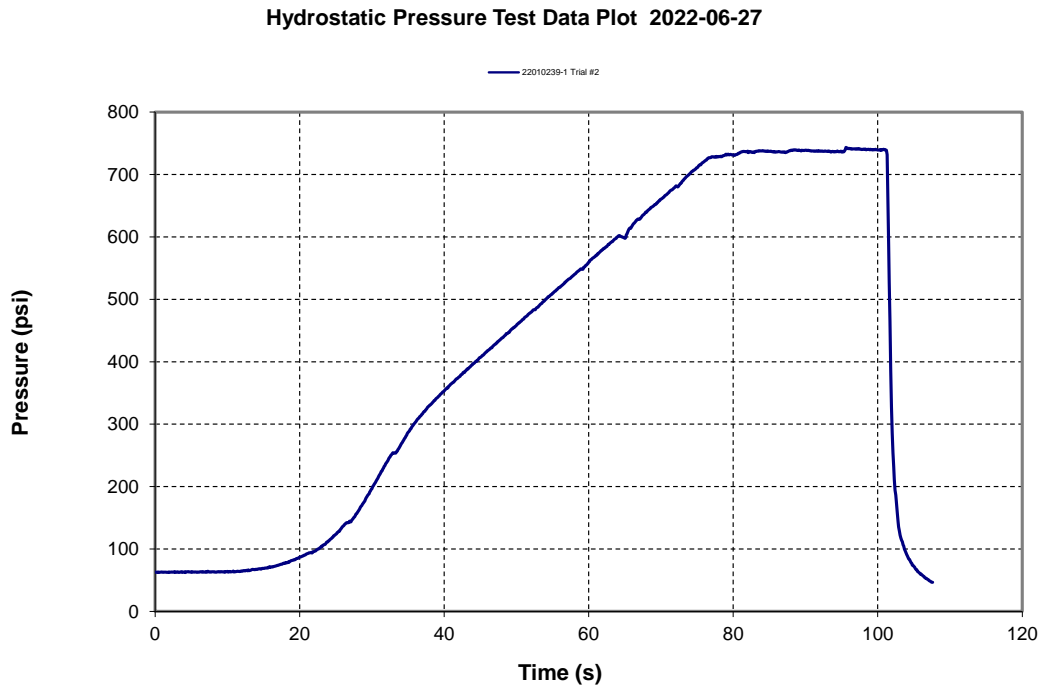


Figure 3: Sample 22010239-1 trial #2 test pressure chart



Figure 4: Sample 22010239-2 test setup

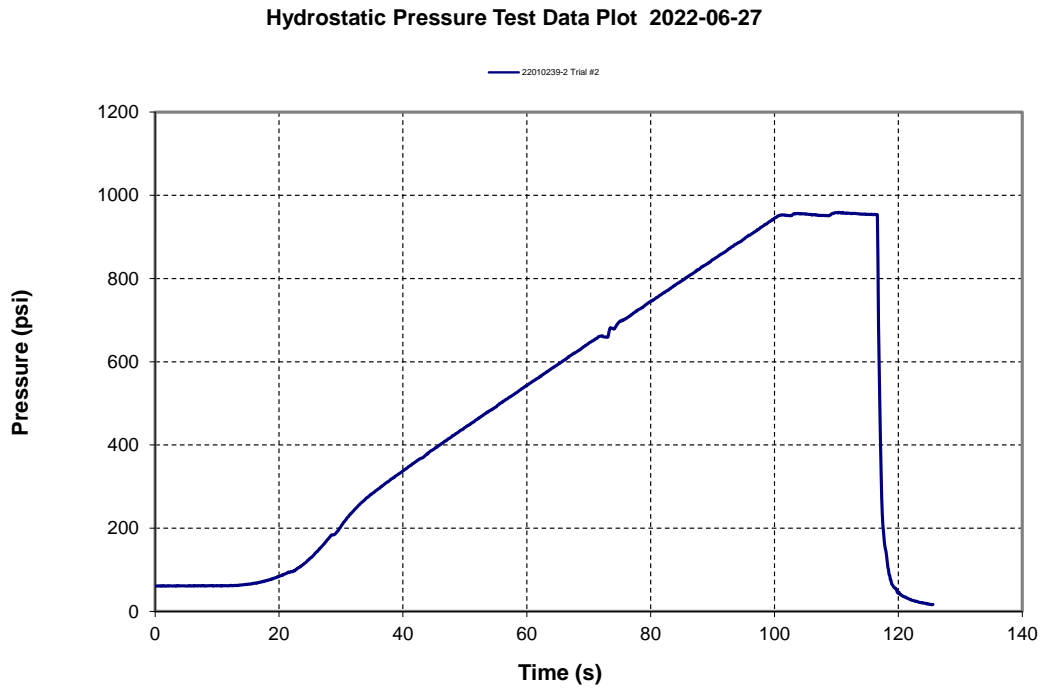


Figure 5: Sample 22010239-2 trial #2 test pressure chart