

**Hocker Incorporated**

13402 Weiman Road Houston, TX 77041

713-464-5829 Fax 713-464-3192

Customer PO #: 86825**Certification #:** 24-1318**ASTM E317-16 Performance Evaluation
Ultrasonic Flaw Detector****Calibration Date:**

9/26/2024

F-UTFL Rev-0**Meets ASTM E317-16 Minimum Requirements?****YES****Due Date:**

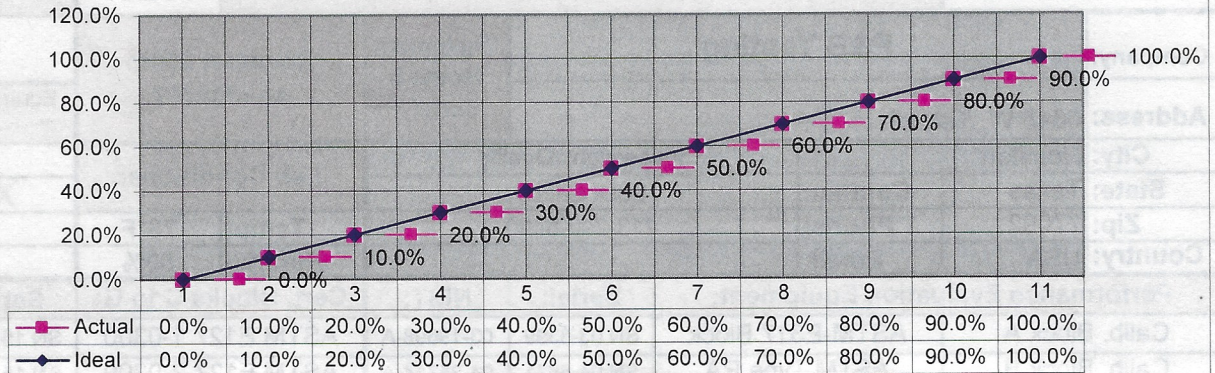
9/26/2025

Company:	P&B Testing				Equipment Model & Serial #	Sonatest 350m sn-I008767		Equipment Condition As Found:		
Address:	6645 W. Tidwell							X		
City:	Houston		Inspections/Quality		Lab Conditions:				New	
State:	Texas		Contact: Buck Snider						Good	
Zip:	77092		Phone: 713-290-8490		Temp: 70°F				Poor	
Country:	USA		Email:		Hum. %: 50%					
Performance Evaluation Equipment:			Serial:	NIST:	Cert. Blocks C to G:		Serial:	NIST:		
Calib. Block A			ASTM-E317 Block	SN 03-8399	03-19698-A	ASTM E127 1-0300	SN 15-8035	14-20265-A		
Calib. Block B			ASTM Type RA	SN 04-5671	04-25714-A	ASTM E127 2-0300	SN 15-8036	14-21740-A		
Transducer "A"			FCHR-5050 Hi Res	SN 931/37	n/a	ASTM E127 3-0300	SN 15-8037			
Transducer "B"			PSLM-5050 5mhz 1/2"	SN 504/03	n/a	ASTM E127 4-0300	SN 15-8038			
Transducer "C"			PSLM-5050 5mhz 1/2"	SN 424/20	n/a	ASTM E127 5-0300	SN 15-8039			
Calibrated Attenuator			S/N: SO383925		NIST #:	1821-1022/1109579/9000-1439,1230,1336_Q1664				
Horizontal Limit Linearity					Vertical Limit Linearity					
Horiz. Accuracy Limit + or -		2.0%			Verticle Accuracy Limit + or -			2.0%		
Meets Accuracy Required?		Yes			Meets Accuracy Required?			Yes		
Horiz. Accuracy Deviation		0.0%			Vert. Accuracy Deviation			-2.0%		
Horiz. Screen Width used?		10"			Equipment Overall Pass/ Fail Result:			Pass		
% Horiz. Screen Width				% Vertical Screen Height						
Echo #	Actual %	Ideal	Deviation	Ideal %	Actual %	Ideal%	Actual%	Ideal%	Actual%	
1	0.0%	0.0%	0.0%	+1db steps		-2db steps		-4db Steps		
2	10.0%	10.0%	0.0%	50.0%	50.0%	50.0%	50.0%	16.0%	15.0%	
3	20.0%	20.0%	0.0%	56.0%	56.0%	40.0%	40.0%	10.0%	9.0%	
4	30.0%	30.0%	0.0%	63.0%	63.0%	31.0%	31.0%	6.0%	6.0%	
5	40.0%	40.0%	0.0%	71.0%	71.0%	25.0%	25.0%	5.0%	3.0%	
6	50.0%	50.0%	0.0%	79.0%	80.0%	20.0%	20.0%	3.0%	2.0%	
7	60.0%	60.0%	0.0%	89.0%	89.0%	16.0%	15.0%	2.0%	1.0%	
8	70.0%	70.0%	0.0%	100.0%	99.0%					
9	80.0%	80.0%	0.0%	Maximum Vertical Deviation					-2.0%	
10	90.0%	90.0%	0.0%							
11	100.0%	100.0%	0.0%	Sensitivity & Noise						
Maximum Horizontal Deviation				0.0%		Test Block Number	Sig. Ampl.	Break Pt.	Noise Lvl.	Hole Size
Accuracy Of Calibrated Gain Controls				ASTM E127 1-0300		60.0%	3.0%	1.0%	1/64	
Ideal	Actual	Ideal	Actual	ASTM E127 2-0300		60.0%	5.0%	1.0%	1/32	
1	1	10	10	ASTM E127 3-0300		60.0%	6.0%	1.0%	3/64	
2	2	12	12	ASTM E127 4-0300		60.0%	8.0%	1.0%	1/16	
4	4	14	14	ASTM E127 5-0300		60.0%	10.0%	1.0%	5/64	
6	6	20	20							
Near Surface Resolution at 80%				Far Surface Resolution at 80%		Gain Control Deviation DB				0
Depth	Break Pt.	Noise %	Depth	Break Pt.	Noise %	Max Noise Level (Sensitivity & Noise Test)				1.0%
0.7"	5.0%	1.0%	.01"	3.0%	1.0%					
0.5"	5.0%	1.0%	.02"	5.0%	1.0%	Max Noise Level (Resolution Test)				1.0%
0.3"	5.0%	1.0%	.03"	5.0%	1.0%					

Buck Snider

Horizontal Linearity As Received!

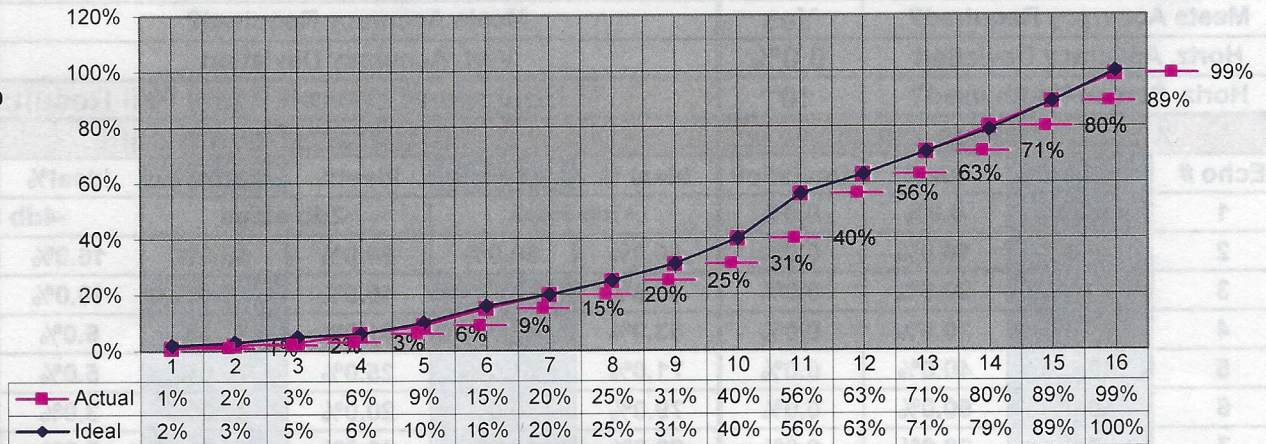
Screen Width in %



Backwall Echo #

Vertical Linearity As Received!

Screen Height in %



Return Echo #

Notes:

This performance evaluation was done in accordance with ASTM-E317-16 and Hocker Incorporated procedure CP-UTFL Rev 0. Test equipment and calibration blocks used to perform this evaluation are traceable to the National Institute of Standards and Technology. NIST numbers listed in this document and supporting documentation is on file. This performance evaluation is made in conformance with ANSI/NCSL 2540.3-2006 and/or ISO 10012, and with 10CFR21.

Technician Signature:

F-UTFL Rev-0 05/01/2018

Technician Performing Evaluation: Roger Kimmons

Date:

9/26/2024

Approval Signature:

Approved By: Derrick Schumann