



Hocker Incorporated
13402 Weiman Road Houston, TX 77041
713-464-5829 Fax 713-464-3192

Customer PO #:	85382
Certification #:	20-1156
Calibration Date:	8/25/2020

**ASTM E317-16 Performance Evaluation
Ultrasonic Flaw Detector**

F-UTFL Rev-0

Meets ASTM E317-16 Minimum Requirements?

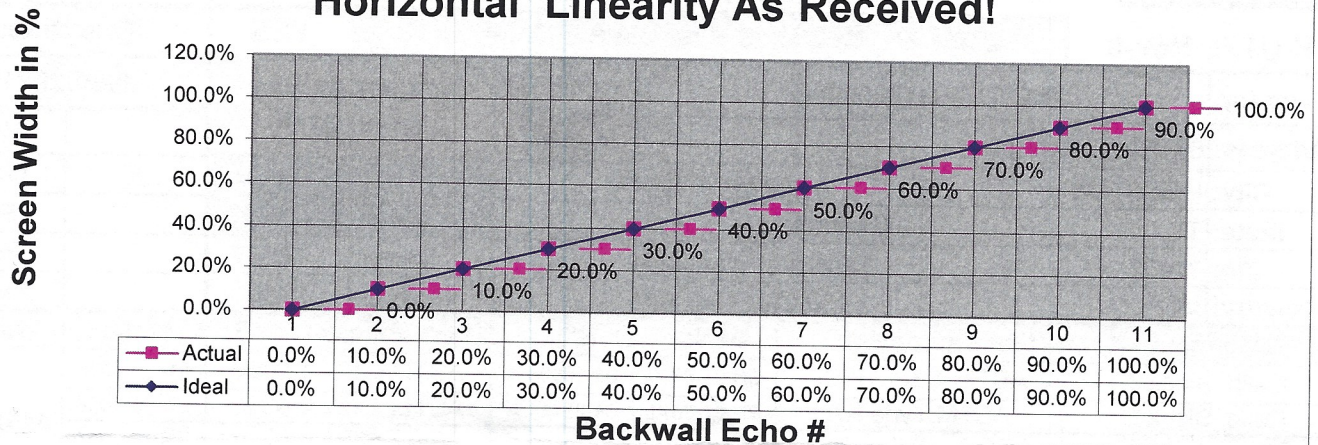
YES

Due Date:

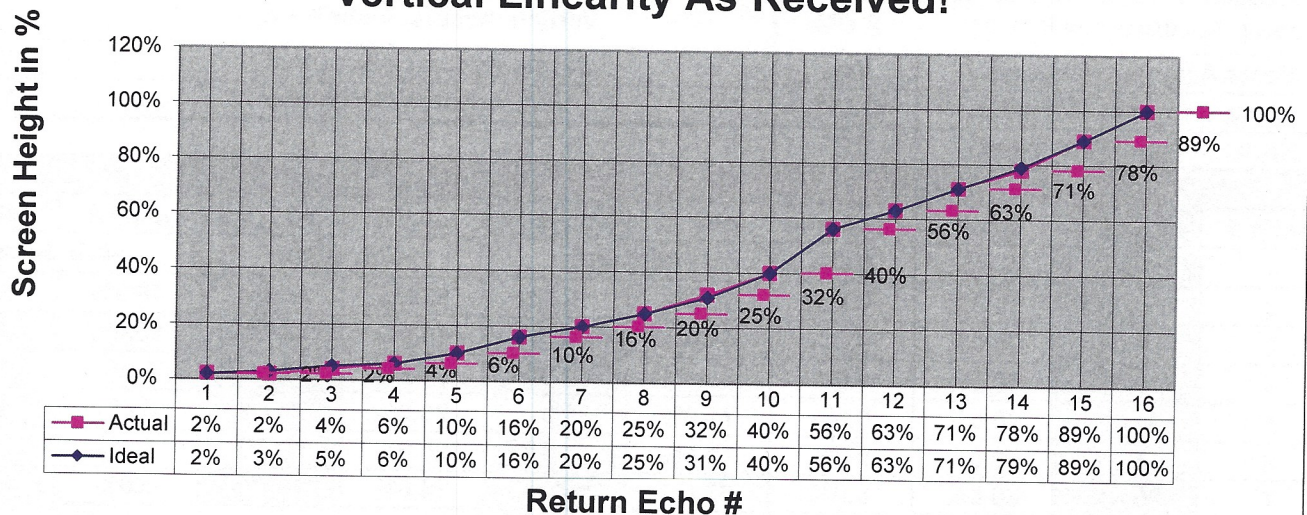
8/25/2021

Company:	P & B TESTING INC.			Equipment Model & Serial #	SONATEST 250S S/N:I008750		8/25/2021		
Address:	6645 W.TIDWELL							New	
City:	HOUSTON	Inspections/Quality			Lab Conditions:		X	Good	
State:	TX	Contact:	Buck Snider					Fair	
Zip:	77092	Phone:	(713)290-8490			Temp:	70°F	Poor	
Country:	USA	Fax:	(713)290-8627			Hum. %:	44%	Failed	
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 14-21740-A	
Calib. Block B	ASTM Type RA	SN 04-5671	04-25714-A	ASTM E127 2-0300		SN 15-8036			
Transducer "A"	FCRH-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	SN SO 383925	NIST #:	9000-1324, 9000-1230, 9000-1239						
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			-1.0%		
Horiz. Screen Width used?		10"							
% 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%	16.0%
3	20.0%	20.0%	0.0%	56.0%	56.0%	40.0%	40.0%	10.0%	10.0%
4	30.0%	30.0%	0.0%	63.0%	63.0%	31.0%	32.0%	6.0%	6.0%
5	40.0%	40.0%	0.0%	71.0%	71.0%	25.0%	25.0%	5.0%	4.0%
6	50.0%	50.0%	0.0%	79.0%	78.0%	20.0%	20.0%	3.0%	2.0%
7	60.0%	60.0%	0.0%	89.0%	89.0%	16.0%	16.0%	2.0%	2.0%
8	70.0%	70.0%	0.0%	100.0%	100.0%				
9	80.0%	80.0%	0.0%	Maximum Vertical Deviation					-1.0%
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%	16.0%	1.0%	1/64	
Ideal	Actual	Ideal	Actual	ASTM E127 2-0300	60.0%	15.0%	1.0%	1/32	
1	1	10	10	ASTM E127 3-0300	60.0%	11.0%	1.0%	3/64	
2	2	12	12	ASTM E127 4-0300	60.0%	11.0%	1.0%	1/16	
4	4	14	14	ASTM E127 5-0300	60.0%	8.0%	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"	12.0%	1.0%	.01"	12.0%	1.0%				
0.5"	12.0%	1.0%	.02"	8.0%	1.0%	Max Noise Level (Resolution Test)		1.0%	
0.3"	15.0%	1.0%	.03"	8.0%	1.0%				

Horizontal Linearity As Received!



Vertical Linearity As Received!



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: Jacob Hocker

Date:

8/25/2020

Approval Signature:

APPROVED

Approved By: Derrick Schumann

AUG 25 2020

An ISO 9001:2015 Registered Company

BUCK SNIDER