



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

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

Customer PO #:	87072
Certification #:	25-1171
Calibration Date:	10/8/2025

F-UTFL Rev-0

Meets ASTM E317-16 Minimum Requirements?

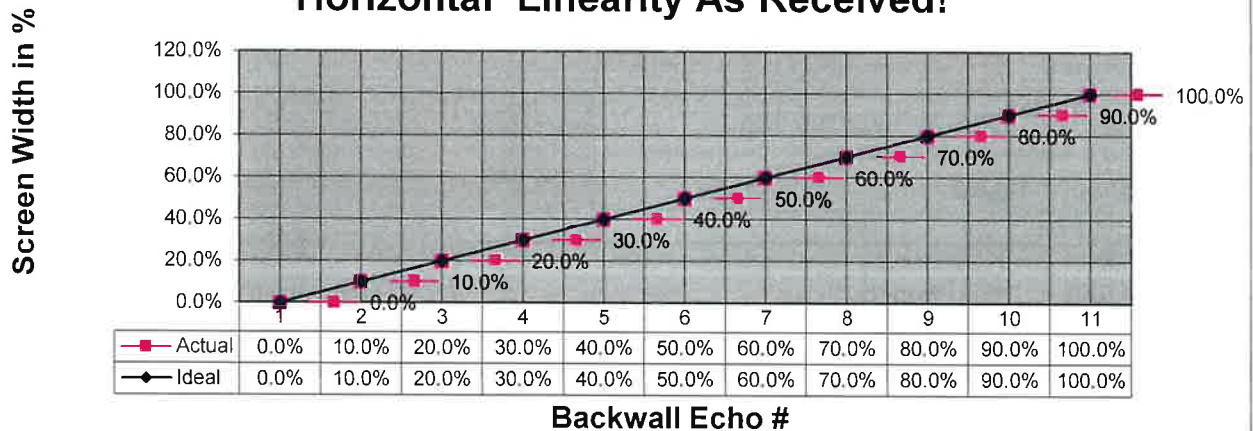
YES

Due Date:

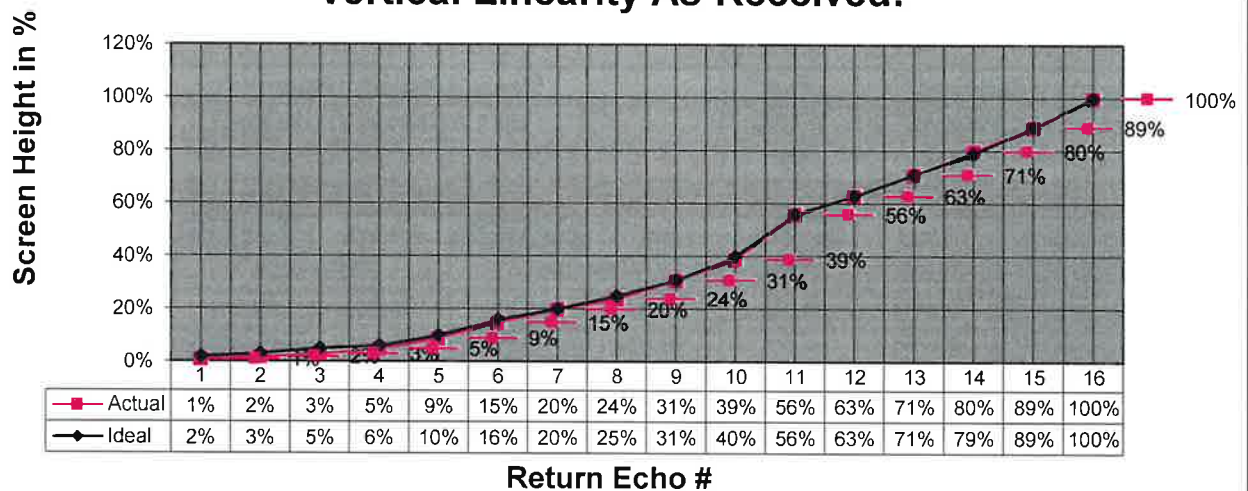
10/8/2026

Company:	P & B Testing, Inc.			Equipment Model & Serial #	Sonatest Masterscan 333 S/N: 3401542C		Equipment Condition As Found:		
Address:	6645 W. Tidwell								
City:	Houston					Lab Conditions:		New	
State:	TX	Contact:	Buck Snider					Good	
Zip:	77092	Phone:	N/A			Temp:	70°F	Poor	
Country:	USA	Email:	qa@pbtesting.com			Hum. %:	50%	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	
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 #:	1821-1022/115309/9000-1439,1230,1451/Q1749				
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%	39.0%	10.0%	9.0%
4	30.0%	30.0%	0.0%	63.0%	63.0%	31.0%	31.0%	6.0%	5.0%
5	40.0%	40.0%	0.0%	71.0%	71.0%	25.0%	24.0%	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%	100.0%				
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%	6.0%	1.0%	1/16	
4	4	14	14	ASTM E127 5-0300	60.0%	6.0%	1.0%	5/64	
6	6	20	20				Gain Control Deviation DB		0
Near Surface Resolution at 80%			Far Surface Resolution at 80%						
Depth	Break Pt.	Noise %	Depth	Break Pt.	Noise %	Max Noise Level (Sensitivity & Noise Test)		1.0%	
0.7"	6.0%	1.0%	.01"	5.0%	1.0%				
0.5"	5.0%	1.0%	.02"	2.0%	1.0%	Max Noise Level (Resolution Test)		1.0%	
0.3"	4.0%	1.0%	.03"	7.0%	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:

Patricia Lock

F-UTFL Rev-0 05/01/2018

Technician Performing Evaluation: Patricia Lock

Date:

10/8/2025

Approval Signature:

Derrick Schumann

Approved By: Derrick Schumann

Buck Snider

An ISO 9001:2015 Registered Company