



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

Customer PO #:	85392
Certification #:	20-1301

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

Calibration Date:
9/21/2020

F-UTFL Rev-0

Meets ASTM E317-16 Minimum Requirements?

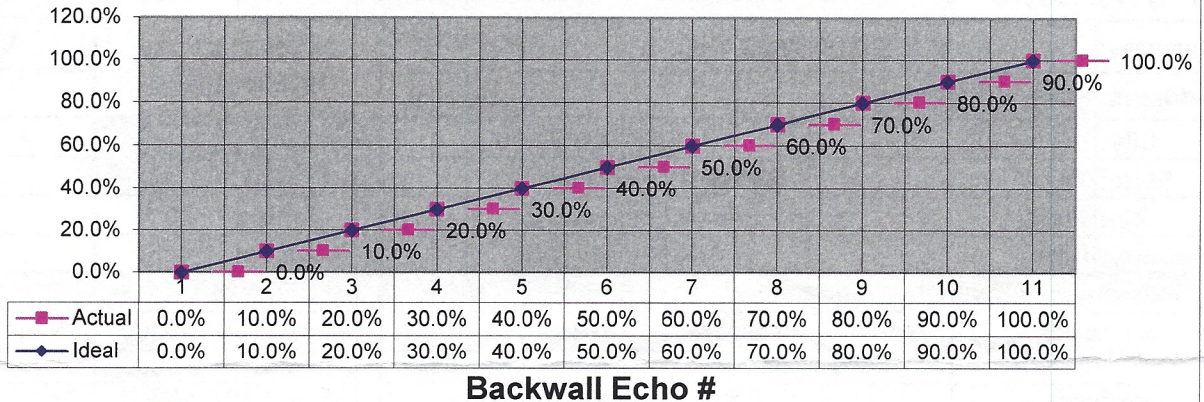
YES

Due Date:

Company:	P & B TESTING INC.		Equipment Model & Serial #	SONATEST 333 S/N:3401542C		9/21/2021			
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. %:	46%		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				
Calib. Block B	ASTM Type RA	SN 04-5671	04-25714-A	ASTM E127 2-0300	SN 15-8036				
Transducer "A"	FCHR-5050 Hi Res	SN 931/37	n/a	ASTM E127 3-0300	SN 15-8037		14-20265-A		
Transducer "B"	PSLM-5050 5mhz 1/2"	SN 504/03	n/a	ASTM E127 4-0300	SN 15-8038		14-21740-A		
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%	72.0%	25.0%	26.0%	5.0%	4.0%
6	50.0%	50.0%	0.0%	79.0%	79.0%	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%	15.0%	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%	15.0%	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%	11.0%	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"	12.0%	1.0%	.01"	18.0%	1.0%				
0.5"	10.0%	1.0%	.02"	15.0%	1.0%	Max Noise Level (Resolution Test)			1.0%
0.3"	10.0%	1.0%	.03"	15.0%	1.0%				

Horizontal Linearity As Received!

Screen Width in %



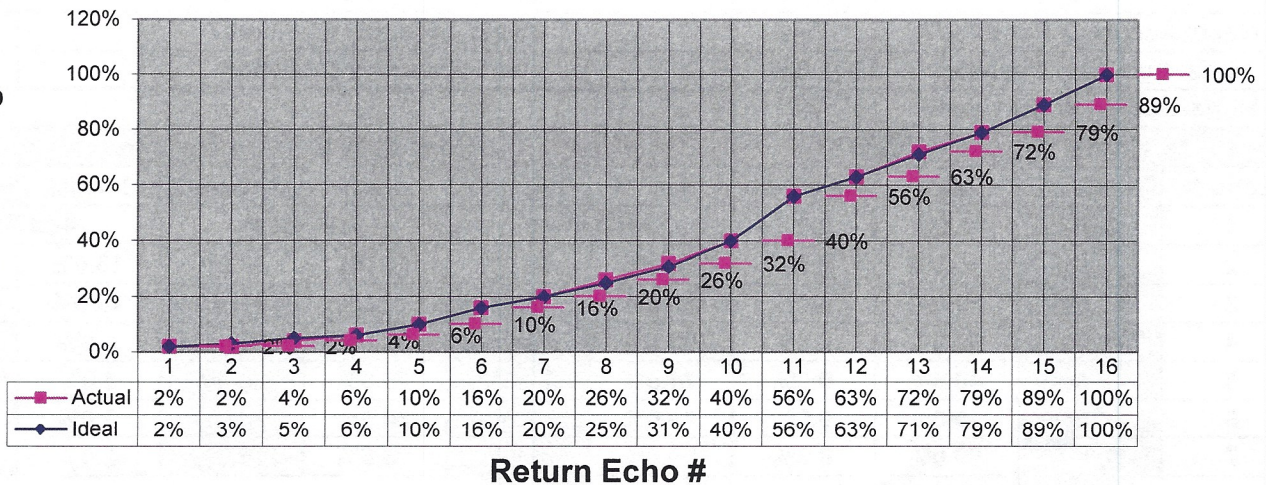
APPROVED

SEP 23 2020

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Vertical Linearity As Received!

Screen Height in %



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: **9/21/2020**

Approval Signature: _____

Approved By: Derrick Schumann

An ISO 9001:2015 Registered Company