

MERCK SHIDER

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

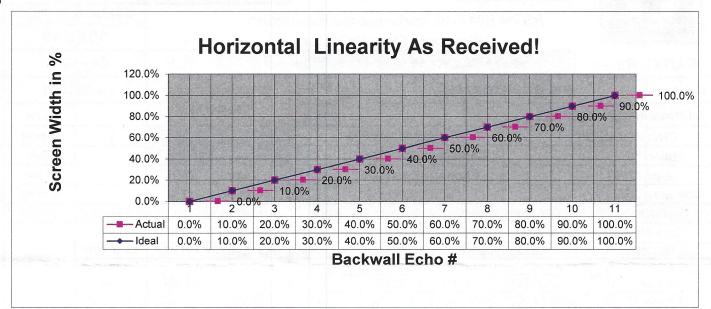
**Customer PO #:** 85382 Certification #: 20-1155 **Calibration Date:** 

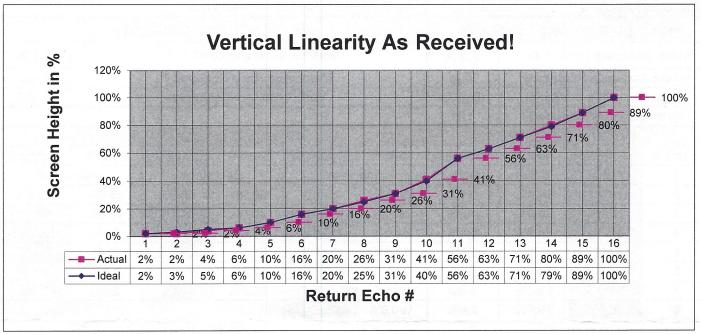
## **ASTM E317-16 Performance Evaluation** Ultrasonic Flaw Detector

III a a lea		ASIIV	L 51/-10	Performa	nce Evail	lation			
Hocker Inc.  ASTM E317-16 Performance Evaluation Ultrasonic Flaw Detector								8/25/2020	
				7-16 Minimum Requirements? YES				Due Date:	
Company:	P & B TESTING INC.			Equipment Model &		SONATE	ST 250S	8/25/2021	
Address:	6645 W.TIE	WELL		Serial #		S/N:1009664			New
	City: HOUSTON			Inspections/Quality		1.1.0 1111		X	Good
				Contact: Buck Snider			Lab Conditions:		Fair
<b>Zip:</b> 77092				(713)290-8490		Temp:	70°F		Poor
Country: USA				Fax: (713)290-8627		Hum.%:	47%		Failed
Performance Evaluation Equipmen				Serial:	NIST:	Cert. Bloc	ks C to G:	Serial:	NIST:
			317 Block	SN 03-8399	03-19698-A	ASTM E12	27 1-0300	SN 15-8035	
		ASTM 7	ype RA	SN 04-5671	04-25714-A	ASTM E127 2-0300		SN 15-8036	14-20265-
Transducer "A"		FCHR-5050 Hi Res		SN 931/37	n/a	ASTM E127 3-0300 SN 15-8037 ASTM E127 4-0300 SN 15-8038		14-20265-7	
		PSLM-5050 5mhz 1/2"		SN 504/03	n/a				
			5mhz 1/2"			ASTM E127 5-0300 000-1230, 9000-1239		SN 15-8039	
		SN SO		NIST #:				14	
		imit Line				tical Lin		rity	
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%
	creen Widt		10"						
%	Horiz. So	reen Wid	th			ertical Sc			
Echo#	Actual %	Ideal	Deviation	Ideal %	Actual %	Ideal%	Actual%	Ideal%	Actual%
1	0.0%	0.0%	0.0%		steps		steps	-4db	
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%	41.0%	10.0%	10.0%
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%	26.0%	5.0%	4.0%
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%	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 Deviati					-1.0%
10	90.0%	90.0%	0.0%	Considirator 9 Noise					
11	100.0%	100.0%	0.0%			Sensitivity & Noise			
Maximum Horizontal Deviation 0.0%			0.0%	Test Bloc	k Number	Sig. Ampl.	Break Pt.	Noise Lvl.	Hole Siz
Accura	cy Of Calibi	rated Gain C	ontrols	ASTM E1	27 1-0300	60.0%	15.0%	1.0%	1/64
Ideal	Actual	Ideal	Actual	ASTM E1	27 2-0300	60.0%	11.0%	1.0%	1/32
1	1	10	10	ASTM E1	27 3-0300	60.0%	12.0%	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%	8.0%	1.0%	5/64
6 6 20			20			Gain Control Deviation DB			0
Near Surf	ace Resolut	ion at 80%	Far Surfa	ce Resoluti					
Depth	Break Pt.	Noise %	Depth	Break Pt. Noise %		Max Noise Level		1.0%	
0.7"	18.0%	1.0%	.01"	15.0%	15.0% 1.0% (Sensitivity & Noise Test)		se Test)		
11 4 17 8 2 6	40.00/	1.0%	.02"	15.0% 1.0%		Max Noise Level (Resolution Test)		4 00/	
0.5"	18.0%	1.0 /0	.02	10.070	110 /0	1010	ax Holde Ec	, ( )	1.0%

Certification #
Certification Date

20-1155 8/25/2020





Notes:

Inis 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

Approval Signature:

Date:

8/25/2020 APPROVED

Approved By: Derrick Schumann

AUG 2 5 2020

An ISO 9001:2015 Registered Company

