

3/13/2008

Material Testing and Non-Destructive Testing

Tony Archibald  
Talan Products Inc  
18800 Cochran Avenue  
Cleveland, OH 44110-2700

5405 E. Schaaf Road  
Cleveland, OH 44131  
USA

Date Received: 2/26/2008

Telephone : (216) 524-1450  
Fax : (216) 524-1459  
Website : www.storkherron.com

Test Report No.: TAL006-08-02-54789

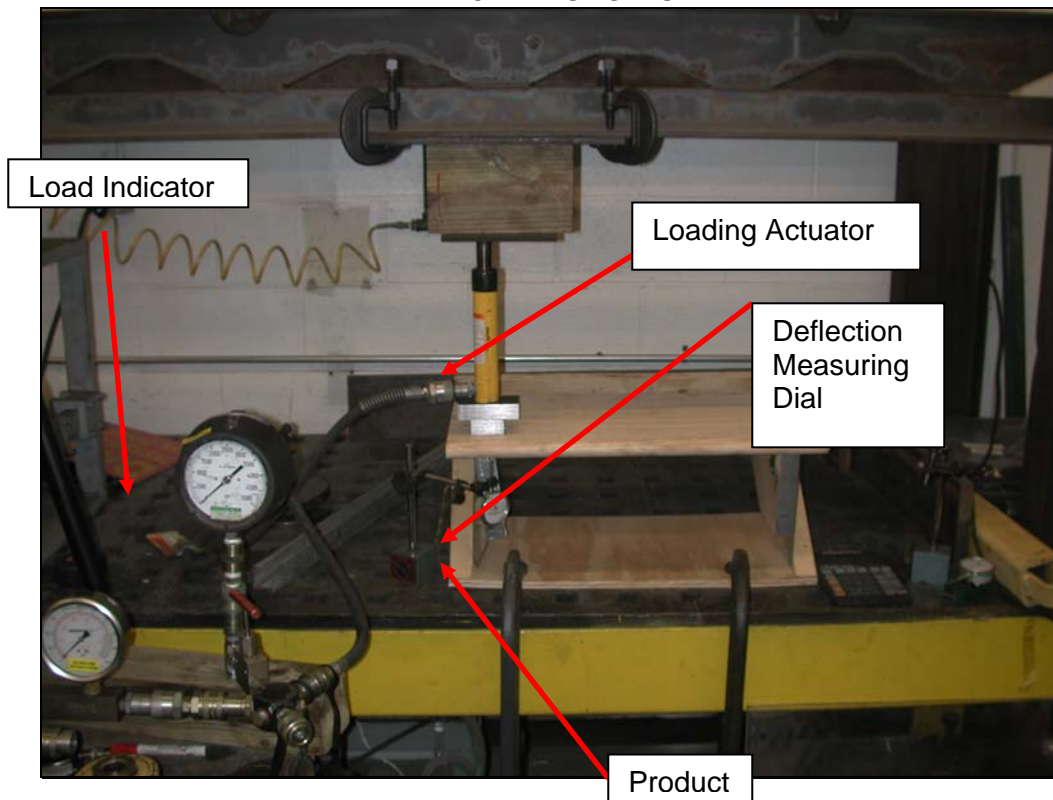
**TEST REPORT**

Sample Description: Four (6) Universal Staircase Brackets, Bracket Part #'s: USBR & USBL

**TEST PROCEDURE**

Test samples were securely mounted. Loads were applied incrementally directly over the metal bracket until bracket buckling.

**TYPICAL TEST SETUP**



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General Manager, COO

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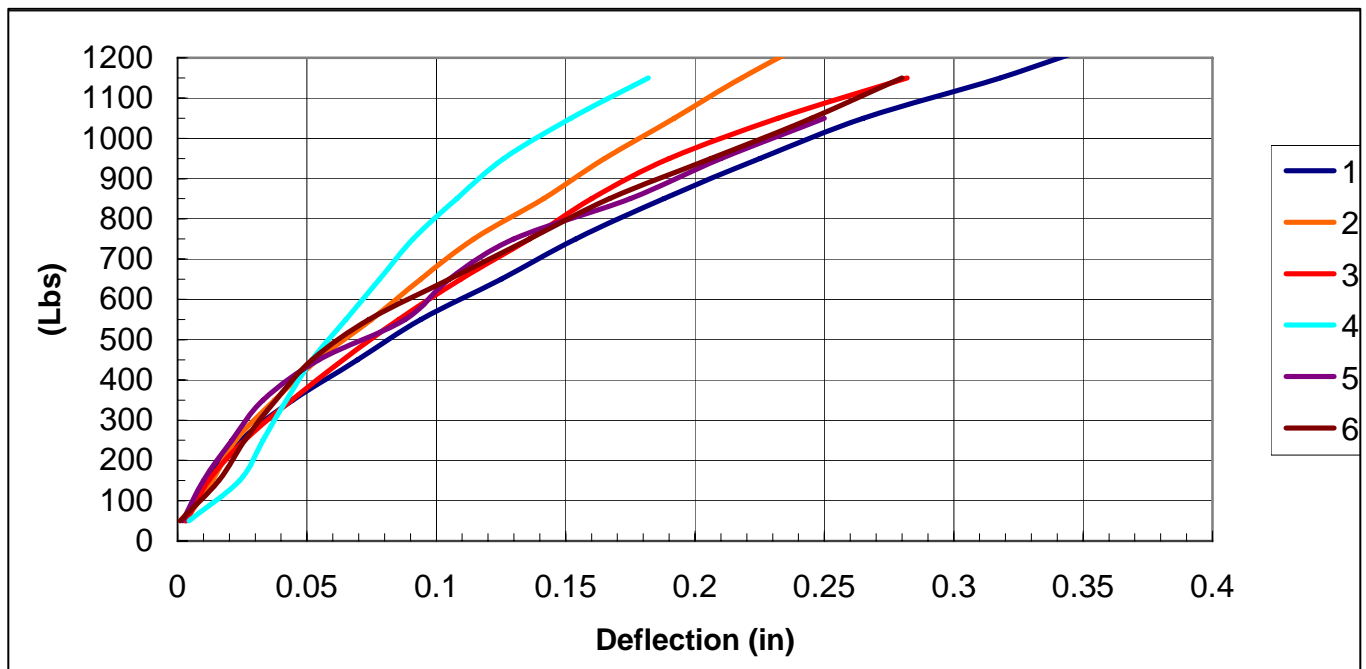
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**LOAD DEFLECTION CURVES**



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**TEST REPORT**

**TEST DATA**

lbs	Sample ID					
	1 of 6	2 of 6	3 of 6	4 of 6	5 of 6	6 of 6
50	0.003	0.003	0.0035	0.0045	0.002	0.001
150	0.0115	0.0135	0.012	0.024	0.01	0.016
250	0.0245	0.0225	0.026	0.033	0.021	0.026
350	0.0445	0.0375	0.044	0.042	0.033	0.038
450	0.0695	0.054	0.064	0.052	0.0545	0.052
550	0.094	0.075	0.0855	0.065	0.088	0.074
650	0.125	0.094	0.1095	0.078	0.105	0.105
750	0.154	0.1145	0.136	0.091	0.13	0.136
850	0.188	0.1415	0.16	0.108	0.175	0.167
950	0.225	0.165	0.19	0.126	0.21	0.206
1050	0.265	0.192	0.232	0.152	0.25	0.245
1150	0.318	0.218	0.282	0.182		0.28
1250	0.365	0.248			0.35	
1350	0.425	0.284				
1450	0.485	0.318				
1550						

	Sample ID					
	1 of 6	2 of 6	3 of 6	4 of 6	5 of 6	6 of 6
<b>Load at Buckling (lbs)</b>	1550	1550	1250	1250	1450	1250
<b>% Humidity</b>	41.5%	40.7%	43.0%	43.4%	38.1%	41.6%

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**TEST REPORT**

**POST TEST SAMPLES**

Sample 1



Sample 2



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**TEST REPORT**

Sample 3



Sample 4



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