

**Modified ASTM D3043, Standard Method for Testing Structural Panels in Flexure  
 Method A, Center-Point Flexure Test**

Client: Gerald Henderson  
 Job Number: GHN031811-8  
 Test Location: *NTA, Inc.*  
*Nappanee, Indiana*

Performed By: Steve Penrose  
 Witnessed By: Jacob Yoder

**General:**  
 Date Received: 3/21/2011  
 Construction Date: 5/9/2011  
 Constructed By: Steve Penrose  
 Test Date: 5/10/2011

**Apparatus:**  
 Asset No.  
 Load Frame: 00140  
 Load Cell: 00575  
 Load Fixture: 00284  
 Support Fixture: 00434

**Ambient Conditions:**

Ambient Temp.: 73.5° F  
 Ambient R.H.: 50.4% R.H.  
 Sensor Asset No.: 00577

**Product Description:**

Manufacturer: Not Provided  
 Trade Name/Designation: Colorado Panels  
 Material Description: Magnesium Oxide panels as roofing material, 36-in. wide x 69-in. long x 0.197-in. thick

**Test Data:**

Test Span: 9.5 in.  
 Load Rate: 0.115 in./min

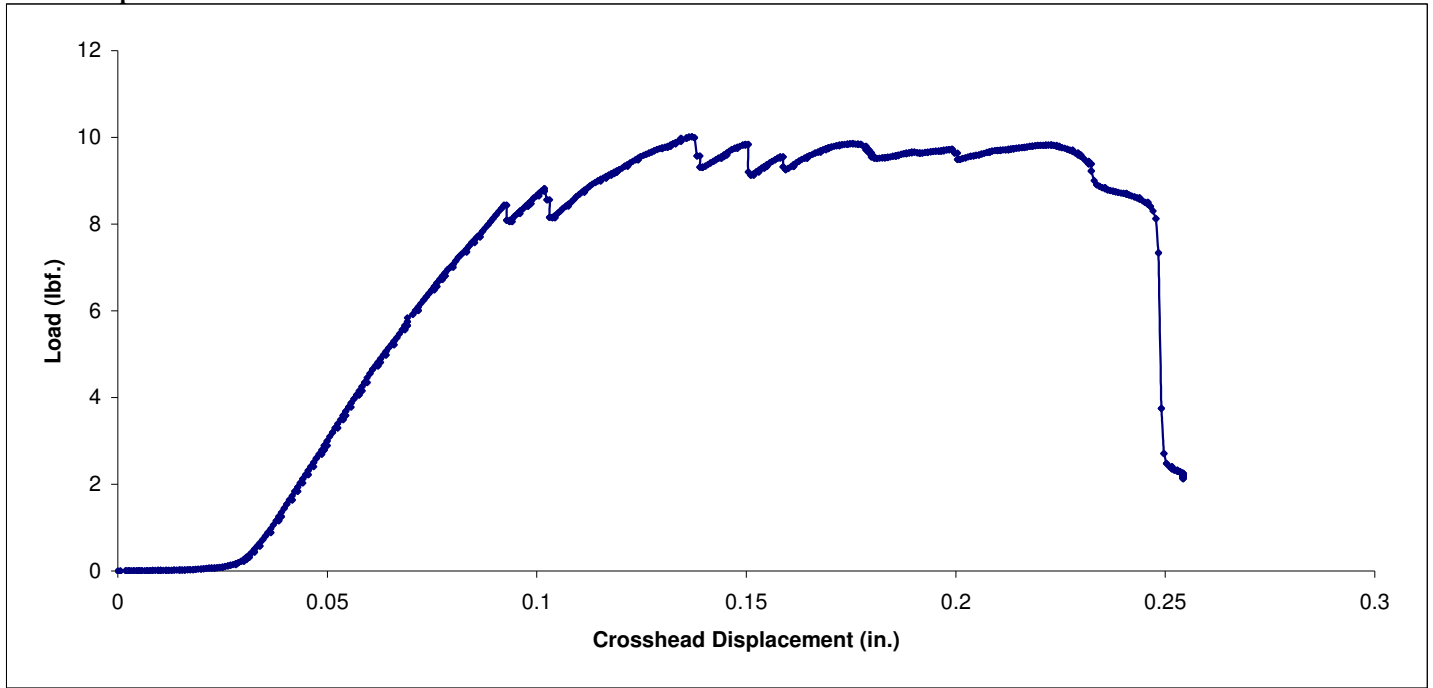
Test Variable / Deviation: Lateral alignment was not provided at end supports to allow free rotation, Dial gauge was not used (Deflections recorded by the machine crosshead);radius of load block used = 0.5, block radius per standard = 0.2955

	Spec. No.	Average Thickness (in.)	Ultimate Load (lbs)	Time to Ultimate (mm:ss)	Bending Stiffness (EI) (psi)	Maximum Moment (lbf-in.)	Failure Mode
1	38799	0.235	10.0	01:12	2680	24	Hairline fracure at load block
2	38801	0.235	10.6	01:17	2835	25	Hairline fracure at load block
3	38802	0.237	10.6	01:37	2535	25	Hairline fracure at load block
4	38803	0.242	10.7	02:34	2826	25	Hairline fracure at load block
5	38804	0.247	10.6	02:06	2342	25	Hairline fracure at load block
	<b>Average:</b>	0.239	10.5		2644	25	

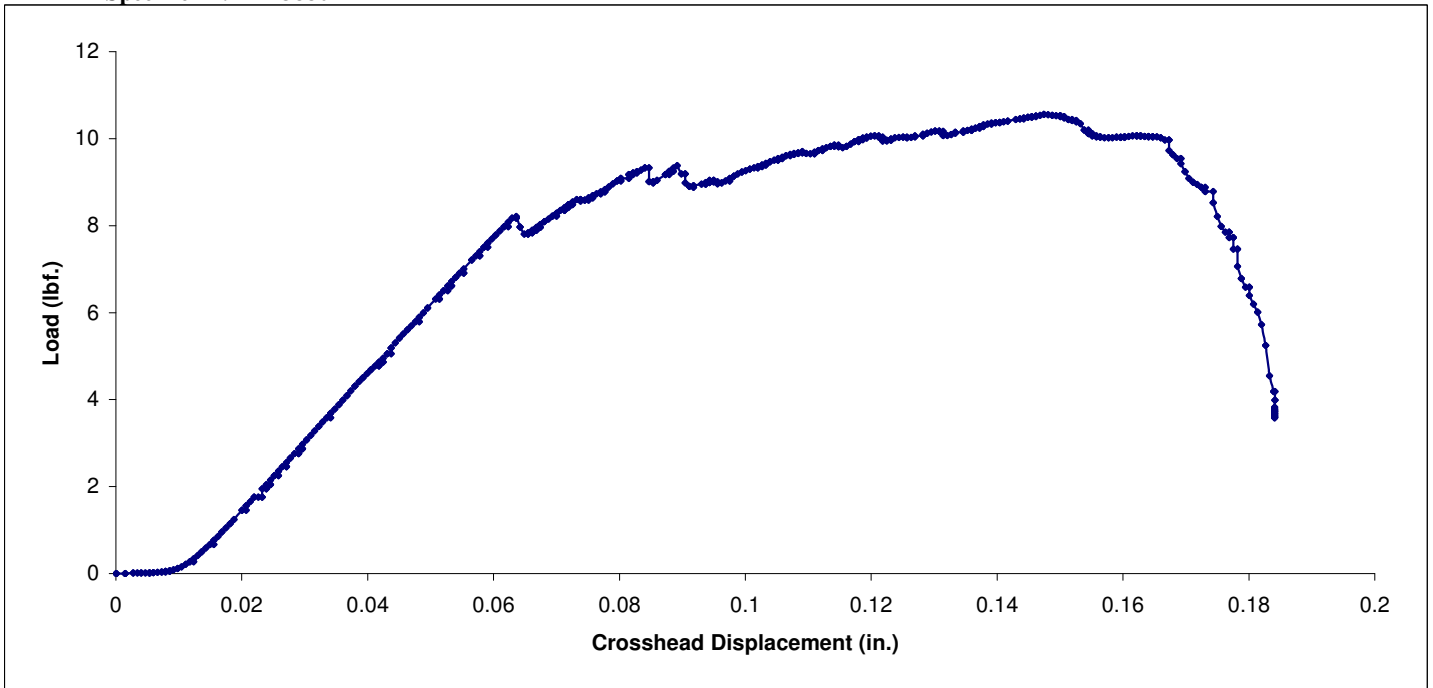
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**Specimen 1: 38799**



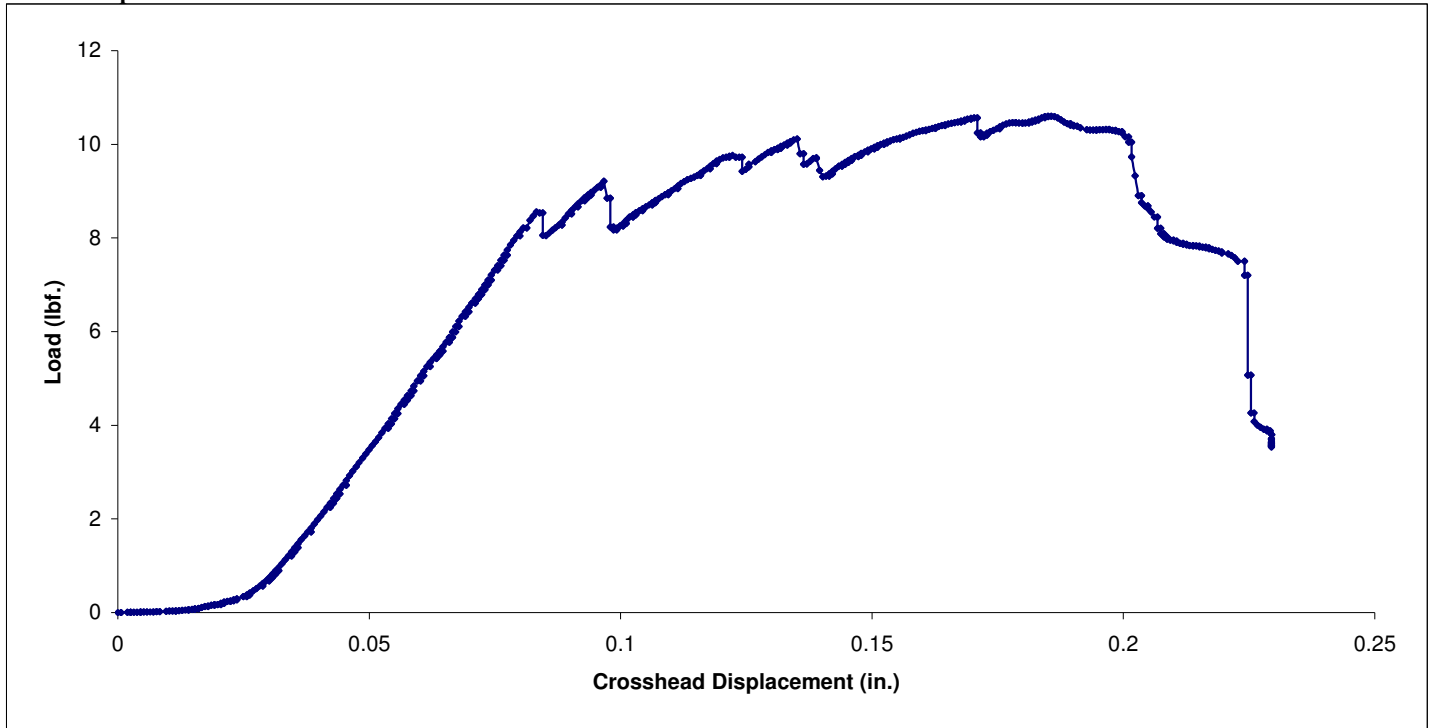
**Specimen 2: 38801**



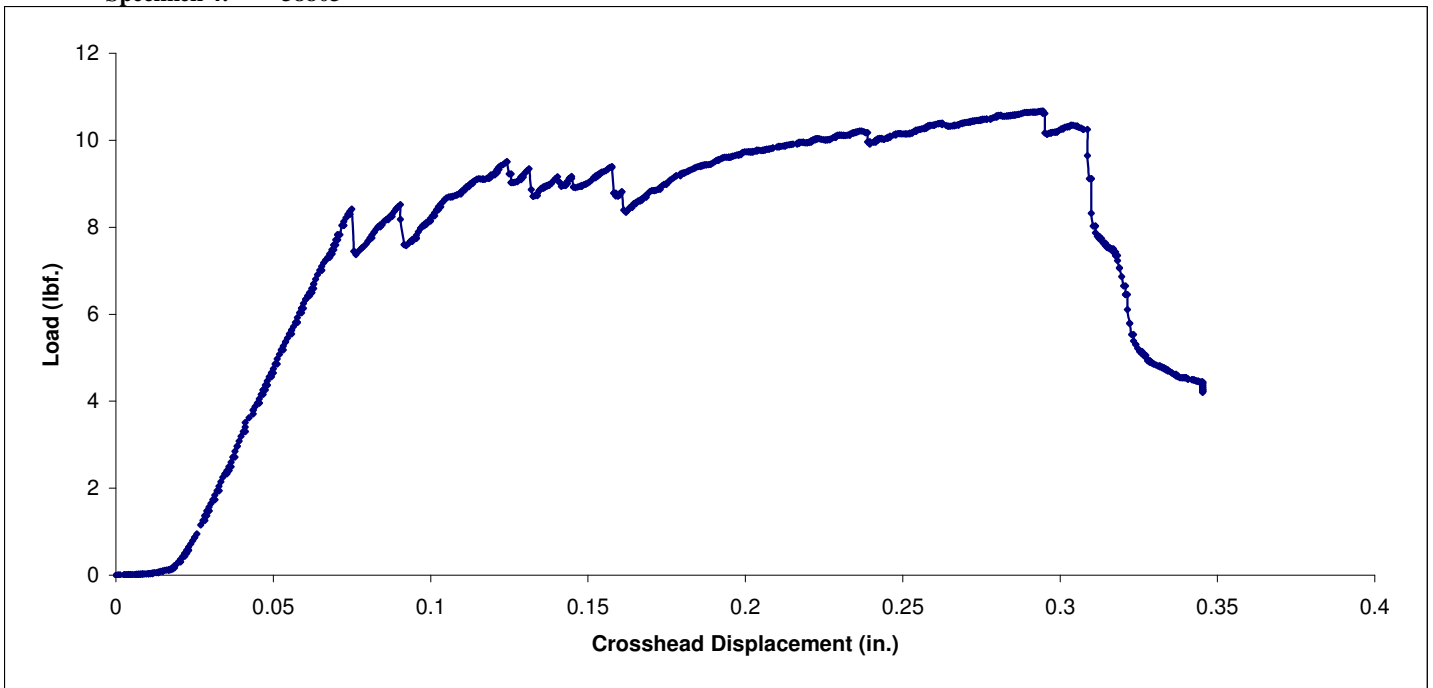
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**Specimen 3: 38802**



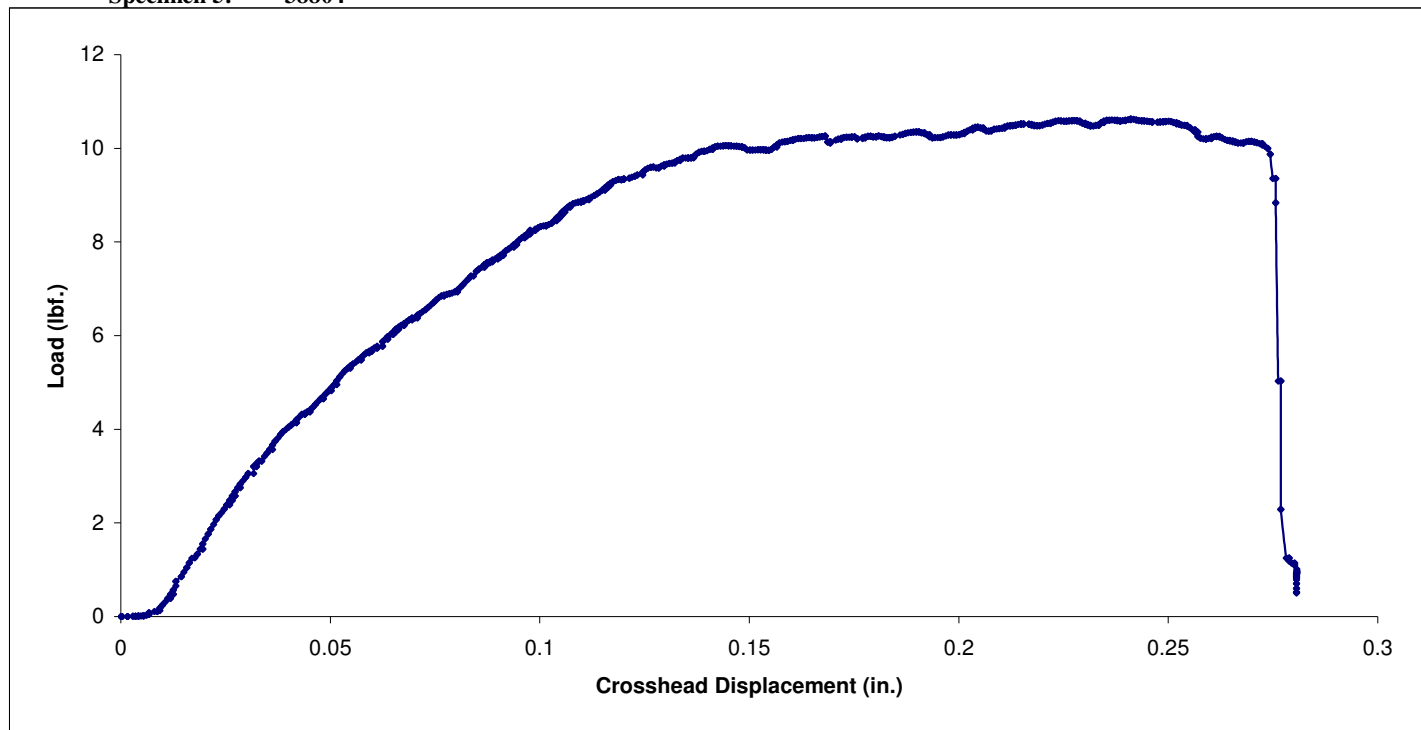
**Specimen 4: 38803**



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**Specimen 5: 38804**



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