

Tension Load Test Result for PLT-17B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

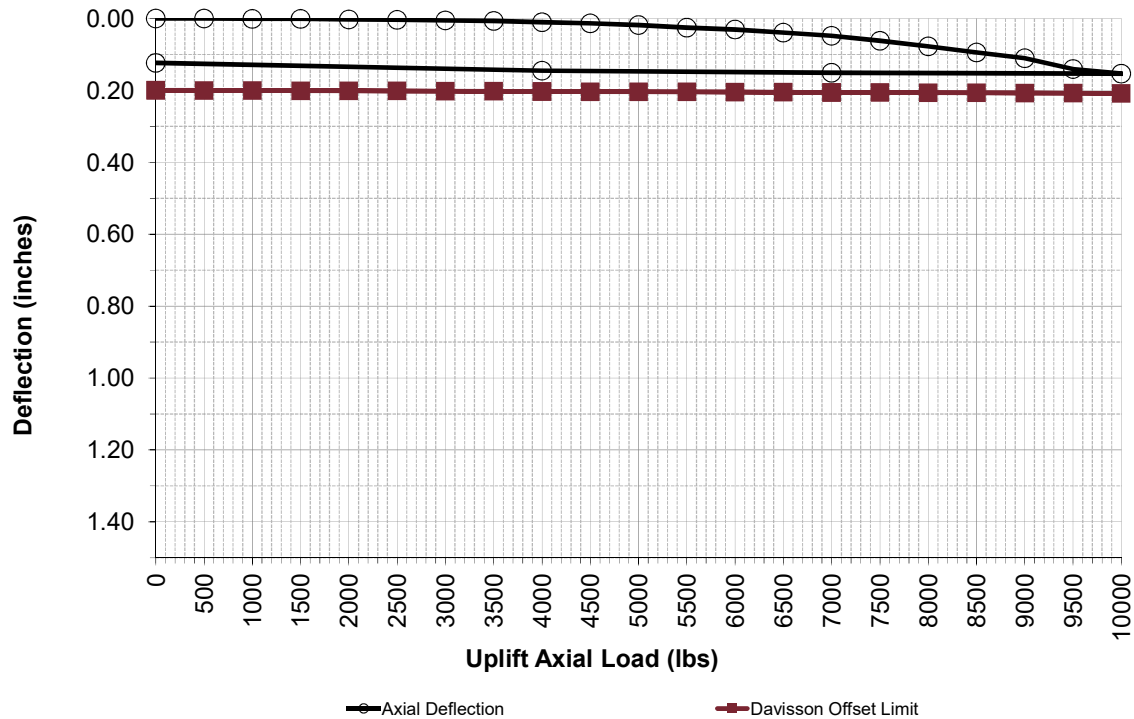
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-17B
Latitude: 43.13577
Longitude: -76.62598
Pile Type: W6x9
Pile Embedment Depth [in]: 68
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 240.1

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.000	0.000	0.200	
27%	1000	0.001	0.001	0.200	
40%	1500	0.001	0.001	0.200	
53%	2000	0.003	0.002	0.201	
67%	2500	0.003	0.002	0.201	
80%	3000	0.005	0.003	0.202	
93%	3500	0.007	0.003	0.202	
107%	4000	0.010	0.003	0.203	
120%	4500	0.013	0.004	0.203	
133%	5000	0.018	0.004	0.204	
147%	5500	0.025	0.005	0.204	
160%	6000	0.031	0.005	0.204	
173%	6500	0.039	0.006	0.205	
187%	7000	0.048	0.006	0.205	
200%	7500	0.062	0.007	0.206	
213%	8000	0.077	0.007	0.206	
227%	8500	0.095	0.007	0.207	
240%	9000	0.111	0.008	0.207	
253%	9500	0.140	0.008	0.207	
267%	10000	0.153	0.009	0.208	
187%	7000	0.151	0.006	0.205	
107%	4000	0.145	0.003	0.203	
0%	0	0.124	0.000	0.199	



Tension Load Test Result for PLT-18A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

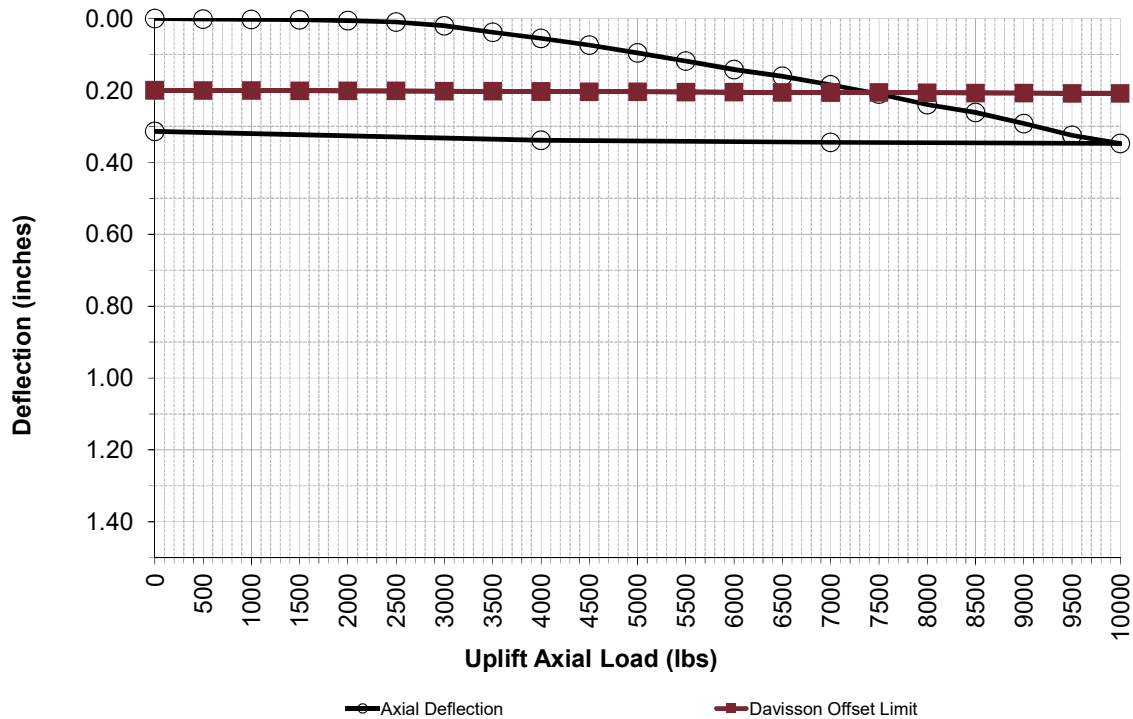
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

Pile Information

Pile ID: PLT-18A
Latitude: 43.13364
Longitude: -76.61948
Pile Type: W6x9
Pile Embedment Depth [in]: 71
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 240

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.001	0.000	0.200	
27%	1000	0.003	0.001	0.200	
40%	1500	0.003	0.001	0.201	
53%	2000	0.006	0.002	0.201	
67%	2500	0.010	0.002	0.201	
80%	3000	0.020	0.003	0.202	
93%	3500	0.038	0.003	0.202	
107%	4000	0.055	0.004	0.203	
120%	4500	0.074	0.004	0.203	
133%	5000	0.095	0.005	0.204	
147%	5500	0.118	0.005	0.204	
160%	6000	0.142	0.005	0.205	
173%	6500	0.161	0.006	0.205	
187%	7000	0.184	0.006	0.206	
200%	7500	0.210	0.007	0.206	
213%	8000	0.240	0.007	0.206	
227%	8500	0.261	0.008	0.207	
240%	9000	0.292	0.008	0.207	
253%	9500	0.325	0.009	0.208	
267%	10000	0.348	0.009	0.208	
187%	7000	0.344	0.006	0.206	
107%	4000	0.339	0.004	0.203	
0%	0	0.314	0.000	0.199	



Tension Load Test Result for PLT-18B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

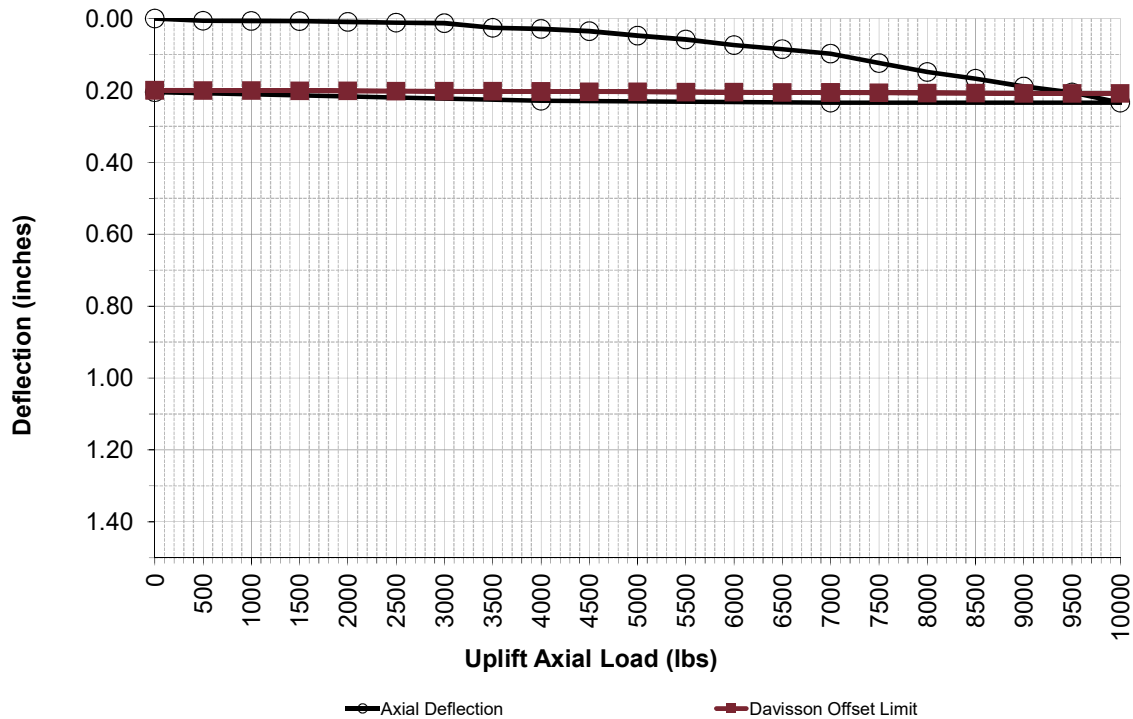
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

Pile Information

Pile ID: PLT-18B
Latitude: 43.13364
Longitude: -76.61948
Pile Type: W6x9
Pile Embedment Depth [in]: 74
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 240

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.006	0.000	0.200	
27%	1000	0.007	0.001	0.200	
40%	1500	0.007	0.001	0.201	
53%	2000	0.009	0.002	0.201	
67%	2500	0.011	0.002	0.202	
80%	3000	0.013	0.003	0.202	
93%	3500	0.026	0.003	0.202	
107%	4000	0.029	0.004	0.203	
120%	4500	0.035	0.004	0.203	
133%	5000	0.048	0.005	0.204	
147%	5500	0.058	0.005	0.204	
160%	6000	0.074	0.006	0.205	
173%	6500	0.085	0.006	0.205	
187%	7000	0.098	0.007	0.206	
200%	7500	0.124	0.007	0.206	
213%	8000	0.149	0.008	0.207	
227%	8500	0.167	0.008	0.207	
240%	9000	0.189	0.009	0.208	
253%	9500	0.205	0.009	0.208	
267%	10000	0.234	0.010	0.209	
187%	7000	0.234	0.007	0.206	
107%	4000	0.229	0.004	0.203	
0%	0	0.205	0.000	0.199	



Tension Load Test Result for PLT-20A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

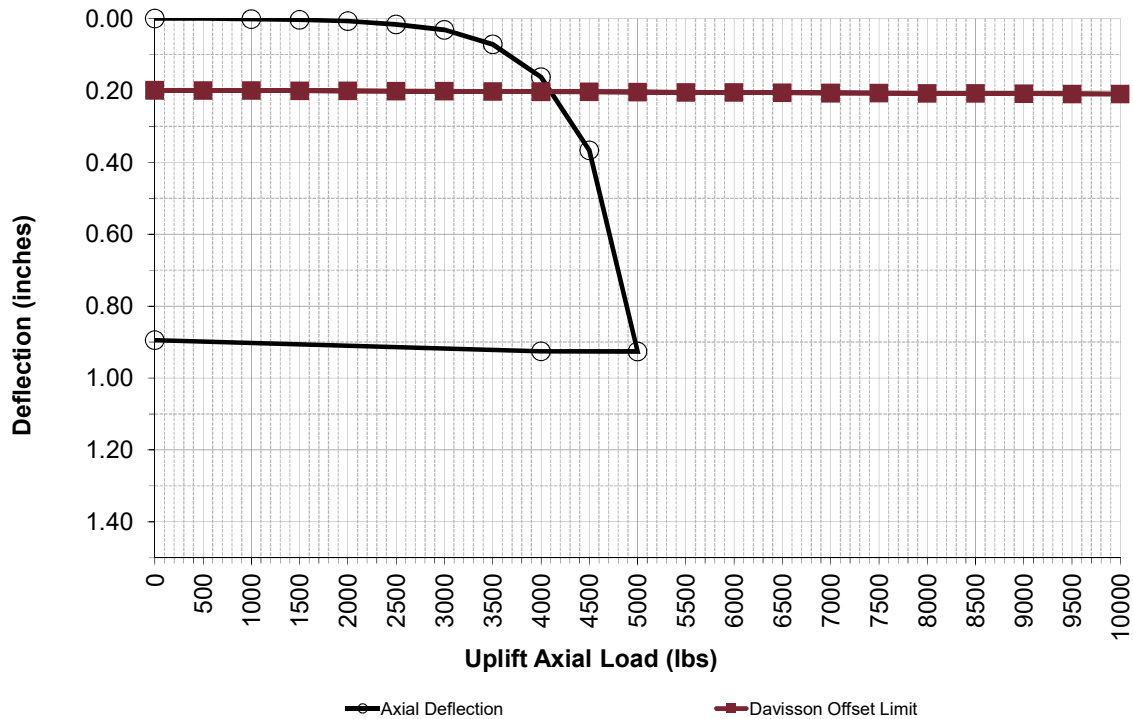
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-20A
Latitude: 43.12289
Longitude: -76.62639
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 36.3

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.000	0.001	0.200	
27%	1000	0.001	0.001	0.200	
40%	1500	0.004	0.002	0.201	
53%	2000	0.007	0.002	0.201	
67%	2500	0.016	0.003	0.202	
80%	3000	0.031	0.003	0.202	
93%	3500	0.072	0.004	0.203	
107%	4000	0.163	0.004	0.203	
120%	4500	0.367	0.005	0.204	
133%	5000	0.926	0.005	0.205	
147%	5500		0.006	0.205	
160%	6000		0.006	0.206	
173%	6500		0.007	0.206	
187%	7000		0.008	0.207	
200%	7500		0.008	0.207	
213%	8000		0.009	0.208	
227%	8500		0.009	0.208	
240%	9000		0.010	0.209	
253%	9500		0.010	0.209	
267%	10000		0.011	0.210	
187%	7000		0.008	0.207	
107%	4000	0.926	0.004	0.203	
0%	0	0.895	0.000	0.199	



Tension Load Test Result for PLT-20B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

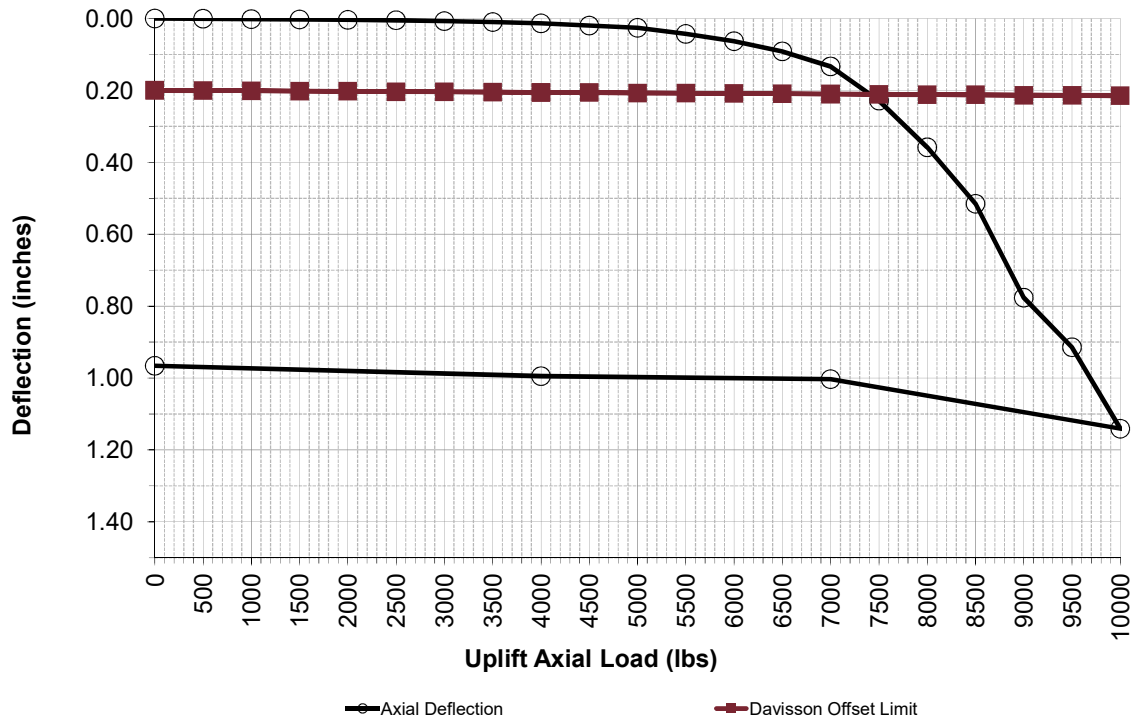
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-20B
Latitude: 43.12289
Longitude: -76.62639
Pile Type: W6x9
Pile Embedment Depth [in]: 120
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 171.9

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.000	0.001	0.200	
27%	1000	0.002	0.002	0.201	
40%	1500	0.002	0.002	0.201	
53%	2000	0.004	0.003	0.202	
67%	2500	0.005	0.004	0.203	
80%	3000	0.007	0.005	0.204	
93%	3500	0.010	0.005	0.205	
107%	4000	0.013	0.006	0.205	
120%	4500	0.019	0.007	0.206	
133%	5000	0.026	0.008	0.207	
147%	5500	0.043	0.008	0.208	
160%	6000	0.063	0.009	0.208	
173%	6500	0.091	0.010	0.209	
187%	7000	0.133	0.011	0.210	
200%	7500	0.228	0.012	0.211	
213%	8000	0.358	0.012	0.212	
227%	8500	0.515	0.013	0.212	
240%	9000	0.777	0.014	0.213	
253%	9500	0.915	0.015	0.214	
267%	10000	1.141	0.015	0.215	
187%	7000	1.003	0.011	0.210	
107%	4000	0.995	0.006	0.205	
0%	0	0.966	0.000	0.199	



Tension Load Test Result for PLT-21A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

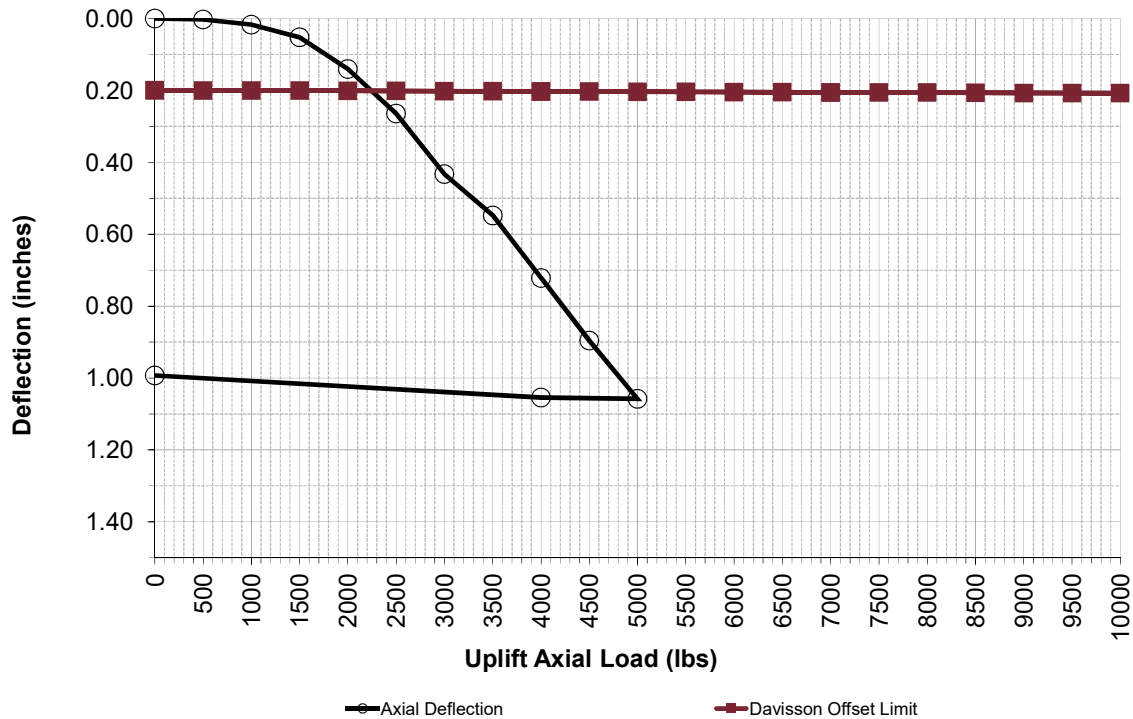
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-21A
Latitude: 43.11853
Longitude: -76.62308
Pile Type: W6x9
Pile Embedment Depth [in]: 66
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 152.5

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.003	0.000	0.200	
27%	1000	0.017	0.001	0.200	
40%	1500	0.052	0.001	0.200	
53%	2000	0.141	0.002	0.201	
67%	2500	0.264	0.002	0.201	
80%	3000	0.433	0.003	0.202	
93%	3500	0.548	0.003	0.202	
107%	4000	0.722	0.003	0.203	
120%	4500	0.896	0.004	0.203	
133%	5000	1.058	0.004	0.203	
147%	5500		0.005	0.204	
160%	6000		0.005	0.204	
173%	6500		0.006	0.205	
187%	7000		0.006	0.205	
200%	7500		0.006	0.206	
213%	8000		0.007	0.206	
227%	8500		0.007	0.206	
240%	9000		0.008	0.207	
253%	9500		0.008	0.207	
267%	10000		0.008	0.208	
187%	7000		0.006	0.205	
107%	4000	1.054	0.003	0.203	
0%	0	0.993	0.000	0.199	



Tension Load Test Result for PLT-21B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

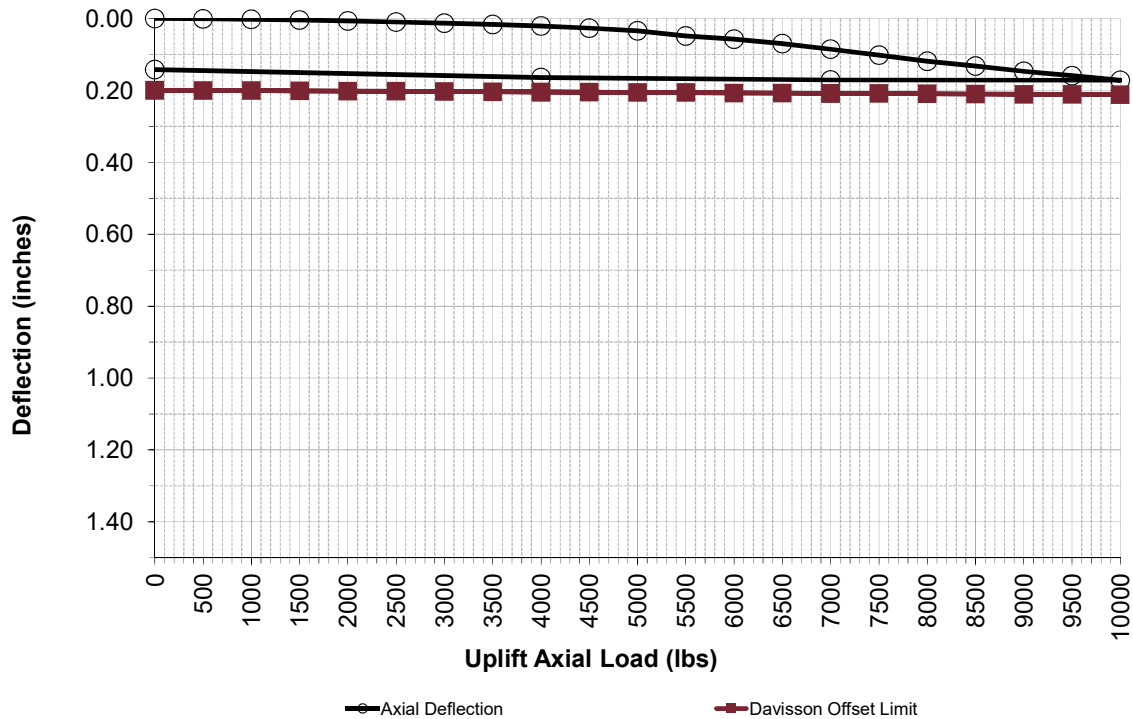
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-21B
Latitude: 43.11853
Longitude: -76.62308
Pile Type: W6x9
Pile Embedment Depth [in]: 97
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 240.3

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.001	0.001	0.200	
27%	1000	0.002	0.001	0.200	
40%	1500	0.004	0.002	0.201	
53%	2000	0.007	0.002	0.202	
67%	2500	0.010	0.003	0.202	
80%	3000	0.013	0.004	0.203	
93%	3500	0.016	0.004	0.204	
107%	4000	0.021	0.005	0.204	
120%	4500	0.027	0.006	0.205	
133%	5000	0.034	0.006	0.205	
147%	5500	0.048	0.007	0.206	
160%	6000	0.057	0.007	0.207	
173%	6500	0.070	0.008	0.207	
187%	7000	0.085	0.009	0.208	
200%	7500	0.102	0.009	0.209	
213%	8000	0.119	0.010	0.209	
227%	8500	0.132	0.011	0.210	
240%	9000	0.147	0.011	0.210	
253%	9500	0.159	0.012	0.211	
267%	10000	0.172	0.012	0.212	
187%	7000	0.171	0.009	0.208	
107%	4000	0.164	0.005	0.204	
0%	0	0.142	0.000	0.199	



Tension Load Test Result for PLT-22A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

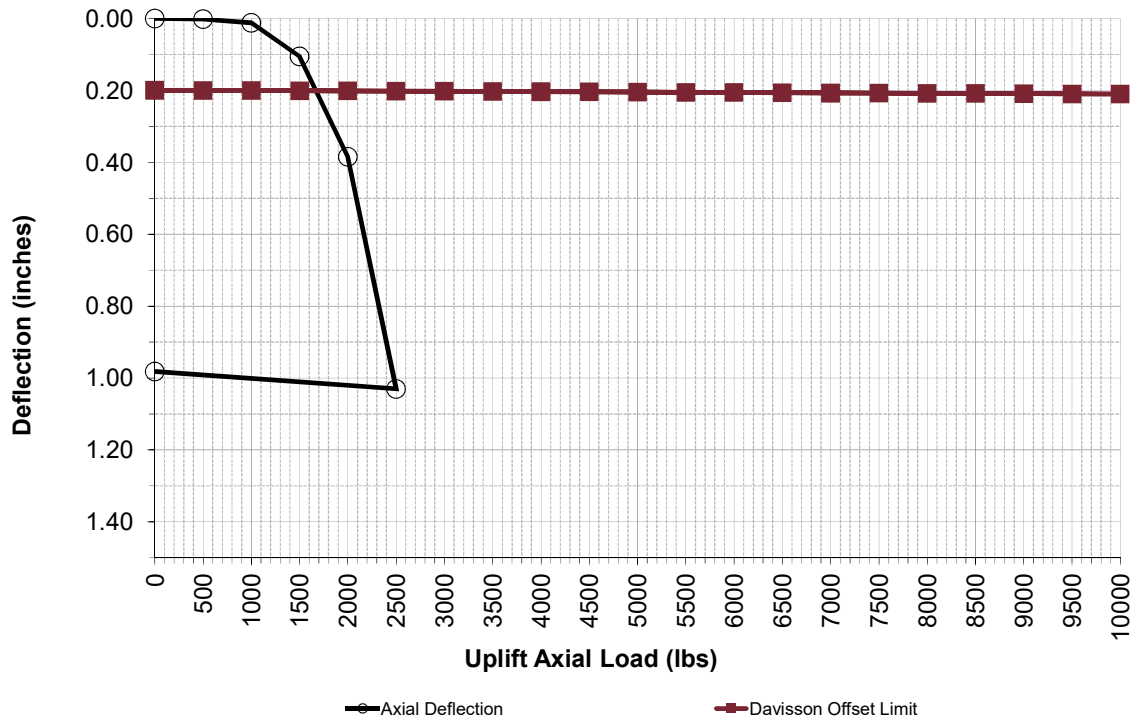
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/22/2021

Pile Information

Pile ID: PLT-22A
Latitude: 43.15348
Longitude: -76.60904
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 33.2

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.001	0.001	0.200	
27%	1000	0.012	0.001	0.200	
40%	1500	0.105	0.002	0.201	
53%	2000	0.385	0.002	0.201	
67%	2500	1.030	0.003	0.202	
80%	3000		0.003	0.202	
93%	3500		0.004	0.203	
107%	4000		0.004	0.203	
120%	4500		0.005	0.204	
133%	5000		0.005	0.205	
147%	5500		0.006	0.205	
160%	6000		0.006	0.206	
173%	6500		0.007	0.206	
187%	7000		0.008	0.207	
200%	7500		0.008	0.207	
213%	8000		0.009	0.208	
227%	8500		0.009	0.208	
240%	9000		0.010	0.209	
253%	9500		0.010	0.209	
267%	10000		0.011	0.210	
187%	7000		0.008	0.207	
107%	4000		0.004	0.203	
0%	0	0.982	0.000	0.199	



Tension Load Test Result for PLT-22B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

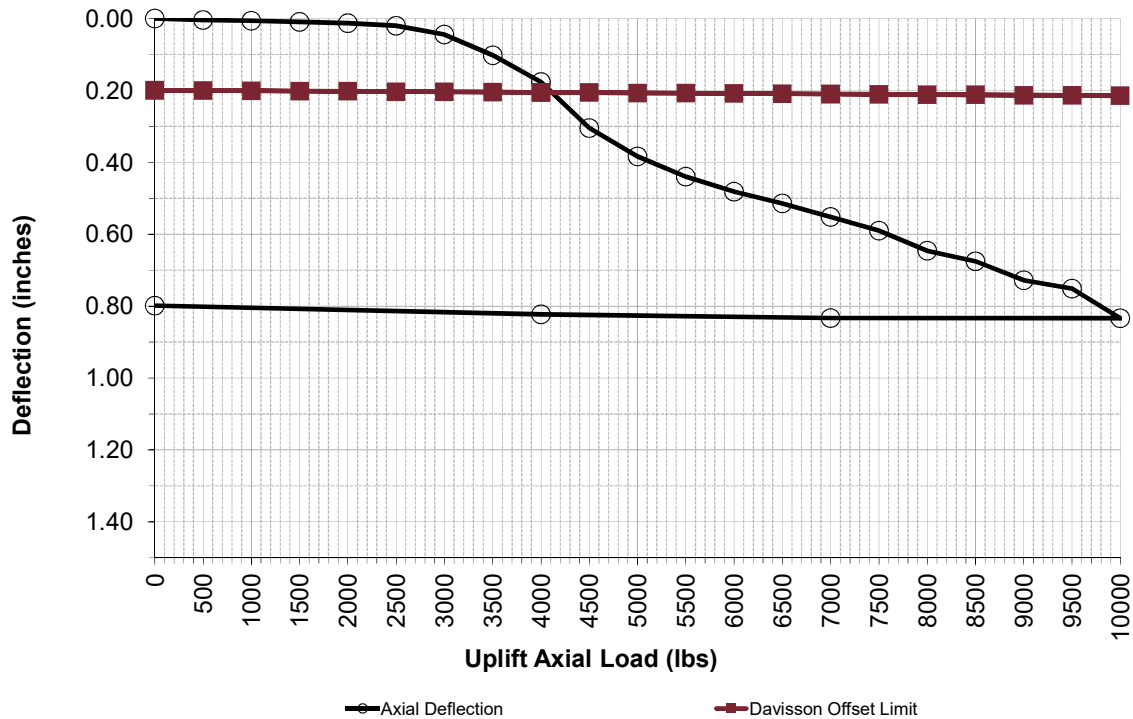
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/22/2021

Pile Information

Pile ID: PLT-22B
Latitude: 43.15348
Longitude: -76.60904
Pile Type: W6x9
Pile Embedment Depth [in]: 120
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 138

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.004	0.001	0.200	
27%	1000	0.006	0.002	0.201	
40%	1500	0.009	0.002	0.201	
53%	2000	0.013	0.003	0.202	
67%	2500	0.020	0.004	0.203	
80%	3000	0.045	0.005	0.204	
93%	3500	0.102	0.005	0.205	
107%	4000	0.177	0.006	0.205	
120%	4500	0.304	0.007	0.206	
133%	5000	0.384	0.008	0.207	
147%	5500	0.440	0.008	0.208	
160%	6000	0.482	0.009	0.208	
173%	6500	0.514	0.010	0.209	
187%	7000	0.552	0.011	0.210	
200%	7500	0.590	0.012	0.211	
213%	8000	0.646	0.012	0.212	
227%	8500	0.675	0.013	0.212	
240%	9000	0.728	0.014	0.213	
253%	9500	0.751	0.015	0.214	
267%	10000	0.834	0.015	0.215	
187%	7000	0.833	0.011	0.210	
107%	4000	0.823	0.006	0.205	
0%	0	0.799	0.000	0.199	



Tension Load Test Result for PLT-23A



Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

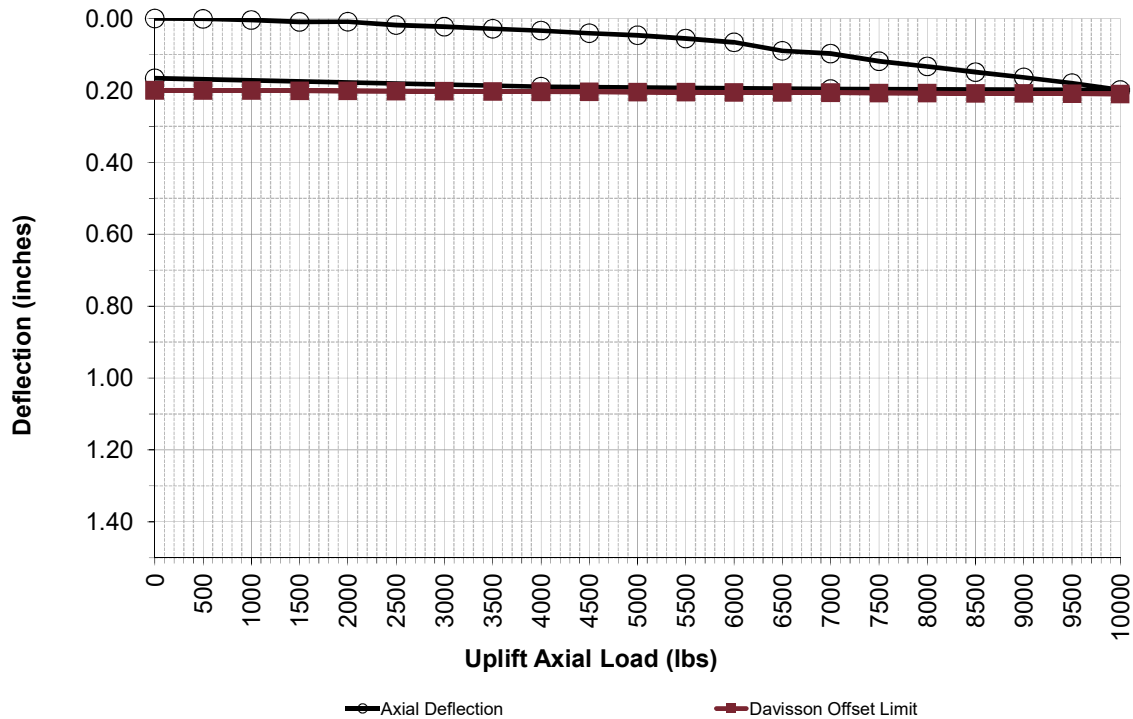
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

Pile Information

Pile ID: PLT-23A
Latitude: 43.15228
Longitude: -76.59869
Pile Type: W6x9
Pile Embedment Depth [in]: 79
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 240.1

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.001	0.001	0.200	
27%	1000	0.004	0.001	0.200	
40%	1500	0.009	0.002	0.201	
53%	2000	0.009	0.002	0.201	
67%	2500	0.018	0.003	0.202	
80%	3000	0.023	0.003	0.202	
93%	3500	0.029	0.004	0.203	
107%	4000	0.033	0.004	0.203	
120%	4500	0.041	0.005	0.204	
133%	5000	0.046	0.005	0.204	
147%	5500	0.056	0.006	0.205	
160%	6000	0.066	0.006	0.205	
173%	6500	0.090	0.007	0.206	
187%	7000	0.098	0.007	0.206	
200%	7500	0.119	0.008	0.207	
213%	8000	0.133	0.008	0.207	
227%	8500	0.149	0.009	0.208	
240%	9000	0.164	0.009	0.208	
253%	9500	0.180	0.010	0.209	
267%	10000	0.199	0.010	0.209	
187%	7000	0.196	0.007	0.206	
107%	4000	0.189	0.004	0.203	
0%	0	0.166	0.000	0.199	



Tension Load Test Result for PLT-23B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

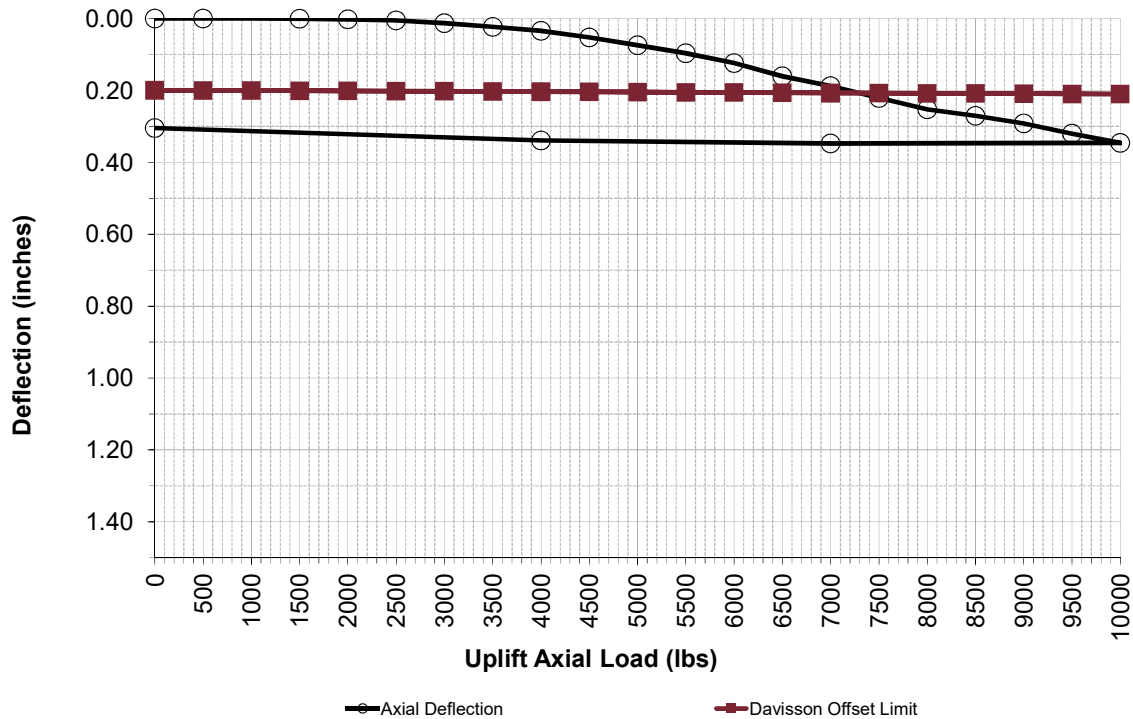
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

Pile Information

Pile ID: PLT-23B
Latitude: 43.15228
Longitude: -76.59869
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 286.1

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.000	0.001	0.200	
27%	1000	0.000	0.001	0.200	
40%	1500	0.001	0.002	0.201	
53%	2000	0.002	0.002	0.201	
67%	2500	0.005	0.003	0.202	
80%	3000	0.013	0.003	0.202	
93%	3500	0.023	0.004	0.203	
107%	4000	0.034	0.004	0.203	
120%	4500	0.053	0.005	0.204	
133%	5000	0.074	0.005	0.205	
147%	5500	0.097	0.006	0.205	
160%	6000	0.124	0.006	0.206	
173%	6500	0.160	0.007	0.206	
187%	7000	0.188	0.008	0.207	
200%	7500	0.221	0.008	0.207	
213%	8000	0.252	0.009	0.208	
227%	8500	0.270	0.009	0.208	
240%	9000	0.292	0.010	0.209	
253%	9500	0.320	0.010	0.209	
267%	10000	0.346	0.011	0.210	
187%	7000	0.348	0.008	0.207	
107%	4000	0.339	0.004	0.203	
0%	0	0.304	0.000	0.199	



Tension Load Test Result for PLT-24A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

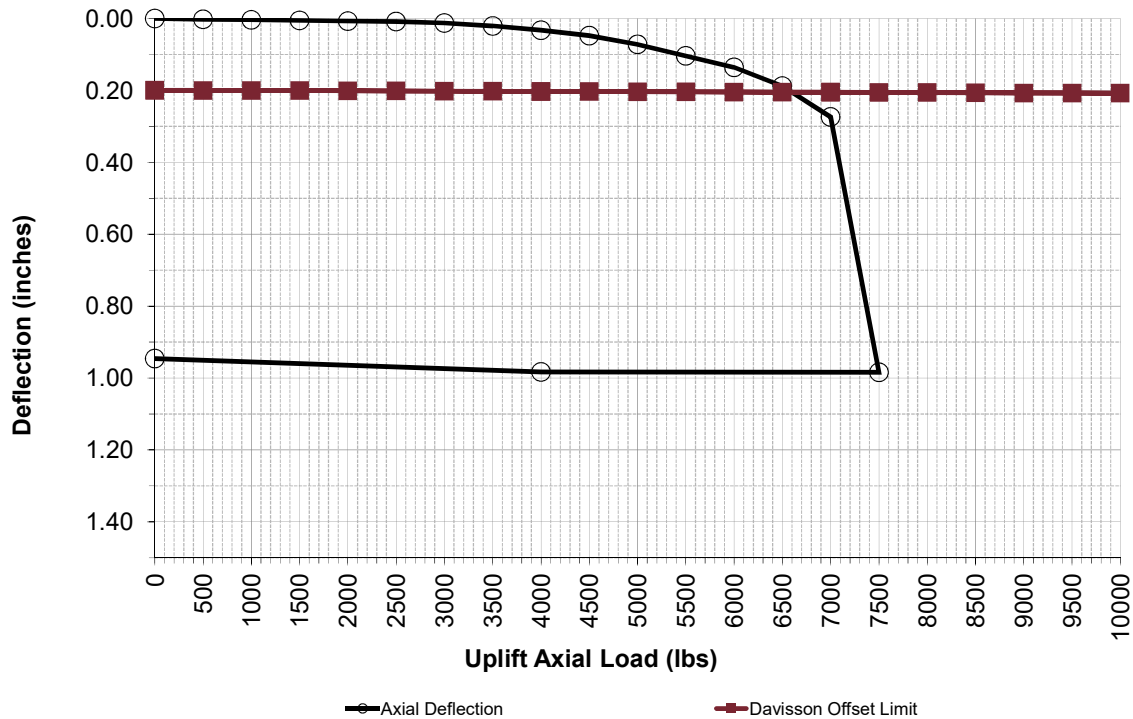
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/22/2021

Pile Information

Pile ID: PLT-24A
Latitude: 43.13999
Longitude: -76.59974
Pile Type: W6x9
Pile Embedment Depth [in]: 65
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 181.6

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.002	0.000	0.200	
27%	1000	0.004	0.001	0.200	
40%	1500	0.005	0.001	0.200	
53%	2000	0.007	0.002	0.201	
67%	2500	0.008	0.002	0.201	
80%	3000	0.012	0.003	0.202	
93%	3500	0.021	0.003	0.202	
107%	4000	0.033	0.003	0.203	
120%	4500	0.047	0.004	0.203	
133%	5000	0.072	0.004	0.203	
147%	5500	0.104	0.005	0.204	
160%	6000	0.136	0.005	0.204	
173%	6500	0.188	0.005	0.205	
187%	7000	0.273	0.006	0.205	
200%	7500	0.984	0.006	0.205	
213%	8000		0.007	0.206	
227%	8500		0.007	0.206	
240%	9000		0.008	0.207	
253%	9500		0.008	0.207	
267%	10000		0.008	0.208	
187%	7000		0.006	0.205	
107%	4000	0.983	0.003	0.203	
0%	0	0.946	0.000	0.199	



Tension Load Test Result for PLT-24B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Dillon ED Junior

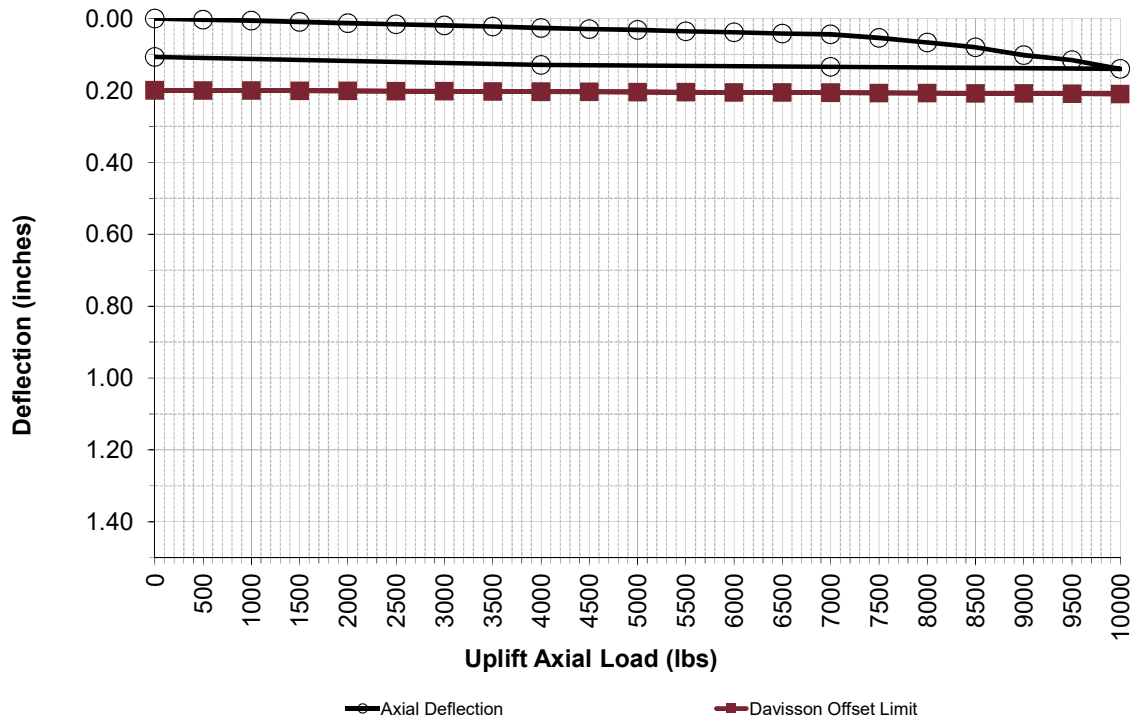
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/22/2021

Pile Information

Pile ID: PLT-24B
Latitude: 43.13999
Longitude: -76.59974
Pile Type: W6x9
Pile Embedment Depth [in]: 81
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3750
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 240.1

Tension Test Results			Davisson Offset Limit Lines		
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Elastic Data (in) (PL/AE)	Davisson Offset Limit (in) (0.15+D/120+(PL/AE))	Comments
0%	0	0.000	0.000	0.199	
13%	500	0.003	0.001	0.200	
27%	1000	0.006	0.001	0.200	
40%	1500	0.009	0.002	0.201	
53%	2000	0.013	0.002	0.201	
67%	2500	0.016	0.003	0.202	
80%	3000	0.019	0.003	0.202	
93%	3500	0.022	0.004	0.203	
107%	4000	0.026	0.004	0.203	
120%	4500	0.029	0.005	0.204	
133%	5000	0.031	0.005	0.204	
147%	5500	0.036	0.006	0.205	
160%	6000	0.038	0.006	0.205	
173%	6500	0.042	0.007	0.206	
187%	7000	0.044	0.007	0.206	
200%	7500	0.054	0.008	0.207	
213%	8000	0.066	0.008	0.208	
227%	8500	0.080	0.009	0.208	
240%	9000	0.102	0.009	0.209	
253%	9500	0.115	0.010	0.209	
267%	10000	0.140	0.010	0.210	
187%	7000	0.134	0.007	0.206	
107%	4000	0.129	0.004	0.203	
0%	0	0.107	0.000	0.199	



APPENDIX G – PILE LOAD TEST RESULTS – LATERAL LOAD

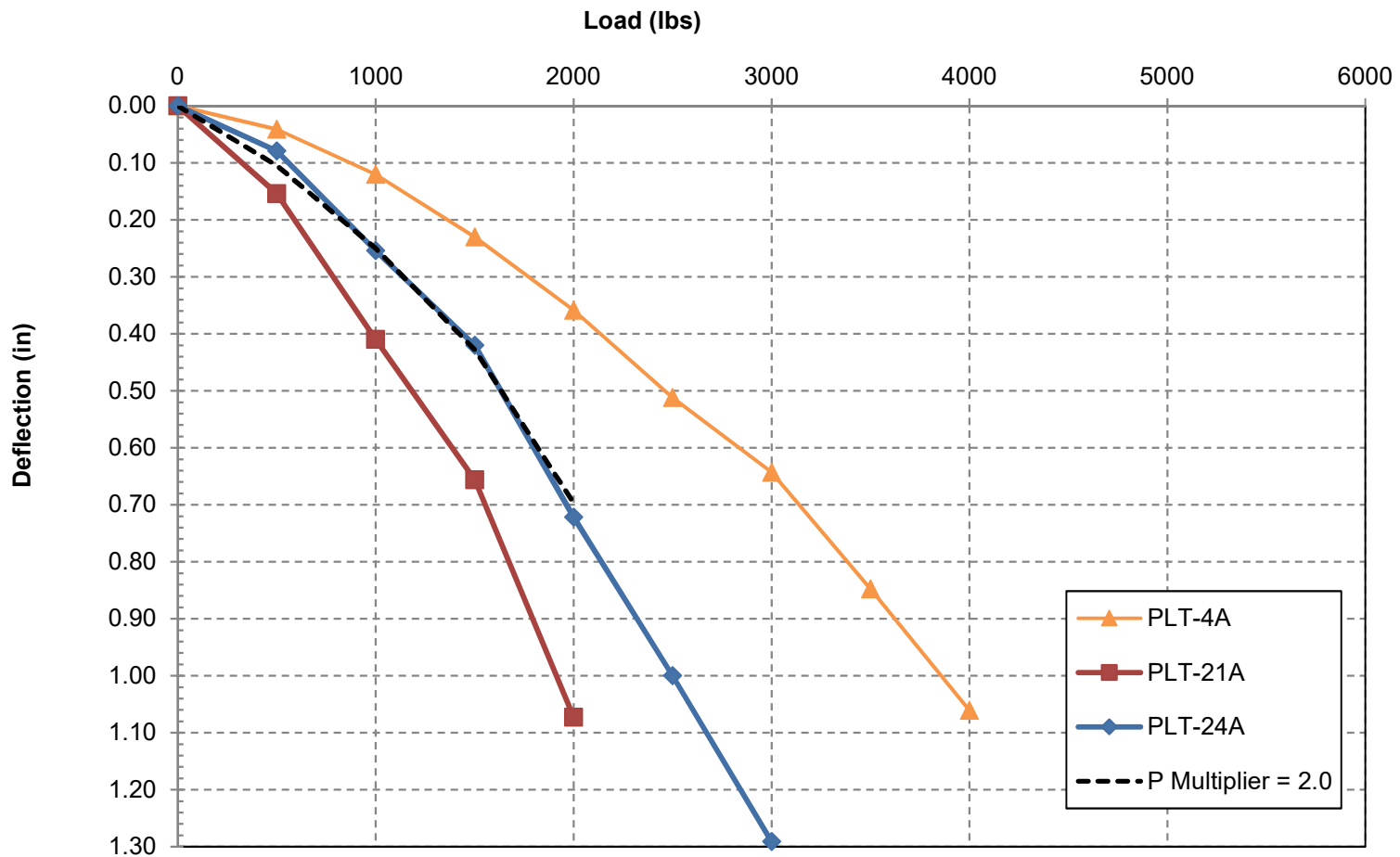
Contents:

Exhibits G-001 to G-005	Lateral Load Test Summary Graphs (5 pages)
Exhibits G-006 to G-035	Lateral Load Test Results (30 pages)

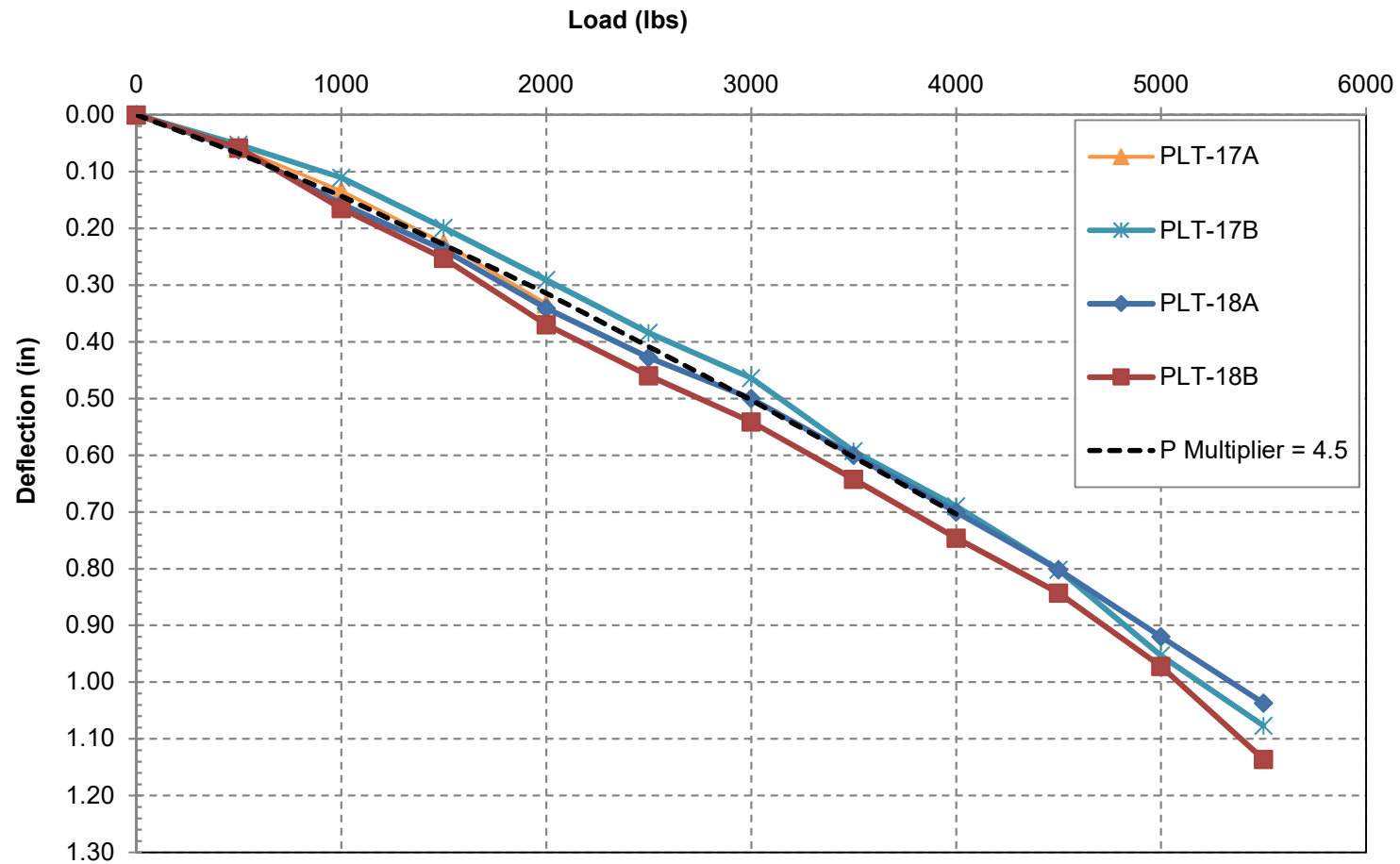
Note: All attachments are one page unless noted above.

Lateral Load Graphs

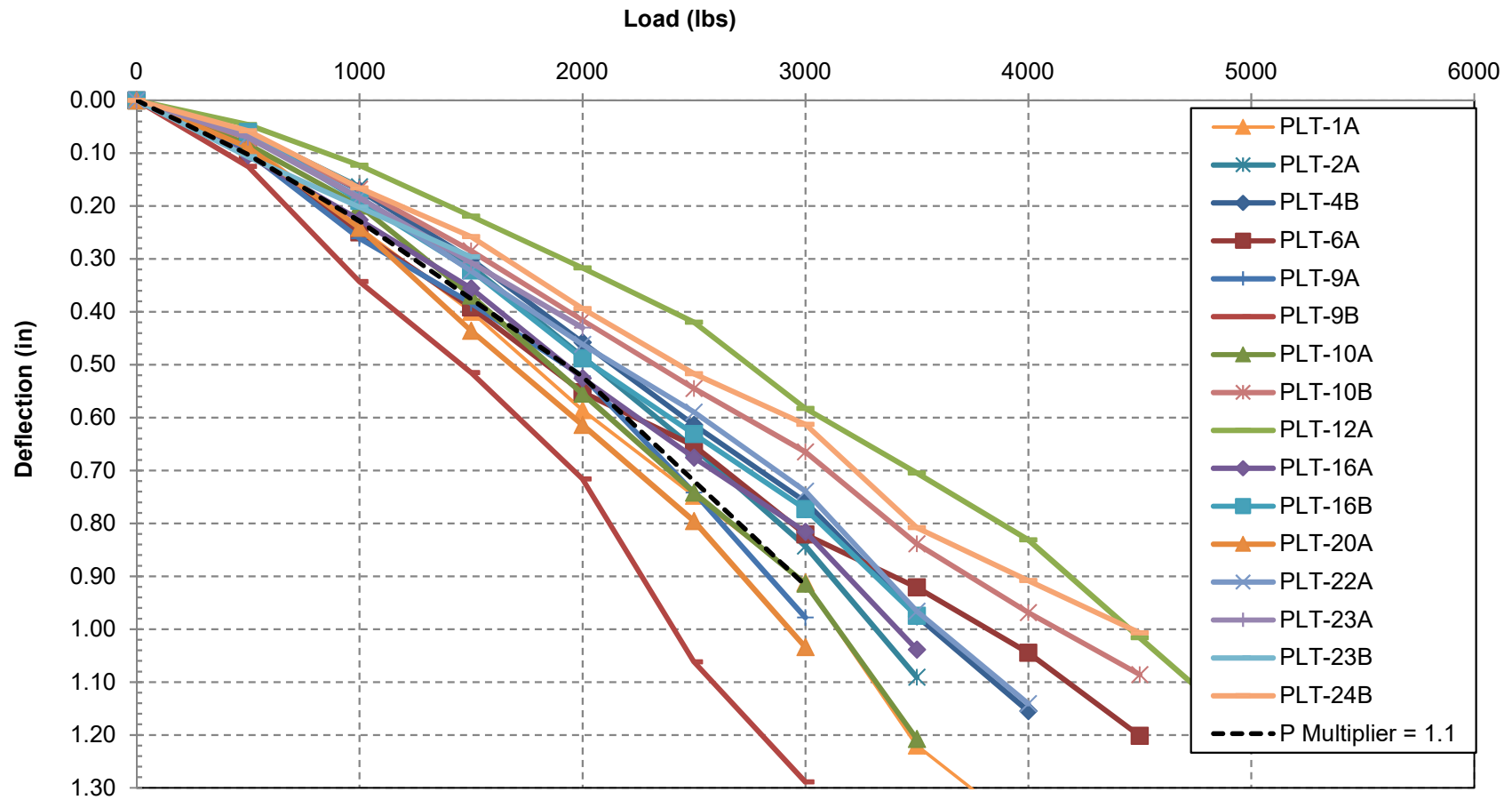
W6x9 Piles, 5-foot Embedment



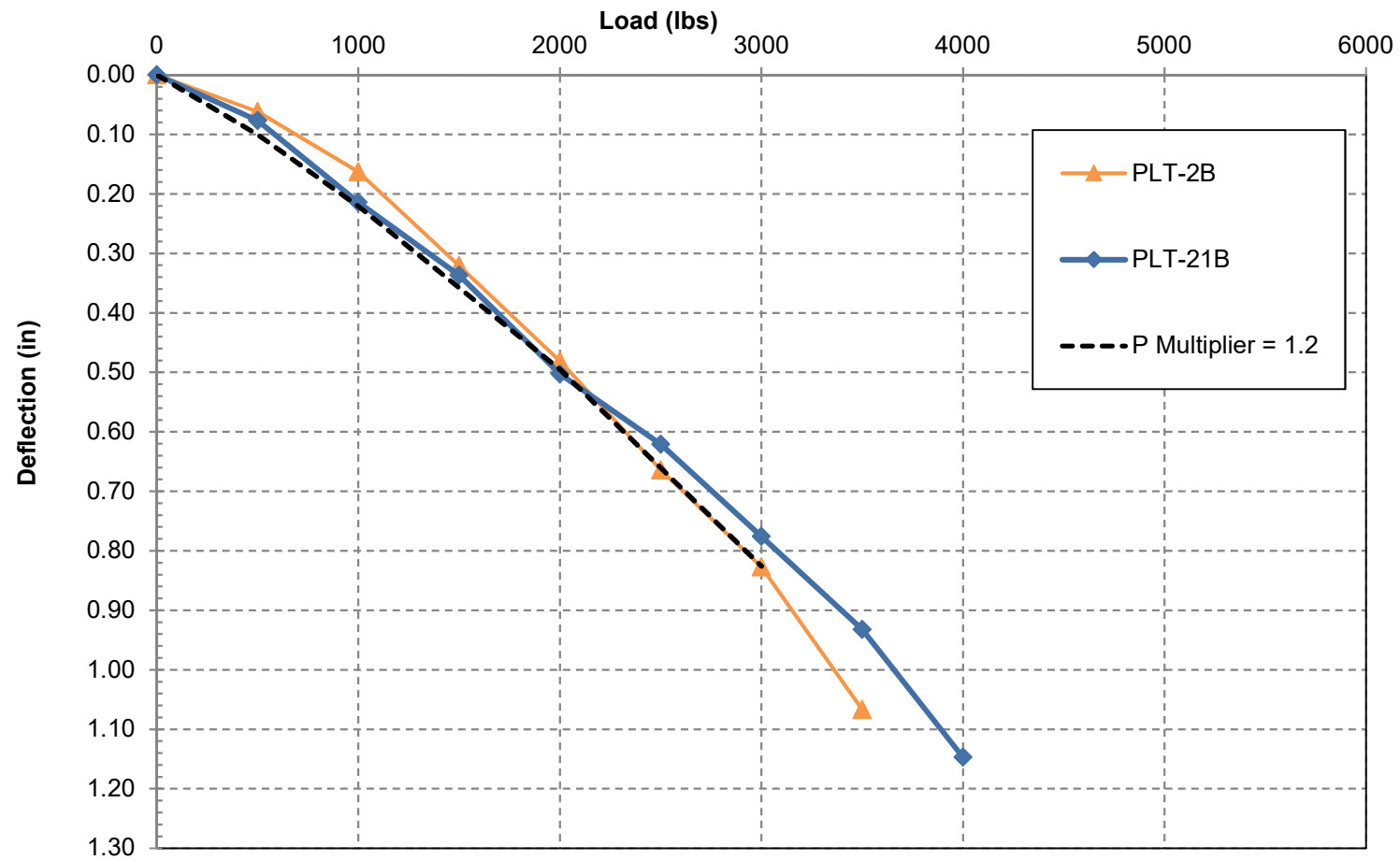
W6x9 Piles, 6-foot Embedment



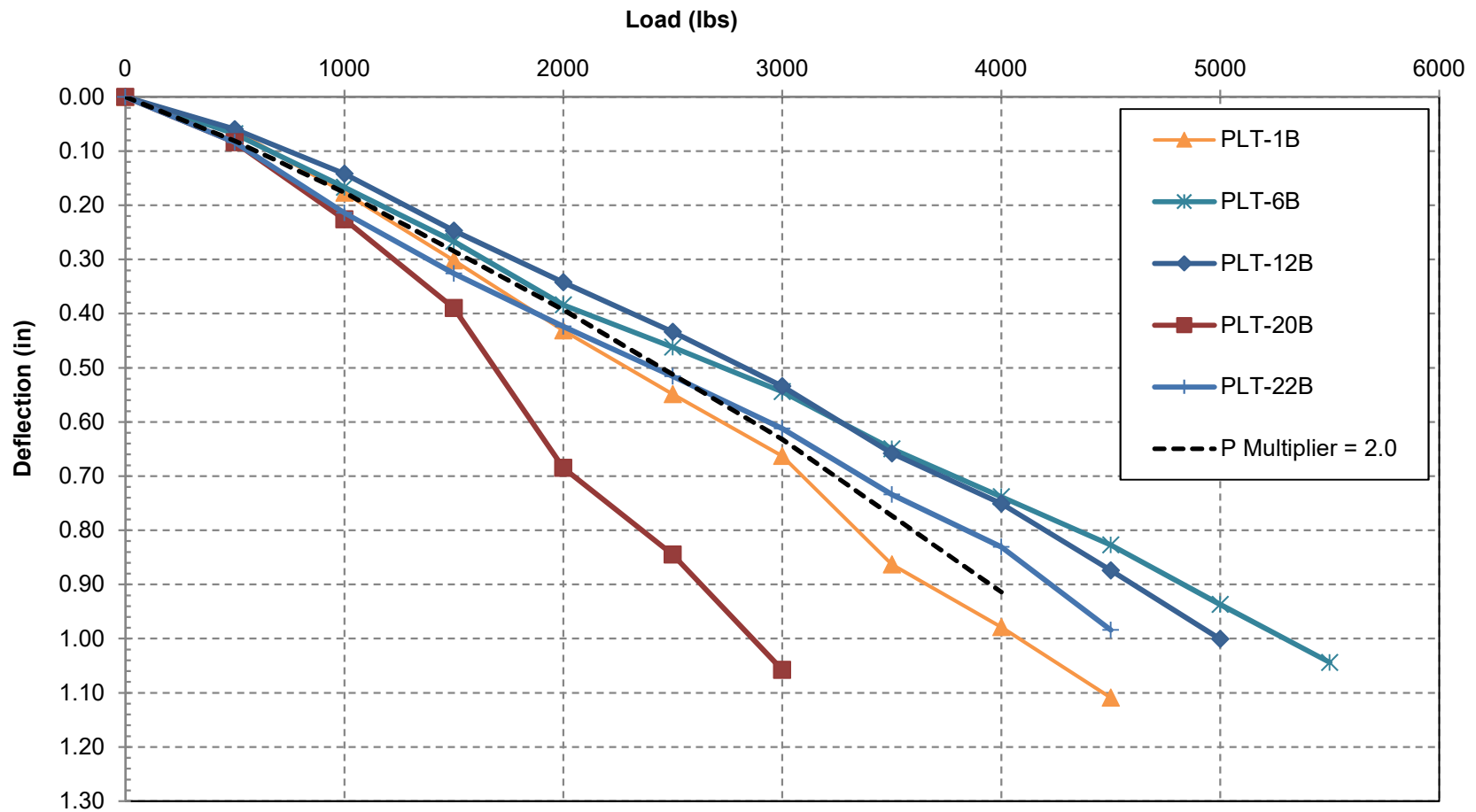
W6x9 Piles, 7-foot Embedment



W6x9 Piles, 8-foot Embedment



W6x9 Piles, 10-foot Embedment



Lateral Load Test Result for PLT-1A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

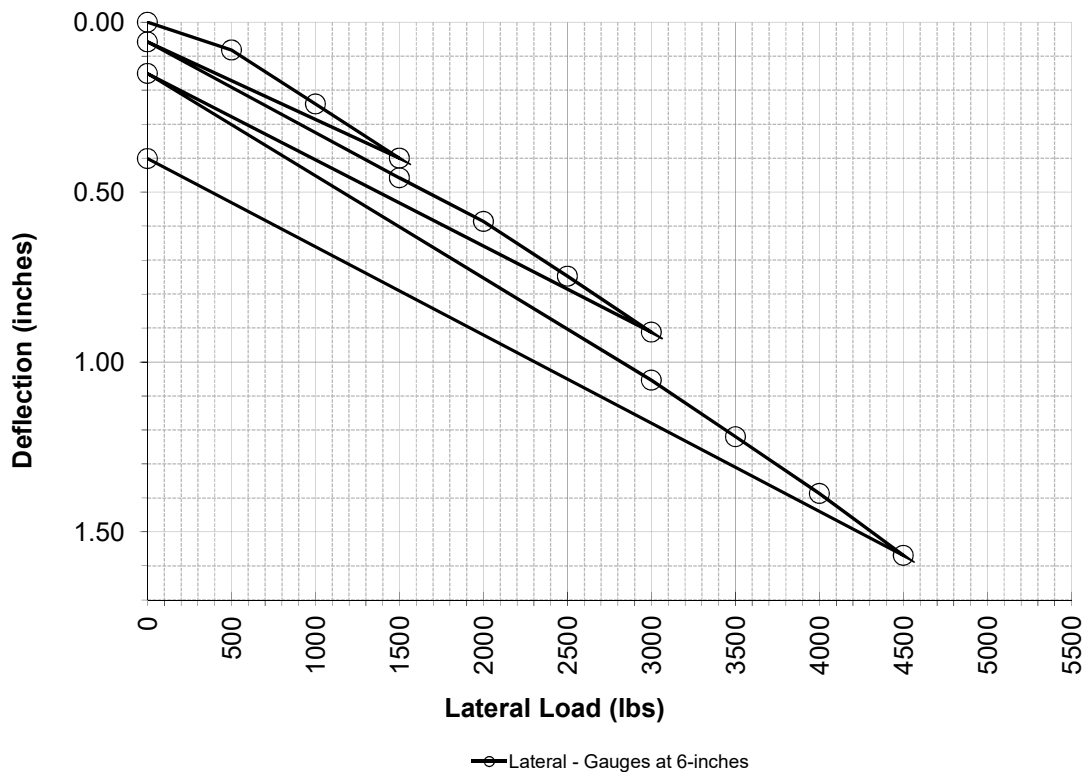
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/29/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.082	
28%	1000	0.241	
42%	1500	0.400	
0%	0	0.058	
42%	1500	0.458	
56%	2000	0.586	
69%	2500	0.748	
83%	3000	0.912	
0%	0	0.151	
83%	3000	1.053	
97%	3500	1.220	
111%	4000	1.386	
125%	4500	1.569	
0%	0	0.401	

Pile Information

Pile ID: PLT-1A
Latitude: 43.14142
Longitude: -76.65385
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 207.4



Lateral Load Test Result for PLT-1B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

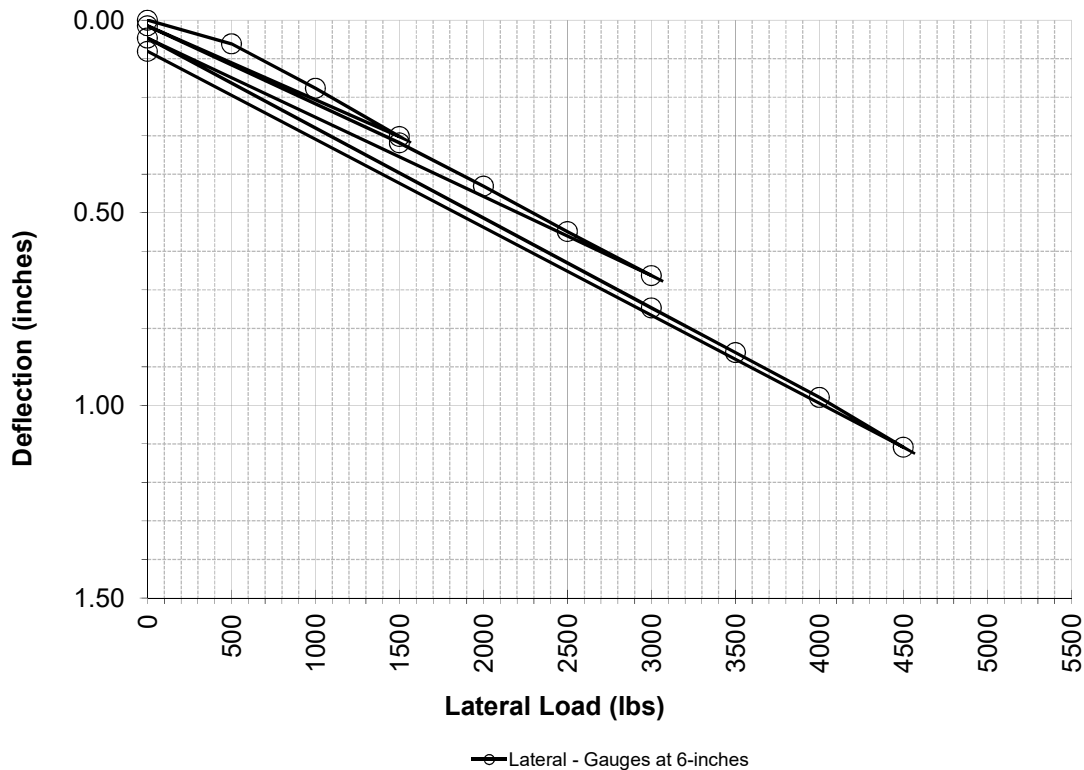
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/29/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.062	
28%	1000	0.177	
42%	1500	0.302	
0%	0	0.015	
42%	1500	0.319	
56%	2000	0.431	
69%	2500	0.549	
83%	3000	0.663	
0%	0	0.046	
83%	3000	0.747	
97%	3500	0.863	
111%	4000	0.979	
125%	4500	1.109	
0%	0	0.081	

Pile Information

Pile ID: PLT-1B
Latitude: 43.14142
Longitude: -76.65385
Pile Type: W6x9
Pile Embedment Depth [in]: 120
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 421.6



Lateral Load Test Result for PLT-2A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

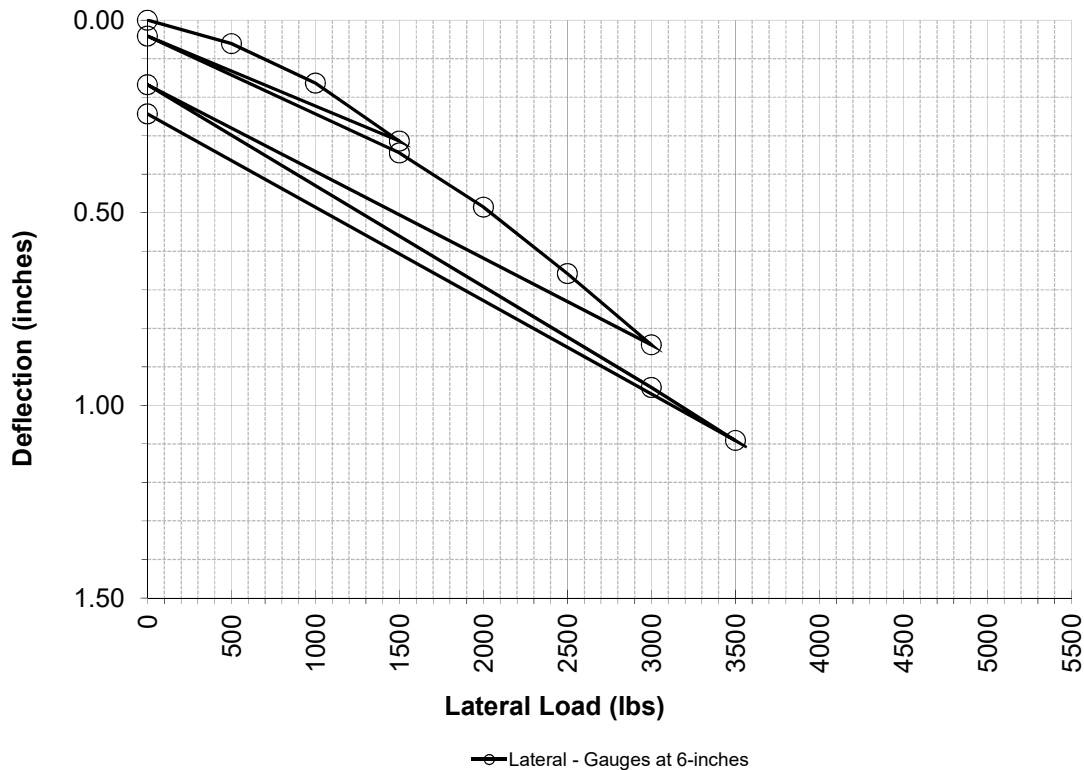
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/29/2021

Pile Information

Pile ID: PLT-2A
Latitude: 43.13596
Longitude: -76.65200
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 187

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.061	
28%	1000	0.164	
42%	1500	0.314	
0%	0	0.042	
42%	1500	0.345	
56%	2000	0.485	
69%	2500	0.658	
83%	3000	0.843	
0%	0	0.168	
83%	3000	0.954	
97%	3500	1.091	
0%	0	0.243	



Lateral Load Test Result for PLT-2B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

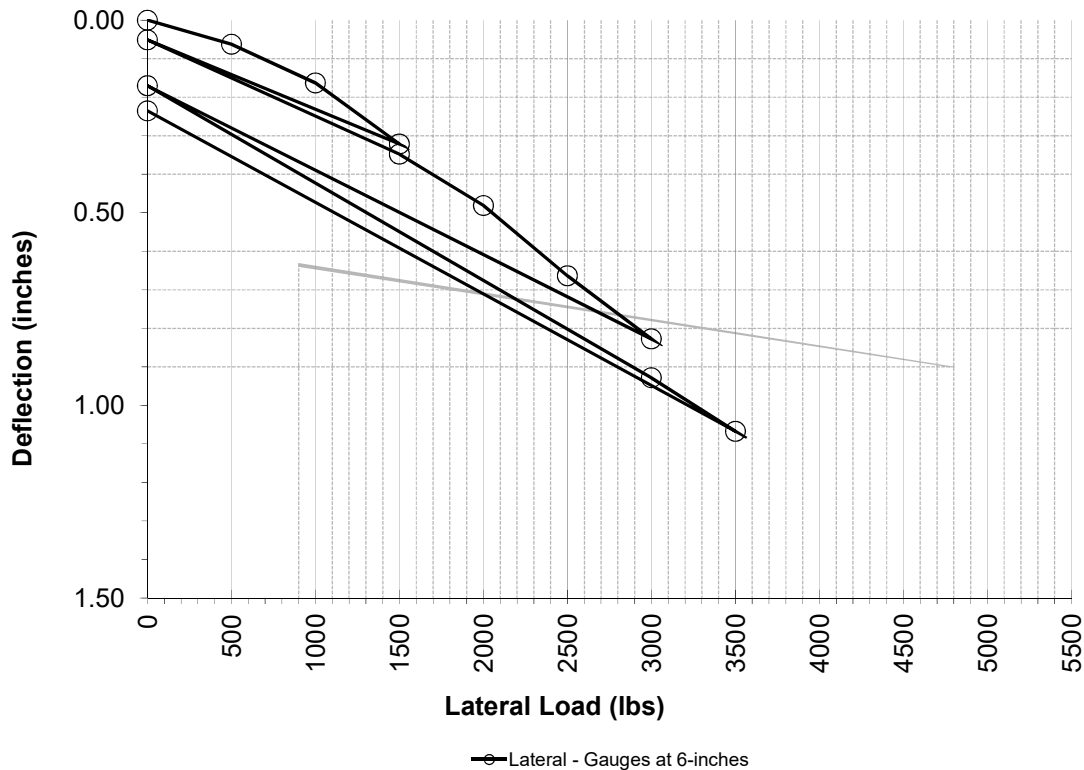
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/29/2021

Pile Information

Pile ID: PLT-2B
Latitude: 43.13596
Longitude: -76.65200
Pile Type: W6x9
Pile Embedment Depth [in]: 100
Pile Stick-Up [in]: 80
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240.1

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.062	
28%	1000	0.163	
42%	1500	0.321	
0%	0	0.051	
42%	1500	0.348	
56%	2000	0.481	
69%	2500	0.664	
83%	3000	0.827	
0%	0	0.170	
83%	3000	0.928	
97%	3500	1.067	
0%	0	0.236	



Lateral Load Test Result for PLT-4A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

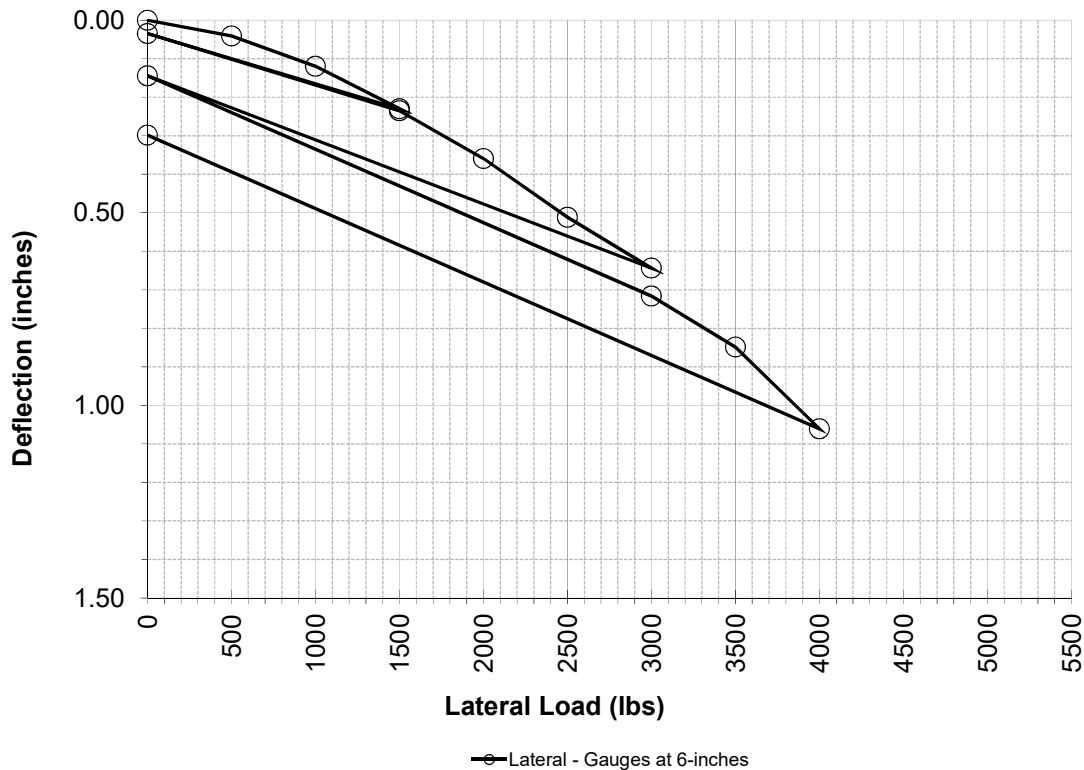
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/29/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.041	
28%	1000	0.120	
42%	1500	0.230	
0%	0	0.035	
42%	1500	0.235	
56%	2000	0.359	
69%	2500	0.512	
83%	3000	0.643	
0%	0	0.145	
83%	3000	0.716	
97%	3500	0.848	
111%	4000	1.061	
0%	0	0.298	

Pile Information

Pile ID: PLT-4A
Latitude: 43.13595
Longitude: -76.64545
Pile Type: W6x9
Pile Embedment Depth [in]: 64
Pile Stick-Up [in]: 80
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240.1



Lateral Load Test Result for PLT-4B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

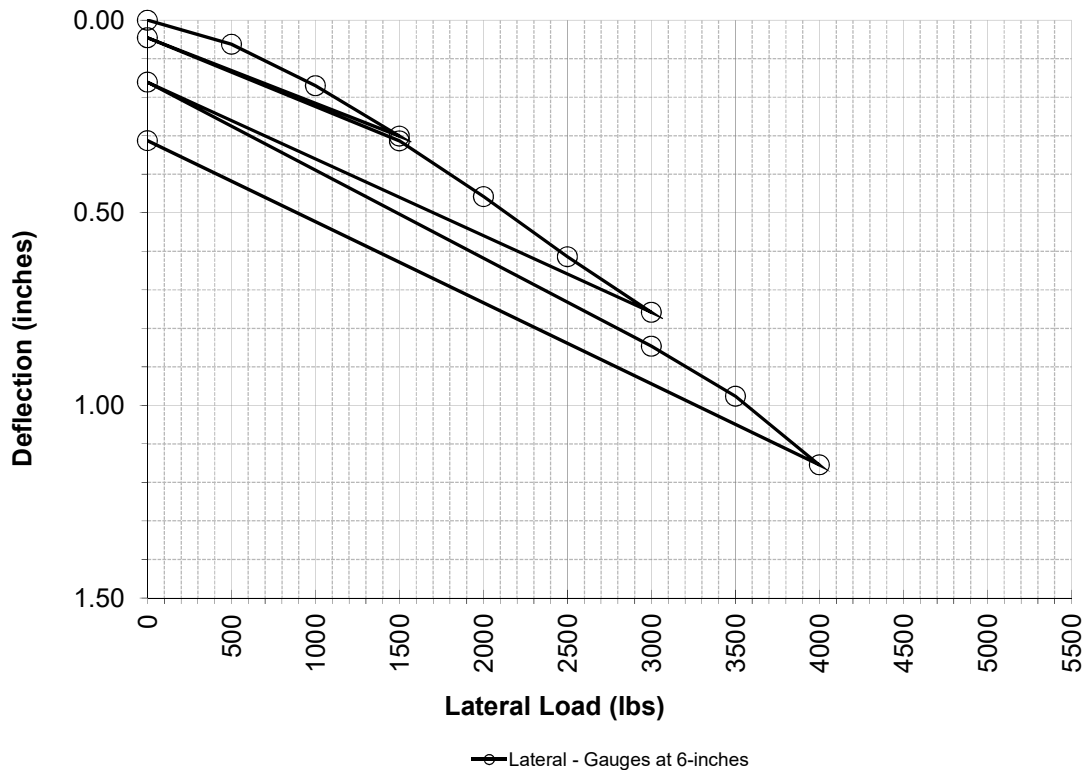
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/29/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.063	
28%	1000	0.170	
42%	1500	0.301	
0%	0	0.046	
42%	1500	0.314	
56%	2000	0.458	
69%	2500	0.614	
83%	3000	0.759	
0%	0	0.161	
83%	3000	0.847	
97%	3500	0.976	
111%	4000	1.155	
0%	0	0.313	

Pile Information

Pile ID: PLT-4B
Latitude: 43.13595
Longitude: -76.64545
Pile Type: W6x9
Pile Embedment Depth [in]: 80
Pile Stick-Up [in]: 100
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240.2



Lateral Load Test Result for PLT-6A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

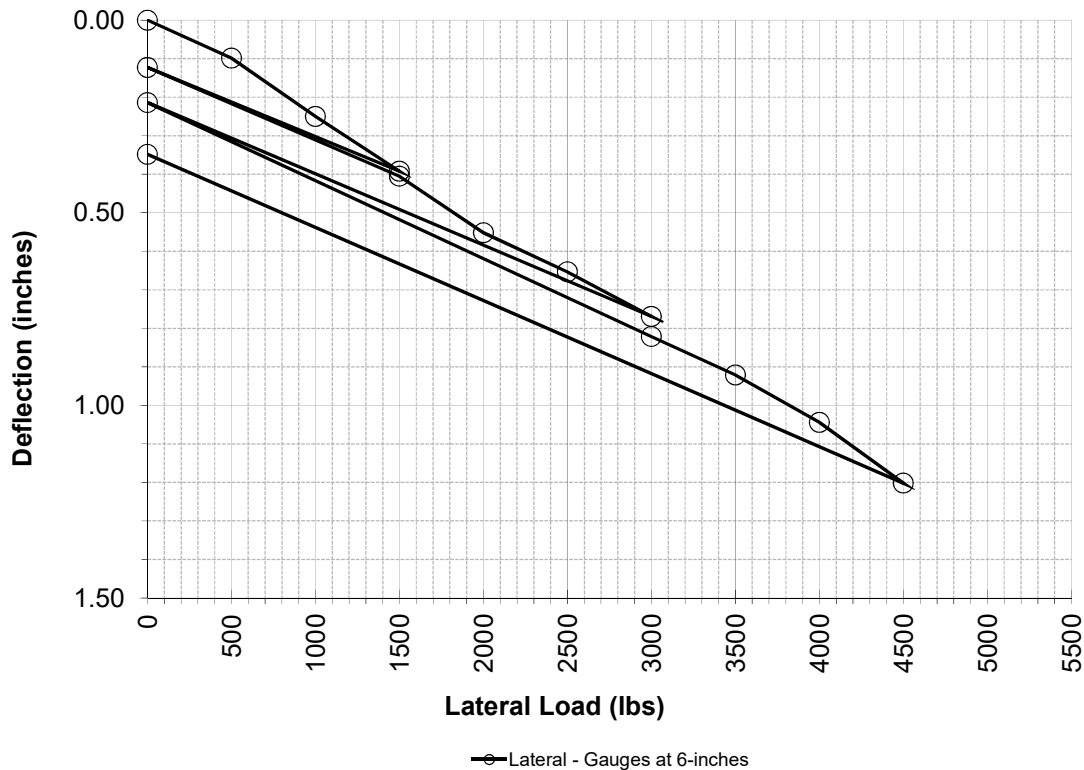
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/30/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.099	
28%	1000	0.250	
42%	1500	0.392	
0%	0	0.123	
42%	1500	0.405	
56%	2000	0.552	
69%	2500	0.653	
83%	3000	0.769	
0%	0	0.214	
83%	3000	0.821	
97%	3500	0.921	
111%	4000	1.045	
125%	4500	1.202	
0%	0	0.349	

Pile Information

Pile ID: PLT-6A
Latitude: 43.12978
Longitude: -76.64469
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 262.9



Lateral Load Test Result for PLT-6B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

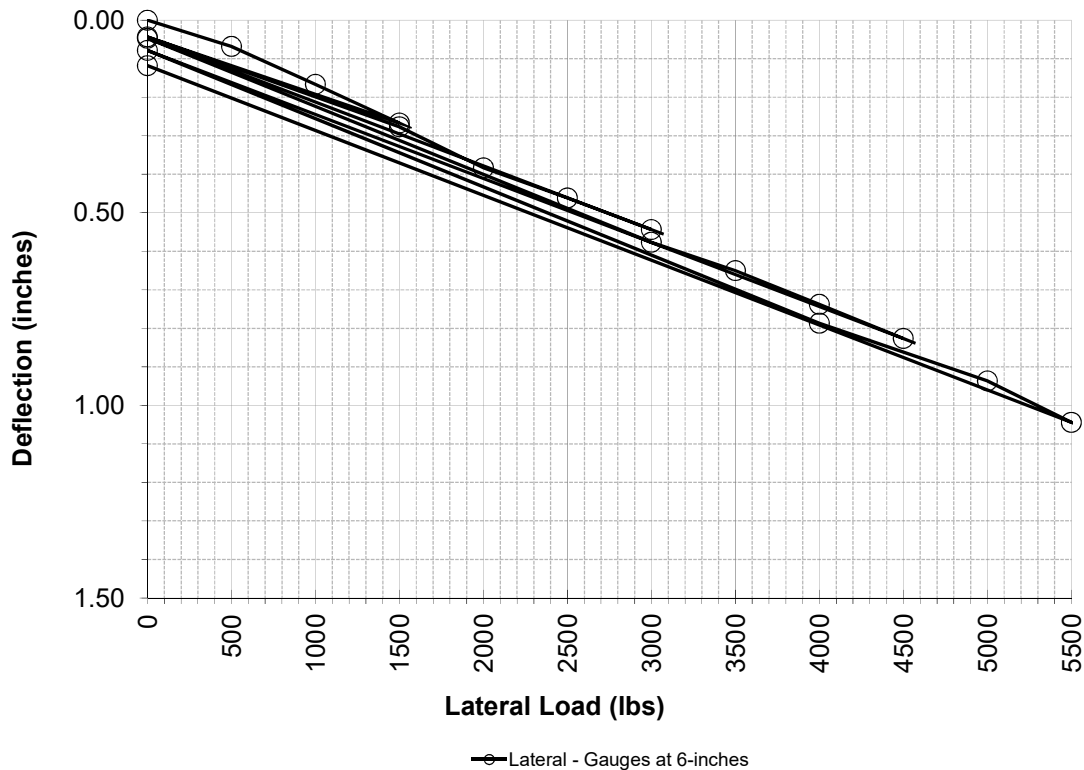
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/30/2021

Pile Information

Pile ID: PLT-6B
Latitude: 43.12978
Longitude: -76.64469
Pile Type: W6x9
Pile Embedment Depth [in]: 120
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 314.3

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.068	
28%	1000	0.167	
42%	1500	0.267	
0%	0	0.043	
42%	1500	0.277	
56%	2000	0.384	
69%	2500	0.462	
83%	3000	0.544	
0%	0	0.047	
83%	3000	0.576	
97%	3500	0.650	
111%	4000	0.738	
125%	4500	0.827	
0%	0	0.079	
111%	4000	0.787	
139%	5000	0.937	
153%	5500	1.044	
0%	0	0.118	



Lateral Load Test Result for PLT-9A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

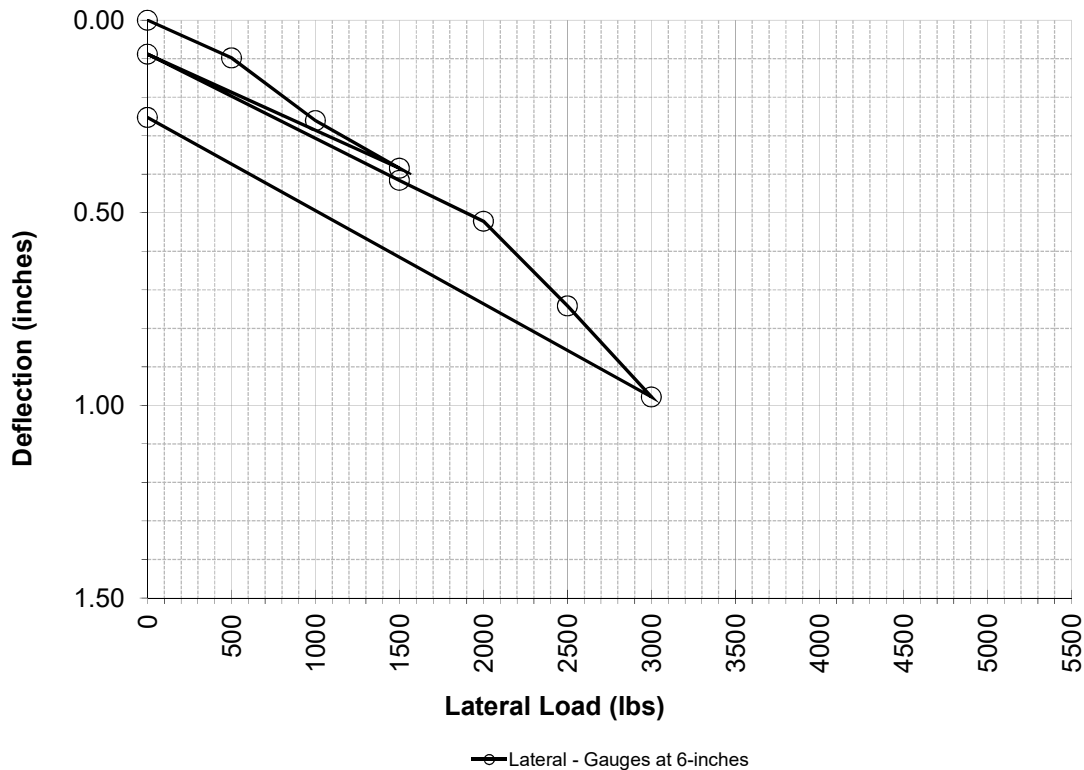
% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.098	
28%	1000	0.261	
42%	1500	0.384	
0%	0	0.088	
42%	1500	0.416	
56%	2000	0.522	
69%	2500	0.742	
83%	3000	0.978	
0%	0	0.253	

Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/25/2021

Pile Information

Pile ID: PLT-9A
Latitude: 43.14029
Longitude: -76.63541
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 110.9



Lateral Load Test Result for PLT-9B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

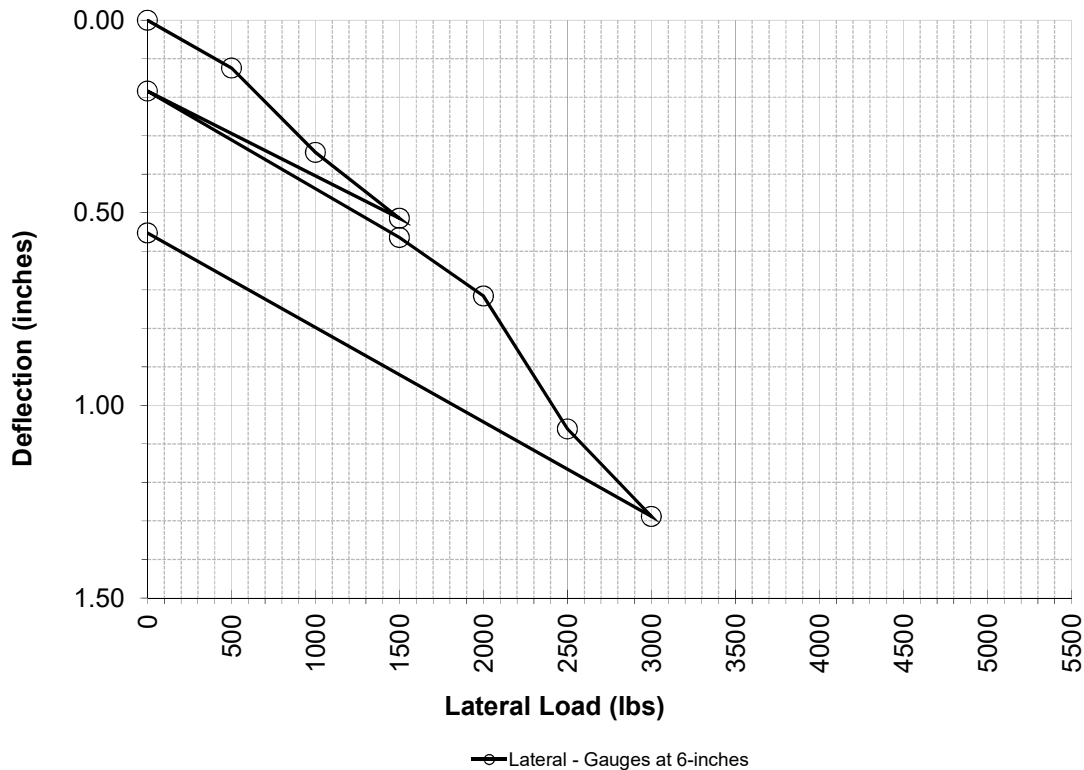
% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.125	
28%	1000	0.343	
42%	1500	0.515	
0%	0	0.184	
42%	1500	0.564	
56%	2000	0.716	
69%	2500	1.062	
83%	3000	1.289	
0%	0	0.553	

Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/25/2021

Pile Information

Pile ID: PLT-9B
Latitude: 43.14029
Longitude: -76.63541
Pile Type: W6x9
Pile Embedment Depth [in]: 79
Pile Stick-Up [in]: 101
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 193.3



Lateral Load Test Result for PLT-10A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

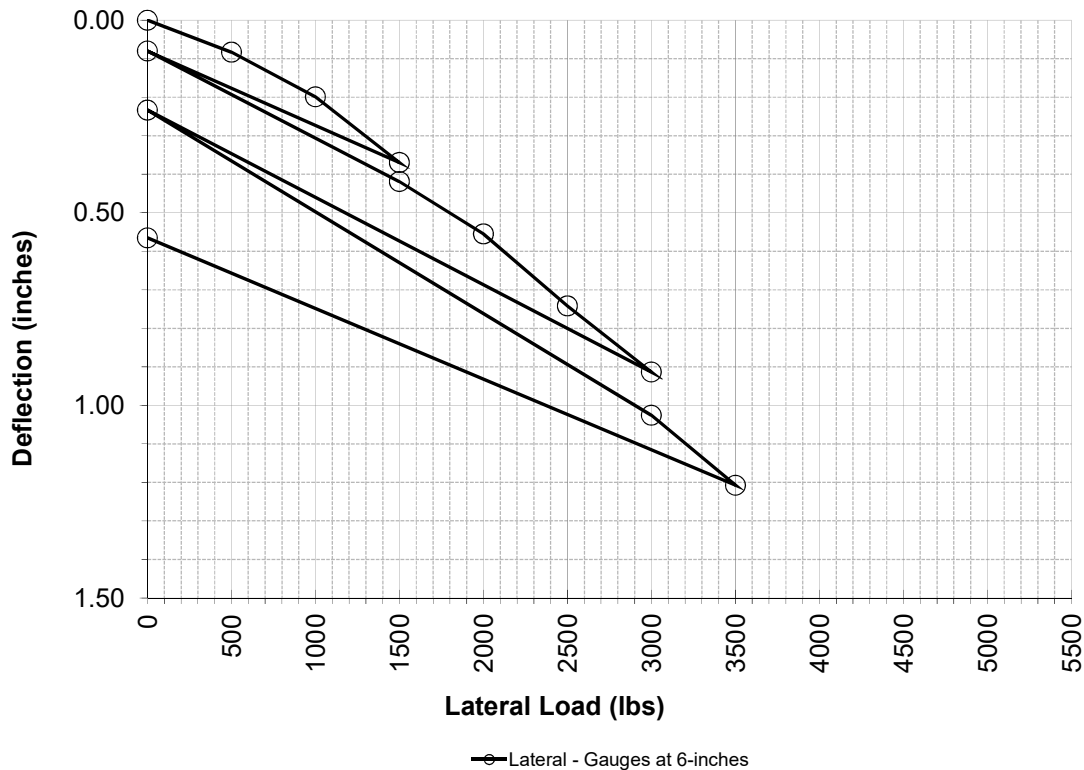
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/25/2021

Pile Information

Pile ID: PLT-10A
Latitude: 43.14671
Longitude: -76.63127
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 195.5

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.083	
28%	1000	0.199	
42%	1500	0.369	
0%	0	0.080	
42%	1500	0.419	
56%	2000	0.555	
69%	2500	0.742	
83%	3000	0.914	
0%	0	0.234	
83%	3000	1.026	
97%	3500	1.208	
0%	0	0.565	



Lateral Load Test Result for PLT-10B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

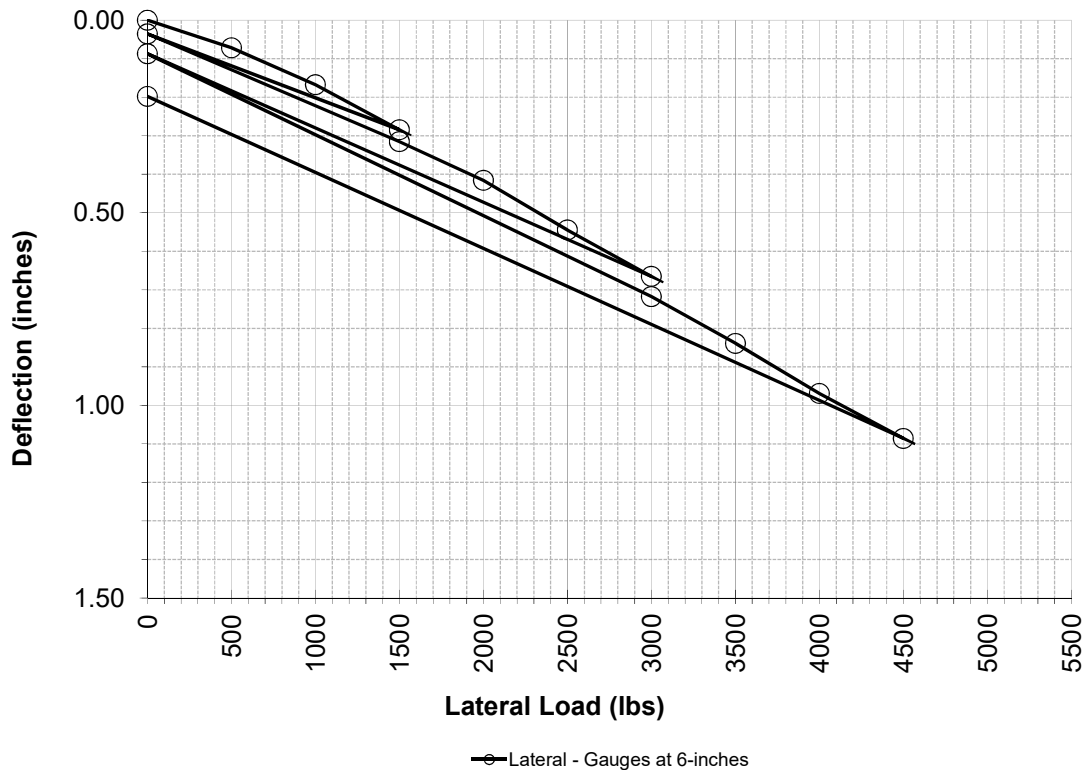
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/25/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.072	
28%	1000	0.168	
42%	1500	0.285	
0%	0	0.036	
42%	1500	0.315	
56%	2000	0.416	
69%	2500	0.545	
83%	3000	0.665	
0%	0	0.087	
83%	3000	0.718	
97%	3500	0.839	
111%	4000	0.969	
125%	4500	1.086	
0%	0	0.198	

Pile Information

Pile ID: PLT-10B
Latitude: 43.14671
Longitude: -76.63127
Pile Type: W6x9
Pile Embedment Depth [in]: 88
Pile Stick-Up [in]: 92
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240.1



Lateral Load Test Result for PLT-12A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

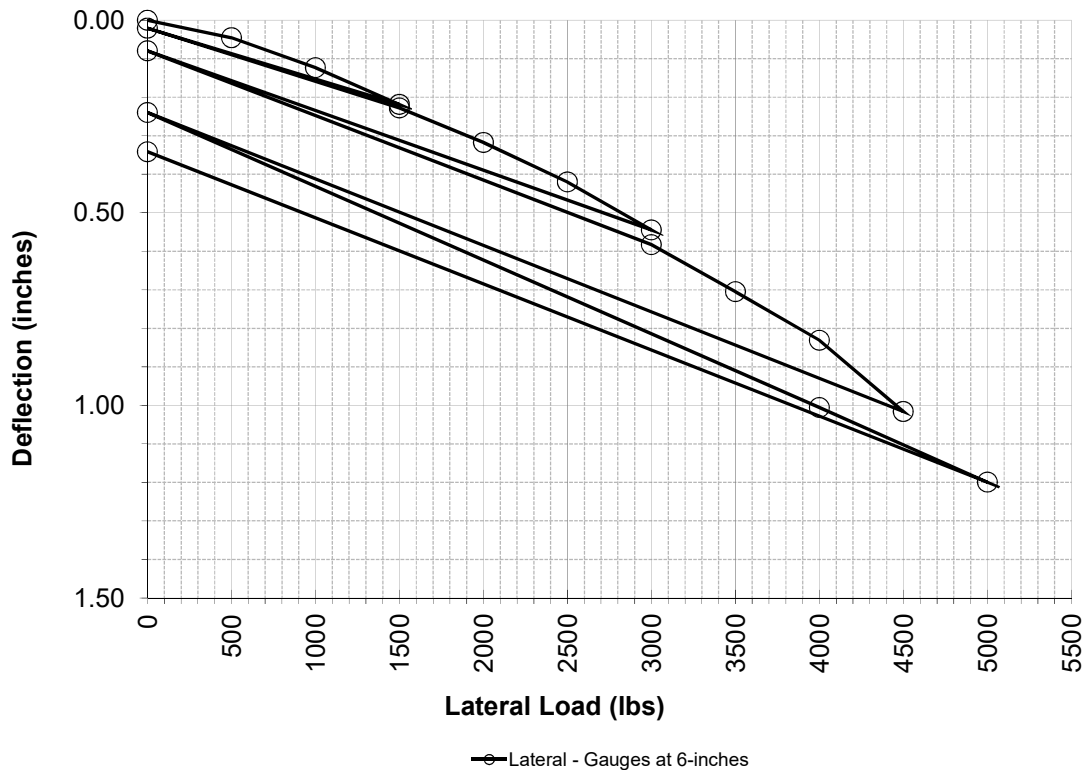
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/25/2021

Pile Information

Pile ID: PLT-12A
Latitude: 43.15075
Longitude: -76.62248
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 104.9

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.046	
28%	1000	0.123	
42%	1500	0.219	
0%	0	0.021	
42%	1500	0.228	
56%	2000	0.317	
69%	2500	0.420	
83%	3000	0.545	
0%	0	0.079	
83%	3000	0.583	
97%	3500	0.705	
111%	4000	0.831	
125%	4500	1.016	
0%	0	0.240	
111%	4000	1.006	
139%	5000	1.200	
0%	0	0.342	



Lateral Load Test Result for PLT-12B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

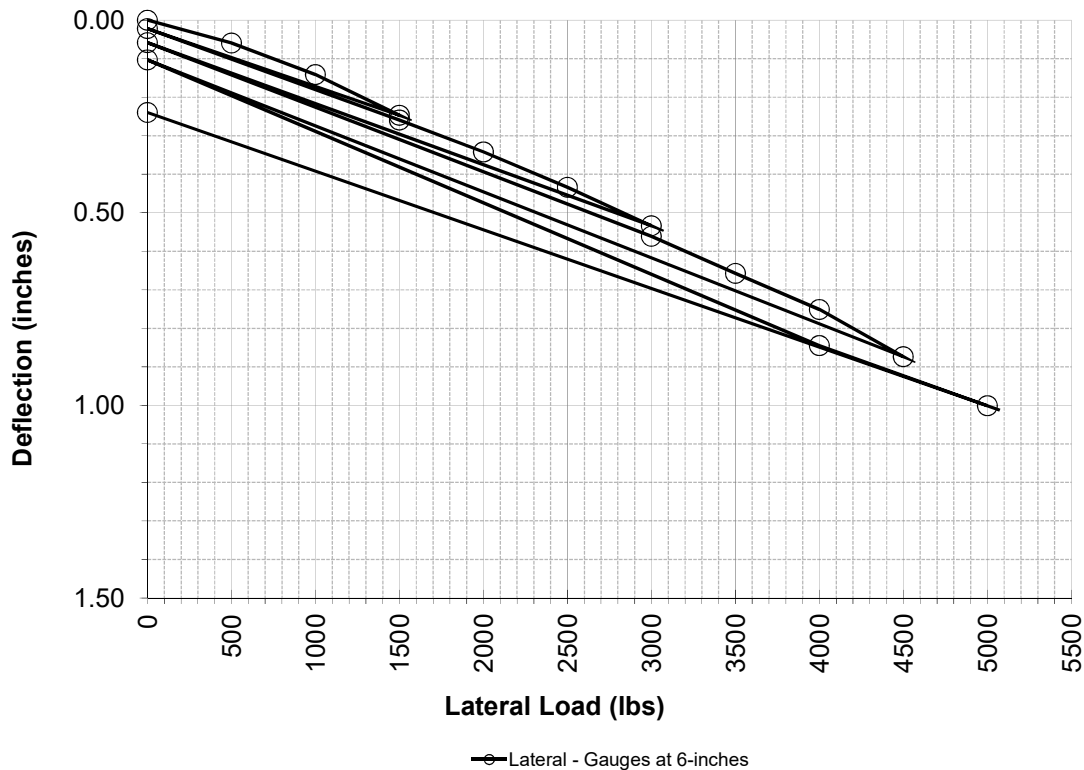
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/25/2021

Pile Information

Pile ID: PLT-12B
Latitude: 43.15075
Longitude: -76.62248
Pile Type: W6x9
Pile Embedment Depth [in]: 120
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 148.5

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.060	
28%	1000	0.142	
42%	1500	0.247	
0%	0	0.022	
42%	1500	0.260	
56%	2000	0.342	
69%	2500	0.434	
83%	3000	0.534	
0%	0	0.058	
83%	3000	0.561	
97%	3500	0.658	
111%	4000	0.751	
125%	4500	0.874	
0%	0	0.103	
111%	4000	0.845	
139%	5000	1.001	
0%	0	0.240	



Lateral Load Test Result for PLT-16A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

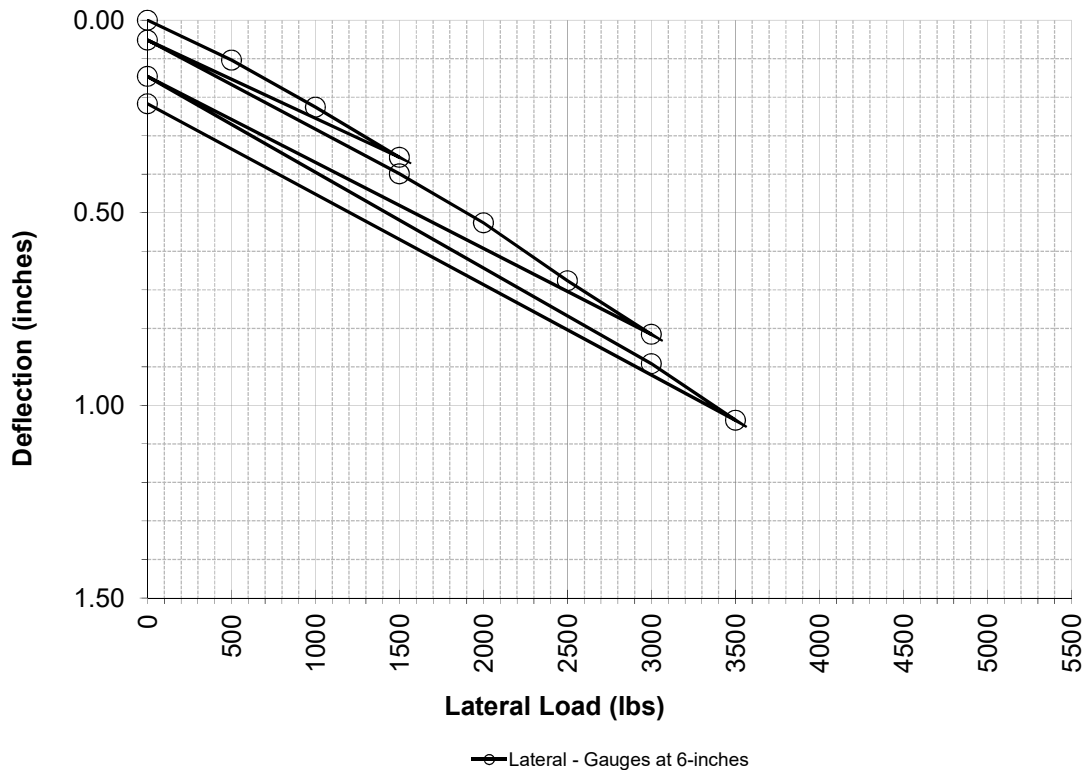
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/25/2021

Pile Information

Pile ID: PLT-16A
Latitude: 43.13347
Longitude: -76.62828
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 211.4

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.104	
28%	1000	0.226	
42%	1500	0.356	
0%	0	0.052	
42%	1500	0.399	
56%	2000	0.526	
69%	2500	0.676	
83%	3000	0.816	
0%	0	0.146	
83%	3000	0.892	
97%	3500	1.039	
0%	0	0.217	



Lateral Load Test Result for PLT-16B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

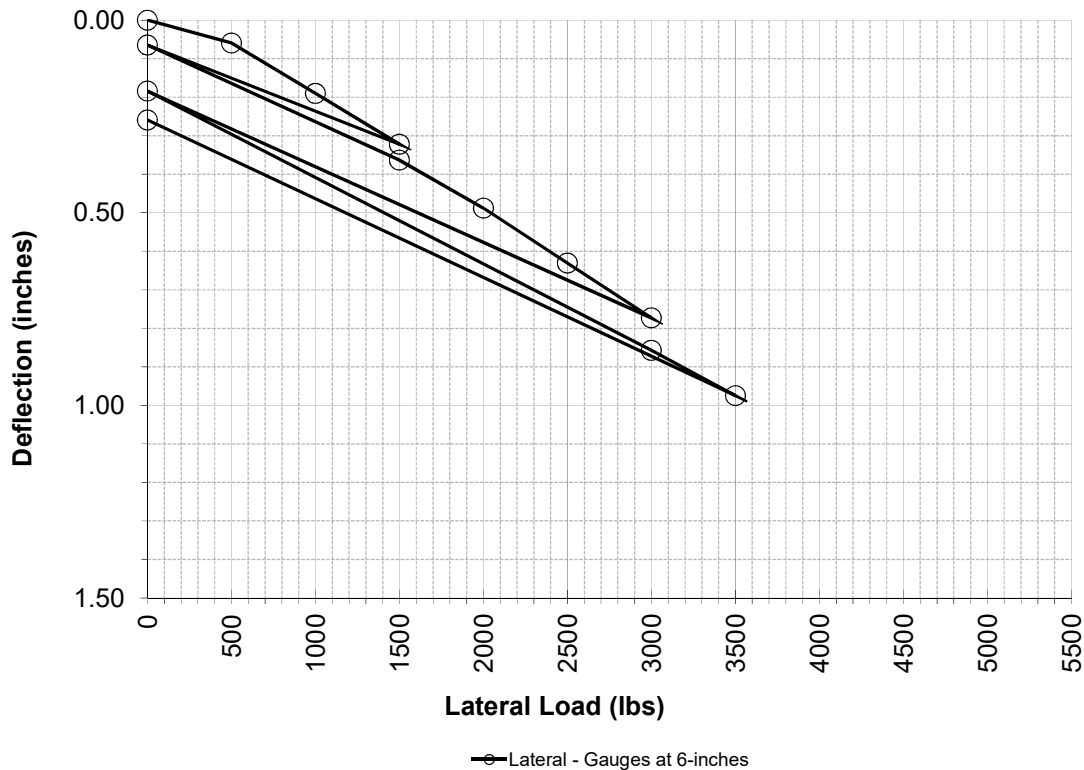
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/25/2021

Pile Information

Pile ID: PLT-16B
Latitude: 43.13347
Longitude: -76.62828
Pile Type: W6x9
Pile Embedment Depth [in]: 78
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240.1

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.060	
28%	1000	0.190	
42%	1500	0.322	
0%	0	0.065	
42%	1500	0.364	
56%	2000	0.488	
69%	2500	0.631	
83%	3000	0.773	
0%	0	0.184	
83%	3000	0.858	
97%	3500	0.975	
0%	0	0.259	



Lateral Load Test Result for PLT-17A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

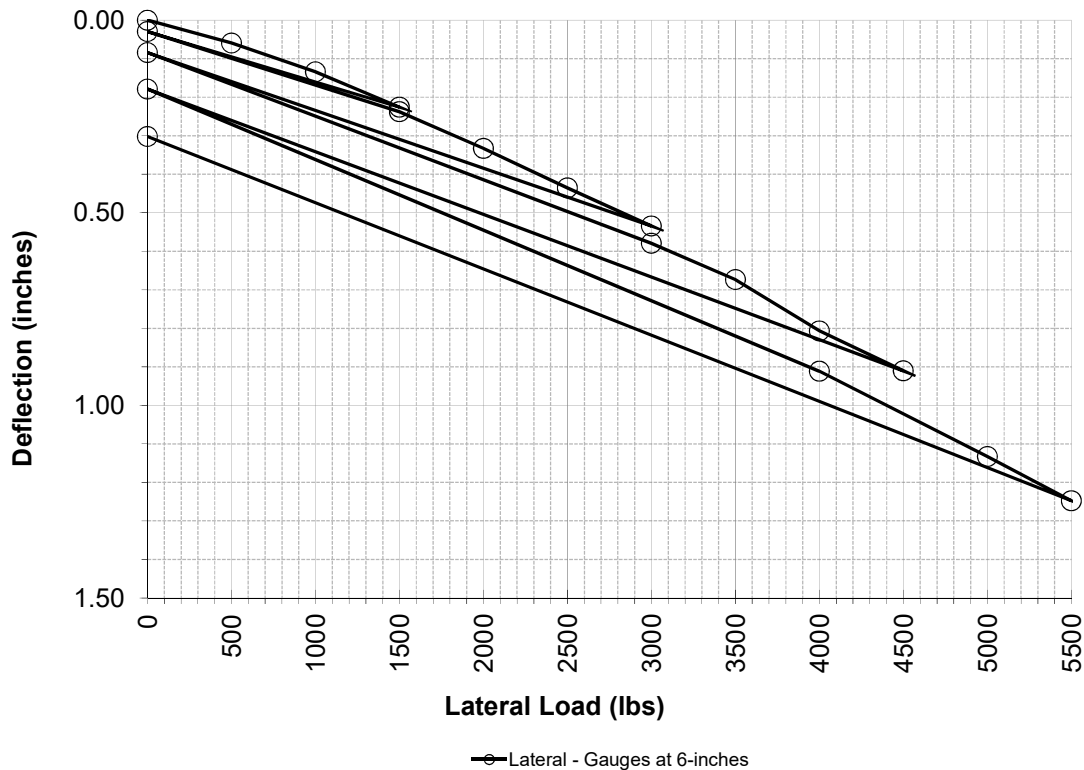
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-17A
Latitude: 43.13577
Longitude: -76.62598
Pile Type: W6x9
Pile Embedment Depth [in]: 70
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240.1

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.059	
28%	1000	0.134	
42%	1500	0.226	
0%	0	0.030	
42%	1500	0.238	
56%	2000	0.333	
69%	2500	0.436	
83%	3000	0.535	
0%	0	0.084	
83%	3000	0.579	
97%	3500	0.673	
111%	4000	0.807	
125%	4500	0.911	
0%	0	0.179	
111%	4000	0.911	
139%	5000	1.133	
153%	5500	1.248	
0%	0	0.302	



Lateral Load Test Result for PLT-17B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

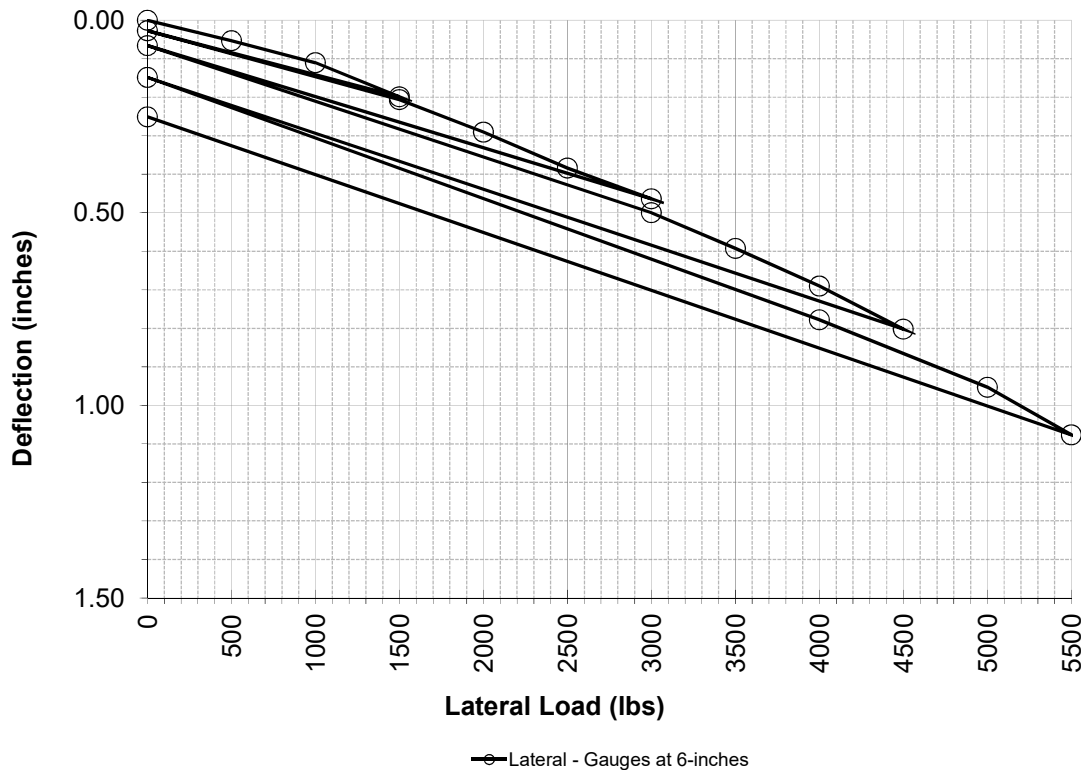
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-17B
Latitude: 43.13577
Longitude: -76.62598
Pile Type: W6x9
Pile Embedment Depth [in]: 68
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240.1

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.053	
28%	1000	0.111	
42%	1500	0.199	
0%	0	0.028	
42%	1500	0.206	
56%	2000	0.291	
69%	2500	0.384	
83%	3000	0.464	
0%	0	0.066	
83%	3000	0.500	
97%	3500	0.593	
111%	4000	0.690	
125%	4500	0.802	
0%	0	0.149	
111%	4000	0.778	
139%	5000	0.953	
153%	5500	1.077	
0%	0	0.251	



Lateral Load Test Result for PLT-18A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

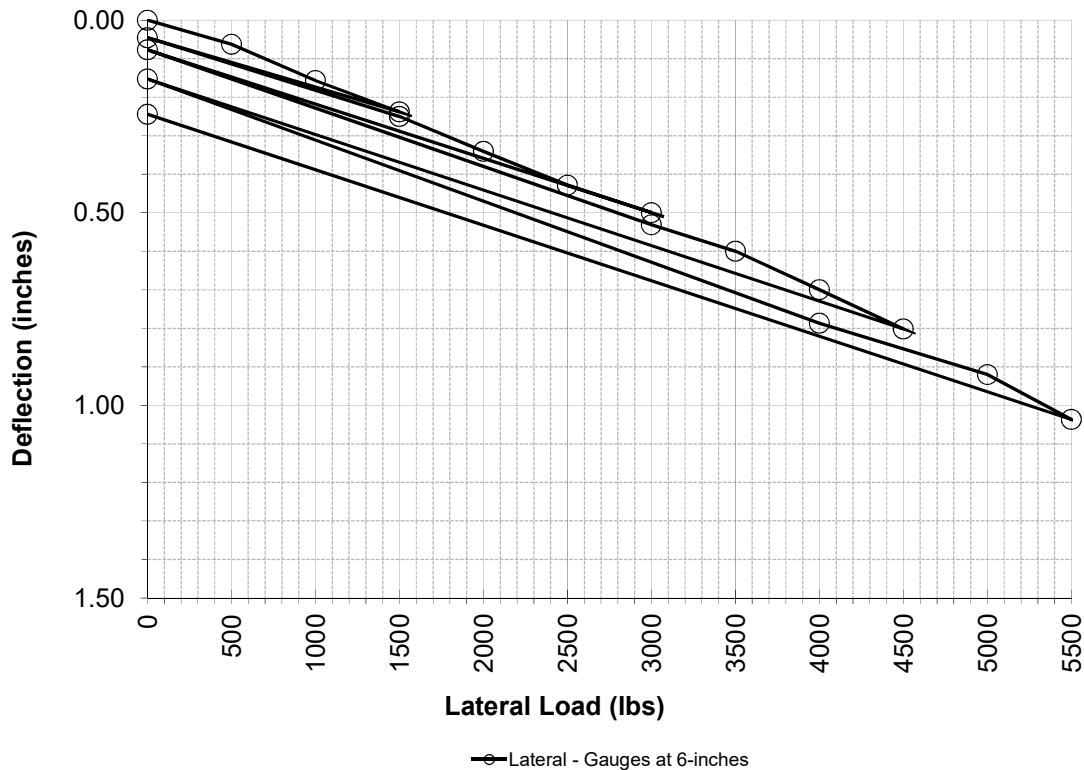
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

Pile Information

Pile ID: PLT-18A
Latitude: 43.13364
Longitude: -76.61948
Pile Type: W6x9
Pile Embedment Depth [in]: 71
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.062	
28%	1000	0.157	
42%	1500	0.238	
0%	0	0.045	
42%	1500	0.250	
56%	2000	0.341	
69%	2500	0.428	
83%	3000	0.500	
0%	0	0.077	
83%	3000	0.531	
97%	3500	0.600	
111%	4000	0.700	
125%	4500	0.802	
0%	0	0.153	
111%	4000	0.787	
139%	5000	0.920	
153%	5500	1.037	
0%	0	0.244	



Lateral Load Test Result for PLT-18B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

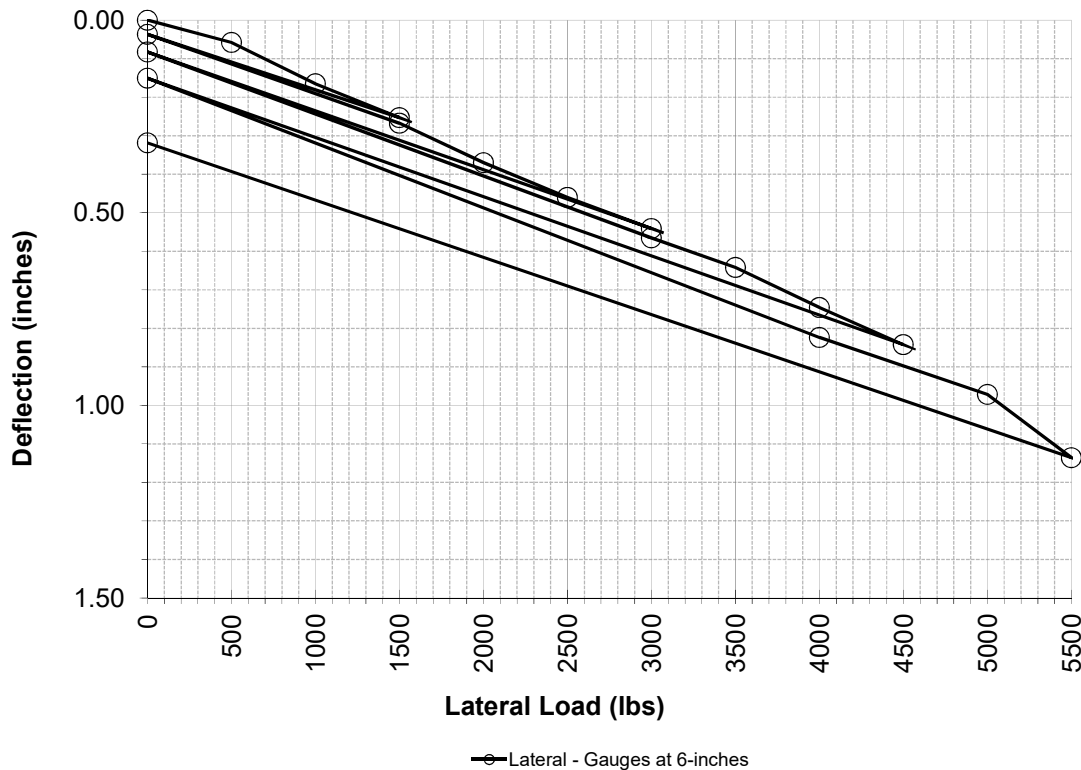
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

Pile Information

Pile ID: PLT-18B
Latitude: 43.13364
Longitude: -76.61948
Pile Type: W6x9
Pile Embedment Depth [in]: 74
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.058	
28%	1000	0.165	
42%	1500	0.253	
0%	0	0.037	
42%	1500	0.268	
56%	2000	0.370	
69%	2500	0.460	
83%	3000	0.541	
0%	0	0.083	
83%	3000	0.566	
97%	3500	0.642	
111%	4000	0.746	
125%	4500	0.843	
0%	0	0.151	
111%	4000	0.824	
139%	5000	0.972	
153%	5500	1.136	
0%	0	0.318	



Lateral Load Test Result for PLT-20A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

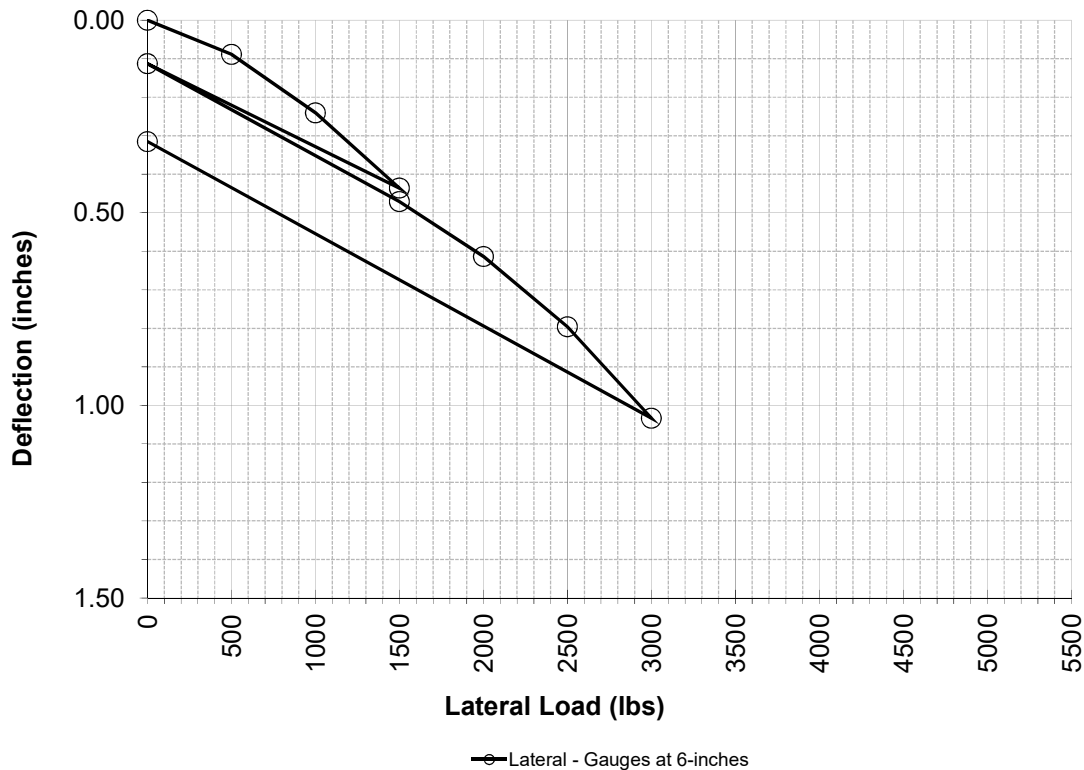
% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.089	
28%	1000	0.241	
42%	1500	0.436	
0%	0	0.113	
42%	1500	0.471	
56%	2000	0.614	
69%	2500	0.796	
83%	3000	1.034	
0%	0	0.316	

Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-20A
Latitude: 43.12289
Longitude: -76.62639
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 36.3



Lateral Load Test Result for PLT-20B



Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

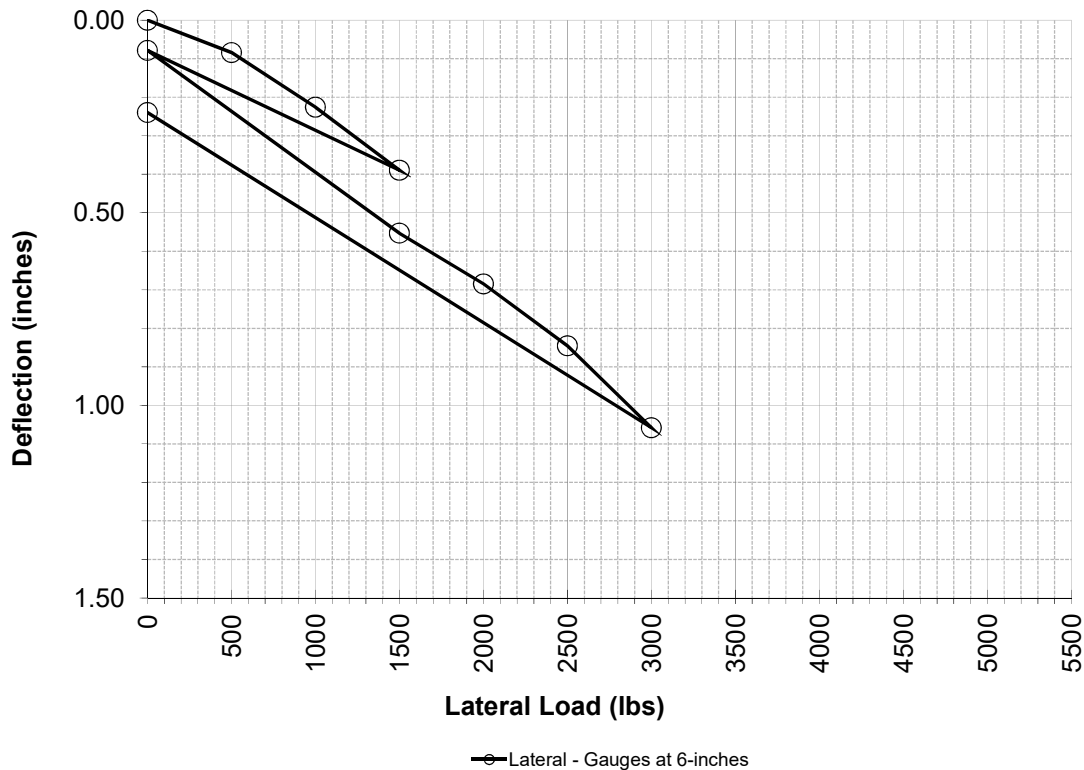
% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.084	
28%	1000	0.226	
42%	1500	0.390	
0%	0	0.078	
42%	1500	0.553	
56%	2000	0.685	
69%	2500	0.845	
83%	3000	1.058	
0%	0	0.240	

Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-20B
Latitude: 43.12289
Longitude: -76.62639
Pile Type: W6x9
Pile Embedment Depth [in]: 120
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 171.9



Lateral Load Test Result for PLT-21A



Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

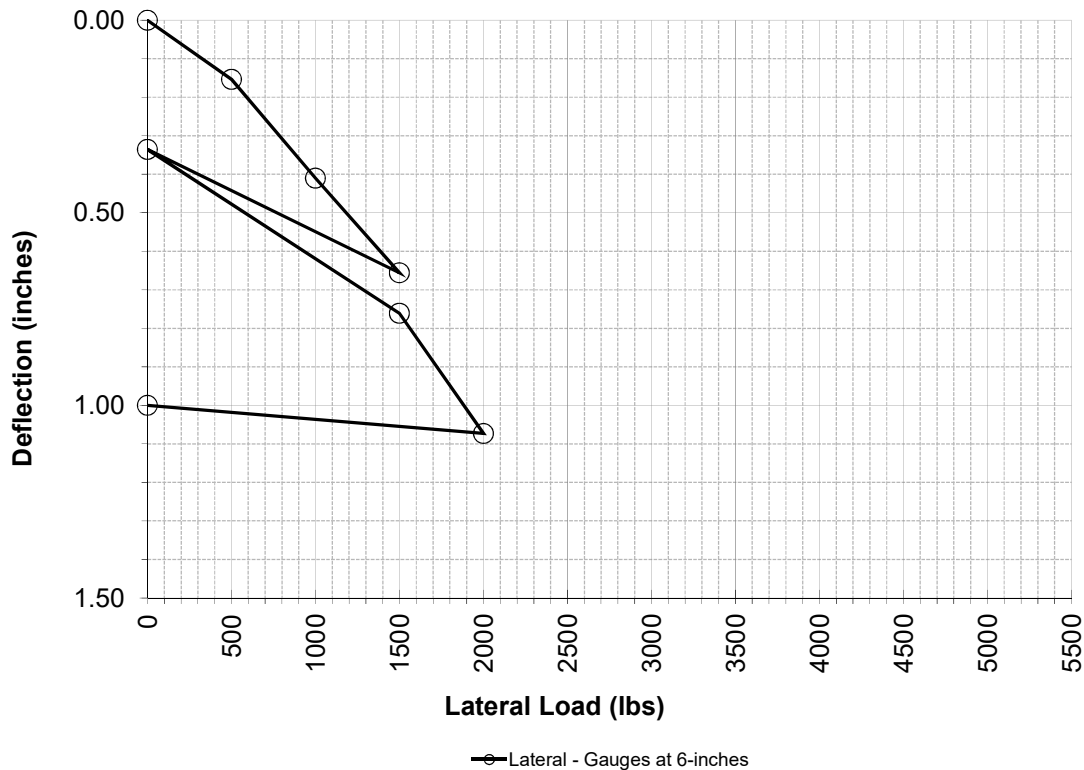
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-21A
Latitude: 43.11853
Longitude: -76.62308
Pile Type: W6x9
Pile Embedment Depth [in]: 66
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 152.5

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.154	
28%	1000	0.410	
42%	1500	0.656	
0%	0	0.336	
42%	1500	0.761	
56%	2000	1.073	
0%	0	1.000	



Lateral Load Test Result for PLT-21B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

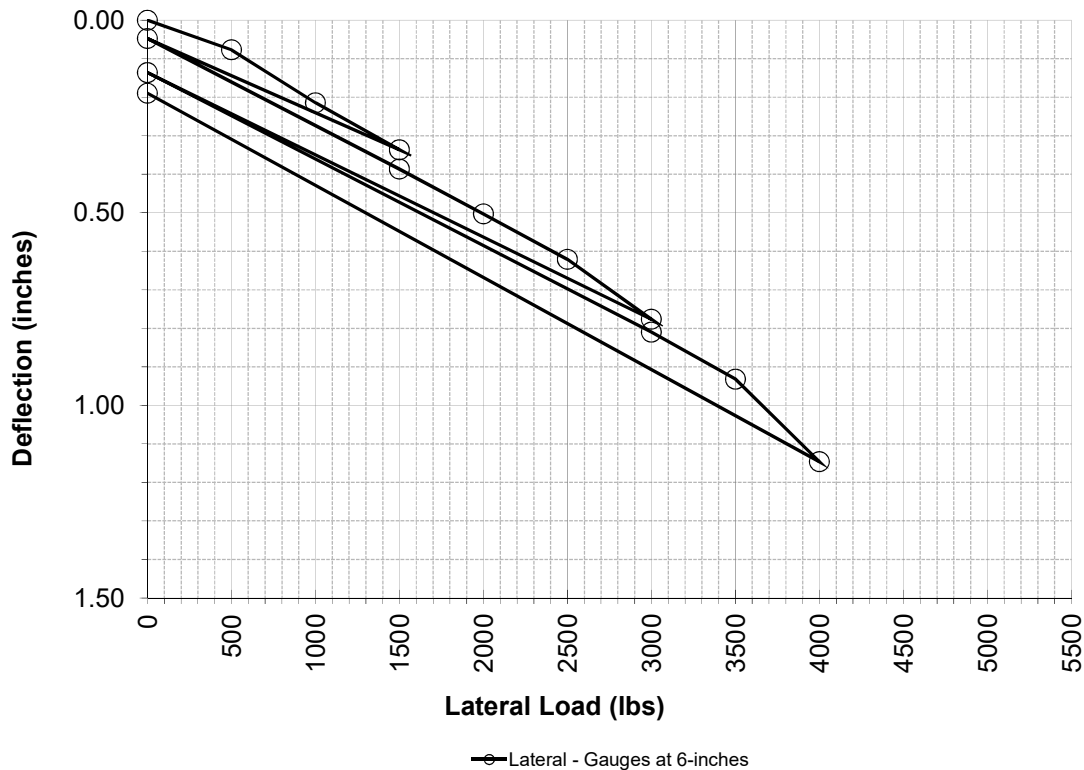
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.077	
28%	1000	0.214	
42%	1500	0.337	
0%	0	0.048	
42%	1500	0.387	
56%	2000	0.503	
69%	2500	0.621	
83%	3000	0.776	
0%	0	0.136	
83%	3000	0.810	
97%	3500	0.932	
111%	4000	1.147	
0%	0	0.190	

Pile Information

Pile ID: PLT-21B
Latitude: 43.11853
Longitude: -76.62308
Pile Type: W6x9
Pile Embedment Depth [in]: 97
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240.3



Lateral Load Test Result for PLT-22A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

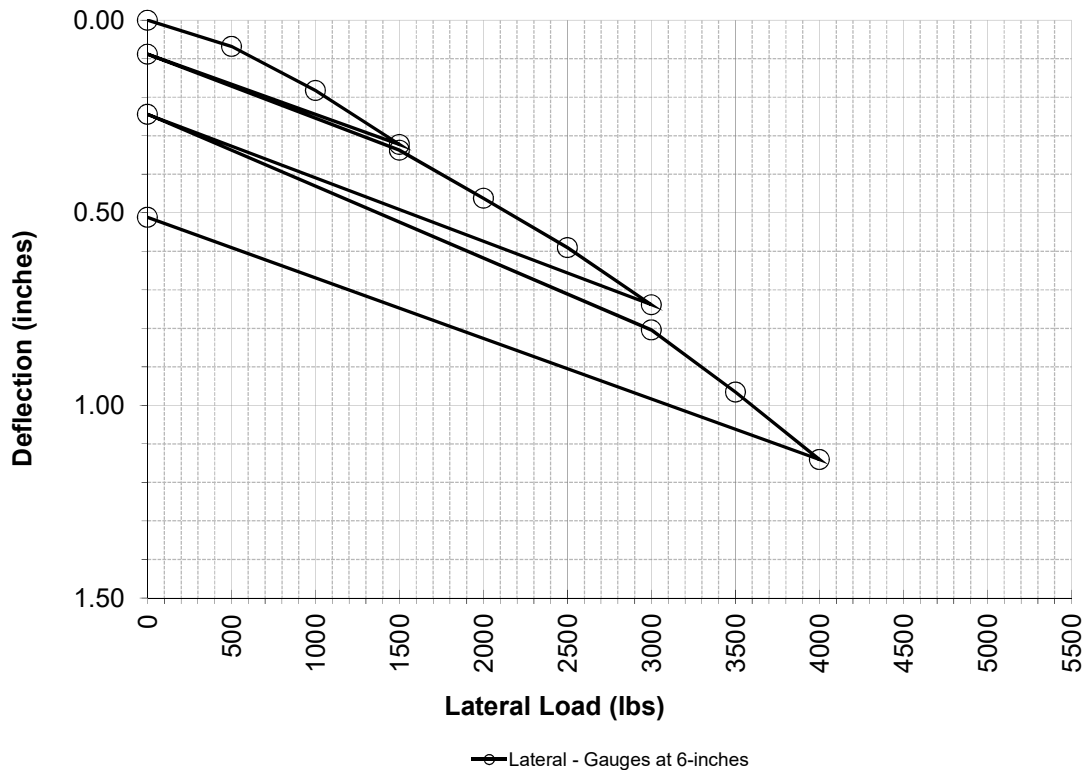
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/22/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.068	
28%	1000	0.183	
42%	1500	0.323	
0%	0	0.088	
42%	1500	0.338	
56%	2000	0.462	
69%	2500	0.590	
83%	3000	0.739	
0%	0	0.244	
83%	3000	0.805	
97%	3500	0.966	
111%	4000	1.141	
0%	0	0.512	

Pile Information

Pile ID: PLT-22A
Latitude: 43.15348
Longitude: -76.60904
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 33.2



Lateral Load Test Result for PLT-22B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

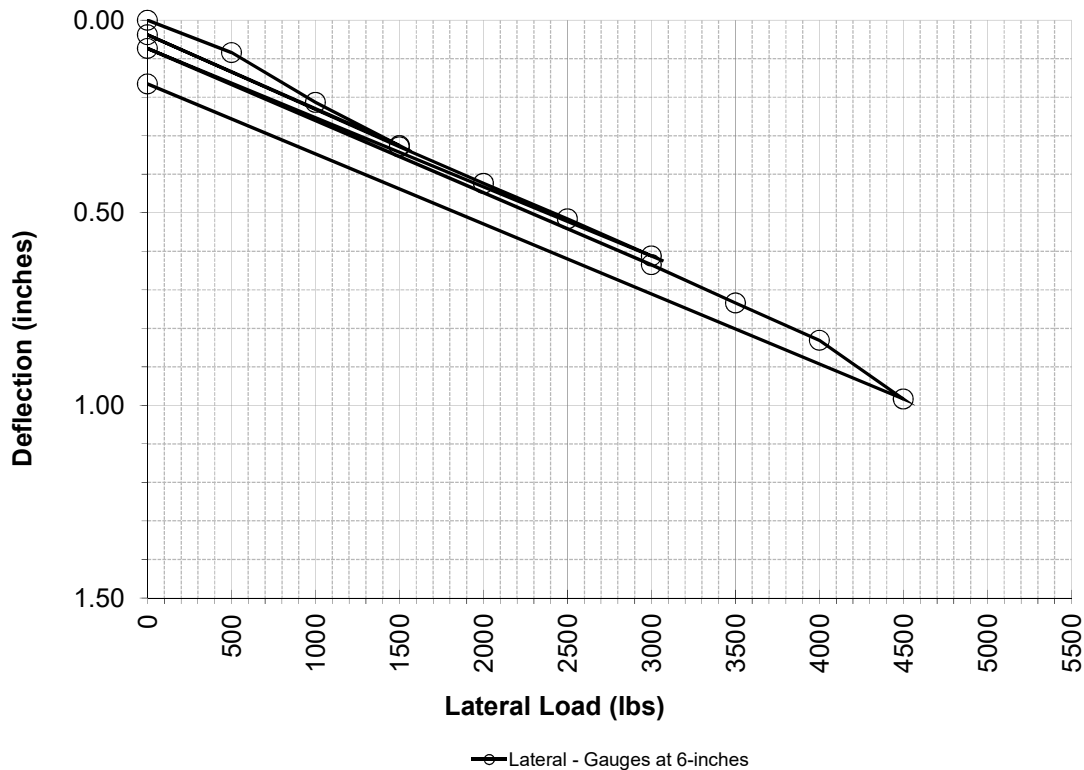
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/22/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.084	
28%	1000	0.214	
42%	1500	0.326	
0%	0	0.038	
42%	1500	0.329	
56%	2000	0.424	
69%	2500	0.516	
83%	3000	0.612	
0%	0	0.073	
83%	3000	0.635	
97%	3500	0.734	
111%	4000	0.831	
125%	4500	0.984	
0%	0	0.166	

Pile Information

Pile ID: PLT-22B
Latitude: 43.15348
Longitude: -76.60904
Pile Type: W6x9
Pile Embedment Depth [in]: 120
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 138



Lateral Load Test Result for PLT-23A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

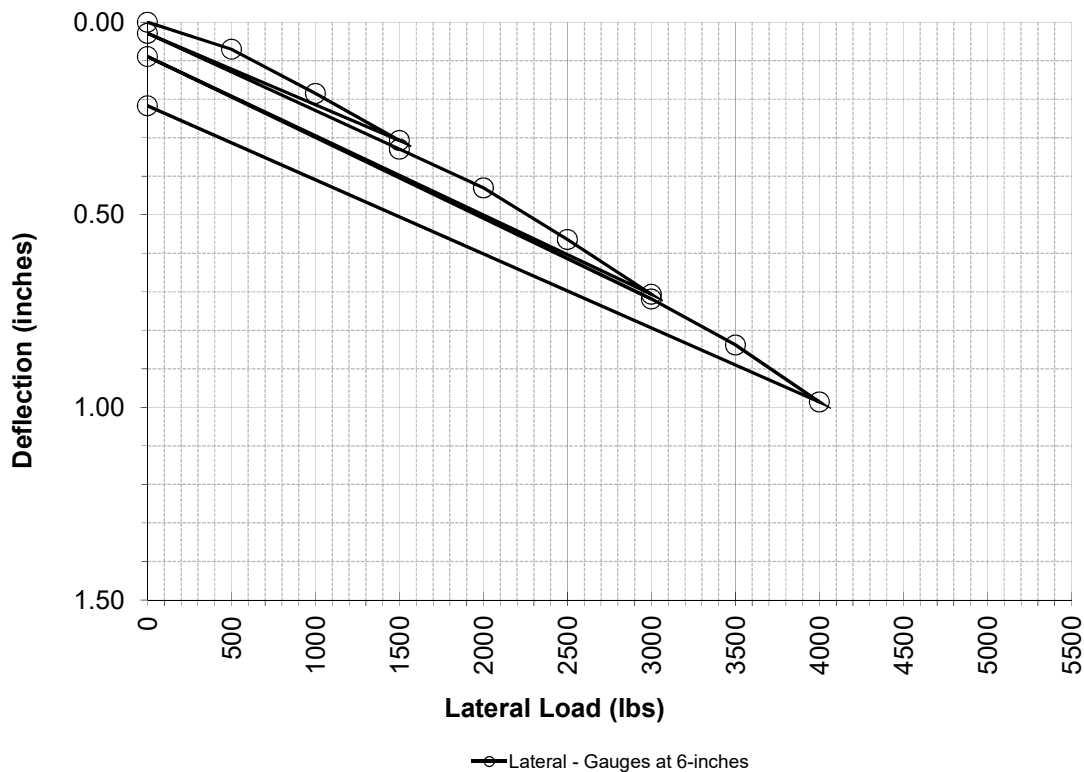
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.070	
28%	1000	0.185	
42%	1500	0.307	
0%	0	0.029	
42%	1500	0.330	
56%	2000	0.430	
69%	2500	0.564	
83%	3000	0.707	
0%	0	0.090	
83%	3000	0.719	
97%	3500	0.839	
111%	4000	0.986	
0%	0	0.217	

Pile Information

Pile ID: PLT-23A
Latitude: 43.15228
Longitude: -76.59869
Pile Type: W6x9
Pile Embedment Depth [in]: 79
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240.1



Lateral Load Test Result for PLT-23B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

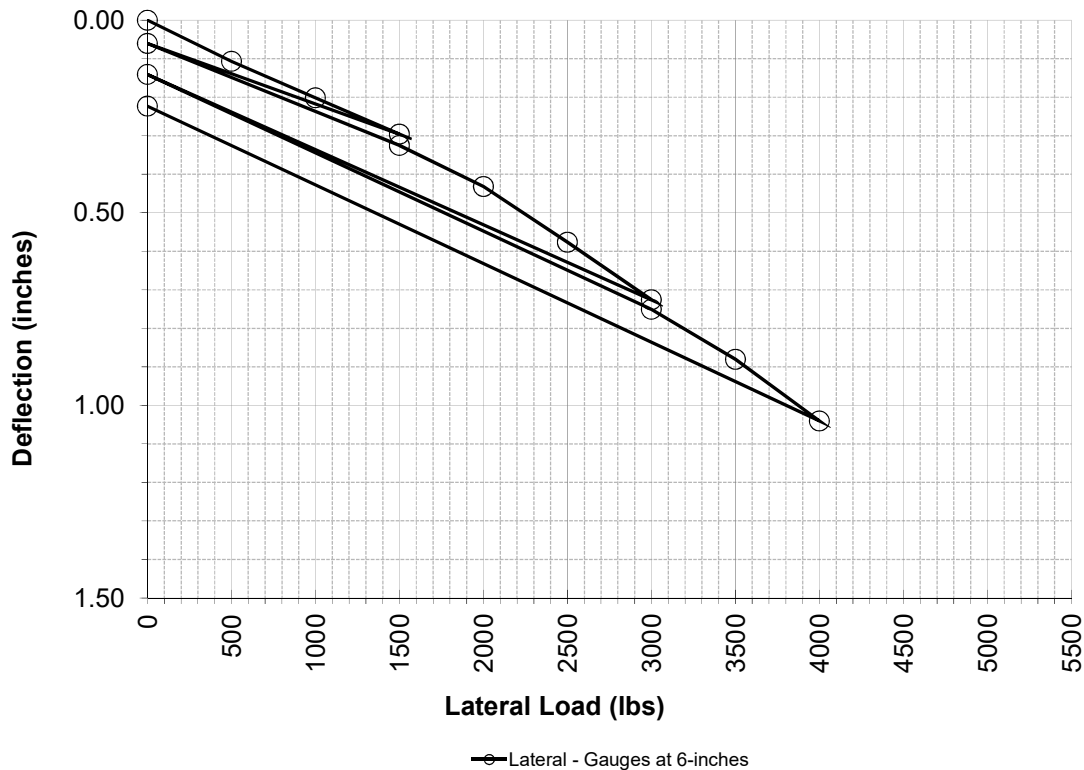
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.107	
28%	1000	0.202	
42%	1500	0.296	
0%	0	0.060	
42%	1500	0.325	
56%	2000	0.432	
69%	2500	0.577	
83%	3000	0.726	
0%	0	0.141	
83%	3000	0.751	
97%	3500	0.880	
111%	4000	1.041	
0%	0	0.223	

Pile Information

Pile ID: PLT-23B
Latitude: 43.15228
Longitude: -76.59869
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 286.1



Lateral Load Test Result for PLT-24A

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

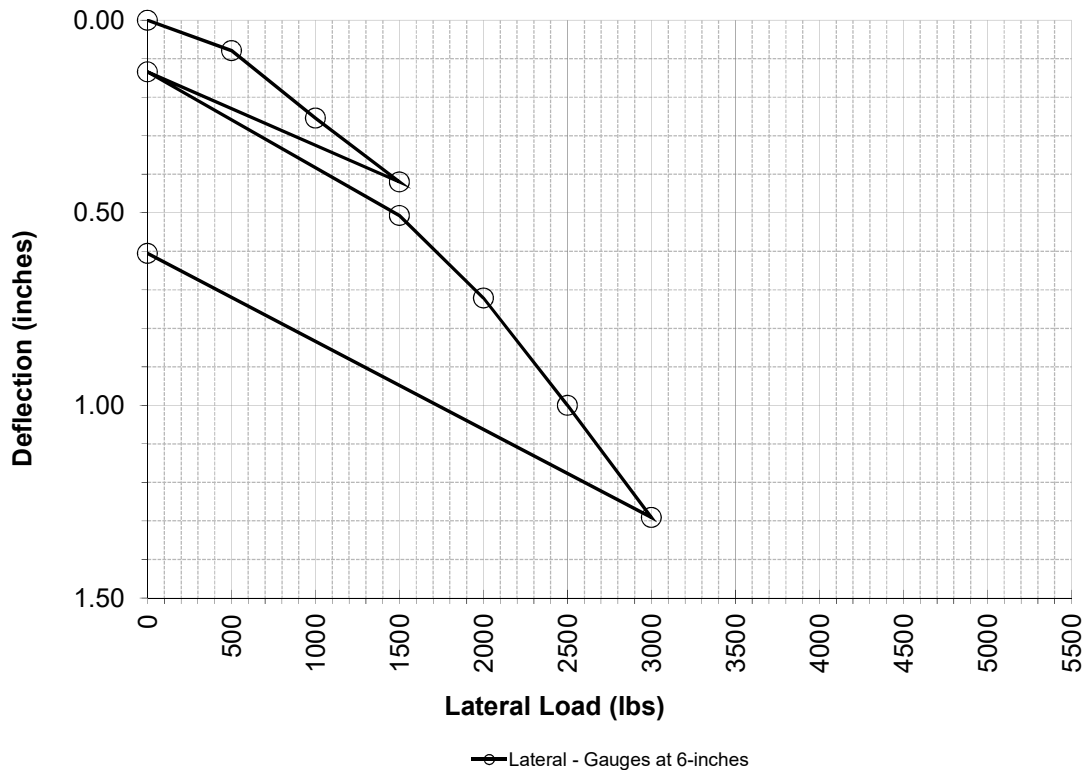
% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.079	
28%	1000	0.254	
42%	1500	0.420	
0%	0	0.134	
42%	1500	0.507	
56%	2000	0.722	
69%	2500	1.000	
83%	3000	1.291	
0%	0	0.606	

Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/22/2021

Pile Information

Pile ID: PLT-24A
Latitude: 43.13999
Longitude: -76.59974
Pile Type: W6x9
Pile Embedment Depth [in]: 65
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 181.6



Lateral Load Test Result for PLT-24B

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Lateral Load Test Set Up

Number of Top Gauges: 0
Number of Bottom Gauges: 2
Height of Top Gauges [in]: 6
Height of Bottom Gauges [in]: 6
Height of Applied Load [in]: 24
Load Cell: Dillon ED Junior

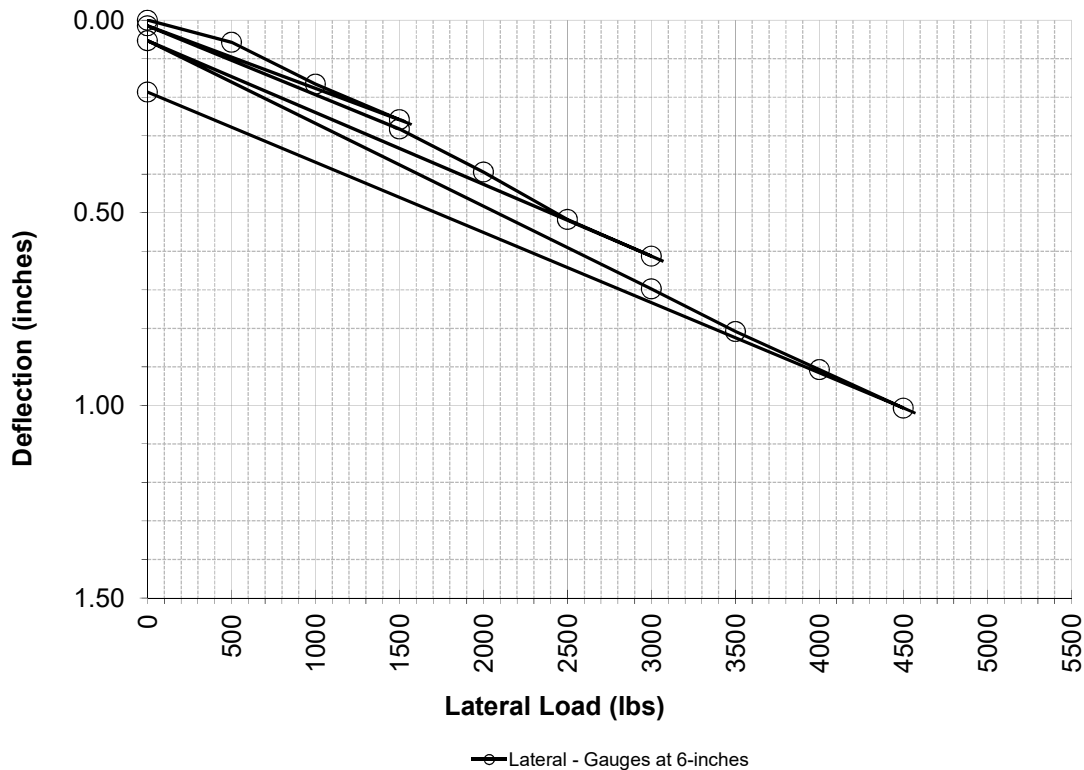
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/22/2021

% of Design Load	Lateral Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
14%	500	0.058	
28%	1000	0.166	
42%	1500	0.258	
0%	0	0.015	
42%	1500	0.282	
56%	2000	0.394	
69%	2500	0.517	
83%	3000	0.613	
0%	0	0.053	
83%	3000	0.698	
97%	3500	0.808	
111%	4000	0.908	
125%	4500	1.007	
0%	0	0.187	

Pile Information

Pile ID: PLT-24B
Latitude: 43.13999
Longitude: -76.59974
Pile Type: W6x9
Pile Embedment Depth [in]: 81
Pile Stick-Up [in]: 60
Lateral Design Load [lbs]: 3600
Drive Time [sec]: 240.1



APPENDIX H – PILE LOAD TEST RESULTS – AXIAL COMPRESSION LOAD

Contents:

Exhibits H-001 to H-015 Tension Load Test Results (15 pages)

Note: All attachments are one page unless noted above.

Compression Load Test Result for PLT-1C

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Rice Lake

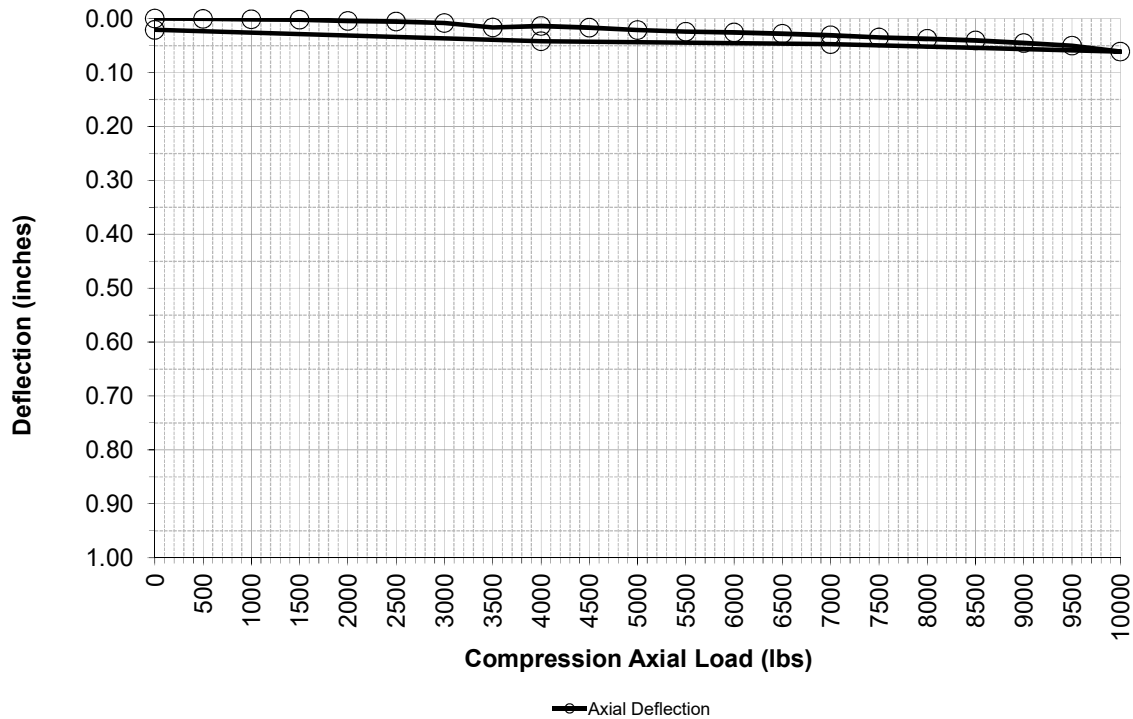
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/29/2021

Pile Information

Pile ID: PLT-1C
Latitude: 43.14142
Longitude: -76.65385
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3000
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 363.5

Compression Test Results			
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
17%	500	0.001	
33%	1000	0.001	
50%	1500	0.002	
67%	2000	0.005	
83%	2500	0.005	
100%	3000	0.008	
117%	3500	0.017	
133%	4000	0.014	
150%	4500	0.017	
167%	5000	0.021	
183%	5500	0.024	
200%	6000	0.026	
217%	6500	0.028	
233%	7000	0.031	
250%	7500	0.035	
267%	8000	0.038	
283%	8500	0.041	
300%	9000	0.045	
317%	9500	0.050	
333%	10000	0.061	
233%	7000	0.048	
133%	4000	0.042	
0%	0	0.021	



#

Compression Load Test Result for PLT-4C

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Rice Lake

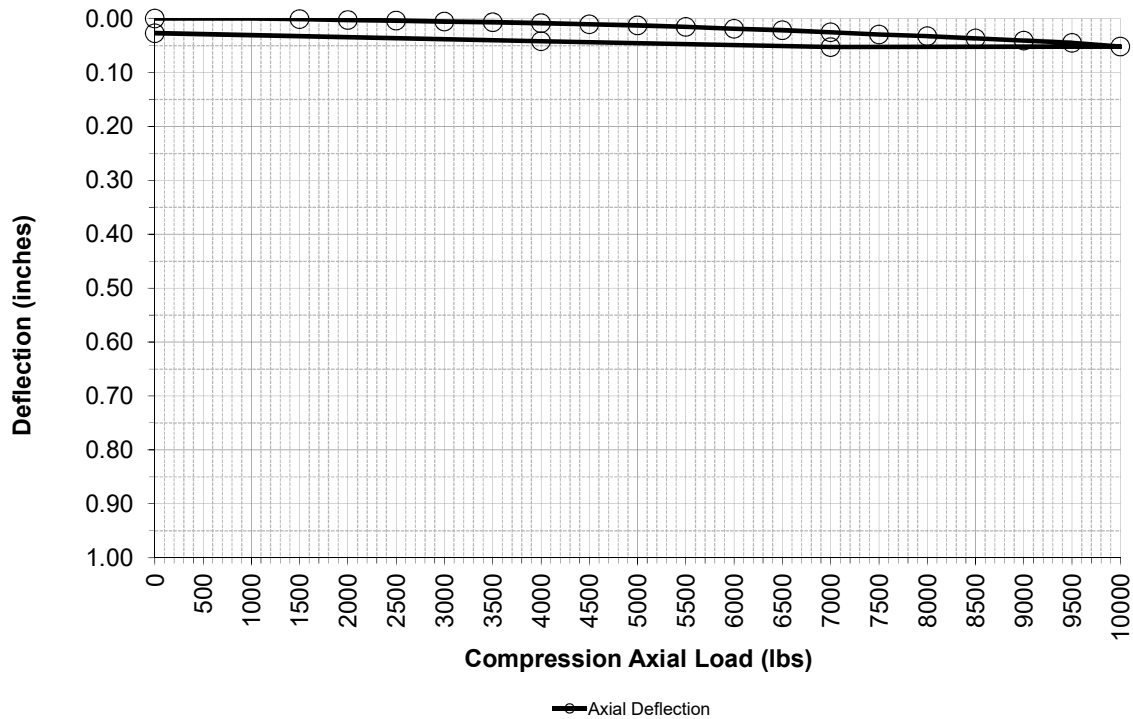
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/29/2021

Pile Information

Pile ID: PLT-4C
Latitude: 43.13595
Longitude: -76.64545
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3000
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 189.1

Compression Test Results			
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
17%	500	0.000	
33%	1000	0.000	
50%	1500	0.001	
67%	2000	0.003	
83%	2500	0.004	
100%	3000	0.006	
117%	3500	0.007	
133%	4000	0.009	
150%	4500	0.011	
167%	5000	0.013	
183%	5500	0.016	
200%	6000	0.019	
217%	6500	0.022	
233%	7000	0.025	
250%	7500	0.030	
267%	8000	0.033	
283%	8500	0.037	
300%	9000	0.041	
317%	9500	0.045	
333%	10000	0.052	
233%	7000	0.053	
133%	4000	0.042	
0%	0	0.027	



Project Name:	Garnet Solar
Project Location:	Conquest, NY
Project Number:	J5205196

Axial Load Test Set Up

Number of Gauges:	2
Height of Gauges [in]:	6
Load Cell:	Rice Lake

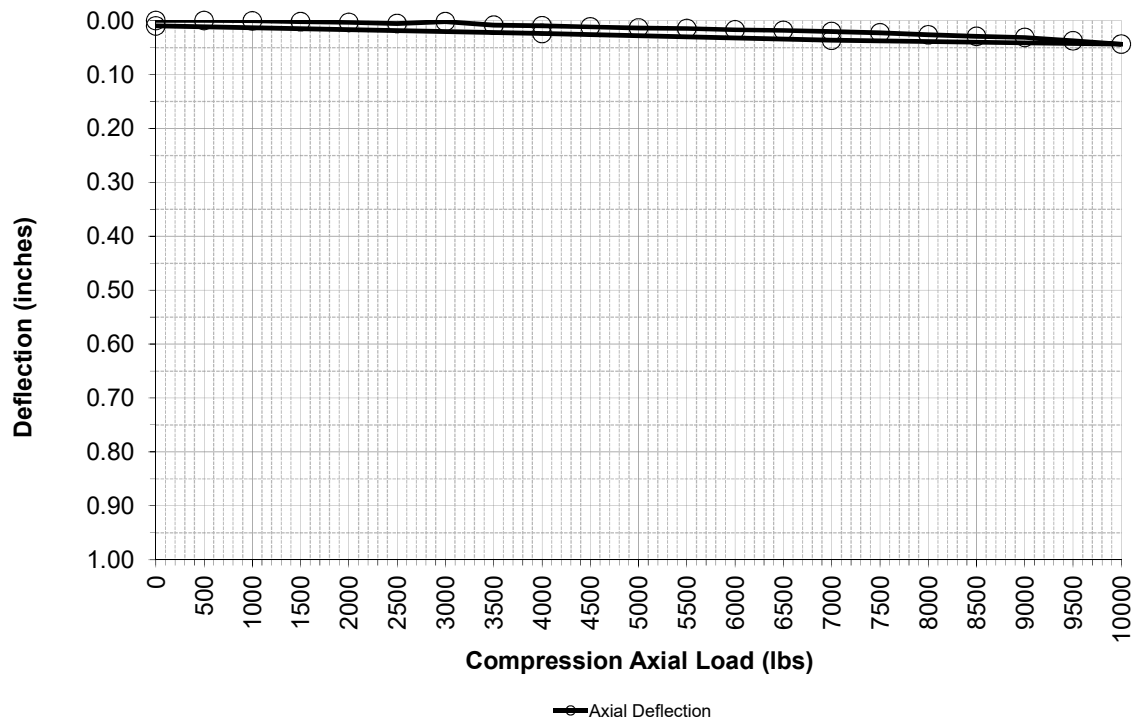
[illegible]

Tested By Terracon Rep:	T. Wooden
Date Tested:	3/25/2021

Pile Information

Pile ID:	PLT-9C
Latitude:	43.14029
Longitude:	-76.63541
Pile Type:	W6x9
Pile Embedment Depth [in]:	84
Pile Diameter [in]:	5.9
Pile Stick-Up [in]:	60
Axial Design Load [lbs]:	3000
Pile Area [sq. in]:	2.68
Elastic Modulus [ksi]:	29,000
Drive Time [sec]:	138.6

Compression Test Results			
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
17%	500	0.000	
33%	1000	0.001	
50%	1500	0.002	
67%	2000	0.004	
83%	2500	0.006	
100%	3000	0.002	
117%	3500	0.009	
133%	4000	0.010	
150%	4500	0.012	
167%	5000	0.014	
183%	5500	0.015	
200%	6000	0.017	
217%	6500	0.018	
233%	7000	0.020	
250%	7500	0.023	
267%	8000	0.026	
283%	8500	0.029	
300%	9000	0.031	
317%	9500	0.037	
333%	10000	0.044	
233%	7000	0.037	
133%	4000	0.024	
0%	0	0.010	



Compression Load Test Result for PLT-16C

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Rice Lake

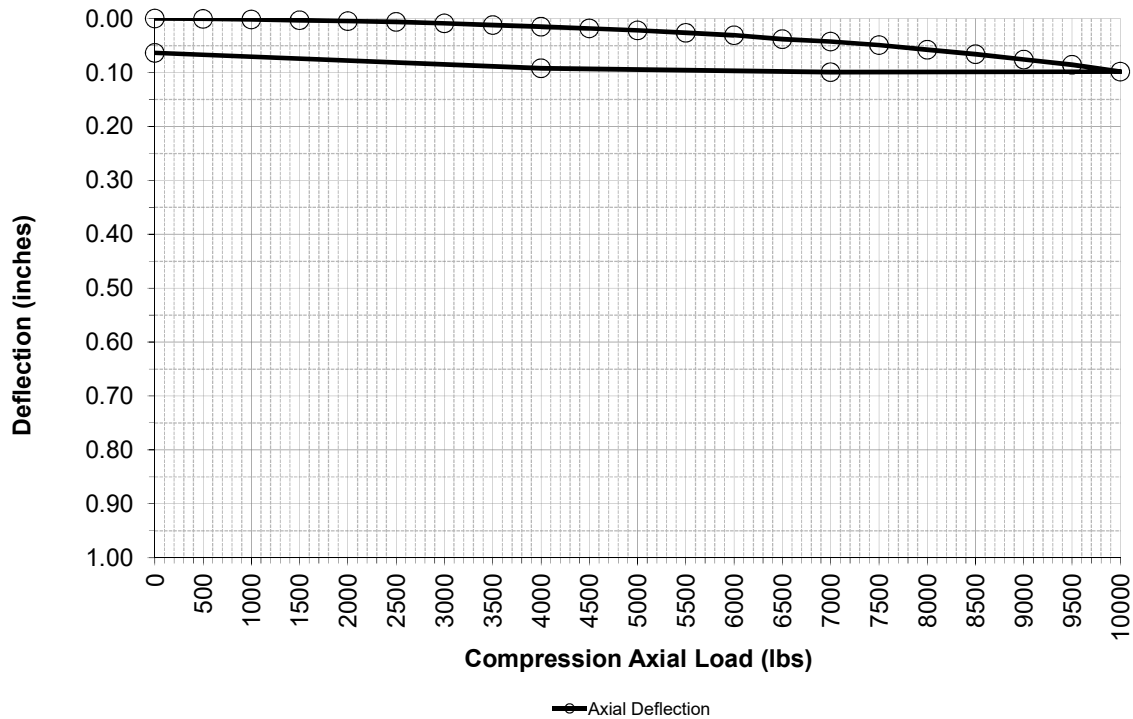
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/25/2021

Pile Information

Pile ID: PLT-16C
Latitude: 43.13347
Longitude: -76.62828
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3000
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 159.6

Compression Test Results			
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
17%	500	0.001	
33%	1000	0.002	
50%	1500	0.003	
67%	2000	0.005	
83%	2500	0.006	
100%	3000	0.009	
117%	3500	0.012	
133%	4000	0.015	
150%	4500	0.018	
167%	5000	0.022	
183%	5500	0.027	
200%	6000	0.031	
217%	6500	0.038	
233%	7000	0.043	
250%	7500	0.049	
267%	8000	0.058	
283%	8500	0.066	
300%	9000	0.076	
317%	9500	0.086	
333%	10000	0.099	
233%	7000	0.099	
133%	4000	0.092	
0%	0	0.064	



Compression Load Test Result for PLT-17C

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Rice Lake

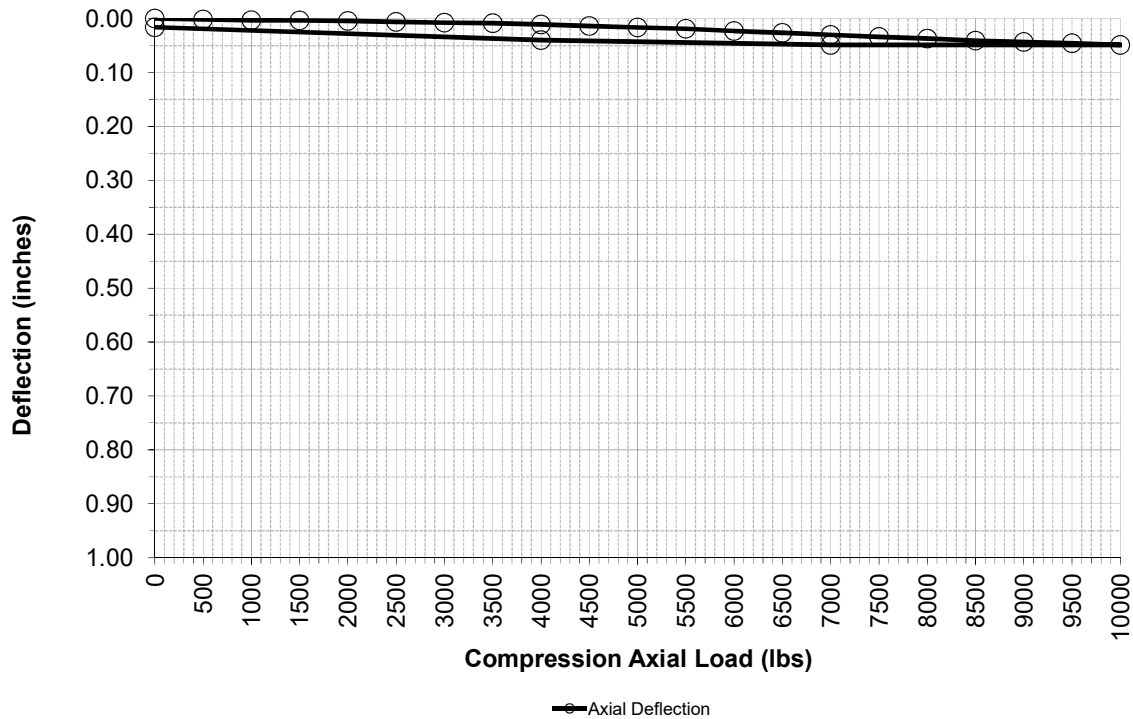
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/24/2021

Pile Information

Pile ID: PLT-17C
Latitude: 43.13577
Longitude: -76.62598
Pile Type: W6x9
Pile Embedment Depth [in]: 68
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3000
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 240.3

Compression Test Results			
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
17%	500	0.002	
33%	1000	0.003	
50%	1500	0.004	
67%	2000	0.005	
83%	2500	0.006	
100%	3000	0.008	
117%	3500	0.009	
133%	4000	0.011	
150%	4500	0.014	
167%	5000	0.017	
183%	5500	0.019	
200%	6000	0.023	
217%	6500	0.027	
233%	7000	0.030	
250%	7500	0.034	
267%	8000	0.037	
283%	8500	0.041	
300%	9000	0.043	
317%	9500	0.046	
333%	10000	0.049	
233%	7000	0.049	
133%	4000	0.040	
0%	0	0.016	



Compression Load Test Result for PLT-18C

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Rice Lake

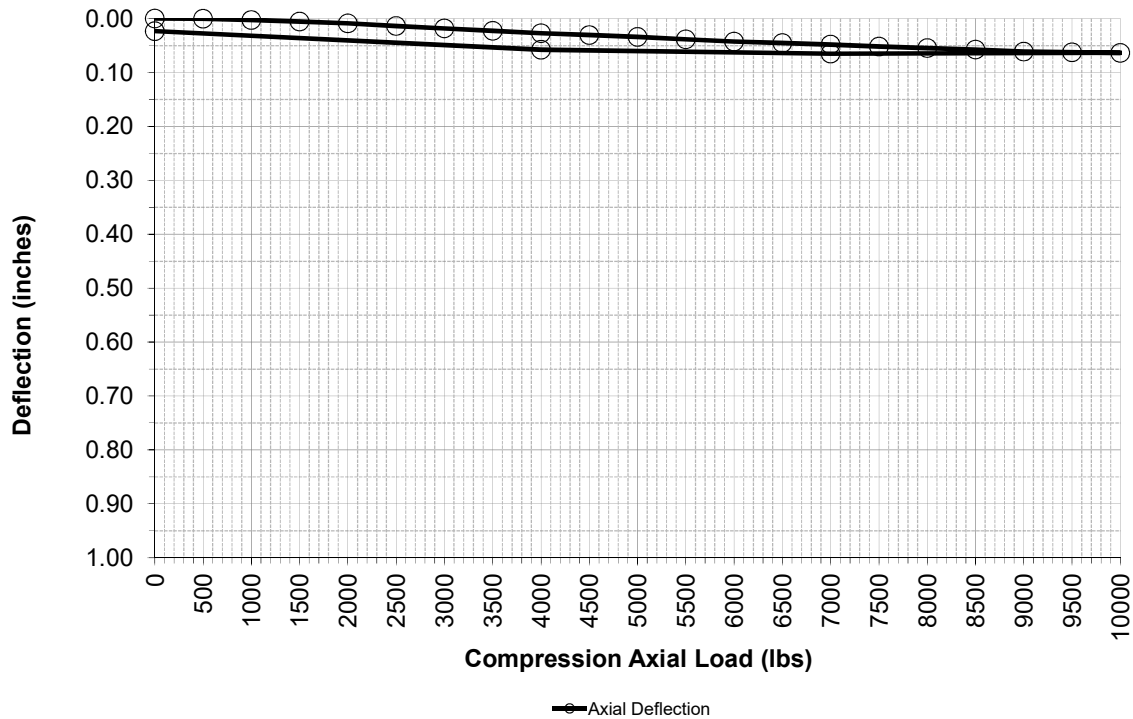
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

Pile Information

Pile ID: PLT-18C
Latitude: 43.13364
Longitude: -76.61948
Pile Type: W6x9
Pile Embedment Depth [in]: 48
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3000
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 138.7

Compression Test Results			
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
17%	500	0.000	
33%	1000	0.003	
50%	1500	0.006	
67%	2000	0.009	
83%	2500	0.014	
100%	3000	0.018	
117%	3500	0.023	
133%	4000	0.027	
150%	4500	0.031	
167%	5000	0.034	
183%	5500	0.039	
200%	6000	0.043	
217%	6500	0.046	
233%	7000	0.048	
250%	7500	0.052	
267%	8000	0.055	
283%	8500	0.058	
300%	9000	0.061	
317%	9500	0.063	
333%	10000	0.064	
233%	7000	0.065	
133%	4000	0.058	
0%	0	0.023	



Compression Load Test Result for PLT-21C

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Rice Lake

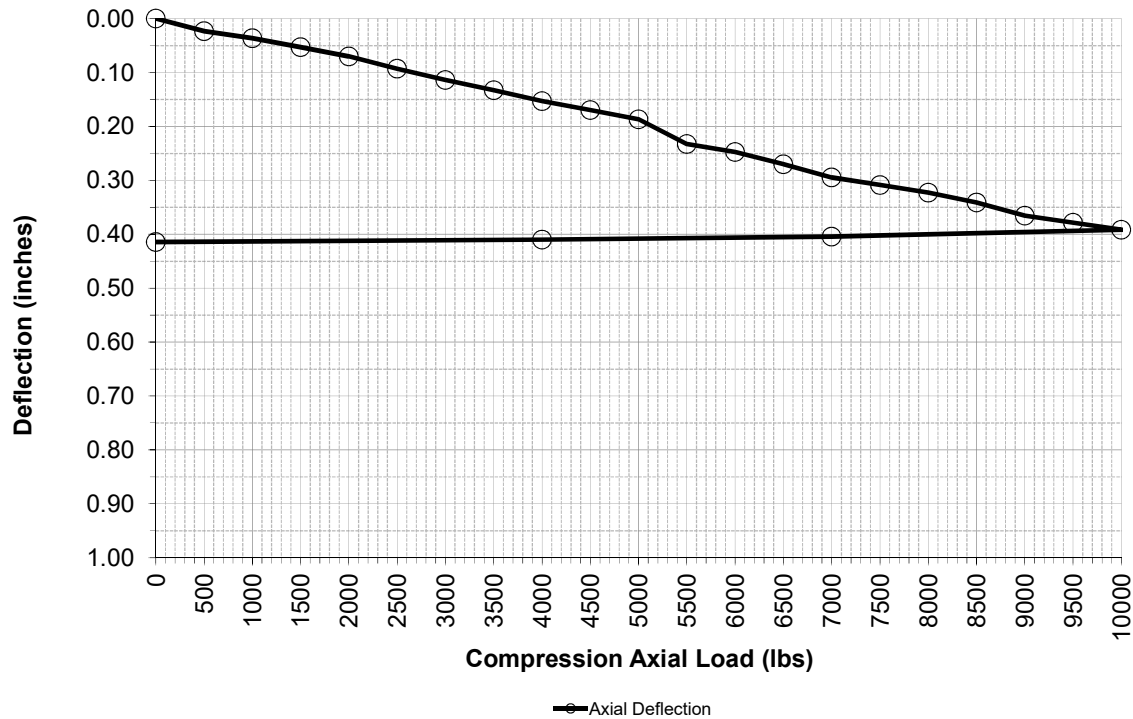
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

Pile Information

Pile ID: PLT-21C
Latitude: 43.11853
Longitude: -76.62308
Pile Type: W6x9
Pile Embedment Depth [in]: 84
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3000
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 112.9

Compression Test Results			
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
17%	500	0.023	
33%	1000	0.036	
50%	1500	0.053	
67%	2000	0.070	
83%	2500	0.093	
100%	3000	0.114	
117%	3500	0.133	
133%	4000	0.153	
150%	4500	0.170	
167%	5000	0.187	
183%	5500	0.233	
200%	6000	0.247	
217%	6500	0.270	
233%	7000	0.295	
250%	7500	0.309	
267%	8000	0.323	
283%	8500	0.341	
300%	9000	0.366	
317%	9500	0.379	
333%	10000	0.392	
233%	7000	0.404	
133%	4000	0.410	
0%	0	0.414	



Compression Load Test Result for PLT-23C

Project Information

Project Name: Garnet Solar
Project Location: Conquest, NY
Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
Height of Gauges [in]: 6
Load Cell: Rice Lake

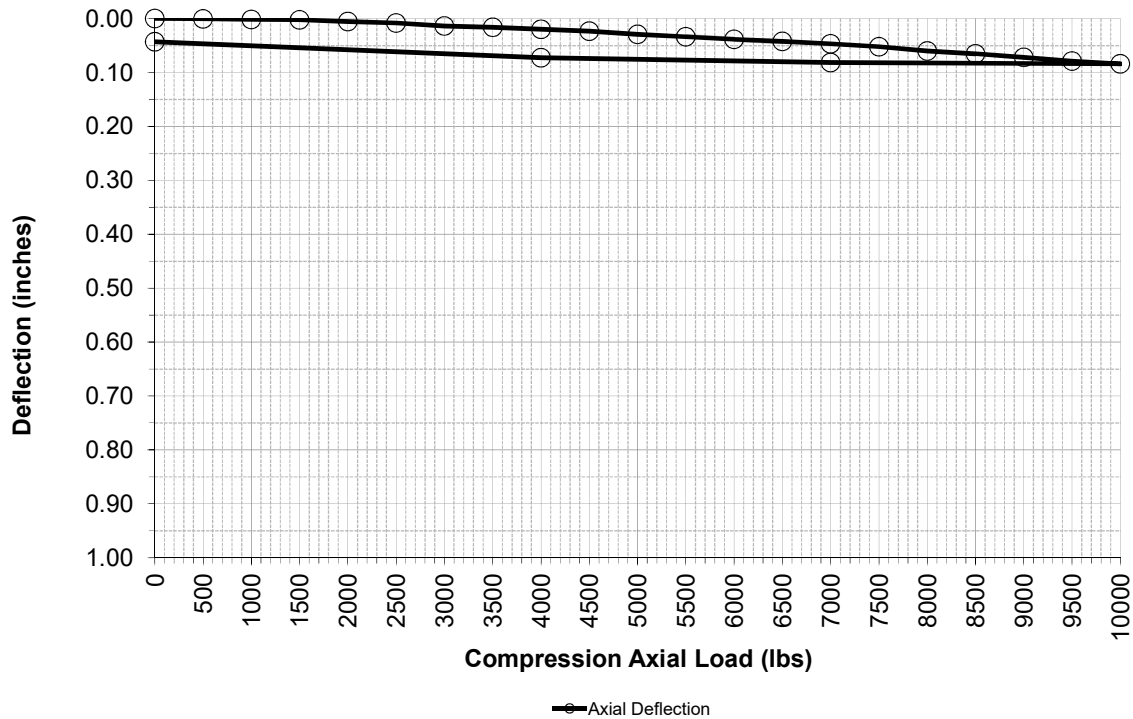
Test Date and Representative

Tested By Terracon Rep: T. Wooden
Date Tested: 3/23/2021

Pile Information

Pile ID: PLT-23C
Latitude: 43.15228
Longitude: -76.59869
Pile Type: W6x9
Pile Embedment Depth [in]: 78
Pile Diameter [in]: 5.9
Pile Stick-Up [in]: 60
Axial Design Load [lbs]: 3000
Pile Area [sq. in]: 2.68
Elastic Modulus [ksi]: 29,000
Drive Time [sec]: 240.1

Compression Test Results			
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
17%	500	0.001	
33%	1000	0.002	
50%	1500	0.002	
67%	2000	0.006	
83%	2500	0.008	
100%	3000	0.014	
117%	3500	0.016	
133%	4000	0.020	
150%	4500	0.023	
167%	5000	0.029	
183%	5500	0.034	
200%	6000	0.039	
217%	6500	0.042	
233%	7000	0.047	
250%	7500	0.052	
267%	8000	0.060	
283%	8500	0.065	
300%	9000	0.072	
317%	9500	0.079	
333%	10000	0.084	
233%	7000	0.082	
133%	4000	0.073	
0%	0	0.043	



Compression Load Test Result for PLT-24C

Project Information

Project Name: Garnet Solar
 Project Location: Conquest, NY
 Project Number: J5205196

Axial Load Test Set Up

Number of Gauges: 2
 Height of Gauges [in]: 6
 Load Cell: Rice Lake

Test Date and Representative

Tested By Terracon Rep: T. Wooden
 Date Tested: 3/22/2021

Pile Information

Pile ID: PLT-24C
 Latitude: 43.13999
 Longitude: -76.59974
 Pile Type: W6x9
 Pile Embedment Depth [in]: 70
 Pile Diameter [in]: 5.9
 Pile Stick-Up [in]: 60
 Axial Design Load [lbs]: 3000
 Pile Area [sq. in]: 2.68
 Elastic Modulus [ksi]: 29,000
 Drive Time [sec]: 240.2

Compression Test Results			
% of Design Load	Axial Load [lbs]	Deflection Δ (in.) Gauges #1 & #2	Comments
0%	0	0.000	
17%	500	0.003	
33%	1000	0.006	
50%	1500	0.009	
67%	2000	0.012	
83%	2500	0.013	
100%	3000	0.015	
117%	3500	0.016	
133%	4000	0.017	
150%	4500	0.018	
167%	5000	0.018	
183%	5500	0.018	
200%	6000	0.018	
217%	6500	0.018	
233%	7000	0.018	
250%	7500	0.019	
267%	8000	0.019	
283%	8500	0.020	
300%	9000	0.020	
317%	9500	0.022	
333%	10000	0.025	
233%	7000	0.023	
133%	4000	0.018	
0%	0	0.009	

