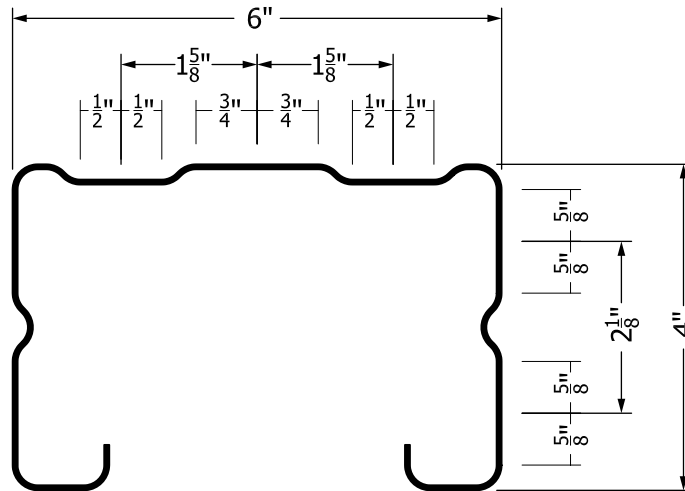


NSP

Nucor Solar Pile



- **ENGINEERED PRODUCT** designed to replace the W6x7 Grade 50 pile
- **BOLT PATTERNS**, identical to W6 patterns, available for different tracking assemblies have been tested in the lab and the field
- **LIGHT WEIGHT** piles, 4.3 lbs/ft, are ~40% lighter than their W6x7 counterpart
- **ECO-FRIENDLY** steel made from 90%+ recycled material and 40% weight savings reduces trucking by the same amount
- **GALVANIZED FINISHED** from G90 to G235 to meet UL2703

SECTION	Replaces	Bare Weight (W) lbs/ft kg/m	Area (A) in ² cm ²	Depth (d) in mm	Flange Width (b) in mm	Thickness (t) in mm	SECTION MODULUS			Moment of Inertia (I _x) in ⁴ cm ⁴	Warping Torsional Constant (C _w) in ⁴ cm ⁴	Torsion Constant (J) in ⁴ cm ⁴
							S _x (t) in ³ cm ³	S _x (b) in ³ cm ³	Z _x in ³ cm ³			
NSP C6x4.23	W6x7 Gr. 50	4.3 6.4	1.2603 8.1310	6.013 152.7	4.000 101.6	0.075 1.91	2.495 40.89	2.495 40.89	2.8829 47.24	7.501 312.2	30.929 1287.4	0.0024 0.0982

NSP

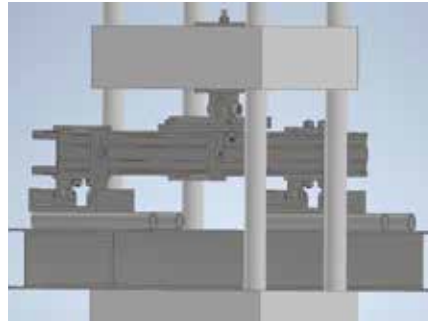
Nucor Solar Pile

Available Steel Grades

GALVANIZED STEEL SPECIFICATION			HOT DIPPED GALVANIZED COATING					
ASTM	YIELD		Designation	Triple_spot Test	Thickness	Designation	Triple_spot Test	Thickness
	ksi	Mpa		oz/ft ²	mils		g/m ²	um
A653 HSLAS Gr. 60	60	414	G90	0.9	0.76	Z275	275	18
A653 HSLAS Gr. 70	70	483	G210	2.1	1.77	Z600	600	39.3
A653 HSLAS Gr. 80	80	552	G235	2.35	1.98	Z700	700	45.8

Laboratory Testing

NSP Static load test at the University of New Mexico. Material thickness: 0.062".



Field Testing

NSP Tension & Lateral load test results at the Utah Solar Lab. Material thickness: 0.062".

Fig. T4: Nucor Solar Lab - Brigham City, UT - Axial Tension Static Load Test - Applied Axial Tension Load vs. Vertical Head Displacement - All Embedment Depths

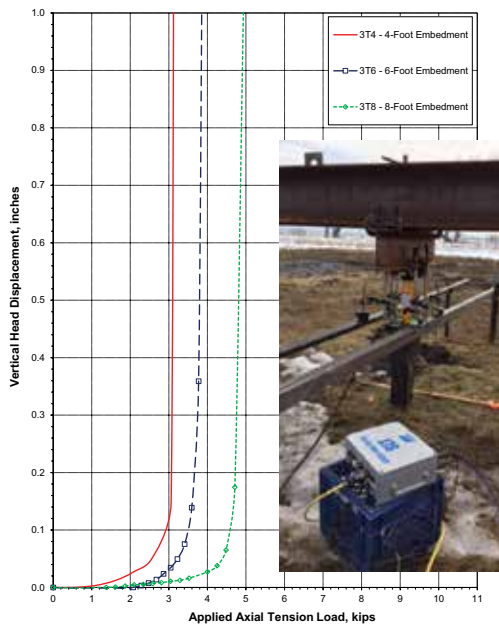


Fig. L3: Nucor Solar Lab - Brigham City, UT - Lateral Static Load Test - Applied Lateral Load vs. Lateral Pile Displacement - All Embedment Depths

