

TECHNICAL PROPERTIES

TRITON TIES 	G1	G2	G3	2023 AREMA Recommendation
Color	Matte Black	Matte Black	Matte Black	None
Weight, lbs	200	215	228	Typically: 185-320
Modulus of Elasticity, psi	200,000	275,000	330,000	Typically: 150,000-200,000
Modulus of Rupture, psi	5,000	7,000	8,500	> 2,500
Coefficient of Thermal Expansion, in/in/°F	7.495 E-05	5.356 E-05	1.801 E-05	< 7.5 E-05
Spike Pullout, lbf	2,700			> 1,900
Spike Lateral Restraint, lbf	2,400			None
Electrical Impedance, ohms	333,333			> 20,000
Rail Seat Compression, in, elastic, plastic	0.224, 0.046			< 0.25 , < 0.125
Rail Seat Positive Bending, 26,250lbf	PASSED			Engineer's discretion for applied load
Flexural Fatigue, 2M cycles	PASSED			None

Triton G1 tested at MxV Rail, Class 1 Labs, and PFS TECO. Triton G2, G3 tested at Class 1 labs, PFS TECO, ARDL, and ESI