



EVERTRAK™

EVERTRAK™ 7000 TECHNICAL DATA SHEET

WEIGHT	SPECIFIC GRAVITY	COLOR
220 lbs (Std 8'6" crosstie)	0.95	Dark Grey

STANDARD	SECTION: TEST	TEST	NOTE	AREMA DESIGN THRESHOLD	EVERTRAK 7000 AVERAGE	SOUTHERN MIXED HARDWOOD ⁽⁶⁾
AREMA	2.2.3: 1C	Modulus of Elasticity	1	> 250 kpsi	415 kpsi	950 kpsi
	2.2.3: 1C	Modulus of Rupture	1	> 2,500 psi	7,300 psi	6,810 psi
	2.3: 2	Permanent Rail / Plate Area Compression	2	< 0.125 in.	.032 in.	Not Published
		Elastic Rail / Plate Area Compression		< 0.250 in.	0.169 in.	Not Published
	2.4.1: 3A	Spike Pullout (Cut Spike)	2	> 1,900 lbf	2,100 lbf	5,000+ lbf
	2.4.1: 3A	Spike Pullout (Screw Spike)	2	> 5,000 lbf	10,800 lbf	
	2.7: 6	Tie Fastener Wear / Deterioration	3	< 0.2"	0.09"	Not Published
	2.8: 7	Fastener Electrical Impedance @ 60 Hz	4	> 20 kΩ	8.1 MΩ, Θ = -1°	Not Published
	2.9: 8	Single Tie Lateral Push	3	> 2,500 lbf	2,700 lbf	1,800 lbf
ASTM	D6341	Coefficient of Thermal Expansion	5	< 7.5 x 10 ⁻⁵ in./in./°F	3.8 x 10⁻⁵ in./in./°F	Not Published

Spike holes must be pre-drilled at a diameter of **0.375"** and depth **6.0"** for plates > 0.5" thick.

Screw holes must be pre-drilled at a diameter of **0.75"** and depth **6.5"** for plates > 0.5" thick.

Do not exceed (5) cut spike or (4) screw spike fasteners per rail seat.

Notes:

1. Tested at Evertrak, St. Louis MO, May - July 2018 (> 200 samples)
2. Tested at voestalpine Nortrak R&D Center, Birmingham, AL, May - June 2018
3. Tested at Transportation Technology Center, Inc, Pueblo, CO, August 2018
4. Tested at voestalpine Nortrak, Cheyenne, WY, July 2018
5. Tested at Vtec Laboratories, Bronx, NY, July 2018
6. Table 30-A-1, Mechanical Properties and Table 30-A-3, Rail Fastening Systems; AREMA Manual for Railway Engineering, 2019

Beyond Wood. Every tie, every time.