# EVERTRAK™ 7000
## TECHNICAL DATA SHEET

**FIELD PERFORMANCE**

| 200,000+ | ZERO | 1,000 MGT | AAR M-1003 |
|---|---|---|---|
| TIES IN TRACK (7) | WARRANTY CLAIMS (7) | ACCUMULATED AT MXV RAIL (8) | CERTIFIED QUALITY SYSTEM |

| 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) |
|---|---|---|---|---|---|---|
| | 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 |
| **AREMA** | 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 | < $7.5 \times 10^{-5}$ in./in./°F | **$3.8 \times 10^{-5}$ 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. (now MxV Rail), 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
7. In-service installations across North American railroads, cumulative as of July 2026; zero warranty claims to date.
8. Accelerated heavy-axle-load service testing at MxV Rail (formerly TTCI), Pueblo, CO; 1,000 MGT accumulated.