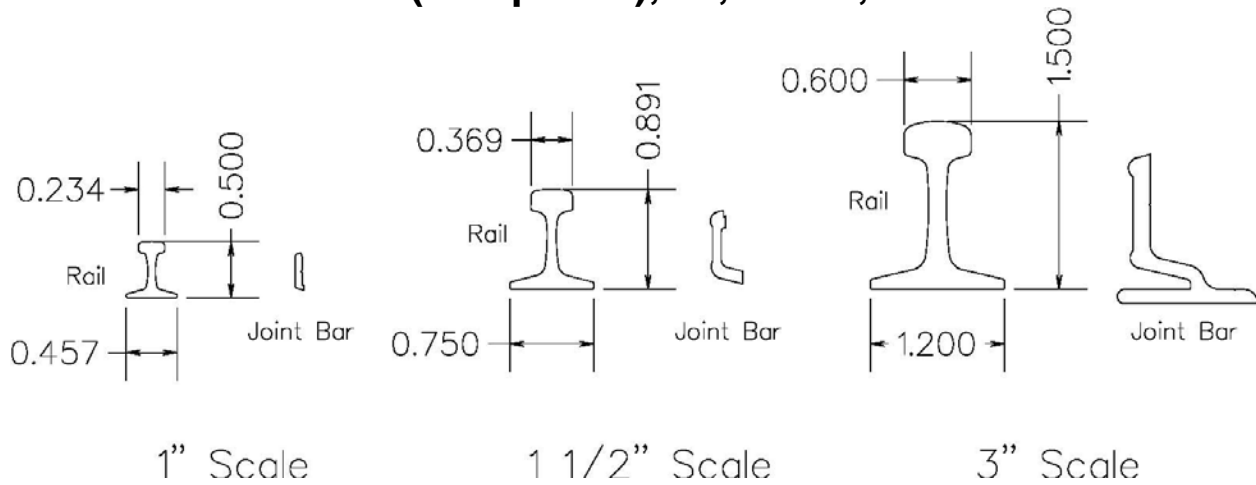


Rail and Joint Bars (fish plates), 1”, 1 1/2”, and 3” Scales



A Complete Rail System. All Designs Have Been Proven Through Many Years of Service on Various Types of Layouts

- Extruded Aluminum Rail - 6061 Alloy Heat Treated to T6 (hardest possible) Condition
- Each Rail is an Exact Scale Model of Prototype Rails
 - 1” Scale Rail is a Model of AREA* 100 Pound Prototype – 1/2” High
 - 1 1/2” Scale Rail is a Model of AREA* 132 Pound Prototype - The Heaviest Rail Currently Manufactured – 0.891” High
 - 3” Scale Rail is a Model of AREA* 100 Pound Prototype – 1 1/2” High
- Rail has True Crowned Head for Correct Tracking of Your Trucks - Minimizes Derailments - Maximizes Life - Tapered Web and Broad Base for Long Life
- Joint Bars Have True Prototype Cross Section - Mount Tight Against Head and Toe of Rail - Assure Vertical Alignment While Allowing Lengthwise Thermal Expansion (if oversize holes are drilled in rail)
- 1” and 1 1/2” Scale Joint Bars are Cut to Length and Punched With Four Holes* (#4 for 1” scale, #10 for 1 1/2” scale) - Available With Hex Head Bolts and Nylon Insert Self-Locking Nuts in Sets or In Bulk Without Hardware - 3” Scale Are Without Holes (no standards)

Stock Number	Description	Cost	Weight	Packing Handling
10R1A	1” Scale Rail, 106” Lengths	\$5.50	1	\$10.00
10R2A	1” Scale Joint Bar Set (2 bars, 4 bolts, 4 nuts)	\$1.10	0.1	
10R2B	1” Scale Joint Bars, Package of 100	\$51.00	2	
15R1A	1 1/2” Scale Rail, 106” Lengths	\$9.00	2	\$10.00
15R1B	1 1/2” Scale Rail, 10’ Lengths	\$9.50	See Below	\$10.00
15R1C	1 1/2” Scale Rail, Made to Order (4000 feet minimum), State Desired Cut Length (maximum 50’), Special Order Requires Added Time	\$0.75 per foot	See Below	\$20.00

* American Railway Engineering Association (AREA™) is the official trackwork standards group of the American Association of Railroads

Section 11 – Rail and Track Components – Tools

15R2A	1 1/2" Scale Joint Bar Set (2 bars, 4 bolts, 4 nuts)	\$1.30	0.1	
15R2B	1 1/2" Scale Joint Bars, Package of 100	\$59.00	3	
30R1A	3" Scale Rail, 12' Lengths	\$23.00	See Below	\$10.00
30R1B	3" Scale Rail, Bulk Order (4000 feet minimum), State Desired Cut Length (maximum 50')	\$1.75 per foot	See Below	
30R2A	3" Scale Joint Bar Set (2 bars, 4 bolts, 4 nuts)	\$4.60	1	
30R2B	3" Scale Joint Bars, Package of 100	\$200.00	17	

Rail in 106" Lengths Shipped UPS - Longer Rail Lengths Sent by Freight
 For Rail Only Packing/Handling is Once Per Order
 Rail Prices are Per Length Except Bulk is Per Foot

Switch (turnout) Frogs, 1" Scale

Sand Cast Aluminum Frogs for Switch Construction.

- Use With Points Constructed of 1/2" Steel Angle
- Complete Instructions Included



Stock Number	Description	Cost	Weight	Packing Handling
10R3D	1" Scale Frog, For Number 4 Switch	\$20.00	2	
10R3E	1" Scale Frog, For Number 6 Switch	\$23.00	2	
10R3F	1" Scale Frog, For Number 8 Switch	\$26.00	3	
10R3G	1" Scale Frog, For Number 10 Switch	\$29.00	3	

Prices are Each

Switch (turnout) Points and Frogs, 1 1/2" and 3" Scales



Cast Aluminum Point Pairs and Frogs for Switch Construction.

- Allow Construction of Switches Using Straight Points With Rail Type Frogs
- Results in a Number 8 Switch
- Complete Instructions Included

Stock Number	Description	Cost	Weight	Packing Handling
15R3A	1 1/2" Scale Frog	\$30.00	2	
15R4A	1 1/2" Scale Point Set	\$70.00	3	
30R3A	3" Scale Frog	\$55.00	5	
30R4A	3" Scale Point Set	\$110.00	8	

Switch Stand, All Scales

Provides a Commonly Seen Design of Switch Stand.

- Kit of Unmachined Aluminum Sand Castings
- Includes Center Rod, Hardware, Drawings and Complete Instructions



Operating Rod



Connects Switch Stand to Points

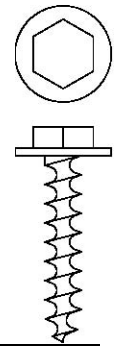
- Complete Spring Loaded (both directions) Rod and Pivots
- Allows Up To 32" From Center of Stand to Center of Track

Stock Number	Description	Cost	Weight	Packing Handling
99R8A	Switch Stand Kit	\$85.00	7	
99R8B	Operating Rod and Hardware	\$30.00	5	

Track Screws, All Scales

The Use of Screws to Hold Rail Down has Replaced Spikes in Most Model Railways. Screws Provide a More Secure Fastener While Allowing Removal and Adjustment.

- Standard Screws Provide a Head Diameter of 0.33” Under the Washer Portion of The Head
- Large Head Screws Are Specially Made For Us and Provide a Larger 0.50” Diameter Under The Head
- Both are #10 by 1” Self Threading Shank, Steel, Zinc Plated



Stock Number	Description	Cost	Weight	Packing Handling
99R9A	Track Screw, Standard Head, Package of 100	\$3.10	1	
99R9B	Track Screw, Standard Head, Package of 1000	\$23.00	8	
99R9C	Track Screw, Large Head, Package of 100	\$5.20	1	
99R9D	Track Screw, Large Head, Package of 1000	\$49.00	8	

Track Work Tools, All Scales



Rail Drilling Jig - Furnished Attached to the Jaws of Locking Style Pliers to Allow Secure Clamping to Rail. Design Provides a Flat Back for Use on a Drill Press Table and an Open Bottom to Allow Field Use on Rail Already Secured to Ties.

- Furnished With Replaceable Hardened Steel Bushings for Drill
- Standard With Oversize Hole (3/16” for 1” scale, 5/16” for 1 1/2” scale and 1/2” for 3” scale) to Allow Thermal Expansion of Rail - Available With Other Sizes (specify on order)

Rail Spacer Gage - Hold Rail At the Proper Spacing While It is Screwed Down. Our Design Holds Both the Head and Foot of the Rail. Made from Aluminum, Three Widths, Engraved With Gauge Dimension, and Color Anodized (red, blue, purple) to Identify

Screw Locating Punch - Fits Over Rail and Makes Two Indentions in Tie at Proper Screw Locations when Hit With A Hammer, Hardened Steel, Vinyl Handle

Stock Number	Description	Cost	Weight	Packing Handling
10R5A	1” Scale Gauge Bar, Standard 4 3/4” Gauge	\$20.00	1	
10R5B	1” Scale Gauge Bar, Wide 4 51/64” Gauge	\$20.00	1	
10R5C	1” Scale Gauge Bar, Extra 4 27/32” Gauge	\$20.00	1	
15R5A	1 1/2” Scale Gauge Bar, Standard 7 1/4” Gauge	\$20.00	2	
15R5B	1 1/2” Scale Gauge Bar, Wide 7 5/16” Gauge	\$20.00	2	
15R5C	1 1/2” Scale Gauge Bar, Extra 7 3/8” Gauge	\$20.00	2	
15R5D	1 1/2” Scale Gauge Bar, Standard 7 1/2” Gauge	\$20.00	2	
15R5E	1 1/2” Scale Gauge Bar, Wide 7 9/16” Gauge	\$20.00	2	
15R5F	1 1/2” Scale Gauge Bar, Extra 7 5/8” Gauge	\$20.00	2	
10R6A	1” Scale Rail Drilling Jig	\$75.00	3	
15R6A	1 1/2” Scale Rail Drilling Jig	\$75.00	3	
10R7A	1” Scale Screw Locating Punch	\$10.00	1	
15R7A	1 1/2” Scale Screw Locating Punch	\$10.00	1	