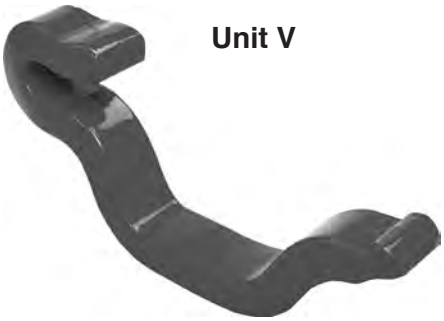
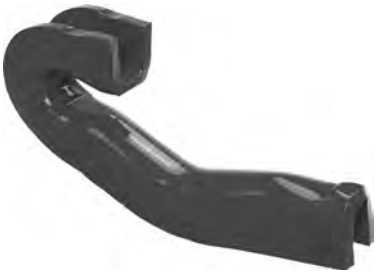
RAIL ANCHORS, TIE PLATES

Improved Fair

Unit V



Channeloc

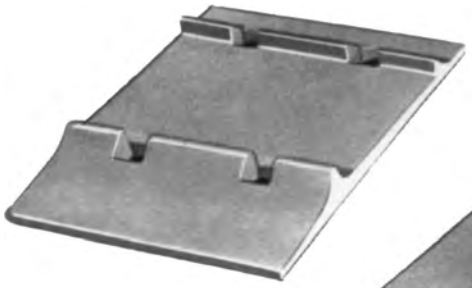


Rail anchors are manufactured in one-piece construction from spring steel or equal, heat-treated and designed to eliminate creepage of track. They provide a large bearing surface against both rail base and tie, avoiding undo cutting and wear, thus prolonging the life of wood ties. All anchors shown above are “drive-on” type anchors which are driven on using a standard spike maul.

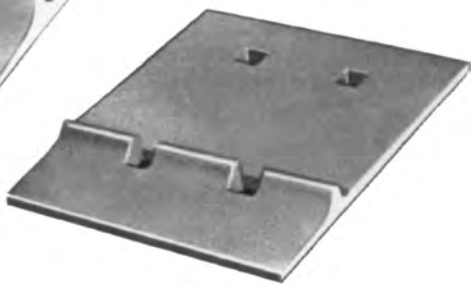
The use of single or double shoulder **tie plates** makes a more stable track and greatly lengthens the life of wood ties. Punched and sheared from hot-rolled steel sections, tie plates provide proper cant, uniform bearing surface for the rail, and better load distribution to the ties. They hold the rail to gage, providing more uniform wear to rail head, and protect against undue wear to ties. Tie plates are designed with a long end or field end to be located outside of the rails. In the case of single shoulder tie plates, the shoulder is placed on the field end of the plate. The gage end or short end of the plate is located inside of the rails.

When ordering, identification of the rail section or the width of the rail base should be specified. Top quality relay tie plates (hand-sorted and palletized) are readily available and offer a substantial savings when compared to the cost of new tie plates. Tie plates come in a variety of sizes and punching patterns. These patterns may include both “line holes” and “hold-down holes.” The plates shown above have four line holes punched to line up with the edge of the rail base. Many tie plates also feature hold-down (or “anchor”) holes that are between the line holes and the edges of the tie plate.

Double Shoulder



Single Shoulder



Standard Plate Sizes

Rail Base Width	AREMA Plan	SS DS	Plate Weight*	Plate Length
4-7/16 to 5-1/8	1	SS	11.63	10
5-1/8 to 5-1/2	2	SS	12.93	11
5-3/8	3	DS	15.86	12
5-1/2	4	DS	13.45	11
	5	DS	16.25	12
	7	DS	19.60	13
	8	DS	22.90	14
6	9	DS	14.94	12
	10	DS	17.87	13
	12	DS	21.47	14
	13	DS	23.32	14-3/4
	UP/CN	DS	27.67	16

*weight based on 8-hole 7-3/4” wide plate, except plan 1 and 2 UP/CN 16” plate is 6-hole

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