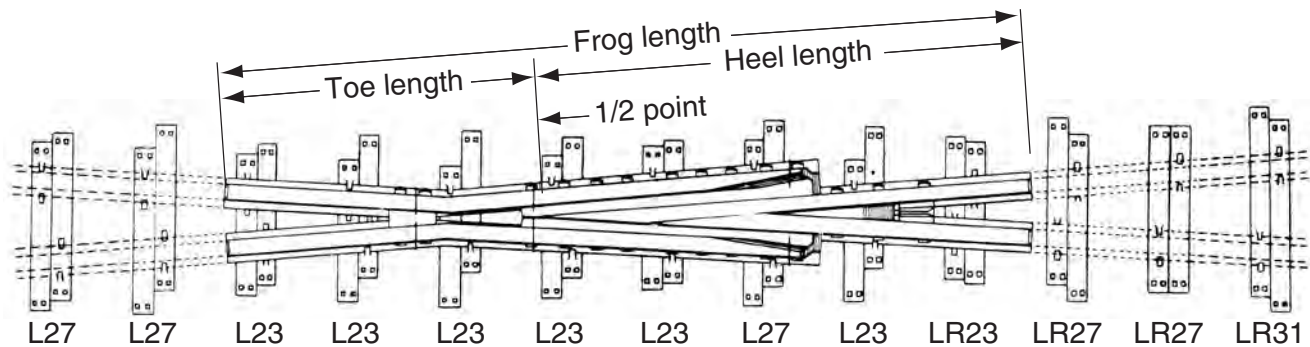




RIGID BOLTED & MANGANESE FLAT-TOP FROGS



This Riemsarail **Rigid Bolted Frog** is built in full compliance with AREMA standards. It features a strong construction that includes rolled steel filler, a steel rail heel riser, cast iron toe and heel blocks, and heat-treated bolts installed with a drive fit in precision-drilled holes. The frog comes equipped with extended points and wing rails beveled at 45 degrees. It is best suited for demanding yard operations and moderate-speed turnouts. (The number of hook twin tie plates varies depending on the frog number; the quantities listed are for reference only.)



A Riemsarail **Solid Manganese Steel Flat-Top Frog** is a single-piece casting made entirely of manganese steel. This type serves as an alternative to the railbound manganese-steel frog in applications involving slow-moving, heavy mainline traffic.

Standard AREMA Frog Lengths Rails 112 lb. or Heavier

Frog No.	Total Length	Toe Length	Heel Length	Toe Spread	Heel Spread
4	5'11"	2'1"	3'10"	5-11/16"	12"
5	6'5"	2'1"	4'4"	4-1/2"	10-7/8"
6	7'4"	2'11"	4'5"	5-5/16"	9-5/16"
7	8'1-1/2"	2'11"	5'2-1/2"	4-1/2"	9-13/32"
8	8'11"	2'11"	6'0"	3-7/8"	9-1/2"
9	9'9"	2'11"	6'10"	3-3/8"	9-19/32"
10	11'4-1/2"	3'9"	7'7-1/2"	4"	9-5/8"
11	12'2-1/2"	3'9"	8'5-1/2"	3-9/16"	9-23/32"
12	13'0"	3'9"	9'3"	3-1/4"	9-3/4"