



SOLID MANGANESE SELF-GUARDED FROGS



A **Solid Manganese Steel Self-Guarded Frog** is built with guides or flanges positioned above its running surface. These flanges engage with the tread rims of the wheels, effectively directing the wheel flanges safely past the frog's point. As a result, the self-guarded frog eliminates the need for guard rails. This kind of frog is commonly used on yard tracks and mainline tracks where speeds do not go beyond 30 mph.

Standard AREMA Frog Lengths

Rails 112 lb. or Heavier

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

Quantities of Hook Twin Tie Plates

5-1/2" Base Rail									
Frog	L23	L27	H23	H27	H31	H35	LR23	LR27	LR31
5	4	2	4	2	0	2	0	2	0
6	4	2	4	2	0	2	0	2	2
7	4	4	2	4	0	2	2	2	2
8	6	4	4	4	2	0	0	4	2
9	6	4	4	6	0	0	2	4	2
10	6	4	6	6	2	0	2	4	2
11	6	6	4	8	0	2	0	6	0

6" Base Rail									
Frog	L23	L27	H23	H27	H31	H35	LR23	LR27	LR31
5	4	2	4	2	0	2	0	2	0
6	4	2	4	2	2	2	0	2	2
7	4	2	4	4	2	2	0	2	2
8	4	4	4	4	2	2	0	4	2
9	4	4	6	6	2	0	0	4	2
10	6	4	6	6	2	0	2	4	2
11	6	6	4	8	0	2	0	6	0