



SOLID MANGANESE SELF-GUARDED FROGS



A **Solid Manganese Steel Self-Guarded Frog** is constructed with guides or flanges above its running surface. These flanges contact the tread rims of the wheels and safely guide the wheel flanges past the point of the frog. Thus, the self-guarded frog does not require the use of guard rails. This type of frog is used for yard tracks and main line tracks where the speed does not exceed 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