



AMERICAN MINING CONGRESS TURNOUT DATA

Turnout Data for 30-in. Gage (continued) Heavy Rail – 70-lb. to 80-lb. ASCE rail, inclusive

American Mining Congress Standards

No.	Angle	Type	Frog			Switch					Actual Lead	Closure Rails			
			Rail Weight	Point	Actual Toe Length	Length	Angle	Point	Heel Spread	Vertex Distance		Curved			Straight
												Radius	MO	Length	Length
3	18°55'29"	Cast RBF	70 to 80	1/2"	9-1/2"	7'6"	3°35'00"	3/8"	6"	6"	16'7"	30'0"	3-5/8"	8' 6-3/4"	8'3-1/2"
			70 to 80	1/2"	31"	7'6"	3°35'00"	3/8"	6"	6"	16'7"	30'0"	2-5/16"	6'9-1/4"	6'6"
4	14°15'00"	Cast RBF	70 to 80	1/2"	12-1/2"	7'6"	3°35'00"	3/8"	6"	6"	20'0"	55'0"	3-11/16"	11'7-15/16"	11'5-1/2"
			70 to 80	1/2"	40"	7'6"	3°35'00"	3/8"	6"	6"	20'0"	55'0"	2-3/8"	9'4-7/16"	9'2"
5	11°25'16"	Cast RBF	70 to 80	1/2"	15-11/16"	10'0"	2°41'12"	3/8"	6"	8"	25'0"	87'0"	3-5/16"	13'10-1/4"	13'8-5/16"
			70 to 80	1/2"	42-1/2"	10'0"	2°41'12"	3/8"	6"	8"	25'0"	87'0"	2-5/16"	11'7-9/16"	11'5-1/2"
6	9°31'38"	Cast RBF	70 to 80	1/2"	18-13/16"	10'0"	2°41'12"	3/8"	6"	8"	27'6"	130'0"	3"	16'0-7/8"	15'11-3/16"
			70 to 80	1/2"	45"	10'0"	2°41'12"	3/8"	6"	8"	27'6"	130'0"	2-1/4"	13'10-3/4"	13'9"

Note: W.P.F. denotes "Welded Plate Frog."

Turnout Data for 36-in. Gage Light Rail – 20-lb to 60-lb ASCE rail, inclusive

American Mining Congress Standards

No.	Angle	Type	Frog			Switch					Actual Lead	Closure Rails			
			Rail Weight	Point	Actual Toe Length	Length	Angle	Point	Heel Spread	Vertex Distance		Curved			Straight
												Radius	MO	Length	Length
2	28°04'21"	Cast WPF WPF	20 to 60	1/4"	6-11/16"	3'6"	6°19'20"	3/8"	5"	4"	11'0"	17'0"	4-7/8"	7'5-1/2"	6'11-1/4"
			20 to 30	1/4"	17"	3'6"	6°19'20"	3/8"	5"	4"	11'0"	17'0"	3-7/8"	6'7-1/4"	6'1"
			40 to 60	3/8"	20"	3'6"	6°19'20"	3/8"	5"	4"	11'0"	17'0"	3-9/16"	6'4-1/4"	5'10"
2-1/2	22°37'12"	Cast WPF WPF	20 to 40	1/4"	8-1/4"	5'0"	4°25'15"	3/8"	5"	5"	15'0"	28'0"	5-1/16"	9'8-1/2"	9'3-3/4"
			20 to 30	1/4"	16-1/2"	5'0"	4°25'15"	3/8"	5"	5"	15'0"	28'0"	4-3/8"	9'0-1/4"	8'7-1/2"
			40 to 60	3/8"	20"	5'0"	4°25'15"	3/8"	5"	5"	15'0"	28'0"	4-1/16"	8'8-3/4"	8'4"
3	18°55'29"	Cast WPF WPF	20 to 60	1/4"	8-3/8"	5'0"	4°25'15"	3/8"	5"	5"	16'9"	42'0"	4-5/8"	11'4-3/4"	11'0-3/4"
			20 to 30	1/4"	16-1/2"	5'0"	4°25'15"	3/8"	5"	5"	16'9"	42'0"	4-1/8"	10'8-1/2"	10'4-1/2"
			40 to 60	3/8"	24"	5'0"	4°25'15"	3/8"	5"	5"	16'9"	42'0"	3-5/8"	10'1"	9'9"
4	14°15'00"	Cast WPF	20 to 60	1/4"	11-1/16"	5'0"	4°25'15"	3/8"	5"	5"	20'0"	78'0"	3-15/16"	14'4"	14'1"
			40 to 60	3/8"	27"	5'0"	4°25'15"	3/8"	5"	5"	20'0"	78'0"	3-1/4"	13'0-1/4"	12'9"
5	11°25'16"	Cast WPF	20 to 60	1/4"	13-13/16"	7'6"	2°56'44"	3/8"	5"	8"	27'0"	120'0"	4-5/16"	18'6-3/4"	18'4-1/4"
			40 to 60	3/8"	30"	7'6"	2°56'44"	3/8"	5"	8"	27'0"	120'0"	3-3/4"	17'2-1/2"	17'0"
6	9°31'38"	Cast WPF	20 to 60	1/4"	16-9/16"	7'6"	2°56'44"	3/8"	5"	8"	30'2"	179'0"	3-7/8"	21'5-1/2"	21'3-1/2"
			40 to 60	3/8"	36"	7'6"	2°56'44"	3/8"	5"	8"	30'2"	179'0"	3-5/16"	19'10"	19'8"
6	9°31'38"	Cast WPF	20 to 60	1/4"	16-9/16"	10'0"	2°12'32"	3/8"	5"	10"	34'0"	171'0"	4-9/16"	22'9-1/2"	22'7-1/2"
			40 to 60	3/8"	36"	10'0"	2°12'32"	3/8"	5"	10"	34'0"	171'0"	3-15/16"	21'2"	21'0"

Note: WPF denotes "Welded Plate Frog."