



AMERICAN MINING CONGRESS TURNOUT DATA

Turnout Data for 56-1/2-in. Gage (continued) Heavy Rail – 70-lb to 100-lb rail, inclusive

American Mining Congress Standards

Frog						Switch					Actual Lead	Closure Rails			
No.	Angle	Type	Rail Weight	Point	Actual Toe Length	Length	Angle	Point	Heel Spread	Vertex Distance		Curved			Straight
												Radius	MO	Length	Length
3	18°55'29"	Cast	70 to 80	1/2"	9-1/2"	7'6"	3°35'00"	3/8"	6"	6"	27'8"	72'0"	8-1/4"	19'10-3/4"	19'4-1/2"
		Cast	85 to 100	1/2"	11"	7'6"	3°44'35"	3/8"	6-1/4"	6"	27'4-15/16"	70'6-1/16"	8-1/16"	19'6-3/16"	18'11-15/16"
		RBF	70 to 80	1/2"	31"	7'6"	3°35'00"	3/8"	6"	6"	27'8"	72'0"	6-13/16"	18'1-1/4"	17'7"
		RBF	85 to 100	1/2"	31"	7'6"	3°44'35"	3/8"	6-1/4"	6"	27'4-15/16"	70'6-1/16"	6-3/4"	17'10-3/16"	17'3-15/16"
4	14°15'00"	Cast	70 to 80	1/2"	12-9/16"	7'6"	3°35'00"	3/8"	6"	6"	33'4"	132'0"	7-3/16"	25'2-5/16"	24'9-1/2"
		Cast	85 to 100	1/2"	14-5/8"	7'6"	3°44'35"	3/8"	6-1/4"	6"	32'11-15/16"	130'0-5/8"	7"	24'8-3/16"	24'3-5/16"
		RBF	70 to 80	1/2"	40"	7'6"	3°35'00"	3/8"	6"	6"	33'4"	132'0"	5-15/16"	22'10-13/16"	22'6"
		RBF	75 to 100	1/2"	40"	7'6"	3°44'35"	3/8"	6-1/4"	6"	32'11-15/16"	130'0-5/8"	5-7/8"	22'6-13/16"	22'1-15/16"
5	11°25'16"	Cast	70 to 80	1/2"	15-11/16"	10'0"	2°41'12"	3/8"	6"	8"	42'10"	205'0"	7-7/16"	31'10-1/16"	31'6-5/16"
		Cast	85 to 100	1/2"	18-3/16"	10'0"	2°48'23"	3/8"	6-1/4"	8"	42'5-7/16"	202'4-1/8"	7-1/4"	31'3-1/16"	30'11-1/4"
		RBF	70 to 80	1/2"	42-1/2"	10'0"	2°41'12"	3/8"	6"	8"	42'10"	205'0"	6-7/16"	29'7-1/4"	29'3-1/2"
		RBF	85 to 100	1/2"	42-1/2"	10'0"	2°48'23"	3/8"	6-1/4"	8"	42'5-7/16"	202'4-1/8"	6-3/8"	29'2-3/4"	28'10-15/16"
6	9°31'38"	Cast	70 to 80	1/2"	18-13/16"	10'0"	2°41'12"	3/8"	6"	8"	48'2"	304'0"	6-3/4"	36'10-7/16"	36'7-3/16"
		Cast	85 to 100	1/2"	21-13/16"	10'0"	2°48'23"	3/8"	6-1/4"	8"	47'8-3/16"	301'0-1/2"	6-1/2"	36'1-3/4"	35'10-3/8"
		RBF	70 to 80	1/2"	45"	10'0"	2°41'12"	3/8"	6"	8"	48'2"	304'0"	5-15/16"	34'8-1/4"	34'5"
		RBF	85 to 100	1/2"	45"	10'0"	2°48'23"	3/8"	6-1/4"	8"	47'8-3/16"	301'0-1/2"	5-13/16"	34'2-9/16"	33'11-3/16"
7	8°10'16"	Cast	70 to 80	1/2"	21-15/16"	10'0"	2°41'12"	3/8"	6"	8"	53'4-7/16"	427'7-1/4"	6-1/8"	41'9-3/16"	41'6-1/2"
		Cast	85 to 100	1/2"	25-7/16"	10'0"	2°48'23"	3/8"	6-1/4"	8"	52'6-11/16"	425'5-11/16"	5-7/8"	40'8-1/16"	40'5-1/4"
		RBF	70 to 80	1/2"	56-1/2"	10'0"	2°41'12"	3/8"	6"	8"	53'4-7/16"	427'7-1/4"	5-9/16"	38'10-5/8"	38'7-15/16"
		RBF	85 to 100	1/2"	56-1/2"	10'0"	2°48'23"	3/8"	6-1/4"	8"	52'6-11/16"	425'5-11/16"	5-1/8"	38'1"	37'10-3/16"
8	7°9'10"	Cast	70 to 80	1/2"	25-1/16"	15'0"	1°47'27"	3/8"	6"	12"	67'7"	533'0-3/4"	7-1/4"	50'8-5/8"	50'5-15/16"
		Cast	85 to 100	1/2"	29-1/16"	15'0"	1°52'14"	3/8"	6-1/4"	12"	66'8-3/16"	527'4-7/8"	7"	49'5-1/2"	49'3-1/8"
		RBF	70 to 80	1/2"	61"	15'0"	1°47'27"	3/8"	6"	12"	67'7"	533'0-3/4"	6-7/16"	47'8-11/16"	47'6"
		RBF	85 to 100	1/2"	61"	15'0"	1°52'14"	3/8"	6-1/4"	12"	66'8-3/16"	527'4-7/8"	6-1/4"	46'9-9/16"	46'7-3/16"

Note: RBF denotes "Rigid Bolted Frog."

Data For Turnouts With Long Switches

Light Rail – 20-lb to 60-lb ASCE rail, inclusive. With Cast Frogs

American Mining Congress Standards

Frog No.	Gage	Switch		Actual Lead	Closure Rails			
		Length	Vertex Distance		Curved			Straight
					Radius	MO	Length	Length
3	36"	6'0"	6"	18'0"	41'0"	4-15/16"	11'7-1/2"	11'3-1/2"
	42"	6'0"	6"	20'6"	51'0"	5-15/16"	14'2-3/4"	13'9-1/2"
	44"	6'0"	6"	21'4"	54'0"	6-1/4"	15'0-1/4"	14'7-1/2"
	48"	6'0"	6"	23'0"	60'0"	7"	16'8-3/4"	16'3-1/2"
	56-1/2"	6'0"	6"	26'6"	74'0"	8-3/8"	20'3-3/4"	19'9-1/2"
3	36"	7'6"	8"	19'10"	40'0"	5-3/8"	11'11-1/4"	11'7-1/2"
	42"	7'6"	8"	22'5"	50'0"	6-7/16"	14'7"	14'2-1/2"
	44"	7'6"	8"	23'4"	53'0"	6-13/16"	15'6-1/4"	15'1-1/2"
	48"	7'6"	8"	25'0"	59'0"	7-9/16"	17'2-3/4"	16'9-1/2"
	56-1/2"	7'6"	8"	28'8"	73'0"	9"	20'11-1/2"	20'5-1/2"
4	36"	6'0"	6"	21'5"	76'0"	4-5/16"	14'8-3/4"	14'5-3/4"
	42"	6'0"	6"	24'7"	94'0"	5-1/8"	17'11-1/4"	17'7-3/4"
	44"	6'0"	6"	25'8"	99'0"	5-1/2"	19'0-1/2"	18'8-3/4"
	48"	6'0"	6"	27'10"	111'0"	6-1/8"	21'2-3/4"	20'10-3/4"
	56-1/2"	6'0"	6"	32'3"	136'0"	7-5/16"	25'8-1/2"	25'3-3/4"
4	36"	7'6"	8"	23'7"	74'0"	4-13/16"	15'4-1/2"	15'1-3/4"
	42"	7'6"	8"	26'10"	91'0"	5-3/4"	18'8-1/4"	18'4-3/4"
	44"	7'6"	8"	28'0"	97'0"	6-1/8"	19'10-1/4"	19'6-3/4"
	48"	7'6"	8"	30'2"	108'0"	6-3/4"	22'0-1/2"	21'8-3/4"
	56-1/2"	7'6"	8"	34'10"	132'0"	8-3/16"	26'9-1/2"	26'4-3/4"
5	36"	10'0"	10"	30'5"	116'0"	4-7/8"	19'5-1/4"	19'3"
	42"	10'0"	10"	34'8"	143'0"	5-15/16"	23'8-3/4"	23'6"
	44"	10'0"	10"	36'0"	151'0"	6-1/4"	25'0-3/4"	24'10"
	48"	10'0"	10"	38'10"	169'0"	6-15/16"	27'11"	27'8"
	56-1/2"	10'0"	10"	44'9"	206'0"	8-3/8"	33'10-3/4"	33'7"