

AMERICAN MINING CONGRESS TURNOUT DATA



Turnout Data for 44-in. Gage (continued) Heavy Rail – 70-lb to 100-lb rail, inclusive

American Mining Congress Standards

| No. | Angle | Frog | | | | | Switch | | | | | Actual Lead | Closure Rails | | | |
|-----|-----------|------|-------------|-------|-------------------|--------|----------|-------|-------------|-----------------|------------|--------------|---------------|-------------|-------------|--|
| | | 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" | 22'6" | 52'0" | 6-1/8" | 14'7-1/4" | 14'2-1/2" | |
| | | Cast | 85 to 100 | 1/2" | 11" | 7'6" | 3°44'35" | 3/8" | 6-1/4" | 6" | 22'2-9/16" | 50'5-5/16" | 5-15/16" | 14'2-3/8" | 13'9-9/16" | |
| | | RBF | 70 to 80 | 1/2" | 31" | 7'6" | 3°35'00" | 3/8" | 6" | 6" | 22'6" | 52'0" | 4-3/4" | 12'10" | 12'5" | |
| | | RBF | 85 to 100 | 1/2" | 31" | 7'6" | 3°44'35" | 3/8" | 6-1/4" | 6" | 22'2-9/16" | 50'5-5/16" | 4-11/16" | 12'6-3/8" | 12'1-9/16" | |
| 4 | 14°15'00" | Cast | 70 to 80 | 1/2" | 12-9/16" | 7'6" | 3°35'00" | 3/8" | 6" | 6" | 26'10" | 96'0" | 5-3/8" | 18'7" | 18'3-1/2" | |
| | | Cast | 85 to 100 | 1/2" | 14-5/8" | 7'6" | 3°44'35" | 3/8" | 6-1/4" | 6" | 26'5" | 93'8-1/16" | 5-3/16" | 18'0-1/8" | 17'8-3/8" | |
| | | RBF | 70 to 80 | 1/2" | 40" | 7'6" | 3°35'00" | 3/8" | 6" | 6" | 26'10" | 96'0" | 4-3/16" | 16'3-3/4" | 16'0" | |
| | | RBF | 85 to 100 | 1/2" | 40" | 7'6" | 3°44'35" | 3/8" | 6-1/4" | 6" | 26'5" | 93'8-1/16" | 4-1/16" | 15'10-3/4" | 15'7" | |
| 5 | 11°25'16" | Cast | 70 to 80 | 1/2" | 15-11/16" | 10'0" | 2°41'12" | 3/8" | 6" | 8" | 34'7" | 149'0" | 5-9/16" | 23'6" | 23'3-1/4" | |
| | | Cast | 85 to 100 | 1/2" | 18-3/16" | 10'0" | 2°48'23" | 3/8" | 6-1/4" | 8" | 34'1-1/4" | 146'4-1/16" | 5-5/16" | 22'10-1/16" | 22'7-1/16" | |
| | | RBF | 70 to 80 | 1/2" | 42-1/2" | 10'0" | 2°41'12" | 3/8" | 6" | 8" | 34'7" | 149'0" | 4-9/16" | 21'3-1/2" | 21'0-1/2" | |
| | | RBF | 85 to 100 | 1/2" | 42-1/2" | 10'0" | 2°48'23" | 3/8" | 6-1/4" | 8" | 34'1-1/4" | 146'4-1/16" | 4-7/16" | 20'9-3/4" | 20'6-3/4" | |
| 6 | 9°31'38" | Cast | 70 to 80 | 1/2" | 18-13/16" | 10'0" | 2°41'12" | 3/8" | 6" | 8" | 38'8" | 222'0" | 5-1/16" | 27'3-1/2" | 27'1" | |
| | | Cast | 85 to 100 | 1/2" | 21-13/16" | 10'0" | 2°48'23" | 3/8" | 6-1/4" | 8" | 38'0-1/2" | 218'3-5/8" | 4-13/16" | 26'5-5/16" | 26'2-11/16" | |
| | | RBF | 70 to 80 | 1/2" | 45" | 10'0" | 2°41'12" | 3/8" | 6" | 8" | 38'8" | 222'0" | 4-1/4" | 25'1-1/2" | 24'11" | |
| | | RBF | 85 to 100 | 1/2" | 45" | 10'0" | 2°48'23" | 3/8" | 6-1/4" | 8" | 38'0-1/2" | 218'3-5/8" | 4-1/8" | 24'6-1/8" | 24'3-1/2" | |
| 7 | 8°10'16" | Cast | 70 to 80 | 1/2" | 21-15/16" | 10'0" | 2°41'12" | 3/8" | 6" | 8" | 42'4-7/8" | 312'7-7/16" | 4-9/16" | 30'9-1/8" | 30'6-15/16" | |
| | | Cast | 85 to 100 | 1/2" | 25-7/16" | 10'0" | 2°48'23" | 3/8" | 6-1/4" | 8" | 41'8-5/8" | 309'1-1/2" | 4-5/16" | 29'9-5/16" | 29'7-3/16" | |
| | | RBF | 70 to 80 | 1/2" | 56-1/2" | 10'0" | 2°41'12" | 3/8" | 6" | 8" | 42'4-7/8" | 312'7-7/16" | 3-3/4" | 27'10-9/16" | 27'8-3/8" | |
| | | RBF | 85 to 100 | 1/2" | 56-1/2" | 10'0" | 2°48'23" | 3/8" | 6-1/4" | 8" | 41'8-5/8" | 309'1-1/2" | 3-5/8" | 27'2-1/4" | 27'0-1/8" | |
| 8 | 7°9'10" | Cast | 70 to 80 | 1/2" | 25-1/16" | 15'0" | 1°47'27" | 3/8" | 6" | 12" | 54'3-3/16" | 390'2-1/16" | 5-3/8" | 37'4-3/16" | 37'2-1/8" | |
| | | Cast | 85 to 100 | 1/2" | 29-1/16" | 15'0" | 1°52'14" | 3/8" | 6-1/4" | 12" | 53'5-3/4" | 383'8-11/16" | 5-1/8" | 36'2-9/16" | 36'0-11/16" | |
| | | RBF | 70 to 80 | 1/2" | 61" | 15'0" | 1°47'27" | 3/8" | 6" | 12" | 54'3-3/16" | 390'2-1/16" | 4-1/2" | 34'4-1/4" | 34'2-3/16" | |
| | | RBF | 85 to 100 | 1/2" | 61" | 15'0" | 1°52'14" | 3/8" | 6-1/4" | 12" | 53'5-3/4" | 383'8-11/16" | 4-7/16" | 33'6-5/8" | 33'4-3/4" | |

Note: R.B.F. denotes "Rigid Bolted Frog."

Turnout Data for 48-in. Gage Light Rail – 20-lb to 60-lb ASCE rail, inclusive

American Mining Congress Standards

| No. | Angle | Frog | | | | | Switch | | | | | Actual Lead | Closure Rails | | | |
|-------|-----------|------|-------------|-------|-------------------|--------|----------|-------|-------------|-----------------|--------|-------------|---------------|------------|------------|--|
| | | Type | Rail Weight | Point | Actual Toe Length | Length | Angle | Point | Heel Spread | Vertex Distance | Curved | | | Straight | | |
| | | | | | | | | | | | Radius | | MO | Length | Length | |
| 2 | 28°04'21" | Cast | 20 to 60 | 1/4" | 6-11/16" | 3'6" | 6°19'20" | 3/8" | 5" | 4" | 14'3" | 26'0" | 6-3/4" | 10'10-1/4" | 10'2-1/4" | |
| | | WPF | 20 to 30 | 1/4" | 17" | 3'6" | 6°19'20" | 3/8" | 5" | 4" | 14'3" | 26'0" | 5-3/4" | 10'0-1/4" | 9'4" | |
| | | WPF | 40 to 60 | 3/8" | 20" | 3'6" | 6°19'20" | 3/8" | 5" | 4" | 14'3" | 26'0" | 5-1/2" | 9'9-1/4" | 9'1" | |
| 2-1/2 | 22°37'12" | Cast | 20 to 60 | 1/4" | 8-1/4" | 5'0" | 4°25'15" | 3/8" | 5" | 5" | 19'0" | 41'0" | 7" | 13'10-1/4" | 13'3-3/4" | |
| | | WPF | 20 to 30 | 1/4" | 16-1/2" | 5'0" | 4°25'15" | 3/8" | 5" | 5" | 19'0" | 41'0" | 6-5/16" | 13'2" | 12'7-1/2" | |
| | | WPF | 40 to 60 | 3/8" | 20" | 5'0" | 4°25'15" | 3/8" | 5" | 5" | 19'0" | 41'0" | 6-1/16" | 12'10-1/2" | 12'4" | |
| 3 | 18°55'29" | Cast | 20 to 60 | 1/4" | 8-3/8" | 5'0" | 4°25'15" | 3/8" | 5" | 5" | 21'7" | 62'0" | 6-7/16" | 16'4" | 15'10-1/2" | |
| | | WPF | 20 to 30 | 1/4" | 16-1/2" | 5'0" | 4°25'15" | 3/8" | 5" | 5" | 21'7" | 62'0" | 5-15/16" | 15'8" | 15'2-1/2" | |
| | | WPF | 40 to 60 | 3/8" | 24" | 5'0" | 4°25'15" | 3/8" | 5" | 5" | 21'7" | 62'0" | 5-1/2" | 15'0-1/2" | 14'7" | |
| 4 | 14°15'00" | Cast | 20 to 60 | 1/4" | 11-1/16" | 5'0" | 4°25'15" | 3/8" | 5" | 5" | 26'0" | 114'0" | 5-1/2" | 20'5" | 20'1" | |
| | | WPF | 40 to 60 | 3/8" | 27" | 5'0" | 4°25'15" | 3/8" | 5" | 5" | 26'0" | 114'0" | 4-13/16" | 19'1-1/4" | 18'9" | |
| 4 | 14°15'00" | Cast | 20 to 60 | 1/4" | 11-1/16" | 7'6" | 2°56'44" | 3/8" | 5" | 8" | 30'2" | 108'0" | 6-3/4" | 22'0-1/2" | 21'8-3/4" | |
| | | WPF | 40 to 60 | 3/8" | 27" | 7'6" | 2°56'44" | 3/8" | 5" | 8" | 30'2" | 108'0" | 6-5/16" | 20'9" | 20'5" | |
| 5 | 11°25'16" | Cast | 20 to 60 | 1/4" | 13-13/16" | 7'6" | 2°56'44" | 3/8" | 5" | 8" | 35'0" | 174'0" | 6-1/16" | 26'7-1/2" | 26'4-1/4" | |
| | | WPF | 40 to 60 | 3/8" | 30" | 7'6" | 2°56'44" | 3/8" | 5" | 8" | 35'0" | 174'0" | 5-1/2" | 25'3-1/4" | 25'0" | |
| 6 | 9°31'38" | Cast | 20 to 60 | 1/4" | 16-9/16" | 7'6" | 2°56'44" | 3/8" | 5" | 8" | 39'4" | 260'0" | 5-7/16" | 30'8-1/4" | 30'5-1/2" | |
| | | WPF | 40 to 60 | 3/8" | 36" | 7'6" | 2°56'44" | 3/8" | 5" | 8" | 39'4" | 260'0" | 4-7/8" | 29'0-3/4" | 28'10" | |
| 6 | 9°31'38" | Cast | 20 to 60 | 1/4" | 16-9/16" | 10'0" | 2°12'32" | 3/8" | 5" | 10" | 43'8" | 248'0" | 6-7/8" | 32'6-1/4" | 32'3-1/2" | |
| | | WPF | 40 to 60 | 3/8" | 36" | 10'0" | 2°12'32" | 3/8" | 5" | 10" | 43'8" | 248'0" | 5-3/4" | 30'10-3/4" | 30'8" | |

Note: WPF denotes "Welded Plate Frog."