







# CTIONS.

## SCOTLAND.

## IRELAND.

MIDLAND.	NORTH EASTERN.	SOUTH EASTERN.	CALEDONIAN.	GLASGOW AND SOUTH WESTERN.	HIGHLAND.	NORTH BRITISH.	GREAT NORTHERN OF IRELAND.	GREAT SOUTHERN AND WESTERN.
Suspended.	Suspended.	Suspended.	Suspended.	Suspended.	Suspended.	Suspended.	Suspended.	Suspended.
18 inches.	18 inches.	18 inches.	18 inches.	18 inches.	18 inches.	18 inches.	18 inches.	18 inches.
3½ inches.	3¼ inches.	3⅜ inches.	4⅞ inches.	3½ inches.	2½ inches.	3 inches.	Bullhead Rail, 4⅞ inches. Flat-bottomed Rail, 4½ inches.	4⅞ inches.
1 inch.	1 inch.	⅞ inch.	1⅜ inch.	⅞ inch.	¾ inch.	¾ inch.	¾ inch.	¾ inch.
16 lbs.	18½ lbs.	13 lbs.	22 lbs.	12¼ lbs.	10 lbs.	11 lbs.	For Bull-headed Rails 17½ lbs. For Flat-bottomed Rails, 19½ lbs.	15 lbs. 1 oz.
Four.	Four.	Four.	Four.	Four.	Four.	Four.	Four.	Four.
4½ inches by ⅞ inch.	4¼ inches by ⅞ inch.	4 inches by ⅞ inch.	4¼ inches by ⅞ inch.	4½ inches by ⅞ inch.	4 inches by ⅞ inch.	4 inches by ⅞ inch.	4½ inches by ⅞ inch.	3½ inches by ⅞ inch.
1½ lbs.	1½ lbs.	1½ lb.	1½ lbs.	1 lb. 7 oz.	1½ lbs.	1 lb. 3 oz.	1 lb. 5 oz.	1 lb. 1½ ozs.
Steel—Cup Headed, with pear-shaped shoulder.	Cup Headed with square shoulder at head end.	Square head. Shape of fish plate prevents head turning while bolt is being screwed.	Steel Cup headed with shoulders at head end.	Soft Steel Cup headed, oval shoulder at head end.	Cup Headed, pear-shaped shoulders.	Cap headed with square shoulders at head end.	Cup Headed, pear-shaped shoulder at head end.	Cup Headed with square shoulder at head end.
Ibbotson's Lock Nut.	Ordinary square Iron Nut. Washer used in special cases only.	Ordinary Square Nut and Washer	Ordinary square Nut.	Ordinary square Nut.	Ibbotson's patent Nut and Washer.	Ordinary square Nut.	Hexagonal Nut. No Washer used.	Ordinary Nut. No Washer used.
Pear-shaped—drilled.	Square in one Plate, and circular in the other. Punched.	Circular—punched.	Pear shaped in one Plate and circular in the other.	Oval in one Plate and circular in the other. Punched	Pear-shaped—punched.	Square in one Plate and circular in the other. Punched.	Pear-shaped—punched	Square—punched.
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes, for Bull-headed Rails.	No Chairs.
50 lbs.	40 lbs.	37 lbs.	46 lbs.	44 lbs.	40 lbs.	40 lbs.	39 lbs.	.....
102 square inches.	108 square inches.	70 square inches.	105 inches.	103 square inches.	71.773 square inches.	98 square inches.	87 square inches.	.....
No	No	No	No	No	No	No	No	.....
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	.....
2 Cup-headed Wrought Iron Spikes, 6½ inches long by ⅞ inch diameter. 2 Oak Treennails, 6½ inches long by 1½ inch diameter, the top 2 inches length, tapering out to 1½ inch diameter.	Two twisted spikes in opposite corners. 1 inside and 1 outside.	Two Wrought Iron Spikes within two hollow Oak Treennails.	Spikes 5¼ inches by ⅞ inch.	Four Spikes each 6 inches by ⅞ inch.	On curves, 3 spikes in each chair. Straights, 2 spikes in each chair.	Two malleable Iron Spikes 6 inches by 1⅜ inches diameter with cup heads.	3 Cup-headed Spikes, with square shoulders at cup end, 6 inch by ⅞ inch diameter at head, tapering to ¾ inch at end.	.....
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							For Flat-bottomed Rails, Rails fastened to Sleepers in the centre of the Rails by 2 Fang Bolts and Clips, at each end of the Rail by 1 Fang Bolt, at one end of the Rail by a Fang Bolt inside, and at the other end by a Fang Bolt inside the road. The remaining 14 Fastenings being Spikes.	Rails fastened to Sleepers with 9 Fang Bolts (6 outside Rail and 3 inside), and 13 Spikes (5 outside the Rail and 8 inside).