

Wavor Wire Ltd.

Number of wires per bale manufactured						
Bale#	4 ties	5 ties	6 ties	8 ties	10 ties	12 ties
500	14.5	N/A	N/A	N/A	N/A	N/A
600	14.5	N/A	N/A	N/A	N/A	N/A
700	14.5	N/A	N/A	N/A	N/A	N/A
800	14.5	N/A	N/A	N/A	N/A	N/A
900	14.5	14.5	14.5	N/A	N/A	N/A
1000	14.5	14.5	14.5	N/A	N/A	N/A
1200	14.5	14.5	14.5	N/A	N/A	N/A
1400	14.5	14.5	14.5	N/A	N/A	N/A
1600	13.5	14.5	14.5	N/A	N/A	N/A
1800	13.5	14.5	14.5	N/A	N/A	N/A
2000	13.5	13.5	14.5	14.5	N/A	N/A
2500	12.25	13.5	13.5	13.5	13.5	N/A
3000	12.25	12.25	13.5	13.5	13.5	13.5
3500	11.5	12.25	12.25	12.25	12.25	12.25
4000	11.5	11.5	12.25	12.25	12.25	12.25
4500	11.5	11.5	11.5	11.5	11.5	11.5
5000	11.5	11.5	11.5	11.5	11.5	11.5

Bale Tie Wire Specifications

14.25 Gauge

Dia; 0.0770" – 0.0800" Aim; 0.0785"
 Breakload; 400# min to 490# max
 Tensile; 75KSI to 95KSI
 Elongation; 14% min

11.5 Gauge

Dia; 0.1100" – 0.1140" Aim; 0.1120"
 Breakload; 800# min to 1020# max
 Tensile; 75KSI to 95KSI
 Elongation; 14% min

12.25 Gauge

Dia; 0.1000" – 0.1030" Aim; 0.1015"
 Breakload; 650# min to 860# max
 Tensile; 70KSI to 100KSI
 Elongation; 14%

13.5 Gauge

Dia; 0.0840" – 0.0875" Aim; 0.0855"
 Breakload; 470# min to 610# max
 Tensile; 75KSI to 95KSI
 Elongation; 14% min

Where possible refer to baler manufacturers specifications
 Safety Factors: ONP = 1,5x OCC = 2x TEX = 3x PET = 4.5x
 Safety Factor x Heaviest Bale Weight = Bale #

WIRE PRODUCTS

- **Single Loop Bale Ties;** variety of lengths and gauges
- **Box Wire;** Variety of Gauges in Black Annealed and galvanized
- **Carrier Wire;** Variety of Gauges in Black Annealed and High Tensile Galvanized
- **Hanger Wire;** Straight cut and pigtail knots in a variety of lengths
- **Quick Link;** variety of Gauges and Lengths
- **Tylok;** Variety of Lengths and Gauges

EQUIPMENT

- US Wire Tie Automatic Tiers and parts distributor for Canada.

STEEL STRAP

- Steel strapping available



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Bale Tie Sizing Cross Reference

At Wavor Wire Ltd. we have designed a simple cross reference chart for the sizing of bale ties. This chart has been designed around the bale weight of the product being baled. It takes into consideration a number of other factors such as product being baled, number of wires used to tie off, and a safety factor.

The following chart demonstrates this:

Bale Weight x Safety Factor / Number of Wires

The bale weight can be determined by simply asking your customer what the HEAVIEST bale being made is.

The number of wires used can be found by looking at a made bale or asking your customer.

The safety factor is determined by the product being baled. ONP, OCC, or PET

ONP (Old NewsPaper) Safety Factor is: 1.5 times

General rule of thumb: if on a 60" down stroke, using 6 wires - 14.5 Ga 14 ft Bale tie.

General rule of thumb: if on a 60" down stroke, using 4 wires - 13.5 Ga 14 ft Bale tie.

OCC (Old Corrugated Cardboard) Safety Factor is: 2 times

General rule of thumb: if on a 60" down stroke, using 6 wires - 14.5 Ga 14 ft Bale tie.

General rule of thumb: if on a 60" down stroke, using 4 wires - 13.5 Ga 14 ft Bale tie.

PET (PolyEthylene Terephthalate) Safety Factor is: 4-5 times

General rule of thumb: if on a 60" down stroke, using 12 wires - 12.25 Ga 14 ft Bale tie.

General rule of thumb: if on a 60" down stroke, using 10 wires - 11.5 Ga 14 ft Bale tie.

If you are concerned about the wire size it is always better to have your customer do one of the following; either increase the number of ties, or increase the wire size.

See the Bale Tie Gauge Reference Chart.

For further information please contact Wavor Wire Ltd. @ 604-944-0482 locally or 1-888-889-2867 toll free. We are more than happy to help in any way that we can.



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