

30-SGUN

RIFLE M100 STAPLE GUN



INSTRUCTION MANUAL

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PRODUCT DESCRIPTION

The fast and easy way to secure and staple down erosion control blankets, geotextiles, sod and landscape fabrics for construction, highway or landscaping projects. Made from laser-cut, welded precision steel parts, this staple gun will help increase productivity to an average of 12,000 staples per day. It saves time, reduces labour costs and back strain. The high-performance Rifle Staple Guns works on soft, cold or hard ground, as well rocky soil.

The mechanical device drives and guides the staple into the ground, preventing the staple from bending out of shape. Once installed, the staple holds the blanket in place and resists wind forces from pulling up the blanket.

Wearable parts are interchangeable, so you can easily replace them as needed over time. Replacement parts are readily available.

Product Features

- Most durable staple gun on the market
- Handcrafted, durable, hardened steel construction
- Adjustable chamber for precise staple delivery
- Easy to use and maintain – replacement parts available
- Staples/day: 12,000 on average

Applications

- Construction
- Highway
- Landscaping
- Slope
- Channel
- Shoreline



PRODUCT SPECIFICATIONS

All components of the Staples shall be prepackaged by the manufacturer to assure both material performance and compliance with the following values:

Rifle Staple Gun & Factor T Staples Specifications

Rifle Staple Gun Packaging Properties	Unit	M100
Weight	kg	13
Factor T Staples (Box of 1000) Weight	kg	12
Pallet Quantity	-	50 boxes of staples per pallet
Factor T Staples Properties		
Staple Dimensions	mm	152.4 x 25.4 x 152.4, U-shaped
Gauge		13 gauge
Stiffness		1018 or stiffer
Galvanised		Not allowed
Number of staples per cartridge / per box		50 / 1000

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EXECUTION AND ASSEMBLY

1. Remove the staple gun and parts from the box.
2. Install large compression spring on driving rod.
3. Install handle on top of driving rod.
4. Secure with pin.
5. Pull back the staple pusher and load the cartridge of staples. For the M100, use 2 cartridges. Once the staples have been loaded, release the staple pusher.



CLEANING AND MAINTENANCE

1. Clean the Staple Driver of any mud, dirt, and debris at the end of each day or as often as required.
2. Lubricated the moving parts with dry graphite type spray on lubrication.
3. Replace worn or broken parts as required.

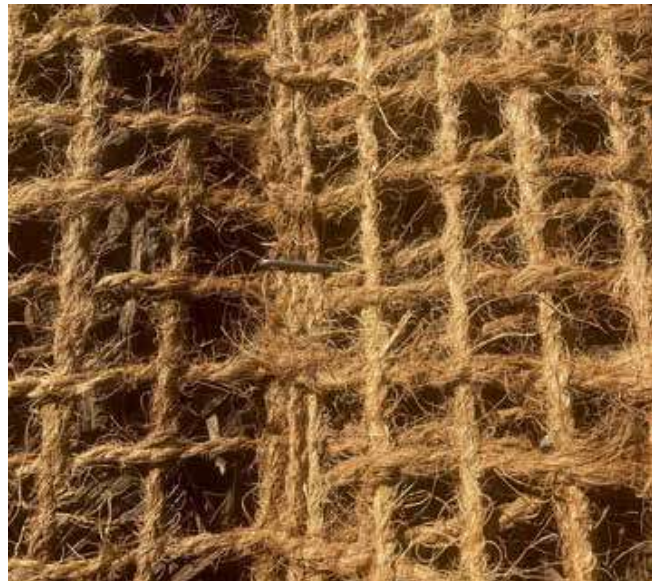


IMAGE SOURCES:

The Rifle Staple Gun. (2017). Field Setting the Chamber – Alternative Method (<https://www.youtube.com/watch?v=uPJDVAP9gAU>).

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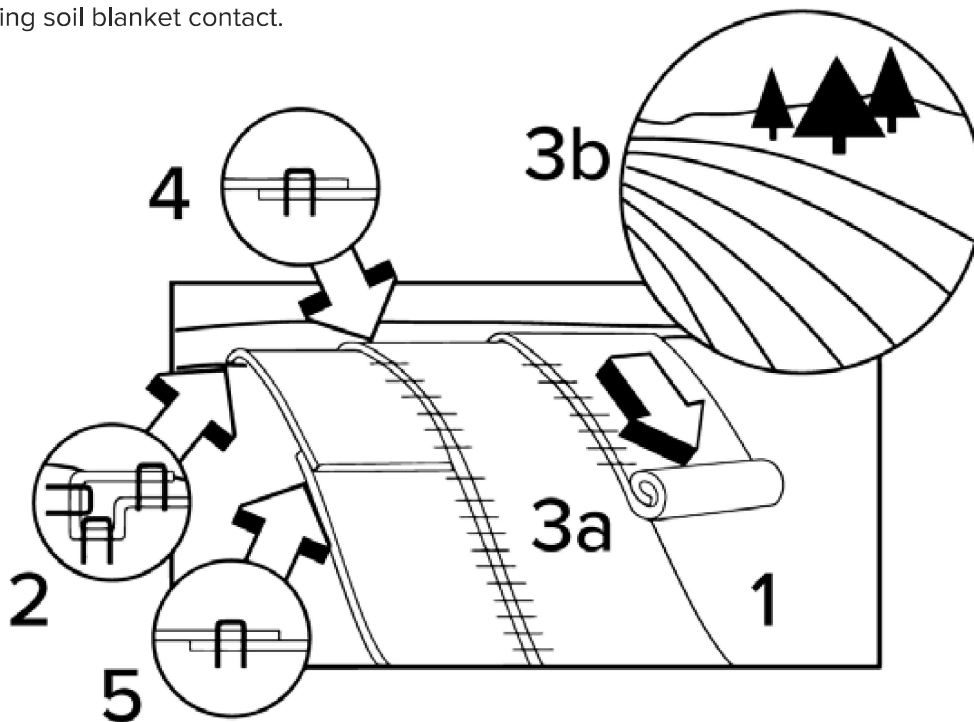


INSTALLATION INSTRUCTIONS

- Equipment:** Contractor shall use a working mechanical staple driver that has sufficient size to install the proper size wire staple.
- Application:** With two hands on the handle and the base of the gun on the blanket on the ground, push down the staple driver until the staple is fully in the ground and out of the chamber. Move the gun to the next position and repeat.
 - If the staple hits a stone which it cannot penetrate, DO NOT try to force the staple through the stone. Immediately pull the staple driver up and remove the staple from the gun or the ground and try to install another staple in a different area nearby.
 - If the ground is frozen or very firm ice and you cannot drive the staple in one stroke, then pull the handle half-way up and strike as many times as you need to complete the installation of that staple. At anytime you start to bend the staple before it is fully installed, STOP and remove the staple and start with a new staple in a different area.

SLOPE APPLICATION

- Prepare soil so that the area is smooth. Add seed, fertilizer and lime as required.
- Start by stapling the blanket at the top of the slope in a 150mm deep x 150mm wide trench. Backfill and compact trench so that the water will flow evenly onto the blanket.
- Roll blanket down the slope, or;
 - Horizontally across slopes 16m, ensuring soil blanket contact.
- Overlap edges of blanket a minimum of 50mm with parallel blankets.
- If more than one blanket is needed for the run, overlap adjoining ends a minimum of 100 mm shingle style. Staple overlap areas in a staggered pattern with staples.



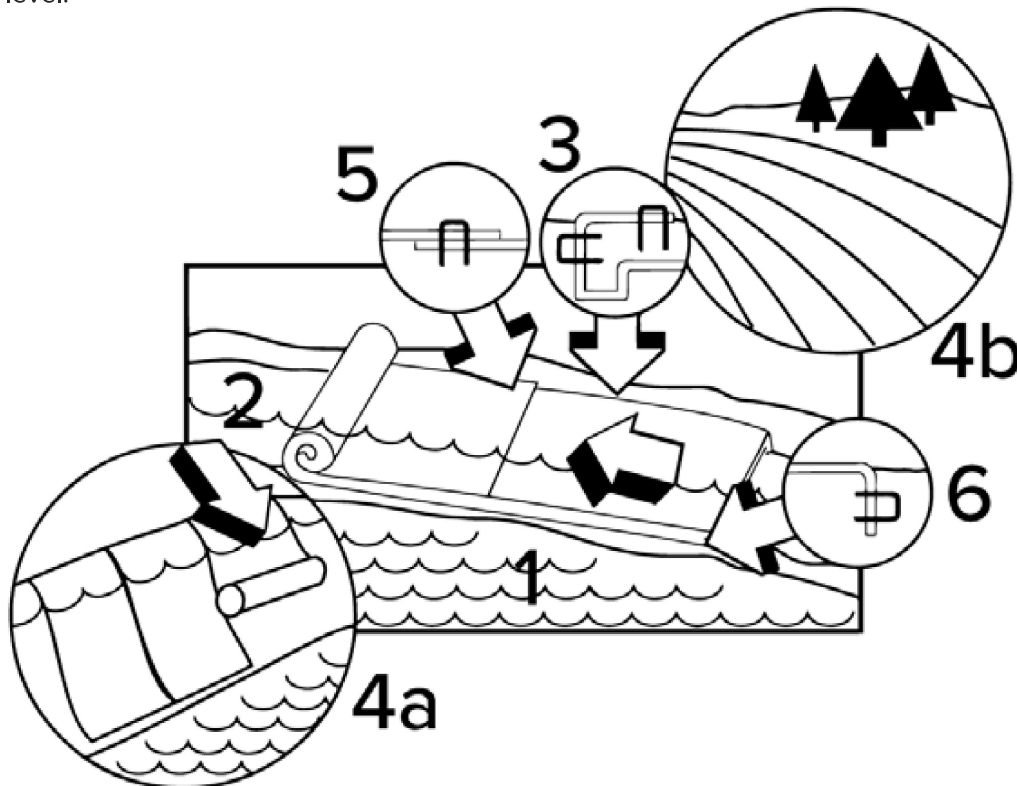
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SHORELINE APPLICATION

1. If possible, lower the level of water for ease of application. If water is artificially lowered before application, install blanket before water level is raised.
2. Prepare soil so that area is smooth. Add seed, fertiliser and lime as required.
3. Begin by stapling the blanket at the top of the slope in a 150mm deep x 150mm wide trench. Backfill and compact the trench so that the water will flow evenly onto the blanket.
4. (a) For slopes over 16m in length lay blanket down the slope;
(b) For slopes <16m the blanket may be laid horizontally along the slope.
5. Overlap the blanket 100mm, staple through both blankets of overlapped area with one staple every 300mm. Staple blanket at a rate of 2 staples per square yard below the highest water level.
6. The bottom end of the blanket that falls below the water level must be placed in a trench that is 300mm deep x 150mm wide, stapled, backfilled and compacted. Rocks larger than 150mm in diameter may be used instead of trenching. Actual rock size should be chosen depending on shear stress created from the water. Trenching is the more desirable method but sometimes the least practical of the two.
7. If the soil is loose, the use of longer staples may be required.



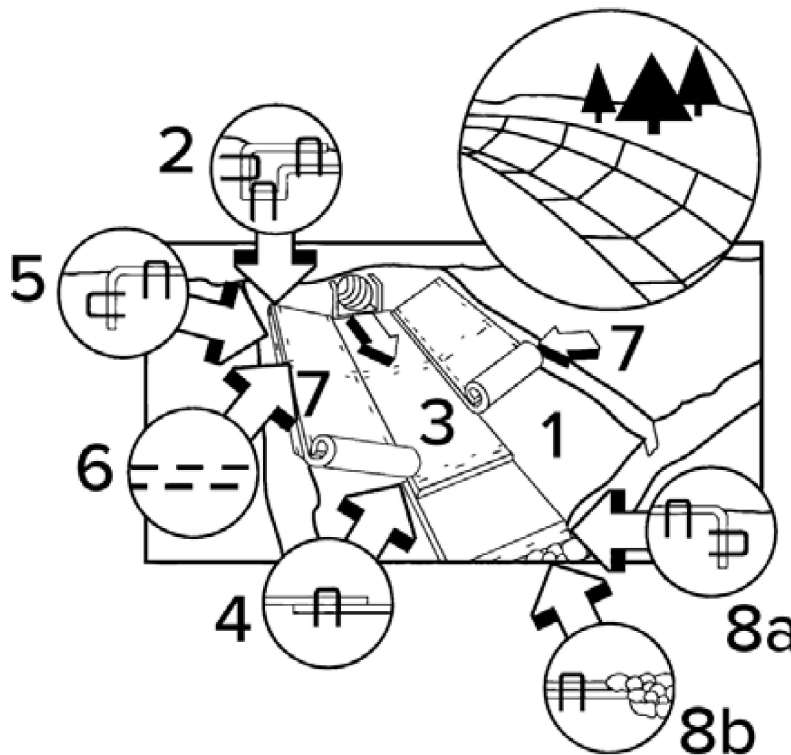
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CHANNEL APPLICATION

1. Prepare soil so that area is smooth. Add seed, fertiliser and lime as required.
2. Start by stapling the blanket at the top of the channel in a 150mm deep x 150mm wide trench. Backfill and compact trench so that the water will flow evenly onto the blanket.
3. Roll center blanket in the bottom of the channel and place 4 staples (evenly spaced) per square yard. Follow the staple pattern on the back of the supplied product sheet to determine the pattern for this application.
4. Place adjoining ends (shingle type) overlapping 150mm securing the overlap with a double row of staples staggered 100mm apart. Overlap edges of the blanket with a minimum of 150mm with parallel blankets.
5. The full length of the blanket at the top of the channel must be anchored in a 150mm deep x 150mm wide trench, backfilled and compacted after placing staples in the trench 1 metre apart. Ensure that it is compacted so that the water can flow evenly onto the blanket from the sides of the channel.
6. Place a double row of staggered staples 100mm apart every 10 metres.
7. Ensure blanket is placed on side banks of channel 300mm higher than expected water flow.
8. (a) At the terminal end of the channel, the blanket must be anchored such that the water will flow to the desired area. If the end of the channel is a culvert, the blanket must be placed under the culvert and secured with staples 100mm apart in a staggered pattern; (b) If at the terminal end is a rock outfall, the blanket must be placed in a 150mm deep x 150mm wide trench, secured and stapled down. Backfill and compact with rocks placed in the trench to blend the two systems together.

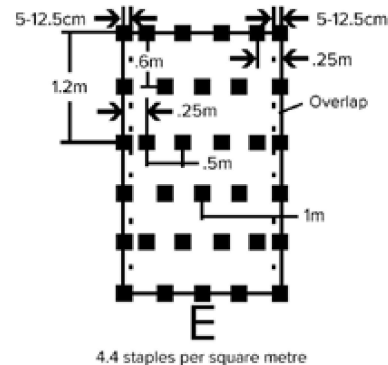
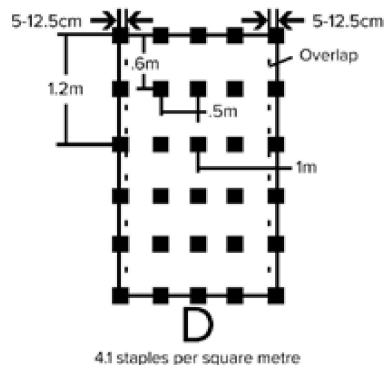
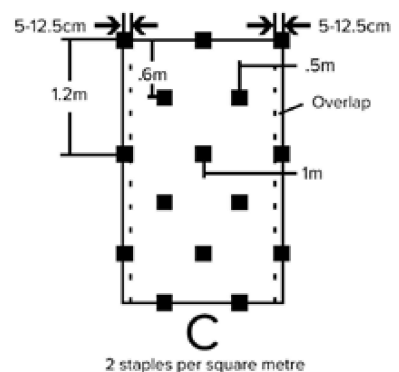
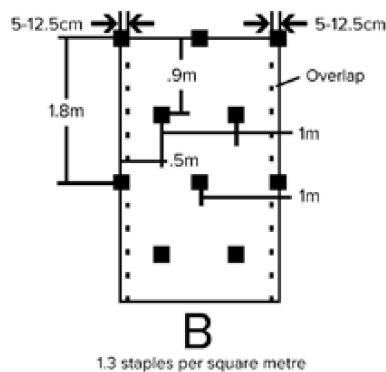
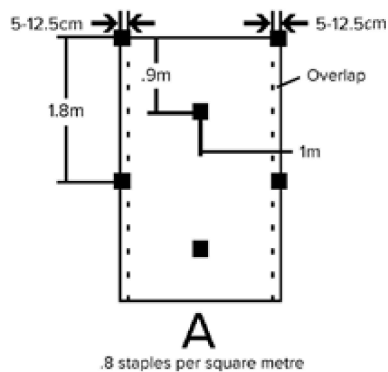
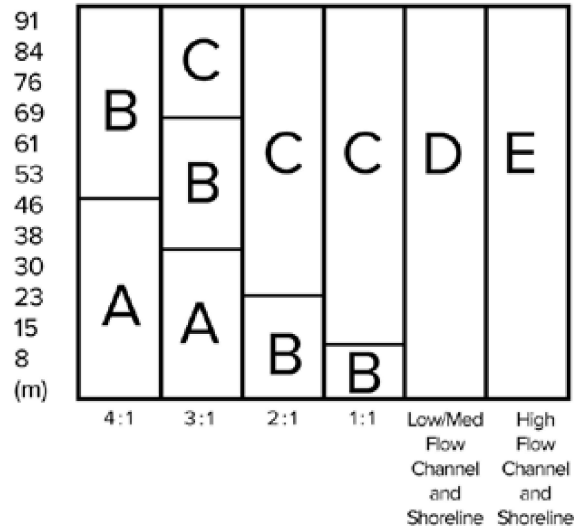


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STAPLE PATTERN

1. The choice of staples depends on the compaction of the soil. In general, the staples, once applied, should not easily come out by hand. The standard 150mm two-sided staple is the norm, but in sandier soils, a 200mm - 250mm double-sided may be required.
2. In extreme loose soil conditions, a 450mm or longer pin with washers may be necessary to anchor the blanket.



Rifle M100 Staple Gun

THE FAST AND EASY WAY TO SECURE AND STAPLE DOWN EROSION CONTROL BLANKETS, GEOTEXTILES, SOD AND LANDSCAPE FABRICS FOR CONSTRUCTION, HIGHWAY OR LANDSCAPING PROJECTS.

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DISCLAIMER: Consult Jaybro Group or a certified Engineer for site specific installation instructions. Jaybro Group reserves the right to change its product specification at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance. E&OE.

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