

MATERIAL PROPERTY DATA SHEET

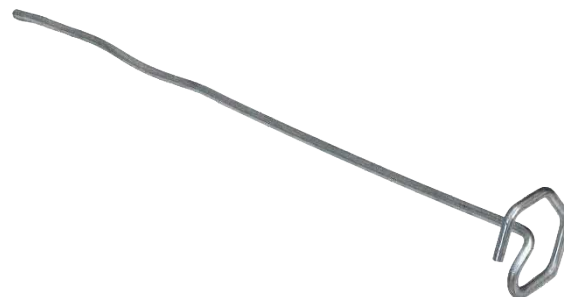
FALCON PINS™

HR-12

US Patent #:12,410,575

Description

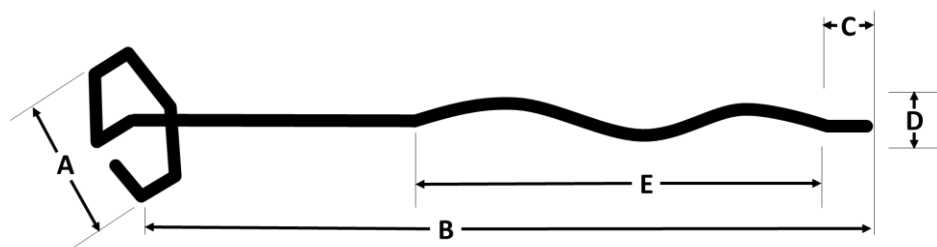
Falcon Pins by Western Green are a patent-pending fastener designed to secure erosion control mattings in place with a pull-out strength up to 10 x that of sod staples. The Falcon HR-8 has a unique 'corkscrew' coil configuration using 0.16" (4.0mm) diameter wire. The HR-12 is designed for hard, rocky soils. With the 'hex head' shape, the HR-12 pins are easy to install using a hand drill with a 1.5" socket attachment. For faster and easier installation, a custom driving socket is available. HR-12 pins are galvanized, made in the USA and can be installed on ARRA projects.



Dimensions and Performance

HR-12 Dimensions – in (cm)

Hex Diameter (A)	1.5 (3.8)
Twist Pin Length (B)	12.0 (30)
Tail Length (C)	0.5 (1.3)
Coil Diameter (D)	0.3 (0.7)
Coil Length (E)	3.0 (7.6)



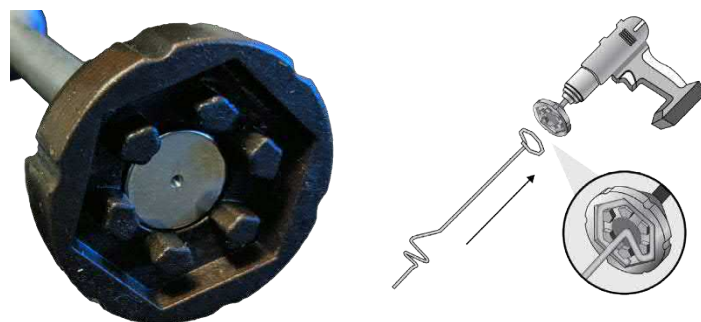
HR-12 Performance

Pullout Resistance	Up to 150 lb (675 N)
* Pullout resistance will vary based on soil type and conditions.	

Falcon Hex Pins show superior pullout resistance compared to standard fasteners. Pullout resistance will vary based on soil type. A pullout test should be conducted to verify in-situ stability. A minimum 20 lbs of pullout resistance is required for use with rolled erosion control products. HR-12 pins are optimized for hard, rocky soils.

Installation

- HR-12 pins can be installed with an 'off-the-shelf' 1.5" socket. A custom socket for improved performance is shown to the right.
- Ensure the tip is pushed below the TRM before drilling into ground to avoid entanglement.
- Ensure no debris is on the Falcon Pin before drilling. Debris may cause TRM fibers to entangle
- With light-weight nets, keep tension on blanket.



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