

MATERIAL PROPERTY DATA SHEET

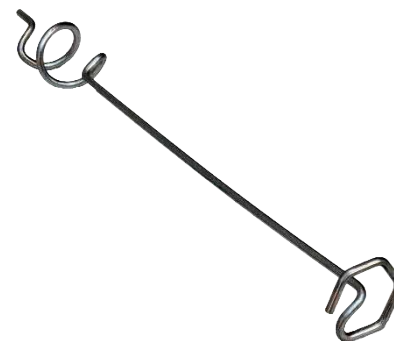
FALCON PINS™

HS-12

Patent Pending

Description

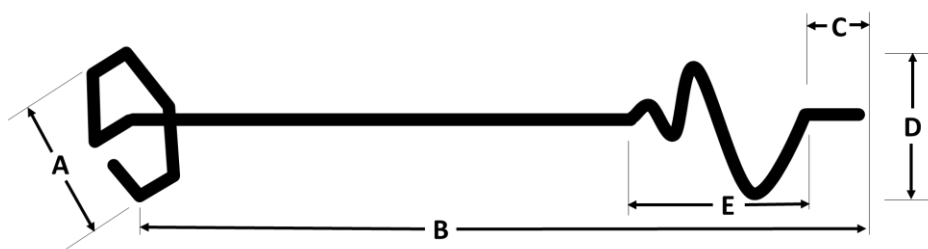
Falcon Pins by Western Green are a patent-pending fastener designed to secure erosion control mattings in place with a pull-out strength up to 10 x that of sod staples. The Falcon HS-12 has a unique 'corkscrew' coil configuration designed for soft, sandy and silty soils. With the 'hex head' shape, the HS-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. HS-12 pins are galvanized, made in the USA and can be installed on ARRA projects.



Dimensions and Performance

HS-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) | 1.3 (3.2) |
| Coil Length (E) | 2.5 (6.4) |



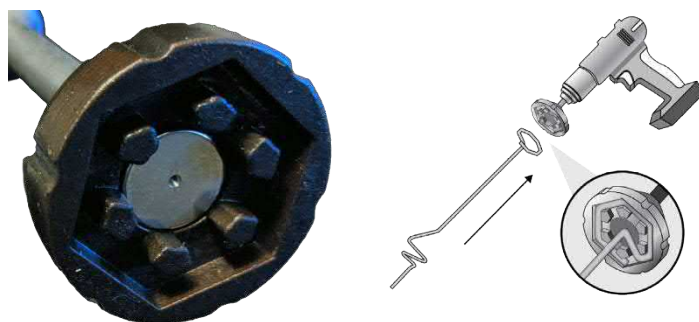
HS-12 Performance

| | |
|---|--------------------------|
| Pullout Resistance | Up to 250 lb (1.1 kN) |
| * 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. HS-12 pins are optimized for loose, sandy and silty type soils.

Installation

- HS-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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