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## MATERIAL SPECIFICATIONS

### E-Staple®

#### Materials:

100% Biodegradable Resins

#### Dimensions:

4.0 in (10.2 cm) long with a 1.0 in (2.5 cm) wide U-shaped head and anchoring ears

6.0 in (15.2 cm) long with a 1.0 in (2.5 cm) wide U-shaped head and anchoring ears

#### Description:

American Excelsior Company provides E-Staples, 100% biodegradable staples, that may be utilized to anchor erosion control blankets (ECBs) and sod. Ideally, E-Staples should be installed with Curlex® NetFree™ for a 100% biodegradable erosion control and revegetation system, but E-Staples are suitable for all degradable ECBs. Product-specific Staple Pattern Guides shall be followed when anchoring ECBs.

Unique E-Staples are resistant to humidity, which means they will not soften during storage. In addition, E-Staples compost and biodegrade in cold to hot ground conditions. E-Staples have been tested in accordance to ASTM biodegradation standards.

Use the E-Staple applicator gun for best results in hard soil. E-Staples are available in boxes of 1,000 staples per box.

#### Physical Properties:

Material:	100% Biodegradable Resins
Weight:	4 in: 0.19 oz (5.4 g) ± 10 % 6 in: 0.26 oz (7.4 g) ± 10 %
Leg Length:	4 in (10.2 cm) ± 10% 6 in (15.2 cm) ± 10%
Number of Legs:	One per Staple
Diameter:	0.5 in (1.3 cm) ± 10%
Head Configuration:	U-Shaped
Head Width:	1.0 in (2.5 cm) ± 10%
Anchoring Ear Length:	1.0 in (2.5 cm) ± 10%
Number of Ears:	Two per staple head





**MANUFACTURER'S CERTIFICATION**  
**E-Staple® – Biodegradable Anchoring Device**

**Provider:**

American Excelsior Company  
831 Pioneer Avenue  
Rice Lake, WI 54868  
1-866-9FIBERS (1-866-934-2377)

**Project Information (if applicable):**

**Name:**

**Location:**

**Number:**

**Statement**

We hereby certify that the above referenced material is manufactured to meet or exceed the following specification:

Material:	100% Biodegradable Resins
Weight:	4 in: 0.19 oz (5.4 g) ± 10 % 6 in: 0.26 oz (7.4 g) ± 10 %
Leg Length:	4 in (10.2 cm) ± 10% 6 in (15.2 cm) ± 10%
Number of Legs:	One per Staple
Diameter:	0.5 in (1.3 cm) ± 10%
Head Configuration:	U-Shaped
Head Width:	1.0 in (2.5 cm) ± 10%
Anchoring Ear Length:	1.0 in (2.5 cm) ± 10%
Number of Ears:	Two per staple head

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Tony Johnson – General Manager, Rice Lake

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Effective Date

**Note:** This Certification expires, without notice, if document is updated by American Excelsior Company (AEC). Current Material Specifications and Manufacture's Certifications (MSMC) for AEC products shall be accessed from [www.Curlex.com](http://www.Curlex.com) at all times.

