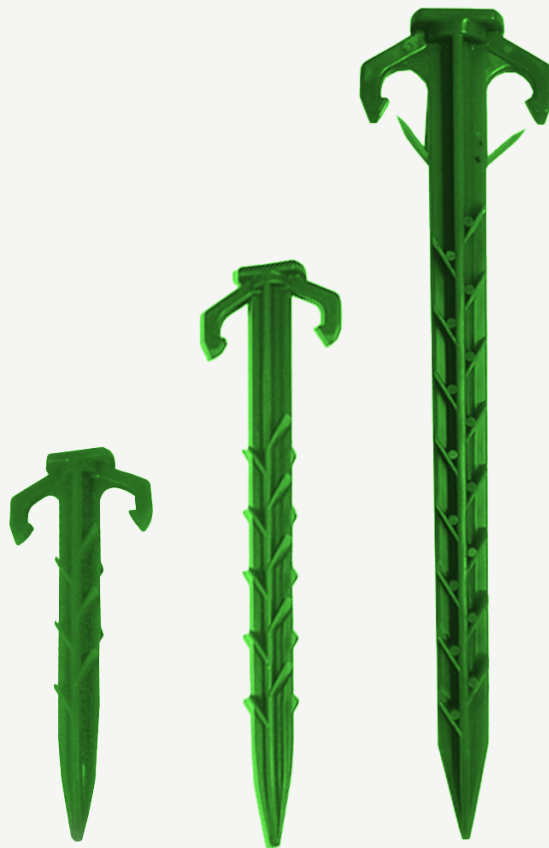


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Biodegradable Ground Stakes Pull and Bend Testing



Sample Submission

Twenty (20) Ground Stakes were submitted;
Four each of EDS-4B, EDS-4D, EDS-6B, EDS-6D, and EDS-6B-V2.

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Test Results Summary

Bend and Pull testing was conducted according to the requirements agreed upon by the Trace and the customer. Results can be found in the Test Data sections of this report.

Test Name	Test Dates	Test Summary	Test Result
Bend	2014/01/15	The sample shall be placed on a 3-point bend fixture and bent until break	N/A
Pull Out	2014/01/20	Determine the peak force to pull the sample out of a dirt compound.	N/A

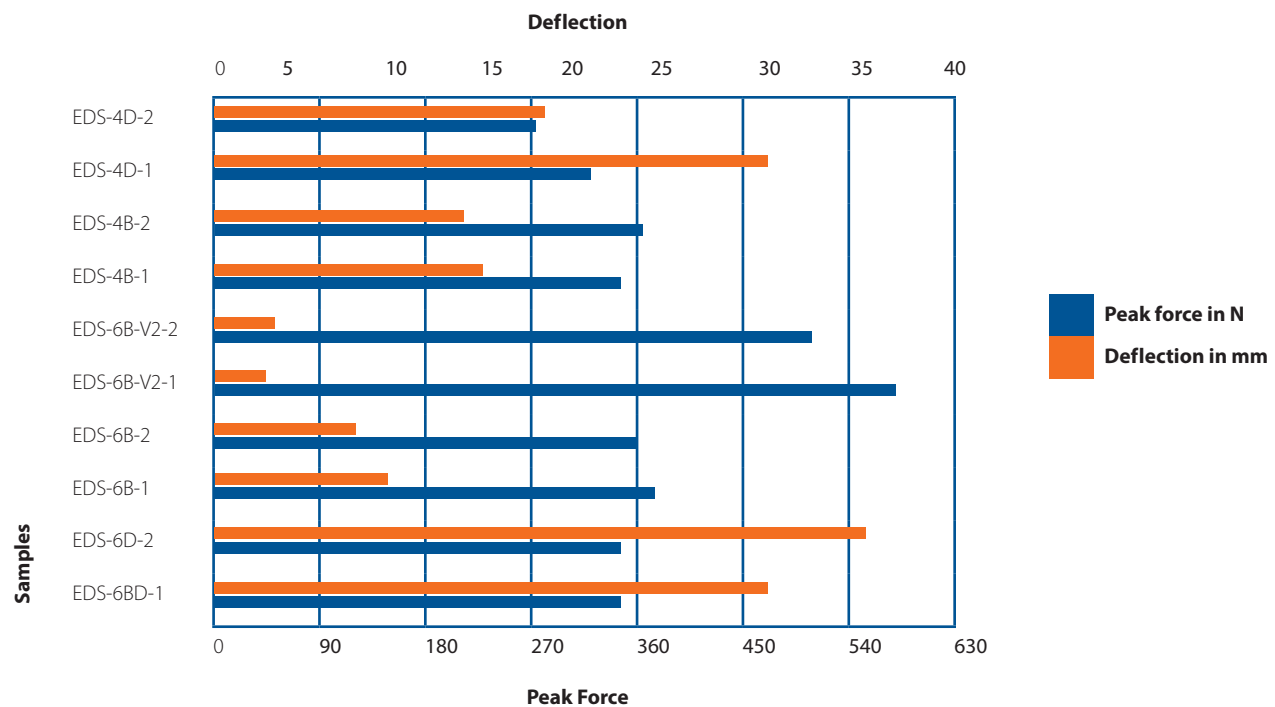
Any deviation/exclusion from agreed test method: **None**

Bend Test

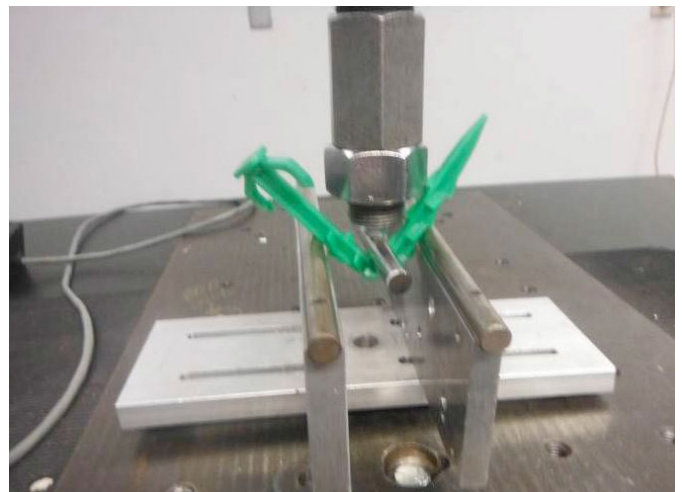
Part Number	Number	Peak Force in N	Deflection in mm	Cause of Failure
EDS-6D	1	340N	30mm	Max Bend Reached
	2	350N	36mm	Max Bend Reached
EDS-6B	1	386N	10mm	Sample Cracked
	2	356N	9mm	Sample Cracked
EDS-6B-V2	1	588N	4mm	Broke in Two Pieces
	2	496N	4mm	Broke in Two Pieces
EDS-4B	1	345N	15mm	Sample Cracked
	2	359N	14mm	Sample Cracked
EDS-4D	1	324N	30mm	Max Bend Reached
	2	269N	19mm	Broke in Two Pieces

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Bend Force



Bend Test Setup



Bend - Sample Under Test

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Pull Test Result

Test Specimens

- Two (2) Samples @ EDS-4B
- Two (2) Samples @ EDS-4D
- Two (2) Samples @ EDS-6B
- Two (2) Samples @ EDS-6D
- Two (2) Samples @ EDS-6B-V2

Test Specification

Per Customer Requirement

Requirements

The peak force to remove each sample from the ground shall be determined.

Procedure

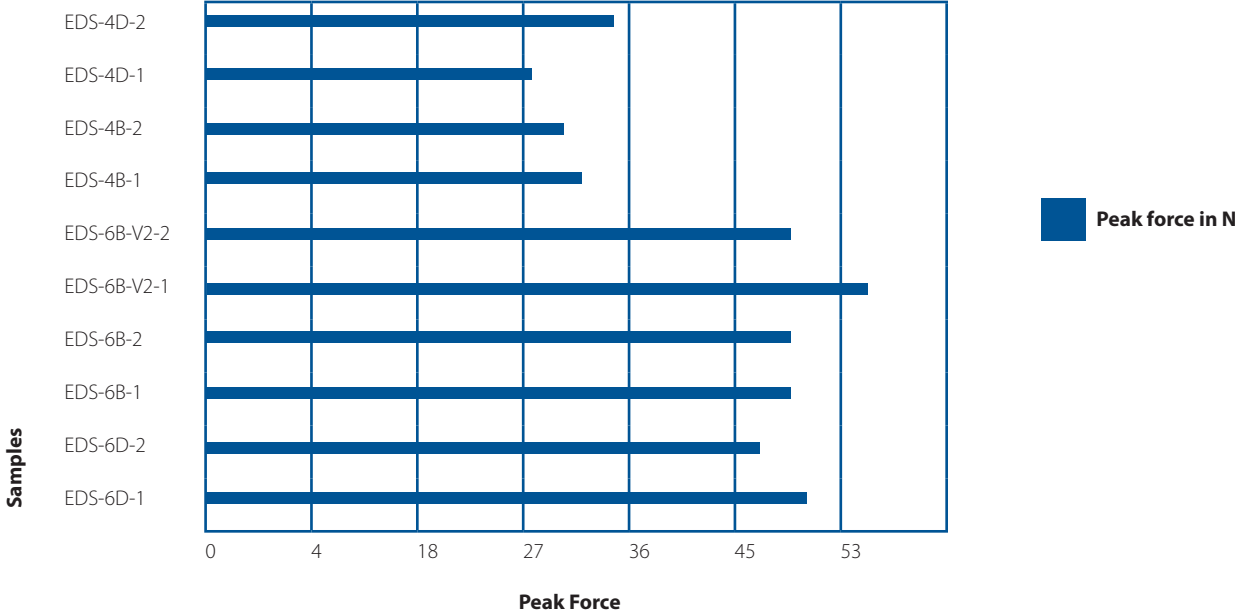
Natural ground soil was collected in a container and allowed to stabilize at room temperature. It was compacted as described in ASTM D698. Each sample was fully inserted into the dirt at a rate of 51mm per minute, allowed to remain inserted for 1 minute, and then pulled straight out at a rate of 51mm per minute. The peak force was recorded.

Test Results

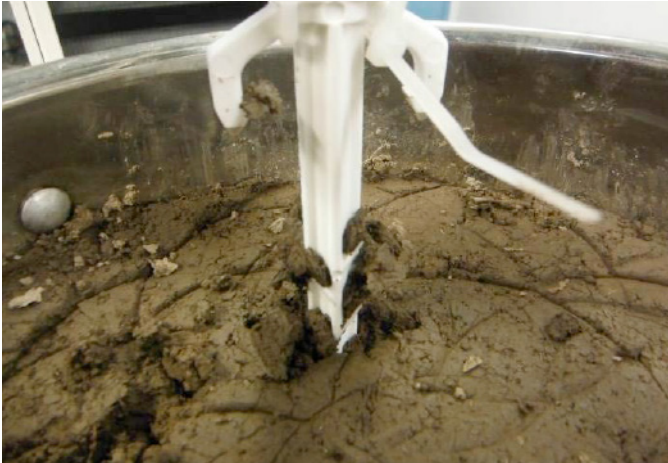
Testing was conducted as outlined in the Procedure section above. Data can be found in the Test Data section of this report.

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Pull Out Force



Pull Test - Sample Inserted



Pull Test - Sample Under Test

About Us

Leaders in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthetic products backed by over 200 years of combined staff experience in the industry.

We have supplied products to some of the largest recent infrastructure works in Australia. Global Synthetics provides major benefits to any geotechnical engineering project with the right products and our technical expertise.

Global Synthetics products are used in the following applications:

- Pavement Stabilisation
- Ground Improvement
- Soil Reinforcement and Retaining Structures
- Water Management
- Drainage Systems & Hydraulic Works
- Landfills
- Coastal Erosion Structures

Get in Touch

AUSTRALIA

Website

globalsynthetics.com.au

Email

gbs@globalsynthetics.com.au

New South Wales

(02) 9725 4321

Victoria/Tasmania

(03) 9791 1772

Queensland

(07) 3865 7000

South Australia

(08) 8384 8894

Western Australia

(08) 9459 4300

NEW ZEALAND

Website

globalsynthetics.co.nz

Email

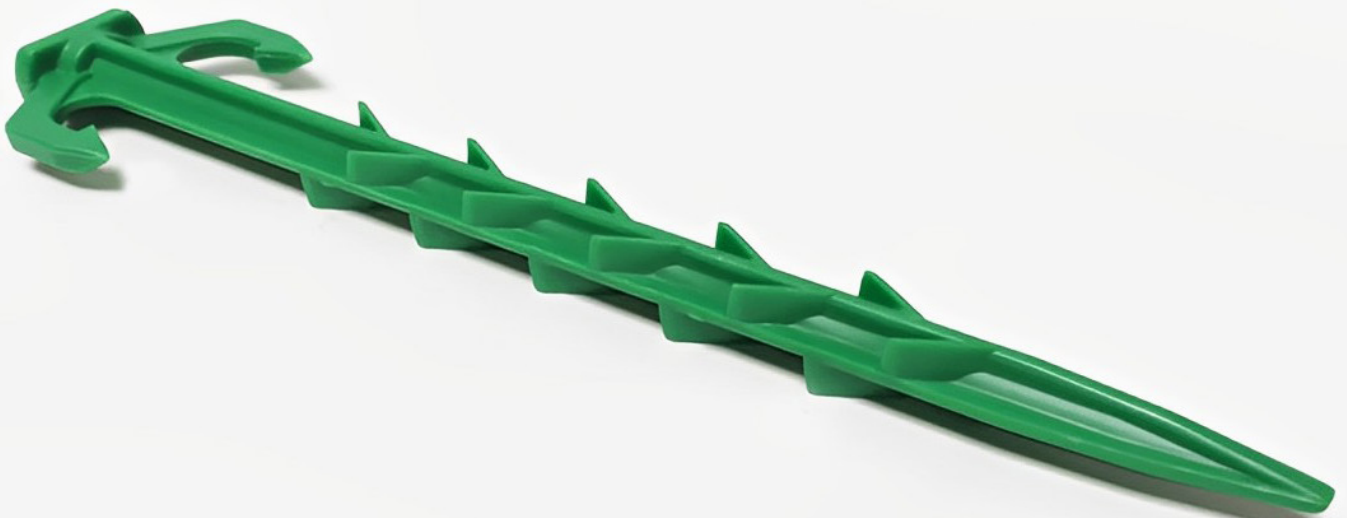
gbs@globalsynthetics.co.nz

Auckland

0800 510 120

Christchurch

0800 510 120



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