

## Product Evaluation

### RE: Review of Platipus Anchors – Anchored Reinforced Grid Solutions (ARGS) & Plati Drain

#### **PRODUCT**

Platipus Anchors are manufactured and distributed by platypus Anchors located in Raleigh, North Carolina.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS:**

Platipus Anchors percussion driven mechanical anchor is a unique, modern and versatile device that can be rapidly deployed in most displaceable ground conditions. Platipus Anchors offer a lightweight corrosion resistant anchor that can be driven from ground level using conventional portable equipment. Website: <http://www.platipus-anchors.com/>

##### **DESCRIPTION:**

Platipus Anchors are made of corrosion resistant aluminum alloy, gravity die cast and heat treated to give considerable increase in mechanical strength and durability both during installation and in service. The anchor is connected to a stainless steel tendon to fully enhance corrosion resistance particularly at the soil/air interface.

##### **POTENTIAL USAGE:**

Platipus Anchors benefits: simple and effective concept; lightweight corrosion resistant; fast and easy installation; holding capacity of up to 44,000lbs; ideal for temporary and permanent situations.

##### **STANDARDS:**

Not provided

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation has experience with soil nailing related to the use of steel rods inserted into the ground by percussive and launching methods. Alberta Transportation has no experience with the use of tension anchors for shallow slope stability mitigation.

##### **APPLICATION STANDARDS:**

Use of limit equilibrium may be applied however the soil anchor interaction and development of load transfer may require more robust analytical techniques.

##### **RECOMMENDATIONS:**

Platipus Anchors be listed as a Potential Product under Alberta Transportation Product List, Slope Stabilization – Soil Nailing – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

#### **TRIAL PROJECTS**

NE Anthony Henday – shallow failures

Joe Filice

cc Innovations Evaluation Group (IEG) – Abid Malik  
Roger Skirrow