American Earth Anchors

The best screw you will have in the dirt™

americanearthanchors.com

QUICK REFERENCE

PE9 Specifications

9" Penetrator™

- Aircraft-quality cast aluminum 356 alloy
- Heat-treated to T6 specification
- Install with 3/4" or 19 mm socket
- Removable

Penetrators

Socket size
3/4" (19 mm)

36" PE9

26"

18"

14"

10"

9"

Flange diameter
1 1/4" (3.2 cm)

Neck diameter
5/8" (16 mm)

Flight diameter
1 1/8" (2.9 cm)

LOAD CAPACITY

Pullout strength with flight fully embedded

<table>
<thead>
<tr>
<th>Soil Class 1</th>
<th>Soil Class 2</th>
<th>Soil Class 3</th>
<th>Soil Class 4</th>
<th>Soil Class 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardpan Asphalt</td>
<td>Sandy gravel</td>
<td>Silty/clayey sand</td>
<td>Loose/med dense sands</td>
<td>Loose fine uncompacted sand</td>
</tr>
<tr>
<td>400 lb 1.78 kN</td>
<td>200 lb 0.89 kN</td>
<td>100 lb 0.44 kN</td>
<td>Less than 100 lb 0.44 kN</td>
<td>Less than 100 lb 0.44 kN</td>
</tr>
</tbody>
</table>

Soil classification per ASTM D-2487/2488

Contact us for CUSTOM WORK
Size, length, shape, material, prototypes, cable assemblies

americanearthanchors.com

© 2018 American Earth Anchors

info@americanea.com

866-520-8511

+1 508-520-8511
Field test

Anchoring walkway canopies on asphalt

Contact us for the full report

The third test was performed on the American Earth Anchor attachment configuration. The maximum uplift force imposed on this post was 660 lbs. with deflection of 0.625 inches and no failure of the attachment or asphalt uplift/failure. This test result indicates that posts anchored in asphalt utilizing the American Earth Anchor 9” Penetrator meet the desired uplift resistance of 565 lbs. per post. Please note that during all of the above testing, no failure of the beam/post connections occurred.

Posts anchored to the asphalt surfaces with the metal plate system do not provide sufficient uplift resistance. As demonstrated, posts anchored with the American Earth Anchor, 9” Penetrator system provide sufficient resistance. Contour therefore recommends that all walkway canopy structures located over the asphalt surfaces be anchored with the American Earth Anchor system.