### EARTH ANCHORING SYSTEMS FOR INFRASTRUCTURE APPLICATIONS









## **FRUSTUM CONE**



Due to the shape of the anchor and the offset attachment point of the wire tendon, when a load is applied, the anchor will rotate in the ground by up to 90° and loadlock.

As the load exerted on the soil by the anchor system increases, a body of soil above the anchor is compressed and provides resistance to any further anchor movement. The size and spread of this body of soil can be visualized as being a truncated cone or frustum. We refer to this soil as the Frustum Cone.

The size and spread of a Frustum Cone will depend upon:

- The shear angle of the soilThe size of the anchor
- The depth of installation
- The load applied









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## **ANCHOR CAPACITY**

The ultimate bearing capacity achieved by a mechanical anchor, in a purely cohesive soil, is governed by:

- a) The loading history, moisture content and soil structure at the deployed anchor position and in the area of increased pressure immediately in front of it, represented by a term known as undrained shear strength
- b) The size and shape of the anchor plate





ANCHOR PLANS							
			Y	Product Code	T=EYE VERSION	Plan mm <sup>2</sup>	Area inches <sup>2</sup>
Product Code	E=EYE VERSION	Plan mm <sup>2</sup>	Area inches <sup>2</sup>	B04		28,736	44.5
S02E		930	2.32	B06		45,500	70.5
S04E		4,127	6.39				
S06E		8,200	12.71	B08		71,500	110.8
S08E		19,555	30.31	B10	Storigations	115,800	179.5
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