

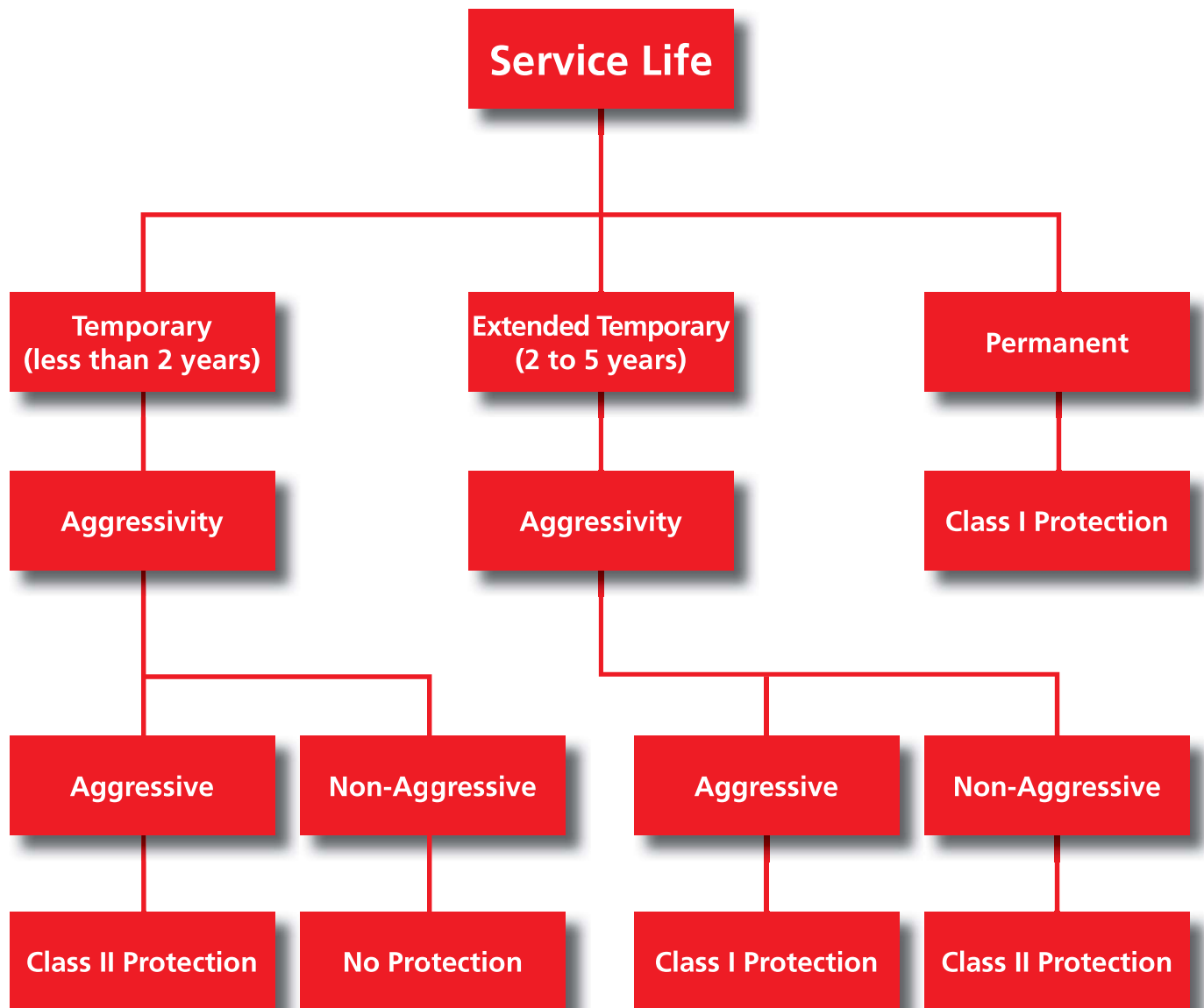
GSS Titan Strand Anchors

Recognised as one of the strongest, most flexible and cost effective anchor systems in the industry, Strand Anchors are in use throughout North America. Our unique encapsulation process ensures that the Strands' bond length is not contaminated with the grease from the free length. Strand Anchors are typically used for either permanent or temporary tie down and tie back anchors in either rock or soil. Examples include hydroelectric dams, wind tower foundations, slope stabilization and excavation shoring.

Advantages of GSS Titan Strand Anchors

- Transportation of anchor tendons on reels coiled or looped. Therefore only small storage and assembly area are required.
- Cutting of length of anchors on job site possible to suit local ground conditions.
- Installation of flexible anchor tendons under extremely tight space conditions.
- Less danger of contact with overhead power lines, because anchors are not as rigid as bars.
- High yield point ($1570 \text{ N/mm}^2 = 227 \text{ KSI}$) and low E-modulus of $20000 \text{ N/mm}^2 = 29000 \text{ KSI}$ indicates that the strain of strand is greater than that for 150 KSI bars.
- With our strand anchors more than one tension element in each anchor guarantees higher safety versus single bar anchors.
- Our slim line strand coupler allows for easy splicing of even multiple strand anchors.

Corrosion Protection Tree



Corrosion Protection Classification

In the 2014 *Recommendations for Prestressed Rock and Soil Anchors* (this is the Fifth Edition and is endorsed by the ADSC Anchored Earth Retention Committee) the Post-Tensioning Institute defines three classes of Corrosion Protection:

PTI Class I: Encapsulated Tendons
(often referred to as *double corrosion protected, DCP*)

PTI Class II: Grout Protected Tendons
(often referred to as *single corrosion protected, SCP*)

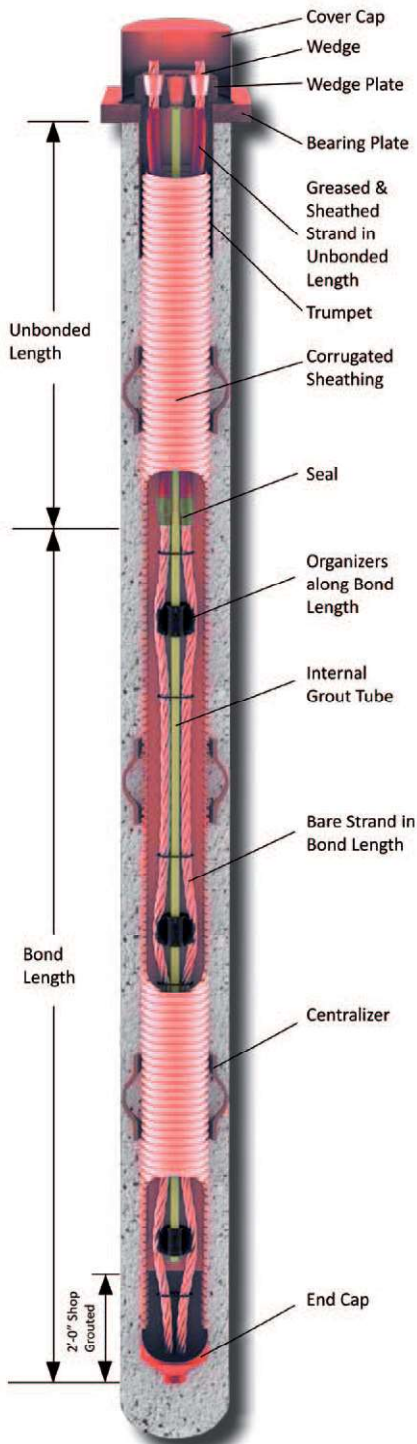
Temporary: Grout Protected
(often referred to as *single corrosion protected, SCP*)

PROTECTION REQUIREMENTS

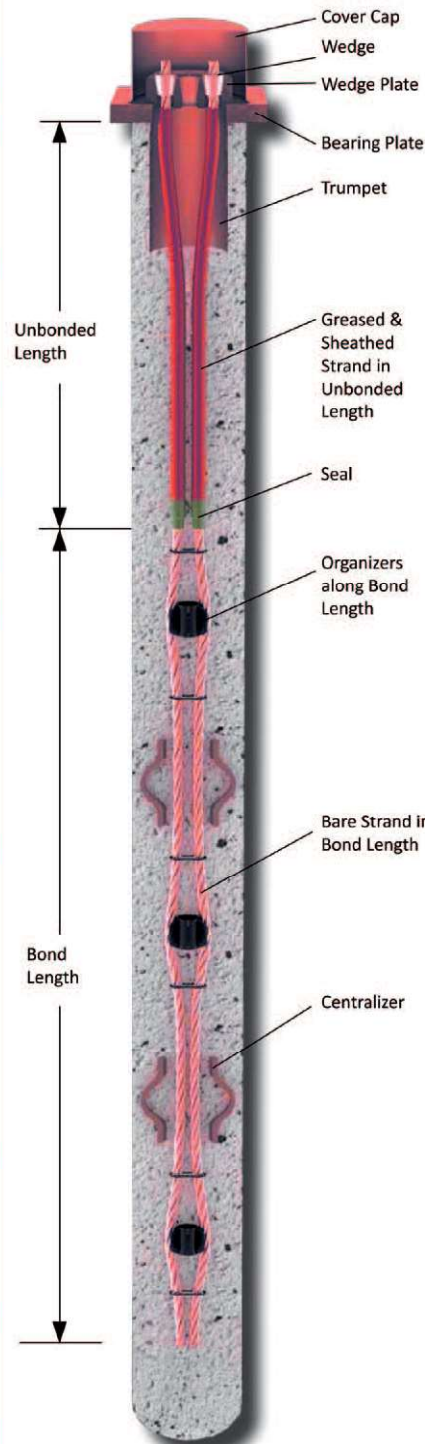
Class	Anchorage	Unbonded Length	Tendon Bond Length
PTI Class I Encapsulated Tendon	<ul style="list-style-type: none"> • Trumpet • Grout or corrosion inhibiting compound filled, cover if exposed 	<ul style="list-style-type: none"> • Corrosion inhibiting compound filled sheath encased in grout, or • Grout filled sheath, or • Grout encased epoxy-coated strand in a successfully water-pressure tested drill hole 	<ul style="list-style-type: none"> • Grout-filled encapsulation, or • Epoxy coated strand tendon in a successfully water-pressure tested drill hole
PTI Class II	<ul style="list-style-type: none"> • Trumpet • Grout or corrosion inhibiting compound filled, cover if exposed 	<ul style="list-style-type: none"> • Corrosion inhibiting compound filled sheath encased in grout, or • Grout filled sheath, or • Grout encased fully or partially bonded tendon in sound rock or concrete 	<ul style="list-style-type: none"> • Grout encasement
Temporary – up to 24 months	<ul style="list-style-type: none"> • No trumpet 	<ul style="list-style-type: none"> • Grease-filled sheath 	<ul style="list-style-type: none"> • No extra protection required

Anchor Details

PTI-Class I
Double Corrosion Protection



PTI-Class II
Single Corrosion Protection



Temporary Anchor
No Corrosion Protection

