

GEOPIER® UPLIFT ELEMENTS AND CORROSION MITIGATION OF STEEL

Geopier Uplift elements can provide 50 to 80 kips of allowable uplift resistance for short term earthquake and wind loads. The uplift resistance is provided by placing a steel dead-man plate that is bolted to four 75 ksi steel rock anchor bars (see detail below). The corrosion of the steel is accounted for in every Geopier design. Typical corrosion mitigation measures are outlined below. In medium to high corrosive soil environments protection of the threaded bar is accomplished with poly coatings on the 75 ksi all-threaded bar.

CORROSION ATTACK	CORROSION RESISTANCE FOR UPLIFT STEEL
Low	<ul style="list-style-type: none"> Galvanized steel and oversized bar diameter 75 ksi A615 Williams Form all-threaded reinforcing bar
Medium	<ul style="list-style-type: none"> Galvanized steel, oversized bar diameter, and 2 layer extruded polycoating 75 ksi A615 Williams Form all-threaded reinforcing bar
High	Consult with Corrosion Engineer & select most cost effective solution below: <ol style="list-style-type: none"> Stainless steel Triple protection: Epoxy-coated 75 ksi A615 Williams Form bar , encased in a poly-corrugated and grouted sleeve Cathodic protection

