



## Stingray Anchor Ultimate Holding Capacities in Listed Soils

Common Soil Type Description	Typical Blow Count "N" Per ASTM-D1586	SR-1	SR-2	SR-3
Peat, Organic Silts; Inundates Silts, Fly Ash	0 - 5	13-37kN (4,6)	18-53kN (4,6)	27-71kN (4,6)
Loose fine Sand; Alluvium; Soft-Firm Clays; Varied Clays; Fills	4 - 8	58-82kN (4,6)	85-125kN (4,6)	107-165kN (4,6)
Loose to Medium Dense Fine to Coarse Sand; Firm to Stiff Clays and Silts	7 - 14	72-107kN (4)	120-160kN (4)	165-214kN (4)
Medium Dense Coarse Sand and Sandy Gravel; Stiff to very Stiff Silts and Clays	14 - 25	107-142kN (4)	138-214kN (4)	214-280kN (4)
Medium Dense Sandy Gravel; Very Stiff to Hard Silts and Clays	24 - 40	129-182kN (4)	205-294kN (4)	280-400kN (4)
Dense Clays, Sands and Gravel; Hard Silts and Clays	35 - 50	173-258kN (4)	276-351kN (2,4)	378-445kN (2,3,4)
Dense Fine Sand; Very hard Silts and Clays	45 - 60	258-289kN (2,4)	351-396kN (2,4)	445kN (2,3)
Very Dense and/or Cemented Sands; Coarse Gravel and Cobbles	60 - 80+	289-445kN (1,3)	396-445kN (1,3)	445kN (1,3,5)

### KEY

- 1 - Drilled hole required to install.
  - 2 - Installation may be difficult. Pilot hole may be required.
  - 3 - Holding capacity limited by working load of anchors
  - 4 - Holding capacity limited by soil failure.
  - 5 - Not recommended in these soils.
  - 6 - Wide variation in soil properties reduces prediction accuracy.
- Pre-constructed field test recommended.  
 \* Use this chart for estimation only.  
 \* True capacity must be tested with anchor locker.