Design Algorithm (flowchart)
Foundation Design for New Construction

```
            ┌──────────────────────────┐
            │  Owner/Consultant         │ ◀───────────────┐
            │  Requires a               │                 │
            │  Deep Foundation          │                 │
            └──────────┬───────────────┘                 │
                       │                                  │
   ┌──────────┐   ┌────▼──────────────────┐   ┌──────────┐│
   │ Soil     │──▶│ Review by             │◀──│ Loads    ││
   │ Report   │   │ Consultant/Distributor│   │(Structural││
   │(Geotech- │   │ Dealer/CHANCE         │   │ Designer)││
   │ nical)   │   │(Experience Required)  │   └──────────┘│
   └──────────┘   └────────┬──────────────┘               │
                           │                              │
                      ◆ Feasibility ◆  ── NO ─────────────┘
                           │ YES
                  ┌────────▼────────┐
                  │ Bearing         │
                  │ Capacity        │
                  │ Calculations    │
                  └────────┬────────┘
                  ┌────────▼────────┐
                  │ Lateral and     │
                  │ Buckling        │
                  └────────┬────────┘
                  ┌────────▼────────┐
                  │ Corrosion       │
                  └────────┬────────┘
                  ┌────────▼────────┐
                  │ Product         │
                  │ Selection       │
                  └────────┬────────┘
                  ┌────────▼────────┐
                  │ Production      │
                  │ Control         │
                  └────────┬────────┘
                  ┌────────▼────────┐
                  │ Specifications  │
                  │ and Drawings    │
                  └─────────────────┘
```

Owner/Consultant Requires a Deep Foundation

Soil Report (Geotechnical) → Review by Consultant/Distributor/Dealer/CHANCE (Experience Required) ← Loads (Structural Designer)

Feasibility — NO / YES

Bearing Capacity Calculations

Lateral and Buckling

Corrosion

Product Selection

Production Control

Specifications and Drawings