Steel Piles made of Seawater Corrosion Resistant Steel, POSEIDON500 system

Poseidon 500



Characteristic / Advantage

P 355

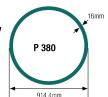
19mm

• 40% more corrosion resistant & 20% higher strength than the ordinary structural steel in the marine environments

• Less thickness for the similar structural capacity & Steel material saving about 13%

ructural capacity & Steel material

3 %
6 saving of Steel Material



Spec / Standard

- Available thickness & Dia.: t=5~40mm, D406~D3,000mm
- Standard: Structural pipes(D 3300), Steel Piles(F4602), Steel Sheet Piles(F4605)
- Corrosion resistance welding materials developed for pile connection

1	KS	Name	Tensile Strength(MPa)	Yield strength(MPa)	Elongation(%)	Charpy Energy
	D3300	SKTM500				
	F4602	STP380	≥ 500	≥ 380	≥16	≥ 47J @ - 5°C
	F4605	SKY500				

Comparisons

- Allowable Stress: 20% higher strength comparing to conventional P355
- Corrosion Allowance: 40% reduction comparing to conventional structural steel

	P355	P380	Notes
Allowable Stress	185MPa	230MPa	Design & Standards for Harbor and
Corrosion Allowance	2.0mm (Life span 50 years)	1.2mm (Life span 50 years)	Port Requirements.
Cost Saving	100%	92%	

Applications





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