











GEL PRESTRESSED CONCRETE PILES

	S 45x45		TIS 396-2524
		Cross section area	2025 sq.cm.
Length of pile	15-30 m.	Unit weight	486 kg./m.
Allowable design load	50-130 tons.	Perimeter	175 cm.
	HS 40x40		TIS 396-2524
		Cross section area	1345 sq.cm.
Length of pile	15-30 m.	Unit weight	323 kg./m.
Allowable design load	50-90 tons.	Perimeter	154 cm.
	HS 45x45		TIS 396-2524
		Cross section area	1609 sq.cm.
Length of pile	15-30 m.	Unit weight	386 kg./m.
Allowable design load	50-112 tons.	Perimeter	175 cm.
	HS 52.5x52.5		TIS 396-2524
		Cross section area	2049 sq.cm.
Length of pile	15-30 m.	Unit weight	492 kg./m.
Allowable design load	50-135 tons.	Perimeter	204 cm.
	HS 65x65		TIS 396-2524
		Cross section area	2968 sq.cm.
Length of pile	15-25 m.	Unit weight	712 kg./m.
Allowable design load	50-150 tons.	Perimeter	254 cm.

SPECIFICATION

CONCRETE

- Ultimate compressive strength at 7 days not less than 350 kg/cm² for standard cylinder $\phi 6'' \times 12''$, or not less than 450 kg/cm² for standard cube 15 x 15 x 15 cm.
- Portland cement-ASTM C150 type I or rapid hardening strength portland cement ASTM C150 type III.
- P.C. pies shall be fabricated by pretensioning method.
- Concrete strength no less than 280 kg/cm² at prestress transfer
- Water curing

PRESTRESSING STEEL

- Uncoated stress-relieve steel wire indented round type or uncoated seven-wire stress-relieved strand.
- Ultimate tensile strength not less than
 - 17,500 kg/cm² for wire ϕ 4 mm.
 - ϕ 5mm.
 - 16,000 kg/cm² for wire ϕ 7 mm.
 - 17,575 kg/cm² for strand class 1725 (class A)
 - 18,980 kg/cm² for strand class 1860 (class B)
 (ref.ASTM A421-80 for PC. wire and ASTM A416-88 for strand)
- Initial force applied on prestressing steel shall be 70-75% ultimate tensile strength

REMARKS

1. The above safe loads are subjected to Bangkok sub-soil and variable due to sub-soil properties
2. The length of piles provided are changeable as required and available for composite piles
3. Concrete cylindrical compressive strength shall not less than 280 ksc. and 350 ksc. at transfer and at working stage respectively.