(PREVIEW)

Indian Standard

DESIGN AND CONSTRUCTION OF PILE FOUNDATIONS — CODE OF PRACTICE

PART 1 CONCRETE PILES

Section 3 Driven Precast Concrete Piles

1 SCOPE

1.1 This standard (Part 1/Sec 3) covers the design and construction of driven precast concrete piles of solid section which transmit the load to the soil by resistance developed either at the pile tip by endbearing or along the surface of the shaft by friction or by both.

1.2 This standard is not applicable for use of driven precast concrete piles for any other purpose, for example, temporary or permanent retaining structure.

2 REFERENCES

The standards listed in Annex A contain provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed in Annex A.

ANNEX A

(*Clause* 2)

LIST OF REFERRED INDIAN STANDARDS

IS No	*Title*
269 : 1989	Ordinary Portland cement, 33 grade — Specification (*fourth revision*)
432 (Part 1) : 1982	Specification for mild steel and 1982 medium tensile steel bars and hard-drawn steel wire for concrete reinforcement: Part 1 Mild steel and medium tensile steel bars (*third revision*)
455 : 1989	Portland slag cement — Specification (*fourth revision*)
456 : 2000	Plain and reinforced concrete — Code of practice (*fourth revision*)
1343 : 1980	Code of practice for prestressed concrete (*first revision*)
1489	Portland-pozzolana cement — Specification:

(Part 1) : 1991	Fly ash based (*third revision*)
(Part 2) : 1991	Calcined clay based (*third revision*)
1786 : 1985	Specification for high strength deformed steel bars and wires for concrete reinforcement (*third revision*)
1892 : 1979	Code of practice for sub-surface investigations for foundations (*first revision*)
1893 (Part 1) : 2002	Criteria for earthquake resistant design of structures: Part 1 General provisions and buildings (*fifth revision*)
2062 : 2006	Hot rolled low, medium and high tensile structural steel (*sixth revision*)
2090 : 1983	Specification for high tensile steel bars used in presetressed concrete (*first revision*)
2131:1981	Method for standard penetration test for soils (*first revision*)
2911	Code of practice for design and construction of pile foundations:
(Part 3) : 1980	Under-reamed piles (*first revision*)
(Part 4) : 1984	Load test on piles (*first revision*)
2974 (Part 1) : 1982	Code of practice for design and construction of machine foundations: Part 1 Foundation for reciprocating type machines (*second revision*)
4968	Method for sub-surface sounding for soils:
(Part 1) : 1976	Dynamic method using 50 mm cone without bentonite slurry (*first revision*)
(Part 2) : 1976	Dynamic method using cone and bentonite slurry (*first revision*)
(Part 3) : 1976	Static cone penetration test (*first revision*)
6403 : 1981	Code of practice for determination of bearing capacity of shallow foundations (*first revision*)
8041 : 1990	Rapid hardening Portland cement — Specification (*second revision*)
8043 : 1991	Hydrophobic Portland cement — Specification (*second revision*)
8112 : 1989	43 grade ordinary Portland cement — Specification (*first revision*)
12269 : 1987	Specification for 53 grade ordinary Portland cement
12330 : 1988	Specification for sulphate resisting Portland cement
12600 : 1989	Portland cement, low heat — Specification