

JIS

JAPANESE INDUSTRIAL STANDARD

Reinforced Spun Concrete Piles

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.



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Reinforced Spun Concrete Piles

A 5310-1987

1. Scope

This Japanese Industrial Standard specifies the reinforced spun concrete piles manufactured by using centrifugal force, hereinafter referred to as the "RC piles". Prestressed concrete piles, however, shall be excluded.

Remark: The units and numerical values given in { } in this Standard are based on the International System of Units (SI) and are appended for informative reference.

2. Classification

2.1 RC piles shall be classified into two classes, 1 and 2.

Remark: Class 1 piles are intended to resist mainly longitudinal loads, and Class 2 piles are intended to resist horizontal loads in addition to longitudinal loads.

2.2 Class 1 piles shall be subclassified into 200 mm, 250 mm, 300 mm, 350 mm, 400 mm, 450 mm, 500 mm and 600 mm according to the diameter.

2.3 Class 2 piles shall be subclassified into 300 mm, 350 mm, 400 mm, 450 mm, 500 mm and 600 mm according to its diameter, and then grouped into Type A, Type B and Type C depending on the value of cracking bending moment.

3. Quality

3.1 Appearance RC piles shall be free from defects such as harmful flaws and cracks.

3.2 Bending Strength

3.2.1 Body When subjected to the cracking bending moment given in Tables 1 and 2 in the bending strength test of 8., RC piles shall not show cracks 0.2 mm or larger in width in any portion.

The breaking bending moment for Class 2 RC piles shall be not smaller than 2 times the cracking bending moment.

3.2.2 Joint The bending strength test of the joint shall be carried out to RC piles of Class 2, and the resulting value shall be equal to or larger than the breaking bending moment among the bending strengths for the body specified in 3.2.1.

Applicable Standards and Reference Standard: See page 11.