

# JIS

**JAPANESE INDUSTRIAL STANDARD**

## **Pretensioned Spun High Strength Concrete Piles**

 **JIS A 5337**—1987

**Translated and Published**

**by**

**Japanese Standards Association**

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

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Pretensioned Spun High Strength  
Concrete Piles

A 5337-1987

1. Scope

This Japanese Industrial Standard specifies the centrifugally spun prestressed high strength concrete piles which have been manufactured by pretensioning to make compressive strength of 800 kgf/cm<sup>2</sup> {7.85 kN/cm<sup>2</sup>} or more, hereinafter referred to as the "PHC piles".

Remark: The units and numerical values given in { } in this standard are in accordance with the International System of Units (SI), and are appended for informative reference.

2. Type

PHC piles shall be classified into 300 mm, 350 mm, 400 mm, 450 mm, 500 mm, 600 mm, 700 mm, 800 mm, 900 mm, and 1000 mm according to the outside diameter and further classified into Type A, Type B, and Type C according to the magnitude of cracking moment by bending.

Further, the effective prestress of Type A, Type B, and Type C of PHC piles shall be respectively 40 kgf/cm<sup>2</sup> {392 N/cm<sup>2</sup>}, 80 kgf/cm<sup>2</sup> {785 N/cm<sup>2</sup>}, and 100 kgf/cm<sup>2</sup> {981 N/cm<sup>2</sup>}. The effective prestress shall be obtained by calculation and its calculated value shall be within a range of  $\pm 5\%$  of each value.

3. Quality

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

3.2 Bending Strength of Pile Body The body of PHC pile shall be subjected to the bending strength test specified in 8.1, and in this testing, no crack shall take place when the cracking moment by bending given in Table 1 is loaded.

Further, the breaking moment by bending shall be not less than the values given in Table 1.

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Applicable Standards: See pages 14 and 15.