

## Approval & Reception Procedure

DG – Geotechnical Department	
<b>Pile Integrity Verification Procedure B</b> <b>Pile Dynamic Loading Test without Signal Matching</b>	Document no. <b>ARP/DG/10</b>
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### 1. Reference standard

Regulamento de Fundações, Guia de Dimensionamento de Fundações, Regulamento de Estruturas de Aço para Edifícios, ASTM D4945.

### 2. Approval procedures

#### 2.1 Piles manufacturer approval

For PHC piles, GDF requirements should be followed

For Steel piles, REAE requirements should be followed

### 3. Reception procedure

#### 3.1 Reception procedure of piles delivery on site

According to LECM Report N° 2024 requirement for PHC piles

According to REAE requirement for Steel piles

#### 3.2 Reception procedure of driving pile

##### Information to be submitted

Pile characteristics (type, diameter and verticality)

Pile installation records (location, contractor, total length and embedded length)

Pile driving devices characteristics (technical data for pile hammer)

Assumed load of pile

Pile driving records

Site investigation results

### 4. Acceptance criteria

The acceptance criteria is mainly based on  $\beta$  calculated by Rausche and Goble's method, in this specification, for the  $\beta$  value between 0.8~1.0, the test pile may be classified as accepted pile, for the  $\beta$  value between 0.6~0.8, the test pile may be classified as damage pile, for the  $\beta$  value less than 0.6, the test pile may be classified as broken pile. The last two types of piles must be rejected ( $\beta < 0.8$ ).