

Approval & Reception Procedure

DG – Geotechnical Department	
Compaction of Sub-base and Base	Document no. ARP/DG/08
	Date: 2010/07/01
	Page no. 1 of 1

1. Reference standard

Regulamento de Fundações, Guia de Dimensionamento Fundações, Regulamento de Estruturas de Suporte e Obras de Terra , ASTM C127, ASTM C128, ASTM D1556.

2. Approval procedures

2.1 Information to be submitted

Type and source of material

Test report: Specific Gravity Test (ASTM C127, C128).

2.2 Sub-base and base materials must be approved before (See approval and reception procedure ARP/DG/04)

3. Reception procedure

3.1 General

The sub-base and base shall be tested and approved, compacted, finished correctly to alignment, dimensions and levels, before any pavement material is placed.

3.2 Field Tests

The following field tests shall be performed (1 test for each 500m² or part thereof):

Field Density Test (ASTM D1556)

4. Acceptance criteria

- Maximum permissible thickness compacted should be less than the requirement of specification (or less than 0.3m for sub-base and 0.2m for base if not specified).
- The gradient of the surface must avoid the presence of retained water.
- If the determined void ratio complies with the requirement of specification (or $\leq 15\%$ if not specified), then the compactness on the area of that level shall be considered to be acceptable.
- If test results failed to comply with the requirements, further replace and /or compaction shall be requested.