

Approval & Reception Procedure

DG – Geotechnical Department	
Backfill Material (reclamation)	Document no. ARP/DG/03
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1. Reference standard

Regulamento de Fundações, Regulamento de Estruturas de Suporte e Obras de Terra, Guia de Dimensionamento de Fundações, ASTM D422, ASTM D1557, ASTM D3080, ASTM D4253.

The reception of compactness of backfill shall follow Approval & Reception Procedure ARP/DG/07 “Compaction of Sub-grade”.

2. Approval procedures

2.1 Information to be submitted

Source of material and their test report (not older than 6 months)

2.2 Sampling and Laboratory Tests

For soil samples, the minimum mass of the sample for testing shall be 60.0 kg, the following laboratory tests shall be performed (1 test for each 5000m³ or part thereof):

Particle Size Distribution Test (ASTM D422)

Proctor Test (ASTM D1557)

For sand samples, the minimum mass of the sample for testing shall be 30.0 kg, the following laboratory tests to be performed (1 test for each 5000m³ or part thereof):

Particle Size Distribution Test (ASTM D422)

Maximum index density (Vibratory Table) (ASTM D4253)

Direct Shear Test (ASTM D3080)

3. Acceptance criteria

The results of tests must comply with technical specification.

Normally for Particle Size Distribution Test (soils), fine content (pass through ASTM sieve n°200) must be <15%. The maximum diameter must be less than 50mm. For sand (when geodrains are used) it is suggested that <5% of the portion pass through ASTM sieve n° 200. For the friction angle $\phi > 30^\circ$ is suggested.