

Approval & Reception Procedure

DG – Geotechnical Department	
Sub-base and Base	Document no. ARP/DG/04
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1. Reference standard

Regulamento de Fundações, Regulamento de Estruturas de Suporte e Obras de Terra), Guia de Dimensionamento Fundações, ASTM C127, ASTM C128, ASTM C131, ASTM C136, ASTM C535, ASTM D1241.

2. Approval procedures

Lot: A Lot is any materials of the same type, and source, used for each layer, not exceeding 1000 m³.

2.1 Information to be submitted

Type and source of material

Test report (not older than 6 months)

2.2 Sampling and Laboratory Tests

The minimum mass of the sample for testing shall be 100 kg, the following laboratory tests shall be performed (1 test per lot):

Particle Size Distribution Test (ASTM C136)

Specific Gravity Test (ASTM C127, C128)

Los Angeles Test (ASTM C131, ASTM C535)

CBR Test (ASTM D1883), if required.

3. Reception procedure

3.1 Field Test

The reception of compactness of sub-base and base shall follow Approval & Reception Procedure ARP/DG/08 “Compaction of Sub-base and Base”.

4. Acceptance criteria

For the sub-base and base, the standard ASTM D1241 must be followed.

The material shall be continuously well graded within the limits specified in the specification.

The limits in the table below can be accepted if not specified.

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Percentage by Weight Passing Square-Mesh Sieve

Base			Sub-base		
Sieve Designation	Range Requirement		Sieve Designation	Range Requirement	
mm			mm		
50.0	100	100	75.0	100	100
37.5	85	95	63.0	90	100
19.0	50	85	4.75	40	90
4.75	30	45	2.00	30	60
0.425	8	22	0.075	0	20
0.075	2	9			

For the Los Angeles Test, test result shall comply with the requirement of specification (or shall not exceed 35 % for sub-base and shall not exceed 30% for base if not specified).