

## Approval & Reception Procedure

DMC – Departamento de Materiais de Construção	
<b>Concrete Paving Blocks</b>	Document No. <b>ARP/DMC/10</b>
	Date : <b>2010-07-01</b>
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### 1. Reference Document

The reference standards include Macau Standard for Concrete, Decreto-Lei 42/97/M and EN 1338:2003.

### 2. Approval Procedure

The manufacturer's catalogue and technical specifications shall be submitted.

For approval of the proposed materials, the project specification should be considered.

### 3. Reception Procedure

#### **Submission of documents**

Manufacturer's certificate of origin, quality and quantity should be submitted.

### 4. Inspection of lot

**Case I:** The product has not been submitted to an assessment of conformity by a third party, 1 sampling per each 1000 m<sup>2</sup> area.

**Case II:** The product has been submitted to an assessment of conformity by a third party, 1 sampling per each 2000 m<sup>2</sup> area.

Sampling plan:

Property	Minimum number of units in 1 sampling	
	Case I	Case II
Shape and dimensions	8	4 (16)
Tensile splitting strength and breaking load	8	4 (16)
<b>Note:</b> The number in brackets is the number to be sampled to avoid secondary sampling from the batch if, on the basis of the conformity criteria, additional blocks shall be tested to assess conformity.		

### 5. Acceptance Criteria

**Case I:**

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Shape and dimensions: Each block shall meet the requirement for the declared class.

Tensile splitting strength and breaking load: No block shall have a tensile strength less than 3.6 MPa nor have a failure load less than 250N/mm of splitting length.

### Case II:

Shape and dimensions:

- a) If the sample consists of less than eight blocks and all the blocks comply with each of the requirements in the standard for the declared class, then the sample and the corresponding products shall be accepted. If not, this sample shall be increased to eight blocks and the procedure given in b) shall be applied.
- b) If the sample consists of eight blocks and not more than one of the blocks does not conform to any one of the requirements in the standard considered separately for the declared class, the sample and the corresponding products shall be accepted. If not, this sample shall be increased to 16 blocks and the procedure given in c) shall be applied.
- c) If the sample consists of 16 blocks and not more than two of the blocks do not conform to any one of the requirements in the standard considered separately for the declared class, the sample and the corresponding production shall be accepted. If more than two of the blocks do not conform to any one of the requirements considered separately for the declared class, the sample and the corresponding products are not accepted.

Tensile splitting strength and breaking load:

- a) If the sample consists of eight blocks or fewer and the strength of each of the blocks is not lower than 3.6 MPa and the failure load not lower than 250 N/mm, the sample and the corresponding products shall be accepted. If not, the sample shall be increased to 16 blocks and the procedure given in b) shall be applied.
- b) If the sample consists of 16 blocks and the strength of not more than one of the blocks is lower than 3.6 MPa but not lower than 2.9 MPa and no failing load is lower than 250 N/mm, the sample and the corresponding products shall be accepted. If not, the sample and the corresponding products are not accepted.