

# Design & Testing of Bituminous Mixtures

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## MARSHALL STABILITY– Automatic specimen compaction



Detail of Hammer Mechanism



Detail of Clamping Mechanism



### GENERAL DESCRIPTION

#### MAIN FEATURES

- Automatic control
- Complete protection for operator safety to CE prescriptions
- Digital touch button console incorporating the emergency stop button to CE prescriptions
- Improved rammer lifting device, constant height fall, modern and reliable design
- User friendly rammer replacement system

#### TECHNICAL SPECIFICATIONS

- Power rating: 600 W
- Blows frequency: 50 blows in 55/60 s
- Sliding mass weight: 4536 ± 9g
- Foot and guide rod weight: 3960 ± 20g
- Free fall height: 457 ± 3 mm
- Laminated hardwood block: 200x200x450 mm, density 670 to 770 kg/m<sup>3</sup>
- Concrete base (included): 450x450x200 mm

The apparatus automatically compacts the sample and stops after the pre-set number of blows. The mould is held in position by a quick and practical clamping device. The trip mechanism is arranged so that the sliding hammer falls at the same distance for every blow. The compactor includes the laminate hardwood block and vibrated concrete base 450x450x200 mm.

All moving parts are protected with safety guard, which stops automatically the compactor when opened, and the control panel is fit with an emergency stop red button, all conforming to CE prescriptions.

Noise reduction and security cabinet available on request.

- Dimensions: 540x556x2066 mm
- Weight approx.: 270 kg



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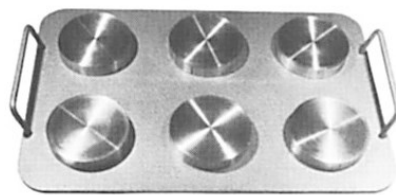
## MARSHALL STABILITY– Automatic specimen compaction

### ACCESSORIES

- Universal Extruder: For removing 101.6 and 152.4 mm (4" and 6") specimens
- Marshall Moulds: Standard or specially made to fit heavy duty automatic compactor
- Storage Plate: Manufactured with six 100 mm diameter discs, to cool the specimens in air.
- Steel Block: 100 mm dia. 50 mm high, for the initial heating of the compaction hammer.
- Noise Reduction Cabinet: see below



**Universal Extruder**



**Storage Plate**



**Marshall Mould**



### **Noise reduction and security cabinet for automatic compactors.**

#### **Description**

The Marshall automatic compactors can be factory installed inside the cabinet which provides either the sound isolation (less than 78 dB) or operator safety conforming CE prescriptions, as the machine stops automatically opening the door.

The cabinet is delivered disassembled with instructions for the easy laboratory fitting.

- Dimensions: 800x800x2200 mm
- Weight approx.: 200 kg

