



# Test method T603

## Stability of dense graded bituminous mixtures modified Hubbard – Field procedure

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## Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
		Reformatted and Revision Summary Added	D.Dash	Jan 2000
Ed 2/ Rev 0	All	Reformatted RMS template	J. Friedrich	November 2012

Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T603 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

# Test method T603

## Stability of dense graded bituminous mixtures modified Hubbard – Field procedure

### 1. Scope

This test method sets out the procedure for the determination of stability using the Hubbard-Field stability machine.

### 2. Apparatus

- (a) A Hubbard-Field Type stability testing machine capable of applying a total force of 44.5 kN at a uniform rate of head or platen movement of 61 mm/min.
- (b) A testing mould assembly consisting of a mould, diameter and height 152 mm, slightly tapered at one end, fitted to a shear ring and ring base. Alternatively a mould of diameter 152 mm and height of 162 mm with the shear ring fitted integrally about 64 mm from one end and provided with a lifting handle.
- (c) A constant temperature water bath, of sufficient depth to immerse totally the testing mould, thermostatically-controlled to maintain a temperature of  $60 \pm 0.5^{\circ}\text{C}$ .

### 3. Test Specimen

The standard test specimen consists of a 152 mm diameter by 75 mm high briquette compacted in accordance with the method described in Test method T601 - Compaction of Test Specimens of Dense Graded Bituminous Mixtures - Modified Hubbard-Field Procedure.

### 4. Procedure

- (a) Clean and assemble the testing mould, plunger, testing ring and base.
- (b) Insert the test specimen in the mould with its original upper face (i.e. lower face during compression of the sample) seated on the shelf produced by the testing ring.
- (c) Immerse the entire assembly and enclosed specimen in the water bath at  $60 \pm 0.5^{\circ}\text{C}$  for at least one hour.
- (d) Remove the testing assembly and enclosed specimen, place the plunger in position and set in the Hubbard-Field testing machine.
- (e) Immediately apply the compression strain to the testing plunger at a constant rate of deformation of 61 mm/min until the maximum force is reached and the specimen fails. This maximum force will be obtained in the early part of the test.

### 5. Reporting

Report the maximum force developed during the test as the stability value of the specimen.