

SOILS IN-HOUSE CALIBRATION PROCEDURE # 25  
STRAIGHTEDGE VERIFICATION

## STRAIGHTEDGE VERIFICATION (ASTM D698, D1557)

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### 1. SCOPE

- 1.1 This method provides instructions for checking the planeness and length of a straightedge.
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### 2. APPARATUS

*Inspection Equipment Required:*

1. Feeler gauge, 0.005 in (0.1mm)
2. Plate glass at least 12 in square
3. Stainless steel rule or tape measure,  $\geq 10$  in.

*Tolerance:*

Straightedge must be plane to 0.005 in. (0.1 mm) per 10 in. (250 mm) when placed on level surface, must be at least 10 in. long, and must have one beveled edge if it is thicker than 1/8 in. (3 mm).

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### 3. PROCEDURE

- 3.1 Place longitudinal surface of the straightedge on glass plate.
- 3.2 Check planeness by attempting to slide the 0.005 in (0.1 mm) feeler gauge between the straightedge and the glass plate.
- 3.3 Rotate the straightedge 90° with relation to the glass and repeat Step 2.
- 3.4 The feeler gauge should not pass between the glass plate and the longitudinal surface of the straightedge.
- 3.5 Measure the length of the straightedge with a stainless steel rule or tape measure.
- 3.6 Verify that at least one longitudinal edge is beveled.