

## EQUIPMENT VERIFICATION PROCEDURE

### METAL STRAIGHTEDGE

#### I. EQUIPMENT

- A. Glass plate, thickness preferably at least 1/4 in.
- B. Feeler gauge, of correct thickness(es) as determined by length of straightedge to be checked.
- C. Ruler or tape measure or other suitable measuring device.
- D. Smooth level table or other sufficiently stable surface.

#### II. PROCEDURE

- A. Measure the length of the straightedge and record on worksheet. Using this length, determine the tolerance allowed for the straightedge, and select the proper feeler gauge.
- B. Lay the straightedge with the longitudinal surface resting flat on the glass plate. While holding the straightedge firmly against the glass, but without excessive pressure, slide the required feeler gauge against the straightedge where it contacts the glass plate, trying to slide it between the two. If there is an opening larger than acceptable, the feeler gauge should slide under the straightedge, indicating that it is not planar.
- C. Hold the straightedge with the beveled edge firmly against the glass plate, but without excessive pressure, slide the required feeler gauge against the straightedge where it contacts the glass plate, trying to slide it between the two. If there is an opening larger than acceptable, the feeler gauge should slide under the straightedge, indicating that it is not planar.

#### III. DOCUMENTATION

- A. Record the following:
  - 1. Length of straightedge
  - 2. Required maximum distortions for each surface/edge, longitudinal or beveled
  - 3. Condition of surface/edge (Satisfactory or Unsatisfactory)
  - 4. Identifying Number

STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

VERIFICATION OF  
METAL STRAIGHTEDGE  
Verification procedure used: DOTD A27

Verification Frequency: 12 months

Previous date:

Date of verification:

Next verification due:

Identification no.:

Mfg./distributor: N/A

Verified by:

Verification equipment used:

Length of straightedge			Inch		mm
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Maximum allowable curvature					
Longitudinal surface			Inch		mm
Beveled edge			Inch		mm

Condition of surface or edge				
Longitudinal surface		Satisfactory		Unsatisfactory
Beveled edge		Satisfactory		Unsatisfactory

Recommended actions: Repair \_\_\_\_\_ Replace \_\_\_\_\_ None \_\_\_\_\_

Comments: \_\_\_\_\_