

State of Nevada
Department of Highways
Materials and Testing Division

METHOD OF TEST FOR MECHANICAL
TESTING OF STEEL PRODUCTS

SCOPE

This method is to be performed as described in ASTM Designation A370, with the following additions:

A. TENSILE PROPERTIES

1. Deformed Billet-Steel Bars, for Concrete Reinforcement shall conform to the requirements of Tables 2 & 3 of ASTM A615.

B. TEST SPECIMENS

1. Tension Test Specimens from deformed bars may be either the full section of the bar as rolled or at the option of the manufacturer, one of the reduced section types described in ASTM A615.
2. The Sectional Area may be used as an alternate for determining Unit Stress on full section bars which have failed to meet the minimum values of ASTM A615 when calculated on the basis of Nominal Areas from Table I of ASTM A615.
3. Sectional Area, in square inches may be determined by dividing the weight in grams of the test specimen by the length in inches and tenths, of the specimen and multiplying the resultant by 0.00778.

EXAMPLE

$$\frac{7200 \text{ (Grams)}}{36.0 \text{ (Inches)}} \times 0.00778 = 1.56 \text{ Sq. Ins.} =$$

= Sectional Area in Square Inches.

4. Elongation shall be measured as described in ASTM A370.
5. Permissible variations from Theoretical Weights, Table 5, ASTM A615 shall apply.

Reference
Designation

ASTM A370

Designation

ASTM A615