

**CEYLON STANDARD 13:1968**  
UDC 669.14.620.177(548.7)

**METHOD OF  
BEND TESTING OF  
STEEL PRODUCTS OTHER THAN  
SHEET, STRIP, WIRE & TUBE**

**BUREAU OF CEYLON STANDARDS**

METHOD OF BEND TESTING OF STEEL PRODUCTS OTHER  
THAN SHEET, STRIP, WIRE AND TUBE

CS 13:1968

Gr. 4

*Copyright Reserved*

BUREAU OF CEYLON STANDARDS

53, Dharmapala Mawatha,

Colombo 3,

Sri Lanka.

CEYLON STANDARD  
METHOD OF BEND TESTING OF STEEL PRODUCTS  
OTHER THAN SHEET, STRIP, WIRE AND TUBE

#### FOREWORD

This Ceylon Standard has been prepared by the Drafting Committee on Steel. It was approved by the Civil Engineering Divisional Committee of the Bureau of Ceylon Standards and was authorised for adoption and publication by the Council of the Bureau on 2nd March 1968.

This standard is based on ISO Recommendation R 85:1959 Bend test for steel.

#### 1 SCOPE

This standard prescribes the method of conducting bend test on steel products other than sheet, strip, wire and tube.

#### 2 PRINCIPLE OF TEST

The test consists in submitting to plastic deformation by bending a straight, solid, prismatic or round-section test piece without reversing the direction of flexure during the test. The bending is carried out until one leg of the test piece makes, under load, a specified angle  $\alpha$  with the extension of the other (see Fig. 2). The axes of the two legs of the test piece remain in a plane perpendicular to the axis of bending. In the case of  $180^\circ$  bend, the two lateral surfaces may, depending on the requirements of the specification, lie flat against each other, or may be parallel at a specified distance; an intermediate piece may be used for the control of this distance (see Fig. 4).